BEFORE THE IDAHO DEPARTMENT OF LANDS

In the Matter of the Application of

Snake River Oil and Gas, LLC, for

Spacing Order Consisting of the E 1/2)

of the SE 1/4 of Section 9, SW 1/4 of)

Section 10, N 1/2 of the N 1/2 of the)

NW 1/4 of Section 15, and the N 1/2)

of the NE 1/4 of the NE 1/4 of)

Section 16, Township 8 North, Range 5)

West, Boise Meridian, Payette County,)

Idaho,)

Snake River Oil and Gas, LLC,)

Applicant.)

BEFORE

HEARING OFFICER: MICK THOMAS

Date: September 16, 2021, 9:00 a.m.

Location: Fruitland City Hall

200 South Whitley Drive

Fruitland, Idaho

REPORTED BY:

DIANA KILPATRICK, CSR No. 727, RPR

Notary Public

Shake N	iver On and Gas, LLC		September	10,2021
	Page 2			Page 4
1	APPEARANCES:	1	INDEX	
2		2	APPLICANT'S WITNES	SES
3	For Applicant:	3	TESTIMONY OF RICHARD BROWN	
4	Smith + Malek:	4	Direct Examination by Mr. Christian	12
5	BY MR. MICHAEL CHRISTIAN	5	Cross-Examination by Mr. Piotrowski	32
6	101 South Capitol Boulevard, Suite 930	6	Examination By Hearing Officer	55
7	Boise, Idaho 83702	7	Redirect Examination By Mr. Christian	58
8	mike@smithmalek.com	8	Examination By Hearing Officer	61
9	For Uncommitted Owners:	9		
10	(Present remotely)	10	TESTIMONY OF WADE MOORE, III	
11	Piotrowski Durand, PLLC	11	Direct Examination By Mr. Christian	62
12	BY MR. JAMES M. PIOTROWSKI	12	Cross-Examination By Mr. Piotrowski	69
13	P.O. 2864	13	Redirect Examination By Mr. Christian	76
14	Boise, Idaho 83701	14		
15	james@idunionlaw.com	15	TESTIMONY OF DAVID SMITH	
16	For Office of the Attorney General:	16	Direct Examination By Mr. Christian	79
17	(Present remotely)	17	Cross-Examination By Mr. Piotrowski	90
18	BY MS. JOY M. VEGA	18		
19	700 West State Street, 2nd Floor	19	UNCOMMITTED OWNERS' WIT	INESS:
20	Boise, Idaho 83720-0010	20	TESTIMONY OF JULIE FUGATE	
21	joy.vega@ag.idaho.gov	21	Direct Examination By Mr. Piotrowski	98
22		22	Cross-Examination By Mr. Christian	106
23		23	Redirect Examination By Mr. Piotrowski	110
24		24	Examination By Hearing Officer	112
25		25		
	Page 3			Page 5
1	APPEARANCES, CONT'D	1	INDEX, CONT	•
2	For	2		
3	McLain Law Office	3	Statement by Sharon Simmons	121
4	(Present remotely)	4	EXHIBITS	}
5	BY MS. CHERESE McLAIN	5		
6	1721 West Jefferson Street	6	OFFERED A	DMITTED
7	Boise, Idaho 83702	7	None marked.	
8	cmclain@co.boise.id.us	8		
9		9		
10		10		
11		11		
12		12		
13		13		
14		14		
15		15		
16		16		
17		17		
18		18		
19		19		
20		20		
21		21		
22		22		
23		23		
24		24		
25		25		
1		1		

3

Page 8

Page 6

1 **PROCEEDINGS SEPTEMBER 16, 2021** 2

4 HEARING OFFICER: Good morning. We're now 5 on the record in Docket No. CC-2021-OGR-01-002. It's 6 now 9:07 a.m., Thursday September 16, 2021. We are at the Fruitland City Hall in Fruitland, Idaho. This is the time set for the evidentiary hearing as provided in Idaho Code 47-3283 for the spacing units consisting of the of E 1/2 of the SE 1/4 of Section 9, SW 1/4 of Section 10, N 1/2 of the NW 1/4 of Section 15, and the N 12 1/2 of the NE 1/4 of the NE 1/4 of Section 16, Township 8 North, Range 5 West, Boise Meridian, Payette County, 14 Idaho.

My name is Mick Thomas. I'm the division 15 administrator for Minerals and Public Trust and Oil and Gas, and I'm presiding over and conducting this hearing today pursuant to Idaho Code 47-328. Some housekeeping. As many of you know, the COVID 19 response has changed some of the typical aspects of a hearing of this type. This hearing is in person, with a virtual component via Zoom. This hearing is being recorded in Zoom as required by IDAPA 041101651. We also have a backup recording device recording the hearing. 25 People who are in person will come to the

As my August 3, 2021, amended notice

2 indicates, this hearing is to receive evidence and

3 testimony regarding Snake River's April 6, 2021

4 integration application. I will use the factors

5 articulated in my order determining just and reasonable 6 factors to determine whether the terms of an integration

order fulfil the just and reasonable requirement of

Idaho Code 47-321.

The order determining just and reasonable 9 10 factors was mailed to the operator and all uncommitted 11 owners in the spacing unit on July 20, 2021, and can also be found on the Idaho Department of Lands website and the OGCC website. 13

We'll proceed with opening statements from 14 15 Snake River Oil and Gas, then uncommitted owners within

the unit, then the City of Fruitland, then the IDL. The

17 opening comments will be limited to five minutes.

Afterward the hearing will proceed as follows. I will

19 first hear evidence from the applicant, Snake River.

This will be followed by non-consenting owners represented by Mr. Pa /KROES can I. This will be

22 followed by evidence from the City of Fruitland.

23 Afterward I will accept evidence from the Idaho

24 Department of Lands. After the presentation of evidence

25 is complete I will allow closing arguments.

Page 7

Page 9

2 counsel chambers' audio/video system. This hearing is 3 also being recorded by a court reporter. So I ask that 4 everyone here be sure to speak loudly and clearly. 5 Please limit side conversations. If you haven't done so already, please silence your phones.

1 podium and be viewed actually through the, I think it's

For those of you on Zoom, please mute your 8 microphones when you are not speaking. If there is a disturbance you will be reminded to mute your microphone. If the disturbance continues, you may be muted and/or disconnected.

Documents in the record -- in this record, 12 Docket No. CC-2021-OGR-01-002, are on our website as OGCC.idaho.gov/administrative-hearings. Exhibits and witness lists were submitted by Tuesday, September 14th at 5:00 p.m. We can also use the exhibits posted on the OGCC website to ensure that we are looking at the same document. 18

When referring to exhibits, please use the 19 exhibit number, the page number by pdf page number. This hearing and evidence as needed will be presented by Chris Gozzo, a member of my staff. Parties and witnesses should direct Mr. Gozzo to each specific 24 exhibit as needed and page they would like displayed at 25 the time they would like it to be displayed.

I will provide recesses from time to time, 2 as needed. I would like for anyone who speaks to state

3 your name for the record. We may ask you to do that a

4 few times to make sure we get it correct. If you're

5 here as a representative, please indicate your own name

as well as who you're representing. I may ask

clarifying questions when you speak.

We'll begin now with opening statements, 8

9 beginning with Snake River Oil and Gas, I believe

10 Mr. Christian.

MR. CHRISTIAN: Thank you, 11

12 Mr. Administrator. Michael Christian, representing the

applicants, Snake River Oil and Gas, LLC. I will only

14 say that we intend to present testimony from Richard

15 Brown of Snake River Oil and Gas, and Wade Moore III,

16 landmen who work for Snake River Oil and Gas, to

17 discussion different aspects of the application, and

18 Dave Smith, the geologist who will discuss some aspects

19 of the existing Fallon 110 well in the unit, and at the

20 conclusion of that testimony we will ask that Snake

21 River's application be granted.

HEARING OFFICER: Thank you, Mr. Christian.

23 Mr. Piotrowski, would you like to provide an opening

statement? 24

MR. Piotrowski: Thank you. Yes, I would. 25

Page 12

Page 10

3

8

15

17

18

20

5

10

14

15

17

22

- 1 The application in this case is not supported by
- 2 adequate evidence that the necessary majority of lands
- 3 have been -- the evidence indicates, actually, that less
- 4 than claimed and less than the necessary minimum number
- 5 of lands have been leased. In addition, it appears that
- 6 the -- there appears to be a significant issue that our
- 7 evidence, uncovered recently, is that there were
- 8 uncommitted mineral owners who have not received notice
- 9 of this proceeding.
- Specifically, we intend to present evidence
- 11 that there is no evidence in the public record or
- 12 elsewhere in the record of this case to indicate that
- 13 the properties along what is known as Tamarack Court
- 14 have leased, nor any evidence that any of them received
- 15 notice from Snake River, from the Department of Lands or
- 16 from any other party, of this proceeding. As a result
- 17 we've got a potential serious due process violations in
- 18 entering an integration order involving unleased,
- 19 unnoticed mineral rights owners.
- In establishing terms, the Department should
- 21 ensure that matters addressing the payment amounts, the
- 22 bonding, and the variety of well operation matters are
- 23 addressed to ensure that terms are indeed just and
- 24 reasonable to all uncommitted owners.
- 25 HEARING OFFICER: Thank you Mr. Piotrowski.

- 1 HEARING OFFICER: I will offer the oath to
- 2 the witness when he comes up.
 - RICHARD BROWN,
- 4 First duly sworn to tell the truth related to said
- 5 cause, testified as follows:
- 6 HEARING OFFICER: Thank you. Mr. Christian,
- 7 you may proceed.
 - DIRECT EXAMINATION
- 9 QUESTIONS BY MR. CHRISTIAN:
- Q. Thank you. I apologize in advance for
- 11 having to yell at both of you at close range for the
- benefit of the Zoom audio. Mr. Brown, can you state
- your name for the record?
- A. Richard Wesley Brown.
 - Q. And you are a partner of Weiser-Brown Oil
- 16 Company. Is that right?
 - A. Yes, I am.
 - Q. And is Weiser-Brown Oil Company the sole
- 19 member of the applicant, Snake River Oil and Gas, LLC?
 - A. Yes, we are.
- Q. Can you give me a brief summary of your
- 22 educational and professional background?
- A. I was educated at the University of Texas in Austin. I was a patrolling landman, and I've been
- Austin. I was a patrolling landman, and I've practicing as a landman for 40-plus years.

Page 11

Page 13

- 1 Are there other uncommitted owners within this unit who
- 2 would like to make an opening statement at this time?
- 3 Hearing none, I'm looking the around in the audience,
- 4 and I don't know. Ms. Bonnie, is there a representative
- 5 from the City of Fruitland here.
- 6 MS. McLAIN: Mr. Administrator, this is
- 7 Cherese McLain. I am with Ms. Bonnie's law firm. For
- 8 the record, to spell for the transcript, it's
- 9 C-h-e-r-e-s-e, M-c-l-a-i-n. And I don't have any
- 10 opening remarks, but thank you. I just wanted to
- 11 introduce myself.
- HEARING OFFICER: Thank you Ms. McLain for
- 13 coming today. I appreciate that. Idaho Department of
- 14 Lands or your representative, do you have any opening
- 15 statement at this time?
- MS. VEGA: Good morning. Joy Vega on behalf of the Idaho Department of Lands. We do not have an
- 18 opening statement for you this morning. Thank you.
- 19 HEARING OFFICER: Thank you, Ms. Vega. With
- 20 opening statements completed, Mr. Christian, will you
- 21 please identify yourself again and -- pardon me, you
- 22 don't have to identify yourself again, but will you
- 23 please call your first witness.
- MR. CHRISTIAN: Thank you,
- 25 Mr. Administrator. We will call Richard Brown.

- 1 Q. And in the course of your professional
- 2 experience as a landman, have you had experience in
- 3 negotiating things like leases and surface use
- 4 agreements with mineral owners?
 - A. Yes.
- 6 Q. Across how many states would you say you
- 7 have experience in?
- 8 A. Seven or eight that I practice regularly in.
- **9** Q. Including Idaho?
 - A. Including Idaho.
- Q. Are you responsible for managing the
- 12 day-to-day operations of Snake River, including its
- 13 leasing and permitting efforts?
 - A. Yes, I am.
 - Q. Are you familiar with the integration
- application that was filed in this matter?
 - A. Yes, I am.
- Q. I would direct your attention to Exhibit
- 19 SR1A, which should be tabbed in that binder. Is that
- 20 the application letter for the integration application
- 21 this matter?
 - A. Yes, it is.
- Q. And just for clarity, the legal description
- on the first page of the application letter, do you see
- **25** that?

Page 16

Page 14

- 1 A. Yes, I do.
- Q. Do you recall there was a spacing unit
- 3 proceeding we previously had where we established a
- 4 spacing unit over this area?
- 5 A. Yes.

8

- 6 Q. And that's the 300-acre area that's
- 7 described here on the first page Exhibit SR1A?
 - A. Yes, it is.
- 9 Q. I want you to look at Exhibit SR1B.
- A. Got it.
- Q. This is a copy of the plat was originally
- submitted with the application. You'll see that it
- covers more than 300 acres. Right?
- 14 A. Correct.
- Q. We somehow managed to submit a plat that has
- a strip across the bottom which is not actually included
- in the spacing unit. Correct?
- 18 A. Right.
- Q. If you look at Exhibit SR3.
- A. Is that tabbed?
- Q. It's tabbed as No. 3. Just 3.
- A. Okay. Got it.
- O. Do you recall, shortly after we filed the
- 24 application, that Mr. Thum of IDL asked some clarifying
- 25 questions, to which we responded?

- Q. Will you turn to Exhibit SR1D for me? You
- 2 should just see a 1D. I left the SR off the tabs.
 - A. D as in David?
- Q. Yes.

3

9

13

21

23

25

5

8

12

- 5 A. Got it.
- 6 Q. Is that a copy of the form of joint
- 7 operating agreement that was submitted with the
- 8 integration application?
 - A. Yes, it is.
- Q. Now, is the form that was submitted similar
- to the form that is used as between Snake River and its
- working interest partners?
 - A. Yes, it is.
- Q. Explain generally what your working interest partners are.
- A. Basically investors, partners, money-paying participants in wells and operations.
- Q. So they contribute to the expense of
- 19 drilling wells and bringing them to production, and then
- 20 they share in the revenue --
 - A. Correct.
- Q. -- on the same basis. And the joint
 - operating agreement is the contract that sets the terms
- of that participation?
 - A. Yes.

Page 15 Page 17

- Q. Exhibit SR3 is a copy of that responsive
- 3 letter?

1

5

- 4 A. Yes.
 - Q. Okay. If you look at the second page of
- 6 that exhibit, there is another plat, which is now -- has
- 7 the uncommitted tracts identified by number.
- 8 A. Um-hum.
- 9 Q. And do you recall how we keyed those to the
- 10 resume of efforts?
- 11 A. Yes.
- Q. Right. Okay. And then if you would look at
- Exhibit SR -- well, as a backup question, this one, the
- 14 plat submitted in Exhibit SR3 still has the additional
- 15 acreage included in it?
- 16 A. Correct.
- Q. Yeah. If you go to Exhibit SR5, which is
- 18 near the end. That -- there you go. You've got it in
- 19 front of you. Does that correctly illustrate the actual
- 20 300-acre boundary of the existing spacing unit?
- A. Yes, it does.
- Q. It shows there are a few of the tracts that
- are listed as uncommitted, which actually fall outside
- 24 the established spacing unit?
 - A. Correct.

- Q. So it would govern the payment of expenses and allocation of revenue between all of those
- 3 participating in a well?
 - A. Correct.
 - O. In this instance, the form, would the form
- 6 be relevant if an integrated owner, as one of their
- 7 options, elected to participate in a well?
 - A. Yes.
- 9 Q. And they could -- according to state law,
- they could elect to participate on a consenting basis or
- 11 a non-consenting basis?
 - A. Correct.
- Q. Has -- I think we asked this question in a
- 14 previous proceeding. Across all the integrations that
- either the prior operator or Snake River has
- accomplished so far, I think one lessor has elected to
- 17 participate?
- A. It was actually a working interest owner.
- 19 It was a party by the name of Trenwell who took a lease, elected to participate in a well that was never drilled,
- and their lease expired.
- Q. Everybody else has either elected to lease or been deemed leased?
- A. Correct.
 - Q. To your knowledge, has anybody actually

25

Page 20

Page 18

- 1 elected to lease, or have the integrated parties all
- 2 simply been deemed leased by failing to take any action?
 - A. It's my understanding that they've been
- 4 deemed leased. That's my recollection.
- 5 Q. The form of joint operating agreement that's
- 6 in Exhibit SR1D is a 1989 version of Form 610 from the
- 7 American Association of Professional Landmen. Are you
- 8 familiar with that organization?
- 9 A. Yes, I am.
- O. Are you familiar with that form?
- 11 A. I am.

3

- Q. Is it something -- a form that has been --
- that you've used or been a party to in your prior
- experience in the oil and gas industry?
- A. My entire 40-plus year career, it's been in use.
- Q. In your experience, is it used by most of the participants in the industry?
- 19 A. Yes.
- Q. Does Weiser-Brown use the form, some version
- of the Form 610 in its operation in other states with
- 22 its working interest partners?
- 23 A. Yes.
- Q. Is that true whether it's an operator or it
- 25 has a non-operating interest?

- 1 earlier integrations that have been undertaken in this
- 2 area?

7

- 3 A. Yes.
- 4 Q. Is there anything about this unit in
- 5 particular which would lead you to conclude that using
- Form 610 here would not be appropriate?
 - A. No.
- 8 Q. And explain to me the reason why you are
- 9 proposing this form in particular that's similar to the
- 10 form you used with your working interest partners.
- A. This form would put a participant, if an
- owner chose to participate, they'd be on the same footing as the working interest owners.
- Q. And that's true with one exception. Right?

 The risk penalty between you and your working interest
- partners is how much?
- A. 500 percent with our partners, and in this
- 18 JOA, 300 percent, which is actually advantageous if a
- 19 mineral owner decides to participate.
- Q. And that's a function of, there's a cap in the statute. Right?
- A. There's a statute, Idaho statute.
 - Q. Okay. Are the -- let's see. Would you turn
- to Exhibit SR6, please? Should be at the very end.
- 25 I'll keep flipping. I'll tell you my assistant managed

Page 19

23

8

10

17

20

25

Page 21

- 1 A. Yes, it is.
 - Q. Without, you know, putting you to a fine
- 3 number, do you have a rough guess about how many
- 4 wells --

2

9

12

- 5 MR. GOZZA: Can the participant named Shelly
- 6 please mute their microphone. Thank you.
- 7 MR. CHRISTIAN: Am I ready to proceed,
- 8 Mr. Administrator?
 - HEARING OFFICER: Go ahead, thank you.
- MR. CHRISTIAN: Thank you.
- 11 BY MR. CHRISTIAN:
 - Q. Rough guess, Mr. Brown, about how many wells
- that Weiser-Brown has been involved in over your years
- of experience that have utilized that Form 610 joint
- 15 operating agreement?
- A. Probably in excess of a thousand.
- Q. Weiser-Brown Oil Company is based in
- **18** Arkansas. Is that right?
- 19 A. Correct.
 - Q. And what's your understanding of how
- Form 610 is used in integrations in Arkansas?
- A. The form is adopted by the Arkansas Oil and
- 23 Gas Commission in all integrations.
- Q. Okay. Was essentially the same form as
- 25 SR1D, other than the operator name change, used in the

- to print some things in landscape, but if you keep
- 2 going, it's in portrait.
- 3 A. Okay.
- 4 Q. I'll represent to you that is -- going back
- 5 to the clarification letter that we sent to Mr. Thum, do
- 6 you recall that there were some typographical errors in
- 7 the lease that we constructed?
 - A. Correct.
- 9 O. So we sent him a corrected form of lease?
 - A. Correct.
- O. I'll represent to you that this is just
- separately a copy of that lease. It's also in the
- exhibit which is the clarification letter to Mr. Thum.
- 14 Is the form of lease that is proposed similar to leases
- used elsewhere in the area in Idaho?
- 16 A. Yes.
 - Q. The bonus is how much?
- A. A hundred and acre.
- Q. And the royalty is how much?
 - A. 1/8.
- Q. And the proposed terms of lease in renewal
- option are how much?
- A. Three-year term, primary term with a
- 24 three-year renewal option.
 - Q. And while some leases are different,

Page 24

Page 25

Page 22

- generally speaking, what are the terms of lease across
- the basin here in Southwest Idaho, that you're aware of? 2
- A. Predominantly five years with a three-year 3 4 option.
- Q. But generally, also a hundred dollars and an 5 1/8 royalty? 6
- 7 A. Yes.
- Q. Are you aware of any leases, voluntary 8 leases in this spacing unit at issue that were paid 9 above a hundred dollar bonus? 10
- 11 A. No, I am not.
- Q. Are you aware of any leases in this spacing 12 unit which include a royalty of greater than 1/8? 13
- A. I am not. 14
- Q. We had this conversation in a previous 15
- hearing. The form of lease recites -- it doesn't recite 16
- the exact amount of consideration paid in terms of the 17
- bonus. It says \$10 and all other sufficient 18
- consideration. Do you see that at the top of it, Or in 19
- consideration of \$10, et cetera, et cetera. 20
- Is that language normal in leases that are 21 recorded? 22
- A. Yes, it is. 23
- Q. It doesn't actually reflect that only \$10 24
- 25 was paid as consideration for the lease. Right?

- 1 O. Is it similar to the form of lease -- to
- other forms of lease in this spacing unit? 2
 - A. Yes, it is.
- 4 Q. And in fact, an order was issued in a prior integration for the Fallon 111 unit, which approved this 5
- form of lease with a couple of modifications recently. 6
- 7 Right?

3

8

14

23

- A. Correct.
- Q. You were asked in an earlier hearing if the 9 lease provides for the operator to pay an owner for 10 claimed diminution in the value of their property simply 11 because of the presence of an oil and gas well. What's 12
- your answer to that question? 13
 - A. That the lease does not provide for that.
- Q. Have you ever seen a lease in all of your 15 years of experience in the industry where a lessee 16
- commits to pay the owner for a change in their property 17 18 value?
- A. I have not. 19
- Q. Have you participated in integration and 20 pooling proceedings in other states? 21
- A. Yes, I have. 22
 - O. Have you ever seen an obligation to
- compensate a lessor for change in their property value 24
- imposed as part of an integration or pooling order? 25

Page 23

A. No, I have not. 1

- Q. There are, however, places in this lease 2
- which provide protection to the lessor in the form of 3
- promises by the operator to pay for certain damages. 4
- Right? 5

12

15

- 6 A. Correct.
- Q. So if we look, for example, at the, what's 7
- called Exhibit B to the lease -- I'm sorry, yes, 8
- 9 Exhibit B, which is some special terms and conditions,
- does paragraph 1 of that provide for the lessor to pay 10
- for certain damages? 11
 - A. Correct.
- Q. To things like crops, livestock, fences, and 13 other improvements. Is that right? 14
 - A. Correct.
- Q. And as an aside, the lease provides for no 16 drilling operations on the surfaces of the leased 17 premises where a tract is under 5 acres. Right? 18
- 19
- Q. And that's a function of reality that you 20 couldn't, because of setbacks, you likely couldn't put a 21
- location on a tract that small? 22
 - A. Correct.
- Q. Also, if you look at paragraph 9 of that 24 25
 - Exhibit B, to the proposed form of lease, it provides

- A. Correct. 1
- Q. And as a broader matter, is it common for 2
- deeds in lots of real estate transactions not to spell 3
- out the exact consideration that's paid for the 4
- property? 5
- 6 A. Correct.
- Q. Like for your house, for example. The deed 7
- to your house doesn't say how much money you paid? 8
- 9 A. Good example.
- Q. And in fact here, for integration mineral 10
- interest owners, the amount of the bonus is going to be
- stated -- assuming an integration order is entered, it 12
- 13 will be stated in the order. Right?
- A. Correct. 14

17

22

- Q. Are versions of this form of lease widely 15
- used in Weiser-Brown's operations in other states? 16
 - A. Yes, it is.
- Q. Have you encountered it outside of 18
- Weiser-Brown's operations? You know, working as a 19
- landman, have you encountered versions of this form of 20
- lease elsewhere? 21
 - A. In every state that I've worked in, yes.
- 23 Q. So would you say that that form of lease is
- consistent with industry standards across the country? 24 25
 - A. Yes, it is.

Page 28

Page 26

- for the lessee to indemnify and hold the lessor harmless
- from various things. Do you see that? 2
 - A. I do.

3

- 4 Q. In an earlier hearing, you were asked if
- that indemnification clause was a limitation on Snake 5
- River's liability. Do you agree with that? In other 6
- 7 words, the suggestion was that, while you're here
- promising the lessee that you're going to pay them and 8
- hold them harmless against things, you know, caused by 9
- the operator's negligence and wrongful acts, the 10
- 11 question was, doesn't that limit your liability? Do you
- agree with that characterization? 12
- A. No. I don't. 13
- Q. I mean, have you ever seen a lease or an 14
- integration order which provided for a lessee to 15
- compensate an owner for things that occurred through no 16
- fault of the lessee? 17
- 18 A. I have not, no.
- Q. Is -- are the clauses that are included in 19
- Exhibit B to the lease, are they similar to leases, 20
- other leases in Idaho and in other areas, in your 21
- experience? 22

23

- A. Yes, they are. And yes, it is.
- Q. Have you had any issues with any lessor to 24
- 25 date in Idaho where you have had to pay damages under

- 1 A. Yes, I do.
 - Q. And explain why that is.
 - A. Just due to the unforeseen. The well could
- 4 produce for a period of time and water out, become
- uneconomical and necessitate its -- an additional well. 5
- We don't have a crystal ball. We can't predict what's 6
- 7 going to happen in the future.
 - Q. Is the drill site for the existing well
- leased? 9

2

3

8

13

15

23

2

5

7

15

17

20

- A. Yes, it is. 10
- 11 Q. And the owner used to be Fallon Enterprises.
- 12 Correct?
 - A. Correct.
- Q. And that property has recently changed 14
 - hands?
- A. Yes. 16
- Q. But the sale was subject to the existing 17
- lease? 18
- A. It was. 19
- 20 Q. You also have a surface use agreement for
- the surface location on the property? 21
- A. Yes, we do. 22
 - O. Okay. Has the Fallon 110 well that exists,
- has it ever been produced? 24
- 25 A. No.

Page 27

Page 29

- either of those paragraphs of the proposed form of 1 lease? 2

8

17

- A. We have paid, for instance, example, we pay 3
- for crop damages if a field -- if a portion of a tract 4
- has to be out of, like, producing hay or something of 5
- that nature. We would pay for the hay. Does that 6
- 7 answer your question?
 - Q. Yes. Does this lease affect the right of
- 9 owners who chose not to participate in the well from exercising any private of right of action they might 10
- have against the operator for future harm? 11
- 12 A. No, it does not.
- 13 Q. One thing that is still left in this, I
- believe, is it calls out a \$50 per acre bonus for 14
- exercise of the option. But in fact, your land team 15
- sent an offer letter saying a hundred dollars an acre? 16
 - A. And we'll stand on the hundred dollar.
- Q. In the previous integration matter it was 18 adjusted -- under the order it was adjusted to \$100 for 19
- the option. Right? 20
- A. And likewise here. 21
 - Q. Do you think that it's -- in this setting,
- 23 there's a well that's already been drilled that you hope
- to produce. Is it your view that an option remains 24
- still reasonable and necessary? 25

- Q. And it was drilled by a previous operator? 1
 - A. Yes. It was by -- it was tested.
- Q. For perhaps 24 hours? 3
- A. I think less. 4
 - Q. And that would have been as part of
- 6 completing the well?
 - A. Correct.
- Q. And Snake River and its working interest 8
- 9 partners acquired the interest of the prior operator out
- of its bankruptcy earlier this year? 10
- A. Part of the interest prior to bankruptcy, 11
- 12 and the rest after bankruptcy.
- Q. Yes. Correct. Sorry. Was there -- so at 13
- the time you were -- at the time the well was drilled, 14
 - was Snake River a working interest partner to the
- operator? 16
 - A. Yes.
- O. At the time the well was drilled, was there 18
- an integration order in effect over the area? 19
 - A. Yes, there was.
- Q. In your operations in other states -- let me 21
- back up. What's Snake River's experience been, both as 22
- 23 a working interest partner and as an operator, in
- drilling wells in Idaho? Have all of the wells drilled 24
- been vertical, or have many of them been directional? 25

Page 32

1 A. Many have been directional.

Q. Is that a consequence of surface limitations 2 you face? 3

- 4 A. Combination of -- combination of things.
- Q. Okay. In other states where Weiser-Brown 5
- operates, do you, as operator or working interest 6
- 7 partner, participate in wells that are drilled
- horizontally or directionally? 8
- A. Yes. 9

10

11

23

7

8

12

13

18

- Q. And are some of those wells drilled in units which have been pooled or integrated?
- 12 A. Yes.
- O. And in those cases, have wells been drilled 13 under tracts which are pooled or integrated? 14
- 15
- Q. In any of those cases, are you aware of any 16 special compensation or consideration that is given to 17 the owner of an inner integrated tract under which a 18 well passes? 19
- 20 A. I'm not aware of that, no.
- Q. Has Snake River recouped any of its 21 investment in this well? 22
 - A. No, we have not.
- Q. Either as a function of the money it 24
- 25 invested when the well was drilled or as a function of

- to drill elsewhere?
 - A. Absolutely.
- Q. You were asked in an earlier hearing whether
- 4 the rates set forth in the form of joint operating
- agreement was for supervising operations, I think, was a 5
- reasonable rate, based on your experience. Do you 6
- 7 recall that question?
 - A. I do.
- Q. So is it your experience that the rate 9 that's set forth in the joint operating agreement is 10
- within the normal range? 11
 - A. Absolutely.
- Q. And that's true of integration -- either 13 integrations or wells in Idaho or elsewhere? 14
 - A. Yes.
- Q. I don't believe I have any other questions 16 for you. 17

HEARING OFFICER: Thank you, Mr. Christian. 18 Mr. Piotrowski, you may ask questions of the witness at 19 this time. 20

CROSS-EXAMINATION

OUESTIONS BY MR. PIOTROWSKI: 22

O. Mr. Brown, could you explain to me how 23 exactly the risk penalty process works here? When you say, you know, you're imposing a 300 percent risk 25

Page 31

Page 30

2

3

8

12

15

21

24

Page 33

- the purchase of the other interest in the well since 1 then? 2
- A. No, we have not. 3
- Q. What would be the effect of disallowing the 4 use of the existing well to produce the reservoir in the 5 spacing unit? 6
 - A. It would -- it would basically, our dollars spent to date would condemn those.
- 9 Q. You wouldn't be able to produce the reservoir? 10
- A. That's correct. 11
 - Q. Or at least you would be required to spend a significant amount of money to drill another well?
- 14
- Q. And that would impact not just your 15 interest, but the interest of mineral interest owners 16 who have leased to you? 17
 - A. Correct.
- Q. If -- and I'll talk to Dave Smith more about 19 this, but do you understand that if you were to drill 20 elsewhere in the unit, to a different place, would you 21
- be able to produce that reservoir as effectively? 22
- 23 A. No.
- Q. Do you think there would be some of the 24 resource which would ultimately be stranded if you had

- penalty, what does that actually mean? 1
- A. So it applies to the risk, the dollars, the 2
- spent dollars. So for instance, if the well cost 3
- \$3 million to -- you would recoup three times that plus 4 expenses, before that person would, quote, come back in. 5
- 6 Q. And when you talk about the amount paid in, what gets included in those costs that would need to be, 7
- you know, recouped at 300 percent before payouts are 8 9 made?
- A. Operations cost, operation cost, if 10
- you're -- your question was about expenses? 11
- Q. Yeah. I'm wondering, you know, you just 12 testified that the amounts that are put in by the 13
- operator, you know, then have to be recouped at 14
- 300 percent before the other working interest owners 15 begin to get paid. Do I understand that correctly? 16
 - A. Correct.
- Q. Okay. So you know, there are lots of 18
- various expenses a company may have. So let me limit it 19
- to this case. What are the expenses that would go in 20 that have to be recouped at 300 percent before the 21
- working interest owners would begin to see recovery? 22
- 23 A. Well, the first, the cost of the well.
- That's the big one. And then the ongoing expenses are, 24 25
 - for instance, a pumper. Pumper goes out to a well on a

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

2

3

4

6

7

17

18

19

20

21

22

23

24

Page 36

Page 34

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

3

12

13

14

15

16

17

18

19

- daily basis. We pay pumpers on a monthly basis.
- There's various accounting, accounting charges. But 2
- those -- there's a rate in the JOA that's charged. The 3
- 4 ongoing expenses are minimal compared to the cost of the
- well, is by far 95-percent-plus of the cost to recoup. 5
 - Q. Okay. Who actually paid for the cost of the well in the case of the Fallon 110?
 - A. The partners at the time, of which me and my company, we had approximately 25 percent. Some other partners, and the company that was the operator, Alta Mesa, they were AM Idaho, Alta Mesa. They had different entity names, but they were the operator.
 - O. And what percentage of those expenses were covered by the operator?
 - A. Alta Mesa at the time had approximately about 65 percent, about 65 percent.
 - Q. Okay. And when you purchased Alta Mesa's interest as part of the bankruptcy liquidation, did you pay full value? Did you pay everything that Alta Mesa spent on at that well?
 - A. We bought half of the interest prebankruptcy, in December -- was effective December 1st of 2020. So we bought half the interest, approximately. 35 percent of the interest, and -- at the first sale, and then approximately 30 percent in the bankruptcy

- initial drilling. The prior acquires of Alta Mesa's
 - remaining interest, they are not dollar for dollar. 2
 - Q. And so if a risk penalty of, let's just say 3 4 100 percent was assessed, that would actually exceed what you and your other partners have spent to acquire 5
 - this interest, wouldn't it? 6 7 A. Not myself. It would not. It would not myself and my company, Snake River.
 - Q. And your partners, though, they would be at 100 percent. Even at 100 percent, they would be receiving more than they have spent to acquire this interest. Right?
 - A. I'd have to -- I'd have to --
 - Q. Are you able to answer that question?
 - A. I'd have to look back at the agreement, how they allocated the cost of the wells.
 - Q. Now, in my experience, when assets are purchased as a result of a sale by a trustee in bankruptcy, the price paid for those assets tends to carry a discount. In other words, you can acquire those assets at something less. You often can acquire those assets at less than their current market value as measured by an arm's length transaction. Was that true in this case? Were the assets of Alta Mesa and its entities, in this well, the Fallon 110 units, were those

Page 35

Page 37

- sale. So -- go ahead. 1
 - Q. So is -- as you sit here today, does your company, the Snake River Oil and Gas's cost, actually equate to the total amount that was spent to drill this
- well, to create this well? 5
 - A. When you talk about, actually Snake River is my company, and we -- we had -- already had a quarter.
- We did not buy, and so Snake River did not buy any more 8
- 9 because we already had such a significant investment in 10 this well, our partner group bought both the first
- purchase and second purchase. So myself and my partner, 11
- 12 we did not increase our interest because we had such a 13 large investment already in the project.
- 14 Q. The question now is, of the people who have
- an interest in this, did they pay the actual expenses in 15 when they bought out Alta Mesa's interest? 16
 - A. It wasn't dollar for dollar.
 - O. Okay. So the investment that the current operator and the current working interest owners, the cost they have into this are not equivalent to the actual cost of everything that has been put into the well to date. Right?
 - A. The cost of the operator, which is me and my partner, Snake River, we are actual dollar for dollar because we were in the well initially and paid the

- purchased at a discount compared to what Alta Mesa and its entities had spent to develop it?
 - A. Yes.
- Q. Okay. And so when we talk about the risk 4
 - penalty of this case, is the -- the risk penalty is,
- you've explained is 300 percent times the expenses in.
- And so when we talk about the expenses in, are we going
- to be using the amount that was spent by Alta Mesa, or 8
- 9 are we going to be using the amount that was spent by 10
- the people who acquired Alta Mesa's assets in this tract? 11
 - A. I can't answer that. But I can say that the people that didn't acquire that interest, like me, we would be harmed if it was smaller than 300 percent. I took all the risk.
 - Q. You took a portion of the risk. Right? You didn't take all the risk.
 - A. Yes, yes. As to my interest, yes.
 - Q. And so those who bought Alta Mesa's
- interest, they would be receiving a windfall, wouldn't 20
- they? They would have spent some amount of money, but 21
- the risk penalty would reward them for a greater amount 22 23 of money spent. Isn't that right?
- A. I would disagree. I would say that they 24 25

took a huge risk acquiring this interest.

Page 40

Page 38

2

9

15

25

2

5

8

18

- 1 Q. Right. But their risk, if we measured the
- risk in dollars, it is measured in what they spent to 2
- acquire Alta Mesa's interest. Right? 3
- 4 A. They took a lot of risk. Q. And that risk is measured by what they spent 5
- to acquire Alta Mesa's interest. Right? All of that 6
- 7 money is at risk. Right?
 - A. Yes.

8

11

- Q. And no more than that money is at risk 9 unless they choose to invest more. Right? 10
 - A. I'm sorry. Ask the question again.
- Q. Sure. For the folks who bought -- for the 12
- entities that bought Alta Mesa's interest, they chose to 13
- invest whatever it is they spent to acquire those 14
- interests at the bankruptcy sale. And in doing so, they 15
- also agreed to step into the role as a working interest 16
- owner. Is that right? 17
- A. Correct. 18
- Q. I'm sorry. I didn't hear you. 19
- 20 A. Correct.
- Q. Okay. And so the risk they carry right now 21
- is the -- the risk of future expenses, which is shared 22
- among all of the working interest owners based on their 23
- percent. Right? 24
- 25 A. Say the last part again.

- now own that interest?
 - A. Correct.
- Q. Okay. And if -- and if Alta Mesa and its 3
- 4 entities had spent \$200 to develop that interest, but
- the acquiring parties only spent a hundred dollars at 5
- the bankruptcy sale, they are not in the future going to 6
- 7 have to somehow supplement their hundred dollar payment
- to match what Alta Mesa spent, are they? 8
 - A. No.
- Q. Nobody can go back and say, Okay, you bought 10 this interest for whatever you bought it for, from the 11
- bankruptcy trustee, nobody can go back and say, Oh, and 12
- now we want another payment because we think you paid 13
- too little. That doesn't happen, does it? 14
 - A. Correct.
- Q. I'm sorry, I didn't hear that? 16
- A. Correct. 17
- O. Okay. So the affidavit that was -- the 18
- affidavits that were submitted with the application for 19
- integration in this case talk about the 300 percent risk 20
- penalty assessment here being reasonable because of 21
- supposedly this is a wildcat development. In fact, this 22 well is known to be capable of producing, isn't it? 23
- A. Yes. 24
 - Q. It's been tested, I think you testified.

Page 39

Page 41

- Q. The risk that a working interest owner -- a 1 working interest owner or an investor, any of the 2
- companies that have acquired rights in this unit, they 3
- have an ongoing risk in that there are continuing 4
- operating expenses. Right? 5
- 6 A. Correct.
- Q. And they've agreed to cover their share of 7
- those continuing operating expenses? 8
- 9 A. Correct.
- O. Is that correct? 10
- A. Yes. 11

15

16

17

- Q. And they also have at risk the amount they 12
- spent to initially acquire those positions. Right? 13
- A. Correct. 14
 - Q. But as to the amount spent to initially acquire those positions, that part of the risk doesn't change unless they voluntarily change it by trying to acquire a greater interest. Right?
- A. I'm not sure I follow you. 19
- Q. Yeah. That's fair. It wasn't a great 20
- question. If somebody spent a hundred dollars -- let's 21 just use a nice easy number -- a hundred dollars to buy 22
- 23 out Alta Mesa's interest in the Fallon 110 unit, that
- particular cost, the money spent to buy out that
- interest, that's never going to change. Right? They

- Right? 1
 - A. Correct.
- Q. And indeed, as we sit here today, it's not a 3
- wildcat well, this particular one, is it? 4
 - A. It is a drilled well.
- 6 Q. And I believe we know it's not a dry hole.
- Right? 7
 - A. Correct.
- 9 Q. And what is your experience, what's the risk assessment usually assessed in an area where there is
- 10 zero risk of a dry hole? 11
- A. The risk on this well currently is based on 12
- the reserves, how long will the production last. 13
- Q. And have you been involved in cases where it 14 was well-known that the well, even before you drilled 15
- it, it was well-known that the well was going to 16 produce? Have you worked in that situation before? 17
 - A. Yes.
- Q. And in that situation, what is a typical 19
- risk penalty for operating interest owners? 20 21
 - A. It varies. It varies.
- Q. And it varies between what range? What's 22
- 23 the high and the low, in your experience?
- A. My recollection is -- I can't recall, but I 24
- have seen 300 percent risk factor penalties where a 25

Page 44

Page 42

6

7

8

9

10

11

12

13

14

16

17

18

19

20

21

- 1 well's been drilled.
- Q. Have you seen less than 300 percent risk penalties?
- 4 A. Possibly.

8

9

10

11

23

24

25

13

17

18

19

20

25

- 5 Q. Now, in -- when Weiser-Brown obtains a
- 6 mineral rights lease here in Southwest Idaho, does it7 record those leases with the county?
 - A. Some leases are recorded, and in some cases a memorandum of lease is recorded.
 - Q. Okay. But everything gets recorded by one of those two methods. Is that right?
- 12 A. Typically.
- Q. And in this particular case, have all of the leases of either Weiser-Brown or Snake River Oil and Gas, have all of those leases been recorded as either a lease or memorandum of lease?
- A. I would have to defer to the landman who is going to be up here testifying in a minute, Mr. Moore.

 But typically, yes, I would say yes, but I'll defer to him.
- Q. And would the absence of a publicly-recorded lease indicate to you that no lease exists?
 - MR. CHRISTIAN: I'm going to object. Calls for speculation.
 - HEARING OFFICER: I'll sustain that

- Q. Does the lease say anything about other operations, such as collection and transfer operations on tracts less than 5 acres?
- A. Let me get the lease out. Says: Will not engage in drilling.
 - Drilling operations. And your question was?
 - Q. What about other types of operations that might be necessary? Those other types of operations could occur on tracts smaller than 5 acres, couldn't they, per the lease?
 - A. They could per the lease. Logistically, placing equipment on a tract under 5 acres would be highly unlikely.
 - Q. Highly unlikely, but not impossible. Right?
- A. Not impossible.
 - Q. Now, when you were testifying before, you explained that there might be a need to -- for an option to extend the lease terms here, and one of the possible reasons you pointed out for that was if it became necessary to drill an additional well. Do you recall that?
- 22 A. I do.
- Q. And so it is possible that in this Fallon 110 unit, you might need to drill additional
- Fallon 110 unit, you might need to drill additional
- wells in the future. Right?

Page 43

Page 45

- objection. Could you clarify the question or move on tosomething different, Mr. Piotrowski?
- 3 MR. PIOTROWSKI: Thank you.
- 4 BY MR. PIOTROWSKI:
- Q. So, Mr. Brown, in your experience as a landman, did you rely on public property records to inform you as to where to go or who to seek out to try to secure leases?
- 9 A. Yes.
- Q. Okay. And have you ever done that work, trying to secure leases here in Southwest Idaho, in Payette County, in particular?
 - A. I'm sorry. Ask that again.
- Q. Have you ever done the work of trying to secure mineral leases in Payette County?
- 16 A. Yes.
 - Q. And in doing so, would you rely on the public property records to tell you who owns the properties and which properties were also leased?
 - A. Yes.
- Q. Okay. All right. In your testimony with Mr. Christian, you testified that the current lease and operating agreement provides there will be no drilling operations on tracts less than 5 acres. Right?
 - A. Correct.

- 1 A. Yes
- Q. What circumstances might lead you to need to drill an additional well in this unit?
- A. Say for instance this well only produces for
- 90 days, and becomes uneconomic, and through additionalinformation and knowledge we determine that an
- 7 additional well might either be economic in this
- 8 reservoir or precipitate -- we get acknowledge we would
- **9** drill for another target.
- Q. So it could be possible that you'd need to drill an additional well to reach the same, I think we're calling it Sand B, that is currently targeted by the Fallon well. Right?
 - A. Only -- in Idaho you could only do that if you -- you cannot have two wells in the same -- same reservoir. It would either have to be -- if it was the same sand, you said Sand B, if it was Sand B, you'd either have to prove that the reservoir was separated by a fault, or you couldn't have two wells in the same reservoir.
 - Q. Would that be true even if there were some sort of technical problem with the existing well, or if it was preventing it from producing everything it could in Sand B, you couldn't drill a second similar bore to solve those problems?

14

16

17

18

19

20

21

22

23

24

Page 48

Page 49

Page 46

- 1 A. Yes, you could. If the first well was deemed -- you couldn't produce both. So you'd have to 2
- abandon one. 3

7

15

21

1

2

3

4

5

6

7

11

12

13

14

15

- Q. Right. Okay. So theoretically, you could 4 end up having to drill another well from the same 5 Sand B? 6
 - A. Theoretically, yes.
- Q. And also theoretically, as we've seen 8 elsewhere nearby, the experience you've had in this unit 9 could lead you to discover additional reservoirs that 10 might be worth pursuing? 11
- A. Theoretically. 12
- O. Now, you have -- do you have the Department 13 of Lands exhibits in front of you? 14
 - A. Department of Lands exhibits? I do not.
- Q. Okay. Let me -- there's a couple ways we 16 can do this. 17

HEARING OFFICER: Chris, could you --18 Mr. Piotrowski, hold on just a moment. 19 20

MR. PIOTROWSKI: I think I can do, if we can get that map --

HEARING OFFICER: Mr. Piotrowski, the 22 Department of Lands staff is coming up to give this to 23 Mr. Brown. Stand by. Mr. Piotrowski, what page are you 24 25 referring to?

1 Q. Okay. Then it looks like, according to the

> Department of Lands' map, that the well bore then 2

crosses under property owned by 1, 2, 3 different 3

- 4 owners, the Hicks Family Trust, the Anadarko Land, and
- the City of Fruitland. Do you see that? 5
 - A. Yes, I do.

6

10

11

12

13

15

16

17

24

25

11

12

15

- 7 Q. Does the operator or Weiser-Brown have any contracts or agreements with any of those entities to 8 utilize their property? 9
 - A. Not at this current time.
 - Q. You may not be the right witness, but if you look at that map, down towards the bottom, in that small part of the northwest corner of Section 15 that is included here, there is, oh, about pretty close to the middle of that section, and just above the purple line, do you see a small cul-de-sac that's on the map there?
 - A. Are you talking about the subdivision?
- O. Yeah. Within the subdivision there's a 18 small cul-de-sac next to Highway 95. Do you see that? 19 HEARING OFFICER: Mr. Piotrowski, for

20 clarification, I think there's four red boxes on one 21 side and three on the other, and it's right up against 22 23 the --

MR. PIOTROWSKI: Yes. That's what I'm asking about.

Page 47

MR. PIOTROWSKI: I'm referring to, it's marked as page 3. It's the map showing unleased tracts, as well as the location of the Fallon 110. This is the

map that's that the surface location and bottom hole location marked. THE WITNESS: I want to make sure we're

apples and apples.

HEARING OFFICER: Mr. Piotrowski, it's up in 8 9 front of Mr. Brown now. Thank you.

BY MR. PIOTROWSKI: 10

- O. Mr. Brown, to your knowledge, subject, of course, to its limitations, is this map -- does this map accurately portray both the spacing unit and the location of the Fallon 110 well?
 - A. Yes. Very, very, very closely.
- Q. Okay. Now, the surface location is on 16 property that used to be owned by Fallon Enterprises, 17 and I think you testified that the operator has a 18 surface use lease, so you have a lease allowing you to 19 operate the well at that location. Right? 20 21
 - A. Yes.
- Q. And the well that crosses under the Payette 22 23 River, and is the -- are the mineral rights under the Payette River, have those been leased? 24 25

A. Yes.

HEARING OFFICER: Mr. Brown sees that. 1

Thank you. 2

BY MR. PIOTROWSKI: 3

Q. Mr. Brown, this map, I know wasn't prepared 4 by you or your company, but it was based on data 5 provided to the Department of Lands by your company. Do you know how it is or when it was that those properties 7 along that cul-de-sac came to be leased? 8 9

A. I'll defer to the landman who's up next, Mr. Moore.

10

- Q. So are you saying you don't know?
 - A. I don't.
- Q. Okay. In this case, the Fallon 110 is a 13 directional well. Correct? 14
 - A. Correct.
- Q. Is there a difference between a directional 16 well and a horizontal well? 17
- A. Yes. 18
- Q. What's the difference, in your 19 understanding? 20
- A. A directional well -- a horizontal well goes 21 truly horizontal, essentially horizontal, and a 22
- 23 directional well is at an inclination. This would be a
- directional -- this is a directional well. 24
 - Q. Is the process of drilling horizontally

Page 52

Page 50

- different than the process of drilling directionally?
- A. Essentially, no. It's a little more 2
- complicated to be horizontal, but the concept is the 3
- 4 same.
- Q. Is roughly the same equipment used to do 5
- both? 6
- 7 A. Horizontal wells are a little more complex.
- I'm not an engineer, so I really ought to defer to --8
- Mr. Smith, the geologist, can answer that question. 9
- Q. And to your knowledge, is there -- are there 10 any current plans for any well treatments on the 11
- Fallon 110? 12
- A. Currently no. 13
- Q. Could that happen in the future? 14
- A. Pure speculation. But yeah. We don't have 15
- any plans. We don't have any plans. 16
- Q. Okay. When we talk about well treatments, 17
- and specifically, when the proposed form of lease talks 18
- about well treatments, what is a well treatment? 19
- 20 A. I'll let Mr. Smith answer that question,
- but -- thanks, James -- treating the well, there's a lot 21
- of different forms and fashions, but I'll defer to 22
- Mr. Smith. 23
- Q. And is hydraulic fracturing considered a 24
- 25 well treatment?

- operations that occupy either the subsurface or
- subsurface estates of unconsenting owners, deemed leased 2
 - owners. Would you agree to that same term in this case?
 - A. Absolutely not.
- Q. At present, what's the value of the bond 5
- that any of the companies you're involved in hold that
- 7 would protect the property owners in the Fallon 110
- unit? 8

3

4

13

14

20

- A. I think all the bond rates are set by 9
- statute, and I'm going to have to defer. 10
- Q. Do you happen to know what the value of the 11 bond currently held is? 12
 - A. It's very large. I cannot tell you the exact amount.
- Q. I mean, very large is pretty relative here. 15
- I'm looking at something like 40 individual homesteads 16
- here, each of which is worth hundreds of thousands of 17
- dollars. Do you think the bond would be adequate to 18
- cover a complete loss of those properties? 19
 - MR. CHRISTIAN: Objection. Lack of
- foundation, calls for speculation. 21
- HEARING OFFICER: I'll sustain that 22
- Mr. Christian, thank you. Mr. Piotrowski, please 23
- rephrase your question to be consistent with the terms 24
- 25 of just and reasonable factors.

Page 51

Page 53

- A. Yes, it is. 1
- Q. Okay. 2
- A. And there have not been any hydraulic 3
- fracturing in the oil and gas operations in Idaho, and 4
- there are no plans for any. 5
- 6 Q. Okay. Would the operator then be willing to 7 agree to the term that no hydraulic fracture will ever
- occur on the Fallon 110? 8
- 9 A. You know what, I would will have to -- the
- word never -- I would agree to say that on this well. 10 O. Now, do all well treatments involve 11
- 12 injecting something into the well?
- 13 A. I'm sorry?
- Q. Do all well treatments involve injecting 14 other materials into the well? 15
- A. I don't believe so. 16
- Q. Is the operator prepared to agree or willing 17
- to agree that, as part of the terms, that no -- that the 18
- operator will not use either surface or subsurface 19
- 20 estates for drilling operations of undeemed -- or deemed
- leased parties? I'm sorry, that was a terrible 21
- question. Let me take another shot at that. In a 22
- 23 recent decision from a few days ago, the administer
- issued an order that said in another unit that the 24
 - operator would not be permitted to engage in any

- BY MR. PIOTROWSKI: 1
- Q. In the event of a catastrophic failure of 2
- the Fallon 110 well, is it possible that surrounding 3
- properties may lose most or all of their market value? 4
- MR. CHRISTIAN: Objection. Calls for 5
- 6 speculation. 7
 - HEARING OFFICER: I will sustain that.
- Mr. Piotrowski, I'll give you one more chance. 8
- 9 Otherwise move on to a different line of questioning.
- BY MR. PIOTROWSKI: 10
- O. Mr. Brown, you've testified about your 11
- extensive experience in oil and gas development. In 12
- that experience, have you seen situations where oil or 13
- gas wells ended up contaminating either the surface or 14
- the ground water of the areas drilled? 15 16
 - A. The ground water, I have not.
 - Q. Okay. Have you seen surface contamination?
- A. Minor cases, I have. 18
- Q. Okay. Are you aware of any situations in 19
- which there was ground water contamination as a result 20 of oil and gas operations? 21
 - A. Not personally.
- 23 Q. So you're not aware of that happening at
- all? 24

17

22

25

A. I'm not.

1

2

3 4

5

6

10

11

12

13

14

15

16

17

18

19

20

25

1

5

6

7

8

13

14

15

16

17

18

19

25

Page 56

Page 54

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

7

12

13

14

15

16

17

18

19

25

- Q. Okay. Do you have any idea what it is that the bonding maintained by your companies, what that is meant to cover? What are the losses that are bonded for?
- A. I'd be better off reading from the Code. I mean, it's -- bond for --
- 7 Q. Let me narrow my question a little bit. Do you happen to know what are the losses that are bonded 8 9 against?
 - A. I'd have to review them, but I mean, I'm familiar with why bonds are in place.
 - Q. So if I understand correctly, you're not sure what the value of the existing bonding is, and off the top of your head, you're not sure what losses it's meant to cover. Right?
 - A. Not exactly. I know what they protect against, and I can get the values within, you know, pretty quickly.
 - Q. What is it that they protect against?
 - A. Damage.

leaves an area.

- Q. Right. What types of damage? I mean, 21 damage can happen lots of ways. Do you happen to know 22 what types of damage they protect against? 23 24
 - A. Damage from operations. And I know one is to ensure they're properly plugged when the operator

1 Q. Okay. Thank you very much. I want to make sure I go down through here. I'm pulling up a few 2 questions. I think that's been addressed. Mr. Brown, I 3 4 know that this well is already drilled, but I would like to know what timeline you propose as far as developing 5 this unit. Is it going happen soon, within a year? Do 6 you have a timeline of when you start, I guess, whatever involved the operation to bring the well online, what's 8 your timeline for that? 9

A. So if an approved order was issued, there is what we call a riser adjacent to the well, and anybody who passes by it on the highway can see it. So we would connect to that riser, which, how many feet from the riser is it, Wade? A hundred, so operationally it would take probably 10 to 15 days to connect the well to the riser, and that riser is connected to the Harmon pipeline which goes to Little Willow, so we would probably be to sales within 10 to 15 days. Sound reasonable?

Q. Thank you, Mr. Brown. Bit of a piggyback. You discussed earlier that equipment on a tract under 5 acres is unlikely. However, the application also mentions gathering lines. I'm just asking, gathering lines and any other equipment, is any of that on the property -- pardon me, on uncommitted owners' property?

Page 55

Page 57

- Q. All right. Sir, thank you. No more 2
- questions. 3 4
 - HEARING OFFICER: Thank you, Mr. Piotrowski. Ms. McLain, do you have any questions for the witness at this time?
 - MS. McLAIN: Mr. Hearing Officer, no, I do not. Thank you.
- 9 HEARING OFFICER: Ms. Vega, do you have any questions? 10
- MS. VEGA: I also do not have any questions. 11 Thank you. 12
 - HEARING OFFICER: Thank you, Ms. Vega. I do have a few clarifying questions.

EXAMINATION

QUESTIONS BY THE HEARING OFFICER:

- Q. Earlier in your testimony you mentioned that vou acquired the first half of the interest in December of 2020?
- A. Correct. 20
- Q. Was it December of 2020 or December of 2019? 21
- A. 2019. 22
- 23 Q. 2019. I just wanted to clarify that. That
- first half was in December of 2019? 24
 - A. Christmas Eve. Christmas Eve. 2019.

- A. No. And in this case the riser is on the 1
- SUA, so we don't have any plans to get on anybody else's 2
- property other than the SUA that we've got with Wes 3
- Fallon, it's now a gentleman by the name of Larry James. 4
- O. So given that answer, can I can include a 5 condition in the integration that states as much? 6
 - A. As to that well, yes.
- Q. Thank you. Broader question. Do you think 8 9 it's appropriate for the integration order to deem mineral owners leased under every term and condition in 10 the lease? 11
 - A. Yes.
 - Q. Can you explain that, or expand on that?
 - A. I don't know how I would expand. You just mentioned, actually, that provision regarding, if -- ask your question again, make sure I'm not answering something else.
 - Q. Which one are we talking about, the surface use?
- 20 A. In other words, you just were talking about the 5-acre? 21
- Q. Right. We were talking about if there were 22 23 gathering lines or anything that were on uncommitted owners' property, and you said no? 24
 - A. They are not. Right. So you asked the

Page 60

Page 58

1 question --

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

2

3

7

8

9

12

18

- 2 Q. And I asked the question, do you think it's appropriate for the integration owner to deem mineral 3 4 owners leased under every term of the lease. You said yes. And I said, why? 5
- A. Because it's the lease attached to the 6 integration, would be my answer. 7
 - Q. That's fair enough. It's okay. You've addressed that. All right. I think I've asked all of my questions of the witness. Mr. Brown, thank you for your time.
 - MR. CHRISTIAN: May I ask a couple of follow-up questions?

HEARING OFFICER: I do apologize, Mr. Christian. Do you have a redirect?

MR. CHRISTIAN: Thank you. And I would say as a preparatory matter, I do appreciate the conversation about the specific conditions in the unit, which is the reason we're here.

REDIRECT EXAMINATION **OUESTIONS BY MR. CHRISTIAN:**

Q. With that in mind, Mr. Brown, you had a conversation with Mr. Piotrowski about the risk penalty. Just so we're clear, that's relevant only to the extent an integrated owner elects to participate in the well on

- for their interest, and whatever dollars they'd paid on
- a go-forward basis for their share of the operating 2
- expenses. Right? 3
 - A. Yes.

4

8

9

10

11

13

14

15

16

17

18

19

20

21

22

23

25

3

8

11

12

13

14

15

16

17

20

- Q. So we can at least say that the risk penalty 5 should apply to those -- that combination of dollars, 6
- 7 couldn't we, yes or no?

A. Correct.

- A. Yes.
- Q. There was -- to the question of surface operations on small tracts, as an additional matter, the state statute has setbacks for surface facilities.
- 12 Right?
 - Q. There are lots of things you can't do on a surface within a few hundred feet of a house, that kind of thing. As a practical matter, would that limit your ability, as a matter of law, to engage in surface operations on a lot of small tracts anyway?
 - A. Absolutely.
 - Q. Okay. I want to be clear on the subject of subsurface operations. Specifically with respect to the well bore path, would the operator need to retain the ability to engage in subsurface operations?
- A. Yes. 24
 - Q. Because -- and that's because there are

Page 59

Page 61

- a nonconsenting basis. So they don't participate, they don't write a check for their share of any of the expenses. Right?
- A. If they elect to participate, yes. If they 4 elect to participate they would pay. Ask your question 5 6 again.
 - Q. They have the opportunity to participate on a consenting basis or nonconsenting basis.
 - A. Right.
- Q. And in the latter, they'd basically get a 10 free ride? 11
 - A. Correct.
- Q. Which is the reason for the risk penalty. 13
- 14
- O. So it would only be relevant to the extent 15 somebody elected to participate on that basis, as a 16 nonconsenting owner? 17
 - A. Yes. Gotcha.
- Q. To date nobody's done that in the state of 19 Idaho. I gather from Mr. Piotrowski's line of 20 questioning that, I think his point was, working 21
- interest owners who bought an interest from a prior 22
- 23 operator for the already-drilled well should be entitled
- to a risk penalty only on the amount of dollars they 24
- actually spent, which would include the amount they paid 25

- things that you need to do down a hole to keep the well 1 working. Right? 2
 - A. Correct.
- Q. In other words, if a deemed lease tract 4 where the existing well bore sits was subject to a 5
- 6 requirement, there would be no subsurface operations,
- you wouldn't be able to operate the well? 7
 - A. Correct. And safety issues.
- 9 Q. I think that is all the questions that I have. 10

HEARING OFFICER: Thank you, Mr. Christian. And I appreciate you helping me there. I actually have one question where I'm supposed to ask the question now regarding safety issues.

EXAMINATION

QUESTIONS BY THE HEARING OFFICER:

- Q. Mr. Brown, could you elaborate on safety issues, what those would be?
- 18 A. If you were unable to access the well bore, 19
- and I'm not an engineer, but you have to be able to access it to ensure, you know, if, for instance, you had 21
- an abrasion or anything, you need to be able to get down 22
- 23 the hole to maintain safety, but I would defer to
- Mr. Smith to probably answer that question a little 24
- better than me, because he's more engineering-minded 25

In the Matter of the Application of Snake River Oil and Gas, LLC Page 62 Page 64 than I am. 1 A. It was myself and three others. Q. Thank you, very much. I think now I can Q. Okay. If you would go to what's tabbed as 2 2 allow you to step down. Exhibit 2 in your binder there, but it's exhibit SR2 for 3 3 4 MR. PIOTROWSKI: Mr. Thomas, can I ask some 4 me. follow-up questions? A. Okay. 5 5 HEARING OFFICER: I'm afraid not, Q. Can you tell me what that is? 6 6 7 Mr. Piotrowski. I will encourage you to potentially 7 A. It's a resume of efforts to lease the postulate any questions to any additional witnesses. uncommitted mineral owners in the said unit. 8 8 MR. PIOTROWSKI: Can I ask to retain this Q. And in fact, it actually includes some 9 9 tracts that are outside the south boundary of the witness so I can recall him later, then? 10 10 HEARING OFFICER: Certainly. Thank you, spacing unit. Right? 11 11 A. It does. 12 Mr. Piotrowski. 12 O. Why is that? HEARING OFFICER: Mr. Christian, you may 13 13 A. We did that on purpose to, what we would call your next witness. 14 14 MR. CHRISTIAN: I'll call Wade Moore III. call a protection lease. Didn't have a surveyed unit 15 15 HEARING OFFICER: I will offer the oath to boundary, so the imaginary line across the southern 16 16 this witness. boundary, if you will, if it was close to that line, we 17 17 WADE MOORE, III, sent those owners a lease offer. 18 18 First duly sworn to tell the truth related to said Q. So if we flip to Exhibit SR5 for a minute. 19 19 cause, testified as follows: 20 A. Okav. 20 HEARING OFFICER: Mr. Christian, you may Q. Don't look at the color one, because my 21 21 assistant copied it wrong. proceed. 22 22 **DIRECT EXAMINATION** A. Okay. 23 23 **QUESTIONS BY MR. CHRISTIAN:** Q. Does that illustrate the numbered tracts 24 24 25 Q. Thank you. Mr. Moore, can you state your that are below that line? Does that illustrate the ones 25 Page 63 Page 65 name for the record? that actually fall outside the unit? 1 1 A. Wade Moore III. A. Yes, sir. 2 2 Q. And what is your occupation? Q. Okay. But nevertheless, those people 3 3 A. Landman. were -- you engaged in leasing efforts toward them and 4 4 O. And you work for Snake River Oil and Gas? they were noticed for this proceeding? 5 5 6 A. Yes, sir. 6 7 Q. And how long have you been employed as a Q. Okay. What is, based on your resume of 7 efforts, what is the percent leased in the unit? landman? 8 8 9 A. Since -- for Snake River Oil and Gas, or --9 A. We're at about 62 percent. O. Generally. Q. And I think we stated something around 10 10 A. Generally, eight years. Nine years. 61 percent? 11 11 Q. And most of that time's been in Idaho? 12 A. 61 percent was stated, given the resume 12 13 A. Yes. Most. numbers. It included the tracts that were outside of 13 Q. Okay. And were you -- did you participate the boundary, but the tracts inside the boundary 14 14 in, or were you responsible for the leasing efforts in represent 62 percent. 15 15

the 300-acre spacing unit that's the subject of this 16 proceeding? 17 A. Yes, I was. 18 Q. Did you work alone, or did you work with 19 20 assistants?

A. We had a team of contract employees. 21

Q. So those would be other landmen?

23 A. Yes.

22

Q. Okay. Do you recall about how many men you 24 had working on the project?

Q. Okay. Does the resume of efforts accurately reflect you and your team's efforts to contact and lease

17 the uncommitted mineral interest owners? 18

19

A. Yes.

Q. It also actually, in some case, reflects 20 efforts earlier of the prior operator? 21

A. Yes. This unit -- portions of this unit have been worked for the last four years. So yes. In the event we had notes from prior efforts, we entered those.

16

22

23

24

Page 68

1 Q. Okay. And your mailing efforts, I want you to turn to Exhibit 1E in your binder, which is 2 Exhibit SR1E. 3 4 A. Okay.

Q. All right. Is that the form of offer letter 5 you used in this unit? 6

7 A. It is.

Q. So your mailing efforts each time would have 8 included that form of offer letter with the appropriate 9 owner information and terms filled in? 10

A. Yes.

11

16

17

18

19

20

21

6

7

8

9

10

14

15

18

19

25

Q. Okay. Were there any -- any of the -- I 12 think there were, like, 86 tracts listed in the resume 13 of efforts. Were there any uncommitted owners who 14 15

leased during the period of your efforts?

A. I recall two that responded to our efforts, and those two -- let me say it this way, responded positively. They chose to lease, yes. We had two of them.

Q. And they totaled what? How much acreage, roughly?

A. There's a couple acres. 22

O. Okay. Of all of the rest of the people, 23 which would be the people listed in the resume of 24 25 efforts, what kind of response did you get?

1 offered in the unit?

A. 1/8.

2

5

10

14

23

2

3

6

7

8

12

13

14

15

16

Page 66

Q. Are all of the voluntary leases in the unit 3

4 at 1/8 royalty?

A. Yes.

Q. Could you look at Exhibit 1C for me? Is 6 7 that your declaration filed with the application in this

matter? 8

9 A. This is.

Q. Was that a yes?

A. Yes. I'm sorry. 11

Q. Okay. Does the declaration accurately 12 describe your leasing efforts in the unit? 13

A. It does.

Q. There is -- I think I've asked you about 15 these already, but subject to one thing. You listened 16 to the discussion about risk penalty between Mr. Brown 17 and Mr. Piotrowski? 18

A. Correct. 19

Q. You don't have any personal knowledge of the 20 amount spent by working interest partners? 21

A. I have no idea. 22

O. And has the proposed drill site been leased?

A. It has. 24

Q. And is it subject to a surface use 25

Page 67

Page 69

A. Some nonresponsive -- the majority was 1 nonresponsive to anything. And then some was, leave me 2 alone, by written -- I had one written response. 3

Q. Okay. But the vast majority were simply no 4 response at all? 5

A. The vast majority, no response.

Q. Why do you think that is?

A. Well, my opinion is they'd been instructed not to respond, based on reports I received from lessors

in the area that said, This is a heads up --

MR. PIOTROWSKI: Objection. This is all 11 speculative. 12 13

THE WITNESS: -- Here's what's going on. HEARING OFFICER: Wait until --

THE WITNESS: Sorry.

HEARING OFFICER: Mr. Christian, will you 16 please rephrase that question? 17

MR. CHRISTIAN: I'll move on.

HEARING OFFICER: Thank you.

BY MR. CHRISTIAN: 20

Q. Mr. Moore, what was the highest bonus that 21 was paid in the unit prior to the application for 22

23 integration being filed?

A. \$100 per acre. 24

Q. What is the highest royalty rate that's been

agreement? 1

A. There is one attached to it, yes.

Q. Okay.

MR. CHRISTIAN: That is all the questions I 4

5 have for you.

HEARING OFFICER: Thank you, Mr. Christian.

Mr. Piotrowski? You may ask questions at this time.

CROSS-EXAMINATION

9 **OUESTIONS BY MR. PIOTROWSKI:**

Q. Thank you. Mr. Moore, would you please take 10 a look at the Exhibit SR5? That's the corrected plat. 11

A. Yes, sir.

Q. There is, along the northwest corridor of Section 15, that portion of it that's included in the unit here, do you see the subdivision, the homes that have been divided -- the land's been divided into home

sites? 17

A. I'm making sure we're on the same place. 18 It's, I guess that would be the railroad track and 19

Highway 95 area? 20

Q. Yeah. Specifically the area just west of 21 Highway 95 in Section 15. Do you see that? 22

23 A. I guess I'm with you. Are you above the line or below the line? 24

25

Q. Well, we'll stick to above the line, above

Page 72

Page 70

6

7

8

9

12

13

14

15

16

17

18

19

20

21

22

7

8

9

13

14

15

16

17

18

- the red line on SR5. Did you work in this neighborhood,
- trying to obtain leases?
- HEARING OFFICER: Mr. Piotrowski, for clarity, are you talking about the same area we were discussing with Mr. Brown?
- 6 MR. PIOTROWSKI: Yes.
- 7 HEARING OFFICER: I just wanted to clarify
- 8 that. Thank you. Go ahead.
- 9 BY MR. PIOTROWSKI:
 - Q. Do you recall working to try to obtain leases from homeowners in this area?
- 12 A. I did not.

10

11

19

20

21

25

5

6

7

8

9

10

11

15

16

17

18

19

20

21

22

- Q. Okay. Do you know who did?
- A. I do not know who did, because there was no need -- let me answer your question. There was no nee
 - need -- let me answer your question. There was no need to approach these owners, being that that ground was
- to approach these owners, being that that ground wasleased prior to homes being built on it. And those
- 18 homes were subject to a prior oil and gas lease.
 - Q. Okay. Who was that lessor?
 - A. I'm not prepared to answer that. I don't have those notes.
- Q. Do you -- are you in charge of recording leases in the public records system at Payette County when you secure leases in that area?
 - A. I'm not -- I mean, I'm not in charge. The

- A. I don't know who leased it. That's what I'm saying. Before that was subdivided, it was leased. The property was leased.
- property was leased.
 Q. Okay. Were you involved in preparing this
 map, SR5?
 - A. I helped give direction, yes.
 - Q. And who else helped give direction on that?
 - A. Other contractors.
 - Q. Who was that?
- A. We had a gentleman named Rodney and a lady named Christy.
 - Q. And in the course of preparing this, I mean, what documents did you rely on to figure out which of these plots or lots were leased and which weren't?
 - A. We worked off of the prior operator's lease records, and we used the Payette County document search engine.
 - Q. So do you have a personal knowledge, and by personal knowledge I mean, you have yourself looked at a document or a record or participated in obtaining a lease for this property that is now what I've identified for you as Tamarack Court?
- A. I want to say I personally saw the original lease for that ground, which is why we did not include them in our efforts. But that was so long ago, and I'm

Page 71

Page 73

- landman that would take the lease would send it in forrecording.
- Q. And is it your practice to record the leases you were able to obtain?
 - A. Either record the lease or memorandum of, yes.
 - just next to Highway 95, there's a cul-de-sac there. I will tell that I have looked at the maps. That cul-de-sac is called Tamarack Court. Do you have any idea who it is that supposedly leased the mineral rights

Q. Okay. And looking in particular at the area

- under Tamarack Court to anyone?
 A. I'm not sure I'm following your question, as
 far as Tamarack Court. Are you talking about the street
 - far as Tamarack Court. Are you talking about the street or the homes?

 Q. The mineral rights. So let me make sure
 - we're real clear. In that little neighborhood that's in the northwest corner of Section 15, right next to Highway 95 there is a cul-de-sac that is -- on this plat it shows as 1, 2, 3, 4, 5, 6, 7 of those properties are recorded here that's having had their mineral rights leased. Do you see that?
- 23 A. Yes.
- Q. Okay. Who is it that leased the mineral rights for that property?

- not -- I'm not prepared to say who it was, but I am
 confident enough to say that property was leased prior
 to those homes being there.
- Q. Would it modify your confidence at all if I told you that there was no public record of a lease on those eight lots?
 - MR. CHRISTIAN: Objection. Lack of foundation. And he's testified that the lease predated the lots.
- 10 HEARING OFFICER: I'll sustain that 11 objection. Thank you.
- 12 BY MR. PIOTROWSKI:
 - Q. When a piece of land is subdivided, in fact, don't the various liens and leases and other -- other documents and records affecting land, don't they also apply to the lot that is part of a subdivision?

MR. CHRISTIAN: Objection. Calls for speculation.

HEARING OFFICER: Actually, I'm going to allow that question. I'm looking at Term No. 4: Are the proposed terms, including those addressed at drilling and operating a well.

The question seems to be in the present tense, and I would say it falls under operating a well.

25 So with that I'll allow the question, Mr. Piotrowski.

Page 76

Page 77

Page 74

- You may ask it again or rephrase it.
- BY MR. PIOTROWSKI: 2
- 3 Q. It's going to be harder than it might seem.
- 4 Isn't it true, sir, that a mineral lease of a piece of
- property that subdivides also is effective against the 5
- subdivided lots? 6
- 7 A. It's effective against. Let me -- I think I
- know where you're going. Let me try to answer it in my 8
- simple mind. So let's say this bare ground, there was 9
- horses on it and there was a lease on it. Say a home 10
- builder bought that piece of ground to develop home 11
- lots, as long as the deed did not say the prior owner 12
- reserves the minerals, that lease goes -- it attaches 13
- itself to every lot on that ground. By virtue, it goes 14
- 15 with that sale.

16

17

- Q. And would you agree with me that the lack of
- a public record of a lease on one of those lots is one
- of the pieces of information you would rely on, as a 18
- landman, to determine if the mineral rights of a lot 19
- 20 were leased or not?
- A. I would use it as one tool, yes. 21
- Q. Okay. Do you -- and you don't remember who, 22
- this piece of land I've been focusing on that is 23
- currently Tamarack Court, you don't recall who might 24
- 25 have owned in the past that leased the mineral rights,

- given to Mr. Thum, have there been any other leasing
- activities taking place in this unit? 2
- A. I'm not sure when the plat -- all I can say 3
- 4 is since the filing of this unit, there's been no
- further efforts. 5

8

9

10

13

15

20

4

7

- Q. Okay. And regardless of efforts, have there 6
- 7 been any additional leases signed since the filing?
 - A. There has not.
 - Q. Okay. Thank you. That's all I have.
 - HEARING OFFICER: Thank you, Mr. Piotrowski.
- Ms. McLain, do you have any questions of the witness? 11
- MS. McLAIN: I do on not. Thank you. 12
 - HEARING OFFICER: Thank you. Ms. Vega, do
- you have any questions of the witness? 14
 - MS. VEGA: No, thank you.
- HEARING OFFICER: Mr. Christian, does Snake 16
- River have any redirect for the witness? 17
- MR. CHRISTIAN: Briefly, Mr. Administrator. 18
- Thank you. 19

REDIRECT EXAMINATION

- **OUESTIONS BY MR. CHRISTIAN:** 21
- Q. Mr. Moore, going to the questions raised by 22
- Mr. Piotrowski, if one were to go search by address 23
- under the lots in Tamarack Court or by the name of the 24
- current owner, you wouldn't necessarily discover, on 25

Page 75

- 1
- A. I don't recall. I didn't come prepared to 2
- talk about that. 3
- Q. And you didn't personally retain the lease 4
- on that property, did you? 5
- A. I did not. 6
 - Q. So as you sit here today, other than the
- information -- other than the fact that the map shows 8
- 9 it's leased, you don't have any personal knowledge
- whether those mineral rights are leased or not, do you? 10
 - A. I cannot say that I do, no.
- 12 Q. Now, the unit here is 300 acres. Is that
- right? 13

7

11

- A. That's correct. 14
- Q. Okay. And so just to make sure I understand 15
- this, because I know measurements in different fields 16
- can be different. I recently had a lengthy discussion 17
- with a sailor about miles, and we were not 18
- communicating. So when you say 300 acres, that's means 19
- there's no unusual math here. In a 300-acre spacing 20
- unit, 3 acres would constitute 10 percent of that 21
- unit -- or I'm sorry, 1 percent of that unit. Right? 22
- 23 A. Correct.
- Q. I just want to make sure on that. And since 24
- this corrected plat was prepared earlier this year, and

- the -- in the public terminal, for example, at the
- recorder's office, you wouldn't discover a lease granted
- by a prior owner over the larger property, would you? 3
 - A. No. Not initially.
- O. You'd have to go back in time, through the 5
- 6 chain of title?
 - A. You'd have to run chain of title.
- Q. So if someone didn't run chain of title, 8
- 9 it's possible they wouldn't have picked up the existing lease? 10
- A. It's possible. 11
- Q. And while you didn't personally take every 12
- lease in this unit, you directed the team that both 13
- researched existing leases and attempted to take new 14
- ones? 15

16

19

22

- A. Yes.
- Q. And as a company, Snake River has, in its 17 records, copies of the leases within the unit? 18
- Q. Although there it isn't any requirement in 20
- the statute that the application for integration include 21 copies of every lease, is there?
 - A. Right.
- MR. CHRISTIAN: I don't have any other 24
- 25 questions.

Page 80

Page 78

1 HEARING OFFICER: Thank you, Mr. Christian.

- Mr. Moore, I don't have any additional questions for you 2 at this time. You're welcome to step down. And also at 3
- 4 this time, as we approach 11:00, I'm going to call about
- a 10-minute recess, if everyone's okay with that. 5
- Mr. Gozzo, if you could keep the Zoom going, but you're 6 7

welcome to pause the recording. 8

MR. GOZZO: Mr. Hearing Officer, the recording has been paused.

(A break was taken.)

MR. GOZZO: The recording has been resumed.

HEARING OFFICER: Thank you, Mr. Gozzo.

Everyone, thank you for that break. Mr. Christian, you 13 may call your next witness. 14

MR. CHRISTIAN: Thank you,

Mr. Administrator. I call Dave Smith, who should be on 16 17

HEARING OFFICER: Mr. Smith is unmuted and on Zoom. I will offer the oath to Mr. Smith.

DAVID SMITH.

First duly sworn to tell the truth related to said 21 cause, testified as follows: 22

23 HEARING OFFICER: Thank you, Mr. Smith, you affirm that. You may proceed. 24

25 ///

9

10

11

12

15

18

19

20

1

2

10

11

12

13

18

19

we don't hear it.

THE WITNESS: Okay. I have an exhibit up on 2 3 a separate monitor here.

4 BY MR. CHRISTIAN:

Q. And does that exhibit show, in fairly 5 rudimentary fashion, the path of the Fallon 110 well 6 7 hore?

A. Yes. That's an exhibit that created, and 8 that is in fact the exact path of the Fallon 110 well 9 bore from the post drill or while-it-was-drilling survey 10 by John Clark, the directional driller. This was filed 11 with the State. 12

O. Okay. And the surface location would be at the top or north end of that dotted line?

A. Yes, it is.

13

14

15

19

20

21

22

23

24

25

8

Q. And the bottom hole would be at the bottom 16 or south end of the dotted line where there appears to 17 18 be a half shaded starburst character?

A. Yes. That's a little circle, and the annotation 1-10 is to the left of. That's the bottom hole below 5,000 feet.

Q. There are some notations and numbers partway up the path of the well bore. Can you tell me what those represent?

A. Yes. About 2/3 of the way or so down from

Page 79

Page 81

DIRECT EXAMINATION **QUESTIONS BY MR. CHRISTIAN:**

- Q. Thank you. Mr. Smith, if you have any 3 trouble hearing me, let me know. I'll try to speak 4
- loudly. Can you state your name for the record and let 5
- me know where you are? 6 7
 - A. My name is David Smith. I'm in Houston,
- Texas, at my office. 8 9
 - Q. And what is your occupation?
 - A. Geologist, practicing in the oil and gas field and have been for a little over 38 years.
 - Q. And can you just briefly summarize your educational background?
- A. I earned a Bachelor of Science in Geology 14 from Virginia Tech University. 15
- Q. And do you provide geology and geophysical 16 consulting services to Snake River Oil and Gas? 17
 - A. Yes, I do.
 - Q. Are you familiar with the existing
- Fallon 110 in the spacing unit that's at issue here? 20
- A. I am. 21
- Q. Do you have Exhibit SR4 with you? 22
- 23 A. I believe so.
- HEARING OFFICER: Mr. Smith, can you please 24 try to stay close to the mic? Because as you move away,

- the top, the surface locate on the Fallon property,
- you'll see two circles, and on the left side one says 2
- Sand B. That's top of Sand B, the producing sand, and 3
- just below that it says, Sand B base, and then to the
- right of the well bore are two numbers. Those are the 5
- measured depths, 3,772 is the measured depth to the top of the Sand B, and 3,937 is the measured depth in the 7
 - well bore to the base of Sand B.
- 9 Q. Can you explain what you mean when you say measured depth? 10
- A. Certainly. This well was drilled, as has 11 been discussed, on the Fallon property, on the north 12
- side, northwest side of the Payette River -- northeast 13
- side of the Payette River, in a big cattle field, 14
- basically. And it was drilled vertically to 15
- approximately 1,100 feet, and surface casing was set 16
- inside of the existing roughly 200-foot conductor 17
- casing, so the well is vertical to about 1,100 feet. 18
- And then below that point the well has gradually 19
- deviated to the south, southwest. It crosses off the 20
- Fallon property at approximately 2,300 feet, true 21
- vertical depth or 2,380 measured depth. 22

23 Just to explain the difference between

measured depth and true vertical depth, measured depth 24 25

is the actual, if you were running a wire line tool in

Page 84

Page 82

8

9

10

14

15

16

17

18

19

20

21

22

- the well, it's the actual distance that the well drills.
- True vertical depth would be the distance that at that 2
- point is from the surface. So if the well is vertical, 3
- 4 true vertical depth and measured depth are the same.
- But as the well achieves a little inclination and 5
- progressively more inclination, measured depth becomes 6
- 7 longer than true vertical depth. You can imagine, if
- you were suspending a rope from a ceiling, you had a 8
- 10-foot high ceiling and 10-foot long rope, if you bent 9
- the rope at an angle to reach the floor, you might have 10
- to make it 11 feet or 12 feet, depending on the angle of 11 12 the inclination.
 - Q. Do you have Exhibit SR3 available to you there?
- 15 A. I believe so.

13

14

18

4

5 6

7

8

12

13

14

15

16

17

18

19

20

24

25

- Q. It starts with a May 10, 2021 letter to 16
- Mr. Thum. Do you see that? 17
 - A. I believe so.
- Q. And if you go to --19
- A. Yes, I do. 20
- Q. If you go the last page of that exhibit, it 21
- should say type and directional drilling in the upper 22
- right-hand corner. Do you see that? 23
- A. Yes, I do. 24
- 25 Q. Okay. Is that an illustration of at least

- the well bore path are the inclination as well is
- progressively inclined and kicked to the south,
- southwest 5 degrees, 10 degrees, 15, 20. Et cetera. 3
- 4 Then you start what's call the tangent section where the
- well is straight at about 34 degrees, then you start the 5
- drop and target top, Fallon 110 Target, that would be 6 7 our target, which was the top of the B sand.

And that well was what we call an S curve, and the well is allowed to drop back to vertical to the lower part of the hole.

Q. So this page showing the directional 11 drilling plan reflects the target at the top of the 12 Sand B. Right? 13

A. It does. And this is the pre-drill plan, and the post-drill plan is very close to this, with the exception that we encountered our target, from memory, about 75 feet deeper.

Q. What is -- what's below the bottom of the targeted sand? I say because I know the well goes to a total depth beyond about 5,000 feet.

A. Yes. Sand B itself is fairly thick. I don't remember exactly how much we encountered here.

Maybe 150 feet or so of it, again, from memory. Then 23

below that, we encountered clay stone, and other sands 24 that were wet and water saturated. And then we, near 25

Page 83 Page 85

the planned directional drilling of the well as you just described it from, basically looking at it from the 2 side? 3

A. Yes. And on that particular exhibit, you can see, in the upper right is a plan view or a map view, which you would be -- if you were overhead, and you can see the surface location of the Fallon 110 is indicated, and then the well path progresses to the

9 south, southwest. Over on the left side of that diagram is a side-view, and that shows the well. You see the 10 13 3/8, that's the conductor casing set at about maybe 11

300 feet or so, 200 feet. Should I continue?

Q. Yes. But make sure you have your microphone close to you.

A. Okay. Then if you're looking at the left side of the diagram, you can see there's another indication, the scale on the far left shows true vertical depth in feet, and you see 800 feet, 1,200 feet, et cetera. There's a little notation on the well bore path that's says 9 and 5/8. That's what we

would call the shear on the bottom of the surface casing 21 to protect the surface waters, and that's at 1,080 22

23 measured depth and true vertical depth.

Below that you can see that the build has started, and the little degree numbers to the right of

the bottom of the hole we encountered a basalt layer that we had predicted from the seismic that we wanted to 2

drill to establish a good time/depth correlation. 3

Q. Starting from the surface location, and I'm 4 going to go back to your Exhibit SR4 that you prepared.

Starting from the surface location, I think there's 7 already been testimony to this effect, but can you

identify the property under which the well bore passes? 8

9 A. Yes. Okay. Are we working from the exhibit that I made? 10

O. Yes.

11

A. Okay. You can see that the well starts on 12 the Fallon property. And again, it was drilled 13 vertically to about 1,100 feet, and gradually kicked to

14 the south, southwest. And it goes off the Fallon 15

property, which was leased, or is leased, at 16

approximately 2,300 feet true vertical depth, 2,380 17

measured depth. Then it starts to cross under the 18 Payette River, and it exits the river at approximately 19

729 feet of lateral displacement, and at that point it's 20

about 2,830 true vertical depth below the surface, or 21

3,017 feet measured depth. 22

23 Then it crosses the first tract, which was unleased. On this plat it's identified by an acreage 24 25

number, 5.4201. And neighboring tract is -- those were

8

9

10

11

12

13

16

17

18

19

20

21

22

23

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Page 88

Page 86

- two City of Fruitland tracts. The neighboring tract is
- identified by 12.8669 up near the top. And so it enters 2
- those properties at -- well, as I said, when you exit 3
- 4 the river tract, it's about 3,017 measured depth. As
- you follow along the well bore, you can see an 5
- annotation, 3,772. That's measured depth for the top of 6
- 7 Sand B. And it exits Sand B at 3,937 measured depth.

And then the well bore itself continues drilling. Again, this was a frontier area. Oftentimes we'll drill below the objective sand to see what else is there and to search for a production in deeper sands. And specifically in this well we wanted to tie to a very hard basalt layer that we predicted would be there, from

the seismic data, to establish a good time/depth 14 15 correlation.

So the lower part of the well bore is -continues on and goes under the long skinny tract, which is, I believe, owned by Anadarko, railroad right-of-way, and the tract that's labeled 4.2490, I believe that's the Hicks' tract.

- Q. And can you say roughly at the time the well bore exits the City of Fruitland property, what it's true vertical depth is?
- A. When it exits the City of Fruitland 24 25 property?

production.

4

15

16

17

18

19

20

21

24

25

11

12

13

14

17

20

25

Q. Is it possible to reach the target interval 2 location by drilling to it vertically? 3

A. If you drilled this well vertically on the

Fallon location, you would just be accessing the edge of 5 the reservoir, and it would be a noncommercial -- it

7 would be a noncommercial well. You would encounter

maybe 10 or 20 feet of pay. I've thought about how to 8 talk about this. In the August hearing of last year,

9 structure maps and isopach maps were provided. I don't 10

know if we can access them or show them in this hearing, 11

but it's in the public record, and see where the 12

Fallon 110 surface location is. It's in the edge of the 13 net pay isopach map. 14

So if you drilled a vertical well, you would not be accessing the reserves under these tracts and under this unit, and in my opinion, you would be wasting those reserves by not being able to produce them.

Q. And the well was drilled from the Fallon surface location because that was the surface area that was available. Is that right?

A. It was a large tract that was available to 22 be drilled from, and the other reasons are, we do try to 23 be good neighbors and not put a rig in the middle of the neighborhood or in town. If there's a large tract that

Page 87

Page 89

O. Yes. When it goes under the Anadarko and Hicks' properties.

A. Yes. 3,750 true vertical depth, 4,110 measured depth.

Q. Okay. Did you find anything productive after the targeted sand interval?

A. No. Above the basalt, which was, I'm going to say below 5,000 feet somewhere -- I don't have the log this front of me -- we found a little tough layer on top of the basalt that had some shows of gas and oil, and we attempted a completion and perforated it, and oil flowed, essentially water and a little bit of gas, but it was noncommercial. So we plugged back from there and tested the primary objective, which was the B sand up at those intervals indicated.

Q. Okay. Has the Fallon 110 well ever been produced?

A. It was only produced on test. That's a normal part of oil field operations, just to make sure you can have what looks like pay on the log, but the definitive test is to run casing, cement it, and then perforate it, and test it, so we had a test there and it was tested at 3.6 million or 3.8 a day, something like that, for some number or hours. I don't remember exactly how long. But it's never been hooked up for

- we can use that is less intrusive, we would prefer to do
- that. In this case, there was a nice tract that the
- Fallon entity was willing to lease to us, and it just 3
- made more sense to put the location on the other side of
- the river, next on to 95, with good truck access, keep 5
- the trucks out of town. And it would also be easier to
- hook up and take the flow line ultimately away from the
- well and hook up to the gathering system, without having 8
- 9 to go through neighborhoods and people's homes and 10

businesses and things like that.

O. Mr. Smith, do you have experience in other states with wells being drilled directionally or horizontally?

A. Yes.

- O. Does that sometimes occur in integrated or 15 pool units? 16
 - A. Very often, yes.
- Q. In your experience, does the well bore 18 sometimes or often pass under integrated or pool tracts? 19
 - A. Very often it does.

MR. CHRISTIAN: That's all the questions I 21 have for you. Thank you. 22

23 HEARING OFFICER: Thank you, Mr. Christian. Mr. Piotrowski, you may ask questions of the witness. 24

///

1

3

5

11

13

14

15

16

17

18

19

20

21

22

23

24

25

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Page 92

Page 90

8

18

CROSS-EXAMINATION

- QUESTIONS BY MR. PIOTROWSKI: 2
 - Q. Are you able to hear me?
- 4 A. Sorry. Did you say something?

HEARING OFFICER: Mr. Piotrowski was frozen

- by technology. He seems to be live now. 6
- 7 Mr. Piotrowski, you may ask questions of Mr. Smith at 8 this time.
- MR. PIOTROWSKI: Thank you. 9
- BY MR. PIOTROWSKI: 10
 - Q. Are you able to hear me now?
- 12 A. Yes, sir.
 - O. Thank you. I think you already answered this, but I want to make sure I understand. It would be possible, but it would not be commercially reasonable to access the Sand B reservoir or pool here from the current location of the wellhead on the Fallon Enterprises, former Fallon Enterprises property, without
 - drilling under unleased land. Right? A. You can access the sand drilling vertically from the Fallon well, but you would encounter a small --I think on my isopach map it was less than 20 feet of pay. So you would not be able to access the reserves. In order to access the reserves, which is the intention of the well, you would need to drill to the south,

- you go back to one of the exhibits that was provided --
- let me see if it has any of that on there. Yeah. Okay.
- The one that we were looking at a little while ago with 3
- 4 the plan from Titan Directional Drilling. 5
 - Q. Right.
- A. If you look at the bottom of that page, it 6 7 has something called section details, and you can see --
 - HEARING OFFICER: Mr. Smith.
- THE WITNESS: -- number 1, measured depth 9
- zero; inclination, zero; azimuth, zero; true vertical 10
- depth, zero. You go down to No. 2, and it's 1,180 11
- measured depth, and you go over, it's 1,180 TVD. And 12
- No. 3, that's top of the Telegent section, we're at 13
- 2,319 measured depth, the inclination is 34 degrees, 14
- azimuth -- that's a compass direction -- is 202.97, and 15
- TVD is 2,253, so you can see 2,253 TVD, that's something 16
- less than 2.319. 17

When you get down to the top of the

- Fallon 110 target, that's 3,674 measured depth and the 19
- TVD is 3,374. So it's about 300 feet -- true vertical 20
- depth is 300 feet less than measured depth. And in 21
- fact, this was the pre-drill plan, this exhibit, what's 22
- filed with the State, this was filed with the State with 23
- the permit, the original drilling permit, and also we 24
- 25 filed an after action, if you will, directional survey

Page 91

Page 93

- southwest. Does that answer your question, sir? 1
- Q. I think so. On the map you prepared, 2
- showing the path of the well bore, you indicated there 3
- was Sand B and a Sand B base respectively at 3,772 feet 4
- and 3,937 feet. That's -- which type of measurement is 5
- that? Is that true depth or the other one? 6 7
 - A. Those are measured depths, and we usually like to do that because that way you can reference it
- 8
- 9 back to the log which is recorded in a measured depth. 10
 - Q. Okay. And so it's going to be, again, the difference between measured depth and true depth, so I understand.
 - A. Okay. So if you were -- if you had -- if you had a plumb bob and it was hanging on a string and the string was 10 feet long, its true vertical depth from the top of the string to the base of the plumb bob would be 10 feet, and also the measured depth. But you can imagine, if you grab that plumb bob and you pulled it to the side, it's going to rise up off the floor. So in order to contact the floor, you'd need to have a longer string. That would be your measured depth.
 - So the greater the measured depth is, the greater the inclination of a well, the more, the greater that measured depth is going to be above true vertical depth. And if I may, sir, to answer your question, if

- of what was actually drilled. In that case you'll see
- that, where on the plan here we intended to hit measured
- depth the top of the sand at 3,674, we hit it at 3,772, 3
- so it was about a hundred feet below to expectation, 4
- which might sound like a big miss, but in frontier area 5
- that's not bad. Because we work in a time with the
- 7 seismic data and you have to convert that to depth, and
- our information to do that is pretty spotty in a lot of 8
- 9 instances.

10

11

- HEARING OFFICER: Mr. Piotrowski, you garbled out there. Can you repeat that?
- MR. PIOTROWSKI: It was not a question, so I
- don't need repeat to or withdraw it. 13 BY MR. PIOTROWSKI: 14
- O. Thank you for that explanation, Mr. Smith. 15 So I had it in my notes, you testified about the depths 16
- at which the well crosses into -- I think you testified 17 about where it crosses into the Anadarko land, the
- 18 railroad right-of-way. Could you repeat that again, 19
- please? 20
- A. I believe it's 2,110 measured depth, 3,750 21 true vertical depth. That would be the start -- the way 22
- 23 it's termed is vertical section, essentially a lateral
- displacement. That would be a lateral displacement of 24
- 25 1,314 feet from the surface location.

1

2

3

4

5

6 7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

2

3

4

5

6

7

8

9

Page 96

Page 94

12

13

14

15

16

17

18

19

20

21

22

23

24

25

1

2

3

4

5

7

8

9

10

11

12

18

24

25

bore.

Q. Okay. Mr. Smith, I know you didn't testify about this on direct examination, but Mr. Brown indicated you might be someone I could ask about it. Can you explain to me in general terms, because the term

shows up in the leases, what are well treatments?

HEARING OFFICER: Mr. Piotrowski, I believe you asked, what are well treatments?

MR. PIOTROWSKI: Yes.

THE WITNESS: A well treatment, in my view -- and I'm going to preface this by saying I am a geologist. I have a lot of operations experience, but I'm a geologist. (Unintelligible.) I actually used to work on drilling rigs when I was college. A well treatment is anything you do to the well to help it produce, typically. It could be something at the surface, where you can have a waxy crude, you do something to prevent it from plugging up your well lines. Or if it's something down a hole, it could be as simple as running a swab line, a baler to swab sand out the well bore that's producing sand, or it could be something as simple as using some field-produced water to inject into the perforations to clean them out or swab it in.

Q. Okay. Is there any way, as we sit here now,

BY MR. PIOTROWSKI:

are you able to rule out that there could be other

hydrocarbon reservoirs that could be developed in the future? 3

A. I think we have high-quality logs that we've 4 collected in this well. We have what's called mud loggers. These are professionals that are on the well, 7 usually four of them. They operate in two-man teams, 12 hours on, 12 hours off. They sample the rocks we're 8 drilling through, they sample the fluids, they use a 9 mass spectrometer to see what those fluids are. So I 10 11 think we have a pretty good idea what's in this well

We did test one sort of surprise zone down deeper. It did not work. And everything below this Sand B that's the current completion by the logs and the mud loggers was wet sand or clay stones. So there is another zone above Sand B which we call Sand A, which is behind pipe. I don't have those depths right off the top of my head, but there would be an up-hole completion in the future.

Q. Are there other potential structures, not necessarily limited to what could be reached from the existing well, but can we rule out other potential structures in the spacing unit that might be developed commercially?

Page 95

Page 97 A. I think we have good quality to excellent

is there any way to predict what well treatments may be necessary to keep the Fallon 110 producing at its best capacity in the future?

A. From our experience in the area, these reservoirs are what we would call good porosity and permeability, so also you'd call it a conventional reservoir. So you really don't need to do a whole lot other than perhaps maybe treat for scale or (unintelligible), or bale if there's some sand, something like that. These reservoirs are not

10 candidates to be fractured. I'm sure you and your 11

12 clients are concerned about fracturing, and it's just --

13 it's not in the cards, in my view out here. These are

high-quality reservoirs. Where fracturing typically 14 15

occurs is in much lower quality reservoirs. We haven't

fracked anything up here in the 11 wells or so that 16 we've drilled. And in this particular well, you know, 17

we have the logs that show high-quality reservoir, good

18

porosity, good perm. We have a test that shows it 19 produces at commercial rates. I don't see a need. It 20

would just be an unnecessary expense, and I don't know 21

that it would even be allowed under current state law to 22

23 begin with, so it's not something that's being

considered. 24

Q. Based on what you know of this spacing unit,

quality 3D seismic over the unit. I say sometimes good quality because you'd ideally like to have a complete 3D survey. In some instances we were not able to use sources or receivers (unintelligible) operating around town, but the data is really good. I think we have designed a well that was going to test what's in this unit, and I think we've done that in the past. You can never rule anything out much, much deeper, but we don't see it at this point.

MR. PIOTROWSKI: I think that's all the questions I have.

THE COURT: Thank you, Mr. Piotrowski. 13 Ms. McLain, you may ask questions of the witness if 14 you'd like. 15

MS. MCLAIN: I do not have any questions. 16 17 Thank you.

HEARING OFFICER: Ms. Vega, you may ask questions if you'd like.

19 MS. VEGA: Thank you, Mr. Thomas. I also do 20

not have any questions for this witness. 21 HEARING OFFICER: All right. Does Snake

22 23 River have any redirect for this witness?

MR. CHRISTIAN: I do not, Mr. Administer. HEARING OFFICER: All right. Mr. Smith,

Page 100

Page 98

- you're getting done here. I don't have any follow-ups
- with you either, so you're free to go. Mr. Christian, 2
- do you have any additional witnesses you'd like to call? 3
- 4 MR. CHRISTIAN: I do not, sir.
 - HEARING OFFICER: Thank you for that. Next
- up, Mr. Piotrowski, do you have any witnesses you'd like 6
- 7 to call?

5

10

15

17

18

3

5

6

7

10

17

MR. PIOTROWSKI: Yes, I do. Let me call 8 Julie Fugate. 9

JULIE FUGATE.

- First duly sworn to tell the truth related to said 11
- cause, testified as follows: 12
- HEARING OFFICER: Mr. Piotrowski, you may 13 14 proceed.

DIRECT EXAMINATION

QUESTIONS BY MR. PIOTROWSKI: 16

- Q. Thank you. Ms. Fugate, where do you live?
 - A. I live at 1861 Northwest 24th Street,
- Fruitland. 19
- 20 Q. Is that inside or outside of the spacing unit for the Fallon 110? 21
- A. It's outside. 22
- O. So tell me, do you have any association with 23
- an organization known as Citizens Allied for Integrity 24
- 25 and Accountability?

A. Yes.

1

10

11

14

15

16

17

18

19

20

21

- Q. And are you familiar on this map with an 2
- area known as Tamarack Court? 3
- 4
- Q. And is that down in Section 15, alongside 5
- Highway 95? 6
- 7 A. Yes.
- Q. Do you happen to know who currently owns the 8 properties along Tamarack Court? 9
 - A. Yes, I do.
 - Q. How do you know that?
- A. I did some property searches, and found the 12 property using the Payette County website. 13
 - Q. And within the spacing unit, how many properties are there currently on Tamarack Court?
 - A. I believe there's nine.
 - Q. Outside of those properties, do you have any way of telling whether any of those properties have been -- have leased their mineral rights?
 - A. The document search I did shows that none of them have leased their mineral rights.
- Q. And what -- whose documents did you search 22 to come to that conclusion? 23
- A. I -- I went to the current property owner, 24
- 25 and then I also went to the prior owners, which included

Page 99

Page 101

- A. Yes. I'm a member and also a board member, 1 and I'm also a volunteer. 2
 - Q. Are you familiar in general with the
- Fallon 110 spacing unit? 4
 - A. Yes.
 - Q. And how are you familiar with it?
 - A. I have been working on that for a few years
- now and I'm a volunteer, so I've been involved too. 8
- 9 Q. What sorts of things do you do as a
 - volunteer that relate to the Fallon 110 spacing unit?
- A. I talk to CAIA members and -- for that 11 12 spacing unit, and I also do document searches.
- 13
- Q. Let me draw your attention to the document that's originally Exhibit A to the integration 14
- application, which was the plat of the spacing unit
- 15
- here. Do you have that in front of you? 16
 - A. Yes, I do.
- Q. Okay. Let me draw your attention in 18
- particular to the northwest corner of Section 15 on that 19
- plat. Do you see that? 20
- A. Yes. 21
- Q. Just to be clear, because the testimony's 22
- 23 already been -- this particular map shows a little more
- than just the limits of the spacing unit. Do you agree 24
- with that? 25

- several construction companies, and I could not find any
- leases in the name of Pelican Development or Leroy
- Atwood for these properties, and I couldn't find any --3
 - Q. Let me stop you there if I could, please.
- The question I was asking you, where do you find these 5
- 6 records?

4

- A. Excuse me. On the website that has a 7
- document search, Payette County website. 8
- 9 Q. So are these documents maintained by the county clerk? 10
- A. Yes. 11
- 12 Q. So do they allow you to search for documents
- that relate to certain individual or business names? 13
- 14
- Q. And did you search for mineral leases 15
- associated with the current owners of the properties on 16
- Tamarack Court within the basin? 17
 - A. Yes, I did.
- Q. And did you find any leases associated with 19 20 those?
- A. No. No leases associated with those 21 property owners. 22
- 23 Q. And were you able to determine who was the
- developer of this land, that subdivided the current 24
- lots? 25

Page 104

Page 102

2

4

9

14

15

20

21

22

23

25

2

5

17

18

19

22

23

- 1 A. Yes. As far as I could see, it looks like
- it was Leroy Atwood or Pelican Development. 2
- Q. And is Pelican Development a company that is 3 4 at least partially owned and operated by Leroy Atwood?
 - A. Yes.

5

8

9

10

11

- Q. Have you found any mineral rights leases 6 7 executed by Leroy Atwood in Payette County?
 - A. I found some. About 10 oil and gas leases associated with Leroy Atwood.
 - Q. And were any of those leases for property in the northeast corner of Section 15?
- A. No. None of them. 12
- O. And did you search for mineral rights leases 13 executed by Pelican Development? 14
- A. Yes. I did a search for Pelican Development 15 and Pelican and Pelican, Inc., and I did not find any 16 leases. 17
- O. Now, these lots on Tamarack Court, did the 18 current owner -- are you able to tell who the current 19 owners bought the property from? 20
- A. Yes. I was able to determine that from 21 looking at the deeds. 22
- O. And you know, in my experience, oftentimes 23 the properties like this with new homes are purchased 24 25 from a construction company that actually built the

- contact Leroy Atwood in that Resume of Efforts?
 - A. Please ask that again.
- Q. Sure. In the course of trying to secure the 3 leases in this spacing unit, do you know whether the
- landmen said they attempted to contact Leroy Atwood? 5
- A. Yes. I can see that in the landmen notes. 6
- 7 Q. Do any of those notes indicate that
- Mr. Atwood executed any leases --8
 - A. No.
- Q. To your knowledge, based on your experience 10 in doing property research in this area, would you 11 expect mineral leases to show up in the public record 12 for Payette County, if they had been executed? 13

THE WITNESS: Yes.

MR. CHRISTIAN: Objection. Lacks

foundation. Calls for speculation. 16

HEARING OFFICER: Mr. Christian, I'll allow 17 the question. Go ahead, Mr. Piotrowski. 18

BY MR. PIOTROWSKI: 19

- Q. Now, in the course of reviewing this particular spacing unit, have you made any effort to look at the notice of mailing that was submitted to the Department of Lands by Snake River Oil and Gas?
- A. At the certified mail receipts? 24
 - Q. Yes. Did you look at those?

Page 103

Page 105

- homes. Was that the case for any of these lots? 1
- A. Yes. There were six that I could tell off 2
- the top of my head that identified three different 3
- construction companies. 4
- Q. And were you able to find -- did you search 5 for mineral leases for those three construction 6 companies? 7
- A. I did a search under Y West Homes, and there 8 9 was no leases. And I can't remember. This week I've been doing the searches. I don't remember if I went 10
- into BK Construction or Rand Development, but I did go 11 12 into Y West Homes.
- Q. Is that one of the construction companies 13 that built some of these houses? 14
- A. Yes. 15
- Q. And in the course of preparing to testify 16 today, did you review the Resume of Efforts showing who 17 18 the landmen contacted when they contacted them about leasing? 19
- A. Yes, I did. 20
- Q. And did you find any entries in that Resume 21 of Efforts that related to leasing the property that is 22 23 currently Tamarack Court?
- A. No. There's none. 24
 - Q. And did you find reference to attempts to

- A. Yes, I did look at those. 1
 - Q. And is there anything in there indicating
- that any notice was mailed to the current owners of the 3
- property on Tamarack Court?
 - A. No. There's no -- none are listed.
- 6 Q. Have you had personal contact with any of the owners of Tamarack Court? 7
- A. Yes, I have. 8
- 9 Q. And have any of them informed you that they leased their mineral rights? 10
- A. No. I did not get that information from the 11 ones I talked to. 12
- Q. Did any of them deny having leased their 13 mineral rights. 14
- A. No. They have received no documentation at 15 all regarding oil and gas. 16

MR. PIOTROWSKI: Thank you, Ms. Fugate.

(Court reporter clarification.)

That's all the questions I have.

HEARING OFFICER: Thank you. I think I can 20 offer it. F-u-g-a-t-e. 21

HEARING OFFICER: Mr. Christian, you may ask questions of the witness at this time.

MR. CHRISTIAN: Thank you, Mr. Administer. 24

/// 25

In the Matter of the Application of Snake River Oil and Gas, LLC Page 106 Page 108 **CROSS-EXAMINATION** 1 1 Q. Okay. But you did not go back any further QUESTIONS BY MR. CHRISTIAN: than Leroy Atwood or Pelican Development in your 2 2 research? 3 Q. Ms. Fugate, good afternoon. I guess almost 3 4 good afternoon. Can you can tell me what your 4 A. No. educational background is? Q. So if an owner, whoever it was, that sold to 5 5 A. Yes, I have a bachelor's and a master's Mr. Atwood or Pelican Development, had leased their 6 6 7 degree in speech pathology and audiology. 7 minerals to Alta Mesa or Snake River or anybody else, Q. Do you have any professional training or you wouldn't know that? 8 8 education in land and title issues? A. That's correct. 9 9 A. No. None. Q. Does the name Patricia Stradley have any 10 10 Q. Have you ever prepared a title opinion for a familiarity to you? 11 11 piece of property, for example? A. No. 12 12 A. No. Q. Would you be able to dispute it if I told 13 13 Q. Okay. You are a board member of CAIA. Did you that Ms. Stradley owned the property prior to Leroy 14 I hear that correctly? Atwood or Pelican Development? 15 15 A. That's correct. A. No. 16 16 O. And a volunteer? Q. Would you be able to dispute it if I told 17 17 A. Yes. you that Ms. Stradley leased her minerals to someone 18 before the property was sold to Mr. Atwood or Pelican Q. As a board member, have you been involved in 19 19 the decisions of CAIA to participate in and object to Development? 20 20 various oil and gas applications during your membership? A. Was that a question? 21 21 A. We've had discussions regarding 22 22 O. Yes. applications. A. Can you repeat that, please? 23 23 Q. Is it true that, generally speaking, CAIA's Q. Can you dispute -- if I tell you that 24 24 25 objective, as set forth in your discussions, is to keep 25 Ms. Stradley leased the minerals for that larger Page 107 Page 109 the applications from being successful? property before it was subdivided, could you dispute 1 MR. PIOTROWSKI: Objection. that? 2 2 HEARING OFFICER: Mr. Piotrowski, I'll A. No. 3 3 sustain that. Mr. Christian, go ahead. Q. So the limit of your knowledge is that no 4 one from Mr. Atwood or Pelican Development forward BY MR. CHRISTIAN: 5 6 Q. You testified about property searches and leased their minerals? finding property owners. I think I heard you testify A. That's correct. 7 7 that you determined who the current owners of the lots Q. Okay. But if the property had been leased 8 8 9 on Tamarack Court are. Is that correct --9 prior to the time Mr. Atwood or Pelican Development took A. Yes. ownership, he would have purchased it subject to that 10 10 lease. Right? O. And you determined that they purchased from 11 11 either Pelican Development or Leroy Atwood. Do I have MR. PIOTROWSKI: Objection. Foundation. 12 12 13 that correct? HEARING OFFICER: I'll allow the question. 13 THE WITNESS: I don't have the knowledge to A. Yes. Let me look at the dates. Two of 14 14 them -- let's see. answer that question. 15 15 O. Let me see --BY MR. CHRISTIAN: 16 16 A. There's two from Rand Development, and Q. Okay. If the property was leased 17 17

homeowners?

Roy West Homes. I did six of them.

18

19

20

21

22

23

24

Min-U-Script®

there's two from BK Construction, and there is two from

Q. So do I understand correctly that your

research appears to show that Leroy Atwood and/or

sold lots to builders, who then sold to the ultimate

Pelican Development subdivided the property and then

previously, there would be no reason for Snake River to

Q. And likewise, there would be no reason for

them to mail them notice of the proceeding if their

property was already subject to a lease, would there?

attempt to lease any of the current property owners,

18

19

20

21

22

23

24

25

would there?

A. No.

A. That's true.

Page 112

Page 113

Page 110

8

9

18

19

23

24

1 MR. CHRISTIAN: I don't have any other 2 questions.

HEARING OFFICER: Thank you, Mr. Christian. 3

4 Ms. McLain, you may ask questions of the witness at this 5

MS. MCLAIN: Thank you. I have no questions 6 for this witness. 7

HEARING OFFICER: Ms. Vega, you may ask questions at this time.

MS. VEGA: Thank you, Mr. Thomas. I also don't have any questions for Ms. Fugate.

HEARING OFFICER: Thank you. 12 Mr. Piotrowski, do you have any redirect for this 13 witness? 14

MR. PIOTROWSKI: Thank you. REDIRECT EXAMINATION **OUESTIONS BY MR. PIOTROWSKI:**

Q. Ms. Fugate, have you done your best to search the public records for leases that affect any of these properties on Tamarack Court?

A. Yes.

8

9

10

11

15

16

17

18

19

20

21

6

7

8

11

12

13

14

15

16

17

18

19

20

21

25

Q. And is there any evidence that you've been 22 able to find in the public record that there was ever a 23 lease filed affecting this property? 24

25 A. No. 1 MR. CHRISTIAN: Objection. Asked and 2 answered.

MR. PIOTROWSKI: Thank you very much. 3

4 HEARING OFFICER: Thank you, Mr. Piotrowski. Again, I'll allow the question, although it's already 5

been answered. I do have a question just for 6

7 clarification, Ms. Fugate.

EXAMINATION QUESTIONS BY HEARING OFFICER:

Q. I know we have -- they've discussed your 10 record searching to some degree. You mentioned earlier 11 you had had, I believe, conversations with the people in 12 Tamarack Court. Just for clarification, did you share 13 with us that -- the folks you spoke with had no

recollection whether they had or had not, you know, 15

agreed to a lease for the mineral interest? 16 A. Yeah. The ones I talked to had not signed a 17

lease. They had received no documents regarding oil and gas. HEARING OFFICER: Thank you, Ms. Fugate. I

20 appreciate it. You are free to go. Mr. Piotrowski you 21 may call your next witness. 22

MR. PIOTROWSKI: I have no further witnesses. 25

HEARING OFFICER: Thank you. Look at my

Page 111

notes a little bit here. Ms. McLain, do you have any

witnesses you'd like to call forward? 2 MS. McLAIN: I do not. Thank you. 3

HEARING OFFICER: Thank you. Ms. Vega, do 4 5

you have any witnesses you'd like to call forth at this

6 time. 7

MS. VEGA: No, thank you.

HEARING OFFICER: Okay. Let me make sure 8 9 I've got all my notes before we go further. All right.

All right, well, then, with that, I am now going to 10

begin by -- the parties may now offer closing arguments.

We are doing well on time. I am going to limit closing 12

13 arguments to 20 minutes, beginning with Snake River Oil and Gas. 14

Excuse me, before I go into this. 15

Mr. Piotrowski, I'm remiss. I agreed that you could 16 call Mr. Brown back up, so let's --17

MR. PIOTROWSKI: I've chosen not to do that. 18 HEARING OFFICER: You've chosen not to do 19

that? All right. Thank you, Mr. Piotrowski, for your 20

patience on that. Now, Snake River may offer closing 21 22

arguments at this time.

23 MR. CHRISTIAN: Thank you,

Mr. Administrator. I'll try to keep it a whole lot 24 25

shorter. I will suggest to you that the applicant has

Q. Other than Mr. Christian's questions about 1 an unidentified owner, Stradley or something like that, 2 3

do you have any reason to believe that anybody has 4

executed a lease on these properties? 5

MR. CHRISTIAN: Objection. Calls for speculation. She testified she didn't look.

HEARING OFFICER: Mr. Piotrowski, first of all -- I'll allow the question. Go ahead,

9 Mr. Piotrowski.

BY MR. PIOTROWSKI: 10

> O. Other than the questions by Mr. Christian, do you have any reason to believe that anybody, named Stradley or otherwise, and based on your searches of the public record, do you have any reason to believe already had mineral leases on those properties?

> A. Based on my review of the records, and also Exhibit E, there's repeated attempts that landmen contacted Pelican Development and Mr. Atwood, and in all cases there was no response. And that leads me to believe that it's possible that there was never a lease, because they're still trying to get people in that area,

that unit, spacing unit, to sign leases. 22 23 Q. And just to sum up, you found no evidence of any leases for these properties. Right? 24

A. No.

Page 116

Page 114

- supplied, both by way of its application materials and
- exhibits and testimony, information to satisfy the 2
- requirements of 47-320, Idaho Code 47-320 for 3
- 4 integration of this spacing unit. The Resume of
- Efforts, and Mr. Moore's testimony reflects that good 5
- faith and diligent efforts were made to lease in the 6
- 7 area for at least 120 days prior to the application.
- The percent leased is above the 55 percent threshold for 8
- integration under that provision. The applicant has 9 provided forms of lease and joint operating agreement, 10 11 which subject to some of the comments and agreements

that were reached in the testimony, are just and

reasonable under the circumstances. 13

12

14

15

16

17

18

19

20

21

22

23

24

25

8

9

10

11

12

13

14

15

16 17

18

19

20

21

22

23

24

25

The opponents to the application have not apparently offered any different terms and conditions, or any testimony to support any different terms and conditions. The issue raised through Ms. Fugate's testimony is, I would submit, entirely lacking in foundation. She acknowledged in her testimony that she did not search past the ownership of the developer of the ground into subdivided lots, and her -- any conclusion that the property is unleased is entirely speculative because she did not search the entire chain of title.

Irrespective of that, or despite that, Snake

- affidavit of Mr. Moore, or somebody in Mr. Moore's
- position, which as Mr. Moore testified, was based on the 2
- prior efforts of a bankrupt corporation that is no 3
- 4 longer in existence, and left the state of Idaho, left
- existence while under a cloud of lawsuits. So we're 5
- relying here on the word of Alta Mesa, given years ago, 6
- and that relied upon by Mr. Moore, who did no independent research, to conclude that indeed all of the 8
- people who were entitled to notice of this proceeding 9

received that notice. 10

Against that evidence is the undisputed 11 fact, testified to by Ms. Fugate, that the public record 12 contains no evidence of mineral leases on at least six 13 tracts of what is now Tamarack Court. Mr. Christian 14 both denigrates the quality of the evidence presented in 15 this proceeding, but then offers to supplement his own 16 evidence later. If he has evidence, the time to present 17

- 18 it is now. The fact that they have not done so in the
- face of countervailing evidence indicates that there is 19 a serious question about whether the rights, the mineral 20
- rights underlying Tamarack Court have been leased or 21
- not. And if they have not been leased, then those 22
- owners are entitled to notice and an opportunity to 23
- participate in this proceeding, notice they have so far 24
- 25 been denied. To approve an integration order in these

Page 115

Page 117

- River did determine who leased the property, which was
- the name I asked Ms. Fugate, and we're happy to 2
- provide -- to supplement the record with evidence of 3
- that lease if necessary. But I would submit that 4
- Ms. Fugate's testimony was entirely lacking and of 5

6 insufficient foundation to even raise the issue. 7

Through Mr. Smith's testimony, I think we established that the existing well is -- and use of it to produce the target reservoir is entirely reasonable and necessary, and that the presence of well bores under integrated tracts is -- in other jurisdictions, is not an unusual circumstance. So with that I would request that the application be granted.

HEARING OFFICER: Thank you, Mr. Christian. Mr. Piotrowski, you may make a closing argument at this time.

MR. PIOTROWSKI: Thank you, Mr. Thomas. It is the job of the Idaho Department of Lands to ensure, not only be told, but to actually ensure that the requirements of the statute have been met. The department has so far not chosen to require the applicant to actually produce any evidence that it has, either one, obtained leases, or two, provided notice to all the uncommitted identifiable owners.

What it does instead is provides an

- circumstances would be legal folly, to say the least.
- And so the integration order should be delayed, at the 2
- very least, until those property owners have been 3
- notified, have been given an opportunity to object, and 4
- have been given an opportunity to participate in this 5
- hearing, which they have so far been denied. That's the
- 7 very least that should be required to satisfy the
- statute in this case, which requires the notice that we 8
- 9 discussed, that I am discussing.

As to the other requirements, as to the other just and reasonable factors, the evidence here indicates that, yes, there was a \$100 bonus payment on 1/8 royalty. The bonding on this property is entirely inadequate at present. The risk to residential properties is substantially higher than the risk to commercial and agricultural properties, for the simple reason that commercial purchases are made on purely, usually purely economic terms, whereas residential purchases are made on entirely different terms.

This project, for it to go forward, should be bonded at a level adequate to ensure that the homeowners of these properties, those who are using these properties for residential purposes, are entirely protected in the event of catastrophic failure of the well. The bonding amount should thus be set at the very

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

Page 120

Page 118

- least at the current assessed value of the properties in
- the unit. That's easily determined. We can pick out 2
- the assessed values on a given day and determine, that 3
- is the appropriate level of bonding. That's necessary 4
- in this case because, one, we are dealing with 5
- horizontal or directional drilling here. This not 6
- 7 simple vertical drilling. Second, the indication is
- that the operator has already engaged in a trespass 8 underneath the properties, or through the subsurface 9
- estates of several unleased properties. Third, the 10
- 11 operator is unwilling to guarantee that there will be no
- well treatments conducted here. Although Mr. Brown was 12
- willing to say that he was not engaged in fracking, that 13
- term isn't really all that precisely defined, so it 14
- leaves open many other types of well treatments, and 15
- well treatments including any kind of pressurization or 16
- the injection of materials into the well bore, adds risk 17
- 18 to the ground water, which ultimately adds risk to the
- values of these properties, and which could result in 19
- 20 catastrophic use. For all these reasons -- finally, the fact is that the lease terms as they exist today allow 21
- both surface and subsurface occupation of non-consenting 22
- owners' properties, which should be prohibited entirely, 23
- both surface and subsurface. 24
- 25 At the very least, the Department should

be expanded and shows the efforts of the Snake River Oil

- and Gas from December 2020 forward, and those efforts
- appear to satisfy the statutory requirements of at least 3
- 4 two attempted contacts, one of which is by certified 5

mail.

Additionally, back in May of this year the Department requested corrected and additional

information on the application, and the applicant timely 8

responded to that, with some corrected exhibits, some 9

additional information, which is in the written record, 10

11 as well as has been discussed today by several of the

12 witnesses.

6

7

14

17

19

21

23

24

25

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

When it comes -- so therefore, when it comes 13 to the criticism that the Department has not satisfied the requirements of it, I would present to you that that 15 is not correct, and it has in fact fulfilled the 16 statutory obligations that it has been charged with. It is up to you, this tribunal, to determine ultimately 18 whether or not the integration application should be approved or denied. But the Department is satisfied 20 with the statutory obligations that have been submitted. Thank you. 22

HEARING OFFICER: Thank you, Ms. Vega. Snake River, you may provide any rebuttal at this time. MR. CHRISTIAN: Mr. Administer, I'm going to

Page 119

Page 121

- recommend an appropriate bond, appropriate 1
- (unintelligible) on both surface and subsurface 2
- occupation, and that this proceeding not go any further 3
- until there is actual evidence that everybody who is 4
- entitled to notice of these proceedings has received it. 5
- 6 Thank you very much. 7

property is located.

8 9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

HEARING OFFICER: Thank you, Mr. Piotrowski. I appreciate that. Ms. McLain, do you have any closing arguments?

MS. MCLAIN: I do not. Thank you.

HEARING OFFICER: Thank you, Ms. Vega, do you have any closing arguments?

MS. VEGA: Yes. Thank you, Mr. Thomas. I appreciate Mr. Piotrowski's comments and constructive criticisms. However, I would argue that the Department of Lands has in fact satisfied the statutory requirements of its -- in evaluating an integration application, Title 47 Chapter 3, does not require the applicant to submit actual leases, nor does the Idaho Code require that oil and gas leases be filed with the county assessor or the county recorder where that

The statute requires an affidavit testifying under oath as to the record of efforts. The Excel file that was provided by Mr. Christian shows -- is able to

let you rely on the record. I don't think I need to argue about things that aren't in the record. 2

HEARING OFFICER: Thank you, Mr. Christian. 3 I do want to have the opportunity if there's anyone else 4 here who would like to speak today, they're welcome to 5 6 come up at this time. Go ahead. Be sure and state your 7 name clearly.

STATEMENT BY SHARON SIMMONS.

MS. SIMMONS: My name is Sharon Simmons. I live at 8680 Shannon Road, and I am an uncommitted property owner with the mineral rights still in my possession, I believe.

We were talking about just and reasonable compensation for allowing Snake River to come on our property and deem us an area that will be totally unusable. And I don't know how Idaho determined what was just and reasonable in the \$100 per acre fee and the 1/8 percent, because I know for a fact, in Pennsylvania, they pay a thousand dollars per acre, and 15 percent. That is a huge difference from what we're doing here in Idaho.

And for Snake River to figure that everything they do, they get a 300 percent on top of their expenses. That's a huge amount of money. And then the owners of the land will get a certain

Page 122 percentage after. The owners of the land take a huge risk. We risk everything we have. I do. Everything I 2 have is in the value of my property. And through time, 3 4 these casings are known to leak, ultimately destroying our water. And that's a huge price to pay to allow the 5 drilling next to the river in this area. Thank you. 6 7 HEARING OFFICER: If you don't mind, I have one simple clarifying question. If you'll indulge me. 8 9 You said you're a mineral interest owner. Are you a mineral interest owner within the proposed unit? 10 11 MS. SIMMONS: Yes, I am. 12 HEARING OFFICER: Thank you. That's all I 13 needed. MS. SIMMONS: I was uncommitted in that. 14 15 HEARING OFFICER: Thank you. I'd like to thank everyone for participating today. Tonight I will 16 hold a public comment period at 6:00 p.m. in this venue. 17 I will also take this matter under advisement and issue 18 a written decision within 30 calendar days of this 19 hearing, which will be October 18th. That adjourns our 20 hearing. Thank you very much. Chris, you may stop the 21 recording. 22 23 MR. GOZZO: The recording's been stopped. (Proceedings adjourned at 12:15 p.m.) 24 25 * * * * * Page 123 REPORTER'S CERTIFICATE 1 2 3 I, DIANA KILPATRICK, CSR No. 727, Certified 4 Shorthand Reporter, certify; 5 That the foregoing proceedings were taken before 6 me at the time and place therein set forth, at which 7 time the witness was put under oath by me; 8 That the testimony and all objections made were 9 recorded stenographically by me and were thereafter 10 transcribed by me, or under my direction; 11 That the foregoing is a true and correct record 12 of all testimony given, to the best of my ability; 13 I further certify that I am not a relative or 14 employee of any attorney or party, nor am I financially 15 interested in the action. 16 IN WITNESS WHEREOF, I set my hand and seal this 17 24th day of September, 2021. 18 19 20 21 DIANA KILPATRICK, CSR, RPR 22 Notary Public 23 Hailey, Idaho 83333 24 My Commission expires January 13, 2023 25

Shake Kivel Oli aliu Gas, LLC			September 10, 2021
	114:19	51:23;97:24;105:24;120:25	allowed (2)
\$	acquire (11)	administrator (8)	84:9;95:22
Ψ	36:5,11,20,21;37:13;38:3,6,	6:16;9:12;11:6,25;19:8;	allowing (2)
¢10 (2)	14;39:13,16,18	76:18;78:16;113:24	47:19;121:14
\$10 (3) 22:18:20:24	acquired (4)	adopted (1)	almost (1)
22:18,20,24	29:9;37:10;39:3;55:18	19:22	106:3
\$100 (4)	acquires (1)	advance (1)	alone (2)
27:19;67:24;117:12;121:17	36:1	12:10	63:19;67:3
\$200 (1)	acquiring (2)	advantageous (1)	along (5)
40:4	37:25;40:5	20:18	10:13;49:8;69:13;86:5;100:9
\$3 (1)	acre (6)	advisement (1)	alongside (1)
33:4	21:18;27:14,16;67:24;	122:18	100:5
\$50 (1) 27.14	121:17,19	affect (2)	already-drilled (1)
27:14	acreage (3)	27:8;110:19	59:23
1	15:15;66:20;85:24	affecting (2)	Alta (20)
/	acres (11)	73:15;110:24	34:10,11,15,17,19;35:16;
W (2)	14:13;25:18;43:24;44:3,9,12;	affidavit (3)	36:1,24;37:1,8,10,19;38:3,6,13;
/// (3)	56:22;66:22;75:12,19,21	40:18;116:1;119:23	39:23;40:3,8;108:7;116:6
78:25;89:25;105:25	Across (6)	affidavits (1)	Although (3)
/KROES (1)	13:6;14:16;17:14;22:1;	40:19	77:20;112:5;118:12
8:21	23:24;64:16	affirm (1)	amended (1)
A	action (3)	78:24	8:1
A	18:2;27:10;92:25	afraid (1)	American (1)
- h · · · · · · · · (1)	activities (1)	62:6	18:7
abandon (1)	76:2	afternoon (2)	among (1)
46:3	acts (1)	106:3,4	38:23
ability (2)	26:10	Afterward (2)	amount (17)
60:17,23	actual (8)	8:18,23	22:17;23:11;31:13;33:6;
able (21)	15:19;35:15,21,24;81:25;	again (15)	35:4;37:8,9,21,22;39:12,15;
31:9,22;36:14;61:7,20,22;	82:1;119:4,19	11:21,22;38:11,25;43:13;	52:14;59:24,25;68:21;117:25;
71:4;88:18;90:3,11,23;96:1;	actually (25)	57:16;59:6;74:1;84:23;85:13;	121:24
97:4;101:23;102:19,21;103:5;	7:1;10:3;14:16;15:23;17:18,	86:9;91:10;93:19;104:2;112:5	amounts (2)
108:13,17;110:23;119:25	25;20:18;22:24;33:1;34:6;35:3,		10:21;33:13
above (9)	6;36:4;57:15;59:25;61:12;	26:9;27:11;48:22;54:9,17,19,	Anadarko (4)
22:10;48:15;69:23,25,25;	64:9;65:1,20;73:19;93:1;94:12;	23;74:5,7;116:11	48:4;86:18;87:1;93:18
87:7;91:24;96:17;114:8	102:25;115:19,22	ago (4)	and/or (2)
abrasion (1) 61:22	addition (1)	51:23;72:25;92:3;116:6	7:11;107:21
absence (1)	10:5	agree (9)	angle (2)
42:21	additional (16)	26:6,12;51:7,10,17,18;52:3;	82:10,11
Absolutely (4)	15:14;28:5;44:20,24;45:3,5,	74:16;99:24	annotation (2)
32:2,12;52:4;60:19	7,11;46:10;60:10;62:8;76:7;	agreed (4)	80:20;86:6
accept (1)	78:2;98:3;120:7,10	38:16;39:7;112:16;113:16	answered (3)
8:23	Additionally (1)	agreement (11)	90:13;112:2,6
access (8)	120:6	16:7,23;18:5;19:15;28:20;	apologize (2)
61:19,21;88:11;89:5;90:16,	address (1)	32:5,10;36:15;43:23;69:1;	12:10;58:14
20,23,24	76:23	114:10	apparently (1)
accessing (2)	addressed (4)	agreements (3)	114:15
88:5,16	10:23;56:3;58:9;73:21	13:4;48:8;114:11	appear (1)
accomplished (1)	addressing (1)	agricultural (1)	120:3
17:16	10:21	117:16	appears (4)
according (2)	adds (2)	ahead (7)	10:5,6;80:17;107:21
17:9;48:1	118:17,18	19:9;35:1;70:8;104:18;	apples (2)
Accountability (1)	adequate (3)	107:4;111:8;121:6	47:7,7
98:25	10:2;52:18;117:21	Allied (1)	applicant (7)
accounting (2)	adjacent (1)	98:24	8:19;12:19;113:25;114:9;
34:2,2	56:11	allocated (1)	115:22;119:19;120:8
accurately (3)	adjourned (1)	36:16	applicants (1)
47:13;65:16;68:12	122:24	allocation (1)	9:13
achieves (1)	adjourns (1)	17:2	application (24)
82:5	122:20	allow (11)	8:4;9:17,21;10:1;13:16,20,
acknowledge (1)	adjusted (2)	8:25;62:3;73:20,25;101:12;	20,24;14:12,24;16:8;40:19;
45:8	27:19,19	104:17;109:13;111:8;112:5;	56:22;67:22;68:7;77:21;99:15;
acknowledged (1)	administer (4)	118:21;122:5	114:1,7,14;115:13;119:18;
acknowledged (1)		·	, , , , , , , , , , , , , , , , , , , ,

120:8,19	101:16,19,21;102:9	28:6	Boise (1)
applications (3)	Association (2)	bankrupt (1)	6:13
106:21,23;107:1	18:7;98:23	116:3	bond (6)
applies (1)	assuming (1)	bankruptcy (9)	52:5,9,12,18;54:6;119:1
33:2 apply (2)	23:12 attached (2)	29:10,11,12;34:18,25;36:19; 38:15;40:6,12	bonded (3) 54:3,8;117:21
60:6;73:16	58:6;69:2	bare (1)	bonding (6)
appreciate (6)	attaches (1)	74:9	10:22;54:2,13;117:13,25;
11:13;58:17;61:12;112:21;	74:13	basalt (4)	118:4
119:8,14	attempt (1)	85:1;86:13;87:7,10	bonds (1)
approach (2)	109:19	base (4)	54:11
70:16;78:4 appropriate (7)	attempted (4) 77:14;87:11;104:5;120:4	81:4,8;91:4,16 based (12)	Bonnie (1) 11:4
20:6;57:9;58:3;66:9;118:4;	attempts (2)	19:17;32:6;38:23;41:12;	Bonnie's (1)
119:1,1	103:25;111:17	49:5;65:7;67:9;95:25;104:10;	11:7
approve (1)	attention (3)	111:13,16;116:2	bonus (7)
116:25	13:18;99:13,18	Basically (5)	21:17;22:10,18;23:11;27:14;
approved (3)	Atwood (17)	16:16;31:7;59:10;81:15;83:2	67:21;117:12
24:5;56:10;120:20 approximately (8)	101:3;102:2,4,7,9;104:1,5,8; 107:12,21;108:2,6,15,19;109:5,	basin (2) 22:2;101:17	bore (22) 45:24;48:2;60:22;61:5,19;
34:9,15,23,25;81:16,21;	9;111:18	basis (10)	80:7,10,23;81:5,8;83:20;84:1;
85:17.19	audience (1)	16:22;17:10,11;34:1,1;59:1,	85:8;86:5,8,16,22;89:18;91:3;
April (1)	11:3	8,8,16;60:2	94:20;96:12;118:17
8:3	audio (1)	became (1)	bores (1)
area (24)	12:12	44:19	115:10
14:4,6;20:2;21:15;29:19;	audio/video (1) 7:2	become (1) 28:4	both (12)
41:10;55:1;67:10;69:20,21; 70:4,11,24;71:7;86:9;88:20;	audiology (1)	becomes (2)	12:11;29:22;35:10;46:2; 47:13;50:6;77:13;114:1;
93:5;95:4;100:3;104:11;	106:7	45:5;82:6	116:15;118:22,24;119:2
111:21;114:7;121:15;122:6	August (2)	begin (5)	bottom (10)
areas (2)	8:1;88:9	9:8;33:16,22;95:23;113:11	14:16;47:4;48:12;80:16,16,
26:21;53:15	Austin (1)	beginning (2)	20;83:21;84:18;85:1;92:6
argue (2) 119:15;121:2	12:24 available (3)	9:9;113:13 behalf (1)	bought (12) 34:21,23;35:10,16;37:19;
argument (1)	82:13;88:21,22	11:16	38:12,13;40:10,11;59:22;
115:15	aware (7)	behind (1)	74:11;102:20
arguments (6)	22:2,8,12;30:16,20;53:19,23	96:18	boundary (6)
8:25;113:11,13,22;119:9,12	away (2)	below (13)	15:20;64:10,16,17;65:14,14
Arkansas (3)	79:25;89:7	64:25;69:24;80:21;81:4,19;	boxes (1)
19:18,21,22 arm's (1)	azimuth (2) 92:10,15	83:24;84:18,24;85:21;86:10; 87:8;93:4;96:14	48:21 break (2)
36:23	92.10,13	benefit (1)	78:10,13
around (3)	В	12:12	brief (1)
11:3;65:10;97:5		bent (1)	12:21
articulated (1)	Bachelor (1)	82:9	Briefly (2)
8:5	79:14	best (2)	76:18;79:12
aside (1) 25:16	bachelor's (1) 106:6	95:2;110:18 better (2)	bring (1) 56:8
aspects (3)	back (15)	54:5;61:25	bringing (1)
6:20;9:17,18	21:4;29:22;33:5;36:15;	beyond (1)	16:19
assessed (4)	40:10,12;77:5;84:9;85:5;87:13;	84:20	broader (2)
36:4;41:10;118:1,3	91:9;92:1;108:1;113:17;120:6	big (3)	23:2;57:8
assessment (2)	background (3)	33:24;81:14;93:5	Brown (24)
40:21;41:10 assessor (1)	12:22;79:13;106:5 backup (2)	binder (3) 13:19;64:3;66:2	9:15;11:25;12:3,12,14;19:12; 32:23;43:5;46:24;47:9,11;49:1,
119:21	6:23;15:13	bit (4)	4;53:11;56:3,20;58:10,22;
assets (6)	bad (1)	54:7;56:20;87:12;113:1	61:17;68:17;70:5;94:2;113:17;
36:17,19,21,22,24;37:10	93:6	BK (2)	118:12
assistant (2)	bale (1)	103:11;107:18	build (1)
20:25;64:22	95:9 balan (1)	board (3)	83:24
assistants (1) 63:20	baler (1) 94:19	99:1;106:14,19 bob (3)	builder (1) 74:11
associated (4)	ball (1)	91:14,16,18	builders (1)
associated (1)			

Shake River On and Gas, LLC	_		September 10, 202.
107:23	cases (6)	Chris (3)	12:11;48:14;64:17;79:25;
built (3)	30:13,16;41:14;42:8;53:18;	7:22;46:18;122:21	83:14;84:15
70:17;102:25;103:14	111:19	Christian (66)	closely (1)
business (1)	casing (5)	9:10,11,12,22;11:20,24;12:6,	47:15
101:13	81:16,18;83:11,21;87:21	9;19:7,10,11;32:18;42:23;	closing (7)
businesses (1)	casings (1)	43:22;52:20,23;53:5;58:12,15,	8:25;113:11,12,21;115:15;
89:10	122:4	16,21;61:11;62:13,15,21,24;	119:8,12
buy (4)	catastrophic (3)	67:16,18,20;69:4,6;73:7,17;	cloud (1)
35:8,8;39:22,24	53:2;117:24;118:20	76:16,18,21;77:24;78:1,13,15;	116:5
	cattle (1)	79:2;80:4;89:21,23;97:24;98:2,	Code (6)
\mathbf{C}	81:14	4;104:15,17;105:22,24;106:2;	6:9,18;8:8;54:5;114:3;
	cause (4)	107:4,5;109:16;110:1,3;111:5,	119:20
CAIA (3)	12:5;62:20;78:22;98:12	11;112:1;113:23;115:14;	collected (1)
99:11;106:14,20	caused (1)	116:14;119:25;120:25;121:3	96:5
CAIA's (1)	26:9	Christian's (1)	collection (1)
106:24	CC-2021-OGR-01-002 (2)	111:1	44:2
calendar (1)	6:5;7:13	Christmas (2)	college (1)
122:19	ceiling (2)	55:25,25	94:13
call (22)	82:8,9	Christy (1)	color (1)
11:23,25;56:11;62:14,15;	cement (1)	72:11	64:21
64:15;78:4,14,16;83:21;84:4,8;	87:21	circle (1)	Combination (3)
95:5,6;96:17;98:3,7,8;112:22;	certain (4)	80:19	30:4,4;60:6
113:2,5,17	25:4,11;101:13;121:25	circles (1)	coming (2)
called (4)	Certainly (2)	81:2	11:13;46:23
25:8;71:10;92:7;96:5	62:11;81:11	circumstance (1)	comment (1)
calling (1)	certified (2) 104:24;120:4	115:12 circumstances (3)	122:17
45:12 calls (7)	cetera (4)	45:2;114:13;117:1	comments (3) 8:17;114:11;119:14
27:14;42:23;52:21;53:5;	22:20,20;83:19;84:3	43.2,114.13,117.1 Citizens (1)	commercial (3)
73:17;104:16;111:5	chain (4)	98:24	95:20;117:16,17
came (1)	77:6,7,8;114:23	City (8)	commercially (2)
49:8	chambers' (1)	6:7;8:16,22;11:5;48:5;86:1,	90:15;96:25
can (64)	7:2	22,24	Commission (1)
7:16;8:11,21;12:12,21;19:5;	chance (1)	claimed (2)	19:23
36:20,21;37:12;40:10,12;	53:8	10:4;24:11	commits (1)
46:17,20,20;50:9;54:17,22;	change (6)	clarification (6)	24:17
56:12;57:5,5,13;60:5;62:2,4,9,	19:25;24:17,24;39:17,17,25	21:5,13;48:21;105:19;112:7,	common (1)
10,25;64:6;75:17;76:3;79:5,12,	changed (2)	13	23:2
24;80:23;81:9;82:7;83:5,7,16,	6:19;28:14	clarify (3)	communicating (1)
24;85:7,12;86:5,21;87:20;	Chapter (1)	43:1;55:23;70:7	75:19
88:11;89:1;90:20;91:8,18;92:7,	119:18	clarifying (4)	companies (7)
16;93:11;94:4,16;96:23;97:8;	character (1)	9:7;14:24;55:14;122:8	39:3;52:6;54:2;101:1;103:4,
104:6;105:20;106:4,4;108:23,	80:18	clarity (2)	7,13
24;118:2	characterization (1)	13:23;70:4	Company (14)
candidates (1)	26:12	Clark (1)	12:16,18;19:17;33:19;34:9,
95:11	charge (2)	80:11	10;35:3,7;36:8;49:5,6;77:17;
cap (1)	70:22,25	clause (1)	102:3,25
20:20	charged (2)	26:5	compared (2)
capable (1)	34:3;120:17	clauses (1)	34:4;37:1
40:23	charges (1)	26:19	compass (1)
capacity (1)	34:2	clay (2)	92:15
95:3	check (1)	84:24;96:16	compensate (2)
cards (1)	59:2	clean (1)	24:24;26:16
95:13	Cherese (1)	94:22	compensation (2)
career (1) 18:15	11:7 C-h-e-r-e-s-e (1)	clear (4) 58:24;60:20;71:17;99:22	30:17;121:14 complete (3)
	11:9	clearly (2)	8:25;52:19;97:3
carry (2) 36:20;38:21	choose (1)	7:4;121:7	8:25;52:19;97:5 completed (1)
30:20;38:21 case (17)	38:10	clerk (1)	11:20
10:1,12;33:20;34:7;36:24;	chose (4)	101:10	completing (1)
37:5;40:20;42:13;49:13;52:3;	20:12;27:9;38:13;66:18	clients (1)	29:6
57:1;65:20;89:2;93:1;103:1;	chosen (3)	95:12	completion (3)
117:8;118:5	113:18,19;115:21	close (6)	87:11;96:15,19
	110,10,17,110,21		3,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

1 (4)	4 • (4)	1 (4)	25 4 11 26 25 27 4
complex (1)	contains (1)	couple (4)	25:4,11;26:25;27:4
50:7	116:13	24:6;46:16;58:12;66:22	data (4)
complicated (1)	contaminating (1)	course (6)	49:5;86:14;93:7;97:6
50:3	53:14	13:1;47:12;72:12;103:16;	date (4)
component (1)	contamination (2)	104:3,20	26:25;31:8;35:22;59:19
6:21	53:17,20	court (23)	dates (1)
concept (1)	continue (1)	7:3;10:13;71:10,12,14;72:22;	107:14
50:3	83:12	74:24;76:24;97:13;100:3,9,15;	Dave (3)
concerned (1)	continues (3)	101:17;102:18;103:23;105:4,7,	9:18;31:19;78:16
95:12	7:10;86:8,17	19;107:9;110:20;112:13;	David (3)
conclude (2)	continuing (2)	116:14,21	16:3;78:20;79:7
20:5;116:8	39:4,8	cover (4)	day (2)
conclusion (3)	contract (2)	39:7;52:19;54:3,15	87:23;118:3
9:20;100:23;114:22	16:23;63:21	covered (1)	days (6)
condemn (1)	contractors (1)	34:14	45:5;51:23;56:15,18;114:7;
31:8	72:8	covers (1)	122:19
condition (2)	contracts (1)	14:13	day-to-day (1)
57:6,10	48:8	COVID (1)	13:12
conditions (4)	contribute (1)	6:19	dealing (1)
25:9;58:18;114:15,17	16:18	create (1)	118:5
conducted (1)	conventional (1)	35:5	December (7)
118:12	95:6	created (1)	34:22,22;55:18,21,21,24;
conducting (1)	conversation (3)	80:8	120:2
6:17	22:15;58:18,23	criticism (1)	decides (1)
conductor (2)	conversations (2)	120:14	20:19
81:17;83:11	7:5;112:12	criticisms (1)	decision (2)
confidence (1)	convert (1)	119:15	51:23;122:19
73:4	93:7	crop (1)	decisions (1)
		27:4	106:20
confident (1)	copied (1)		
73:2	64:22	crops (1)	declaration (2)
connect (2)	copies (2)	25:13	68:7,12
56:13,15	77:18,22	cross (1)	deed (2)
connected (1)	copy (4)	85:18	23:7;74:12
56:16	14:11;15:2;16:6;21:12	crosses (6)	deeds (2)
consenting (2)	corner (5)	47:22;48:3;81:20;85:23;	23:3;102:22
17:10;59:8	48:13;71:18;82:23;99:19;	93:17,18	deem (3)
consequence (1)	102:11	CROSS-EXAMINATION (4)	57:9;58:3;121:15
30:2	corporation (1)	32:21;69:8;90:1;106:1	deemed (7)
	116:3		
consideration (6)		crude (1)	17:23;18:2,4;46:2;51:20;
22:17,19,20,25;23:4;30:17	corrected (5)	94:16	52:2;61:4
considered (2)	21:9;69:11;75:25;120:7,9	crystal (1)	deeper (4)
50:24;95:24	correctly (5)	28:6	84:17;86:11;96:14;97:9
consistent (2)	15:19;33:16;54:12;106:15;	cul-de-sac (6)	defer (7)
23:24;52:24	107:20	48:16,19;49:8;71:8,10,19	42:17,19;49:9;50:8,22;52:10
consisting (1)	correlation (2)	current (19)	61:23
6:9	85:3;86:15	35:18,19;36:22;43:22;48:10;	defined (1)
constitute (1)	corridor (1)	50:11;76:25;90:17;95:22;	118:14
75:21	69:13	96:15;100:24;101:16,24;	definitive (1)
			87:21
constructed (1)	cost (13)	102:19,19;105:3;107:8;109:19;	
21:7	33:3,10,10,23;34:4,5,6;35:3,	118:1	degree (3)
construction (7)	20,21,23;36:16;39:24	currently (8)	83:25;106:7;112:11
101:1;102:25;103:4,6,11,13;	costs (1)	41:12;45:12;50:13;52:12;	degrees (4)
107:18	33:7	74:24;100:8,15;103:23	84:3,3,5;92:14
constructive (1)	counsel (1)	curve (1)	delayed (1)
119:14	7:2	84:8	117:2
consulting (1)	countervailing (1)	0.110	denied (3)
79:17	116:19	D	116:25;117:6;120:20
		D	
contact (5)	country (1)	1-9- (1)	denigrates (1)
65:17;91:20;104:1,5;105:6	23:24	daily (1)	116:15
contacted (3)	County (13)	34:1	deny (1)
103:18,18;111:18	6:13;42:7;43:12,15;70:23;	Damage (5)	105:13
contacts (1)	72:16;100:13;101:8,10;102:7;	54:20,21,22,23,24	Department (19)
120:4	104:13;119:21,21	damages (4)	8:12,24;10:15,20;11:13,17;

46:13,15,23;48:2;49:6;104:23;	direct (7)	39:21,22;40:5;52:18;59:24;	12:23
115:18,21;118:25;119:15;	7:23;12:8;13:18;62:23;79:1;	60:1,6;121:19	education (1)
			106:9
120:7,14,20	94:2;98:15	done (8)	
depending (1)	directed (1)	7:5;43:10,14;59:19;97:8;	educational (3)
82:11	77:13	98:1;110:18;116:18	12:22;79:13;106:5
depth (48)	direction (3)	dotted (2)	effect (3)
81:6,7,10,22,22,24,24,24;	72:6,7;92:15	80:14,17	29:19;31:4;85:7
82:2,4,4,6,7;83:18,23,23;84:20;	directional (15)	down (12)	effective (3)
85:17,18,21,22;86:4,6,7,23;	29:25;30:1;49:14,16,21,23,	48:12;56:2;61:1,22;62:3;	34:22;74:5,7
87:3,4;91:6,9,11,11,15,17,21,	24,24;80:11;82:22;83:1;84:11;	78:3;80:25;92:11,18;94:18;	effectively (1)
22,24,25;92:9,11,12,14,19,21,	92:4,25;118:6	96:13;100:5	31:22
21;93:3,7,21,22	directionally (3)	draw (2)	effort (1)
depths (4)	30:8;50:1;89:12	99:13,18	104:21
81:6;91:7;93:16;96:18	disagree (1)	drill (17)	efforts (29)
	37:24	28:8;31:13,20;32:1;35:4;	13:13;15:10;63:15;64:7;
describe (1)			
68:13	disallowing (1)	44:20,24;45:3,9,11,24;46:5;	65:4,8,16,17,21,24;66:1,8,14
described (2)	31:4	68:23;80:10;85:3;86:10;90:25	15,16,25;68:13;72:25;76:5,6
14:7;83:2	disconnected (1)	drilled (25)	103:17,22;104:1;114:5,6;
description (1)	7:11	17:20;27:23;29:1,14,18,24;	116:3;119:24;120:1,2
13:23	discount (2)	30:7,10,13,25;41:5,15;42:1;	eight (3)
designed (1)	36:20;37:1	53:15;56:4;81:11,15;85:13;	13:8;63:11;73:6
97:7	discover (3)	88:4,15,19,23;89:12;93:1;	either (17)
despite (1)	46:10;76:25;77:2	95:17	17:15,22;27:1;30:24;32:13;
114:25	discuss (1)	driller (1)	42:14,15;45:7,16,18;51:19;
destroying (1)	9:18	80:11	52:1;53:14;71:5;98:2;107:12
122:4	discussed (5)	drilling (25)	115:23
details (1)	56:21;81:12;112:10;117:9;	16:19;25:17;29:24;36:1;	elaborate (1)
92:7	120:11	43:23;44:5,6;49:25;50:1;51:20;	61:17
determine (8)	discussing (2)	73:22;82:22;83:1;84:12;86:9;	elect (3)
8:6;45:6;74:19;101:23;	70:5;117:9	88:3;90:19,20;92:4,24;94:13;	17:10;59:4,5
102:21;115:1;118:3;120:18	discussion (3)	96:9;118:6,7;122:6	elected (6)
determined (4)	9:17;68:17;75:17	drills (1)	17:7,16,20,22;18:1;59:16
107:8,11;118:2;121:16	discussions (2)	82:1	elects (1)
determining (2)	106:22,25	drop (2)	58:25
8:5,9	displacement (3)	84:6,9	else (6)
develop (3)	85:20;93:24,24	dry (2)	17:22;57:17;72:7;86:10;
37:2;40:4;74:11	displayed (2)	41:6,11	108:7;121:4
developed (2)	7:24,25	due (2)	else's (1)
96:2,24	dispute (4)	10:17;28:3	57:2
developer (2)	108:13,17,24;109:1	duly (4)	elsewhere (7)
101:24;114:20	distance (2)	12:4;62:19;78:21;98:11	10:12;21:15;23:21;31:21;
developing (1)	82:1,2	during (2)	32:1,14;46:9
56:5	disturbance (2)	66:15;106:21	employed (1)
development (18)	7:9,10	00.13,100.21	63:7
		E	
40:22;53:12;101:2;102:2,3,	divided (2)	£	employees (1)
14,15;103:11;107:12,17,22;	69:16,16	(10)	63:21
108:2,6,15,20;109:5,9;111:18	division (1)	earlier (10)	encounter (2)
deviated (1)	6:15	20:1;24:9;26:4;29:10;32:3;	88:7;90:21
81:20	Docket (2)	55:17;56:21;65:21;75:25;	encountered (6)
device (1)	6:5;7:13	112:11	23:18,20;84:16,22,24;85:1
6:24	document (7)	earned (1)	encourage (1)
diagram (2)	7:18;72:16,20;99:12,13;	79:14	62:7
83:9,16	100:20;101:8	easier (1)	end (5)
difference (5)	documentation (1)	89:6	15:18;20:24;46:5;80:14,17
49:16,19;81:23;91:11;121:20	105:15	easily (1)	ended (1)
different (15)	Documents (7)	118:2	53:14
9:17;21:25;31:21;34:11;	7:12;72:13;73:15;100:22;		engage (4)
43:2;48:3;50:1,22;53:9;75:16,	101:9,12;112:18	easy (1) 39:22	44:5;51:25;60:17,23
			engaged (3)
17;103:3;114:15,16;117:19	dollar (9)	economic (2)	
diligent (1)	22:10;27:17;35:17,17,24,24;	45:7;117:18	65:4;118:8,13
114:6	36:2,2;40:7	edge (2)	engine (1)
diminution (1)	dollars (14)	88:5,13	72:17
24:11	22:5;27:16;31:7;33:2,3;38:2;	educated (1)	engineer (2)

50:8;61:20	everyone (3)	85:19;86:7,22,24	15:23;65:1
engineering-minded (1)	7:4;78:13;122:16	expand (2)	Fallon (41)
61:25	everyone's (1)	57:13,14	9:19;24:5;28:11,23;34:7;
enough (2)	78:5	expanded (1)	36:25;39:23;44:24;45:13;47:3
58:8;73:2	evidence (24)	120:1	14,17;49:13;50:12;51:8;52:7;
ensure (8)	7:21;8:2,19,22,23,24;10:2,3,	expect (1)	53:3;57:4;79:20;80:6,9;81:1,
7:17;10:21,23;54:25;61:21;	7.21,8.2,19,22,23,24,10.2,3, 7,10,11,14;110:22;111:23;	104:12	12,21;83:7;84:6;85:13,15;
115:18,19;117:21	115:3,22;116:11,13,15,17,17,	expectation (1)	87:16;88:5,13,19;89:3;90:17,
entered (2)	19;117:11;119:4	93:4	18,21;92:19;95:2;98:21;99:4,
23:12;65:24	evidentiary (1)	expense (2)	10,21,92.19,93.2,98.21,99.4,
entering (1)	6:8	16:18;95:21	falls (1)
10:18	exact (4)	expenses (17)	73:24
Enterprises (4)	22:17;23:4;52:14;80:9	17:1;33:5,11,19,20,24;34:4,	familiar (8)
28:11;47:17;90:18,18	exactly (4)	13;35:15;37:6,7;38:22;39:5,8;	13:15;18:8,10;54:11;79:19;
enters (1)	32:24;54:16;84:22;87:25	59:3;60:3;121:24	99:3,6;100:2
86:2	EXAMINATION (11)	experience (24)	familiarity (1)
entire (2)	12:8;55:15;58:20;61:15;	13:2,2,7;18:14,17;19:14;	108:11
18:15;114:23	62:23;76:20;79:1;94:2;98:15;	24:16;26:22;29:22;32:6,9;	Family (1)
entirely (8)	110:16;112:8	36:17;41:9,23;43:5;46:9;53:12,	48:4
114:18,22;115:5,9;117:13,	example (6)	13;89:11,18;94:11;95:4;	far (9)
19,23;118:23	23:7,9;25:7;27:3;77:1;	102:23;104:10	17:16;34:5;56:5;71:14;
entities (5)	106:12	expired (1)	83:17;102:1;115:21;116:24;
36:25;37:2;38:13;40:4;48:8	exceed (1)	17:21	117:6
entitled (4)	36:4	Explain (8)	fashion (1)
59:23;116:9,23;119:5	Excel (1)	16:14;20:8;28:2;32:23;	80:6
entity (2)	119:24	57:13;81:9,23;94:4	fashions (1)
34:12;89:3	excellent (1)	explained (2)	50:22
entries (1)	97:1	37:6;44:17	fault (2)
103:21	exception (2)	explanation (1)	26:17;45:19
equate (1)	20:14;84:16	93:15	fee (1)
35:4	excess (1)	extend (1)	121:17
equipment (4)	19:16	44:18	feet (31)
44:12;50:5;56:21,24	Excuse (2)	extensive (1)	56:13;60:15;80:21;81:16,18,
equivalent (1)	101:7;113:15	53:12	21;82:11,11;83:12,12,18,18,19
	101:7;113:15 executed (5)	53:12 extent (2)	
equivalent (1)	101:7;113:15	53:12	21;82:11,11;83:12,12,18,18,19
equivalent (1) 35:20 errors (1) 21:6	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1)	53:12 extent (2) 58:24;59:15	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25
equivalent (1) 35:20 errors (1) 21:6 essentially (5)	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1) 27:15	53:12 extent (2)	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25 fences (1)
equivalent (1) 35:20 errors (1) 21:6 essentially (5) 19:24;49:22;50:2;87:12;	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1) 27:15 exercising (1)	53:12 extent (2) 58:24;59:15	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25 fences (1) 25:13
equivalent (1) 35:20 errors (1) 21:6 essentially (5) 19:24;49:22;50:2;87:12; 93:23	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1) 27:15 exercising (1) 27:10	53:12 extent (2) 58:24;59:15 F face (2)	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25 fences (1) 25:13 few (7)
equivalent (1) 35:20 errors (1) 21:6 essentially (5) 19:24;49:22;50:2;87:12; 93:23 establish (2)	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1) 27:15 exercising (1) 27:10 exhibit (38)	53:12 extent (2) 58:24;59:15 F face (2) 30:3;116:19	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25 fences (1) 25:13 few (7) 9:4;15:22;51:23;55:14;56:2;
equivalent (1) 35:20 errors (1) 21:6 essentially (5) 19:24;49:22;50:2;87:12; 93:23 establish (2) 85:3;86:14	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1) 27:15 exercising (1) 27:10 exhibit (38) 7:20,24;13:18;14:7,9,19;	53:12 extent (2) 58:24;59:15 F face (2) 30:3;116:19 facilities (1)	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25 fences (1) 25:13 few (7) 9:4;15:22;51:23;55:14;56:2; 60:15;99:7
equivalent (1) 35:20 errors (1) 21:6 essentially (5) 19:24;49:22;50:2;87:12; 93:23 establish (2) 85:3;86:14 established (3)	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1) 27:15 exercising (1) 27:10 exhibit (38) 7:20,24;13:18;14:7,9,19; 15:2,6,13,14,17;16:1;18:6;	53:12 extent (2) 58:24;59:15 F face (2) 30:3;116:19 facilities (1) 60:11	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25 fences (1) 25:13 few (7) 9:4;15:22;51:23;55:14;56:2; 60:15;99:7 field (4)
equivalent (1) 35:20 errors (1) 21:6 essentially (5) 19:24;49:22;50:2;87:12; 93:23 establish (2) 85:3;86:14 established (3) 14:3;15:24;115:8	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1) 27:15 exercising (1) 27:10 exhibit (38) 7:20,24;13:18;14:7,9,19; 15:2,6,13,14,17;16:1;18:6; 20:24;21:13;25:8,9,25;26:20;	53:12 extent (2) 58:24;59:15 F face (2) 30:3;116:19 facilities (1) 60:11 fact (15)	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25 fences (1) 25:13 few (7) 9:4;15:22;51:23;55:14;56:2; 60:15;99:7 field (4) 27:4;79:11;81:14;87:19
equivalent (1) 35:20 errors (1) 21:6 essentially (5) 19:24;49:22;50:2;87:12; 93:23 establish (2) 85:3;86:14 established (3) 14:3;15:24;115:8 establishing (1)	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1) 27:15 exercising (1) 27:10 exhibit (38) 7:20,24;13:18;14:7,9,19; 15:2,6,13,14,17;16:1;18:6; 20:24;21:13;25:8,9,25;26:20; 64:3,3,19;66:2,3;68:6;69:11;	53:12 extent (2) 58:24;59:15 F face (2) 30:3;116:19 facilities (1) 60:11 fact (15) 23:10;24:4;27:15;40:22;	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25 fences (1) 25:13 few (7) 9:4;15:22;51:23;55:14;56:2; 60:15;99:7 field (4) 27:4;79:11;81:14;87:19 field-produced (1)
equivalent (1) 35:20 errors (1) 21:6 essentially (5) 19:24;49:22;50:2;87:12; 93:23 establish (2) 85:3;86:14 established (3) 14:3;15:24;115:8 establishing (1) 10:20	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1) 27:15 exercising (1) 27:10 exhibit (38) 7:20,24;13:18;14:7,9,19; 15:2,6,13,14,17;16:1;18:6; 20:24;21:13;25:8,9,25;26:20; 64:3,3,19;66:2,3;68:6;69:11; 79:22;80:2,5,8;82:13,21;83:4;	53:12 extent (2) 58:24;59:15 F face (2) 30:3;116:19 facilities (1) 60:11 fact (15) 23:10;24:4;27:15;40:22; 64:9;73:13;75:8;80:9;92:22;	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25 fences (1) 25:13 few (7) 9:4;15:22;51:23;55:14;56:2; 60:15;99:7 field (4) 27:4;79:11;81:14;87:19 field-produced (1) 94:21
equivalent (1) 35:20 errors (1) 21:6 essentially (5) 19:24;49:22;50:2;87:12; 93:23 establish (2) 85:3;86:14 established (3) 14:3;15:24;115:8 establishing (1) 10:20 estate (1)	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1) 27:15 exercising (1) 27:10 exhibit (38) 7:20,24;13:18;14:7,9,19; 15:2,6,13,14,17;16:1;18:6; 20:24;21:13;25:8,9,25;26:20; 64:3,3,19;66:2,3;68:6;69:11; 79:22;80:2,5,8;82:13,21;83:4; 85:5,9;92:22;99:14;111:17	53:12 extent (2) 58:24;59:15 F face (2) 30:3;116:19 facilities (1) 60:11 fact (15) 23:10;24:4;27:15;40:22; 64:9;73:13;75:8;80:9;92:22; 116:12,18;118:21;119:16;	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25 fences (1) 25:13 few (7) 9:4;15:22;51:23;55:14;56:2; 60:15;99:7 field (4) 27:4;79:11;81:14;87:19 field-produced (1) 94:21 fields (1)
equivalent (1) 35:20 errors (1) 21:6 essentially (5) 19:24;49:22;50:2;87:12; 93:23 establish (2) 85:3;86:14 established (3) 14:3;15:24;115:8 establishing (1) 10:20 estate (1) 23:3	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1) 27:15 exercising (1) 27:10 exhibit (38) 7:20,24;13:18;14:7,9,19; 15:2,6,13,14,17;16:1;18:6; 20:24;21:13;25:8,9,25;26:20; 64:3,3,19;66:2,3;68:6;69:11; 79:22;80:2,5,8;82:13,21;83:4; 85:5,9;92:22;99:14;111:17 Exhibits (8)	53:12 extent (2) 58:24;59:15 F face (2) 30:3;116:19 facilities (1) 60:11 fact (15) 23:10;24:4;27:15;40:22; 64:9;73:13;75:8;80:9;92:22; 116:12,18;118:21;119:16; 120:16;121:18	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25 fences (1) 25:13 few (7) 9:4;15:22;51:23;55:14;56:2; 60:15;99:7 field (4) 27:4;79:11;81:14;87:19 field-produced (1) 94:21 fields (1) 75:16
equivalent (1) 35:20 errors (1) 21:6 essentially (5) 19:24;49:22;50:2;87:12; 93:23 establish (2) 85:3;86:14 established (3) 14:3;15:24;115:8 establishing (1) 10:20 estate (1) 23:3 estates (3)	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1) 27:15 exercising (1) 27:10 exhibit (38) 7:20,24;13:18;14:7,9,19; 15:2,6,13,14,17;16:1;18:6; 20:24;21:13;25:8,9,25;26:20; 64:3,3,19;66:2,3;68:6;69:11; 79:22;80:2,5,8;82:13,21;83:4; 85:5,9;92:22;99:14;111:17 Exhibits (8) 7:14,16,19;46:14,15;92:1;	53:12 extent (2) 58:24;59:15 F face (2) 30:3;116:19 facilities (1) 60:11 fact (15) 23:10;24:4;27:15;40:22; 64:9;73:13;75:8;80:9;92:22; 116:12,18;118:21;119:16; 120:16;121:18 factor (1)	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25 fences (1) 25:13 few (7) 9:4;15:22;51:23;55:14;56:2; 60:15;99:7 field (4) 27:4;79:11;81:14;87:19 field-produced (1) 94:21 fields (1) 75:16 figure (2)
equivalent (1) 35:20 errors (1) 21:6 essentially (5) 19:24;49:22;50:2;87:12; 93:23 establish (2) 85:3;86:14 established (3) 14:3;15:24;115:8 establishing (1) 10:20 estate (1) 23:3 estates (3) 51:20;52:2;118:10	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1) 27:15 exercising (1) 27:10 exhibit (38) 7:20,24;13:18;14:7,9,19; 15:2,6,13,14,17;16:1;18:6; 20:24;21:13;25:8,9,25;26:20; 64:3,3,19;66:2,3;68:6;69:11; 79:22;80:2,5,8;82:13,21;83:4; 85:5,9;92:22;99:14;111:17 Exhibits (8) 7:14,16,19;46:14,15;92:1; 114:2;120:9	53:12 extent (2) 58:24;59:15 F face (2) 30:3;116:19 facilities (1) 60:11 fact (15) 23:10;24:4;27:15;40:22; 64:9;73:13;75:8;80:9;92:22; 116:12,18;118:21;119:16; 120:16;121:18 factor (1) 41:25	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25 fences (1) 25:13 few (7) 9:4;15:22;51:23;55:14;56:2; 60:15;99:7 field (4) 27:4;79:11;81:14;87:19 field-produced (1) 94:21 fields (1) 75:16 figure (2) 72:13;121:22
equivalent (1) 35:20 errors (1) 21:6 essentially (5) 19:24;49:22;50:2;87:12; 93:23 establish (2) 85:3;86:14 established (3) 14:3;15:24;115:8 establishing (1) 10:20 estate (1) 23:3 estates (3) 51:20;52:2;118:10 et (4)	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1) 27:15 exercising (1) 27:10 exhibit (38) 7:20,24;13:18;14:7,9,19; 15:2,6,13,14,17;16:1;18:6; 20:24;21:13;25:8,9,25;26:20; 64:3,3,19;66:2,3;68:6;69:11; 79:22;80:2,5,8;82:13,21;83:4; 85:5,9;92:22;99:14;111:17 Exhibits (8) 7:14,16,19;46:14,15;92:1; 114:2;120:9 exist (1)	53:12 extent (2) 58:24;59:15 F face (2) 30:3;116:19 facilities (1) 60:11 fact (15) 23:10;24:4;27:15;40:22; 64:9;73:13;75:8;80:9;92:22; 116:12,18;118:21;119:16; 120:16;121:18 factor (1) 41:25 factors (5)	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25 fences (1) 25:13 few (7) 9:4;15:22;51:23;55:14;56:2; 60:15;99:7 field (4) 27:4;79:11;81:14;87:19 field-produced (1) 94:21 fields (1) 75:16 figure (2) 72:13;121:22 file (1)
equivalent (1) 35:20 errors (1) 21:6 essentially (5) 19:24;49:22;50:2;87:12; 93:23 establish (2) 85:3;86:14 established (3) 14:3;15:24;115:8 establishing (1) 10:20 estate (1) 23:3 estates (3) 51:20;52:2;118:10 et (4) 22:20,20;83:19;84:3	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1) 27:15 exercising (1) 27:10 exhibit (38) 7:20,24;13:18;14:7,9,19; 15:2,6,13,14,17;16:1;18:6; 20:24;21:13;25:8,9,25;26:20; 64:3,3,19;66:2,3;68:6;69:11; 79:22;80:2,5,8;82:13,21;83:4; 85:5,9;92:22;99:14;111:17 Exhibits (8) 7:14,16,19;46:14,15;92:1; 114:2;120:9 exist (1) 118:21	53:12 extent (2) 58:24;59:15 F face (2) 30:3;116:19 facilities (1) 60:11 fact (15) 23:10;24:4;27:15;40:22; 64:9;73:13;75:8;80:9;92:22; 116:12,18;118:21;119:16; 120:16;121:18 factor (1) 41:25 factors (5) 8:4,6,10;52:25;117:11	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25 fences (1) 25:13 few (7) 9:4;15:22;51:23;55:14;56:2; 60:15;99:7 field (4) 27:4;79:11;81:14;87:19 field-produced (1) 94:21 fields (1) 75:16 figure (2) 72:13;121:22 file (1) 119:24
equivalent (1) 35:20 errors (1) 21:6 essentially (5) 19:24;49:22;50:2;87:12; 93:23 establish (2) 85:3;86:14 established (3) 14:3;15:24;115:8 establishing (1) 10:20 estate (1) 23:3 estates (3) 51:20;52:2;118:10 et (4) 22:20,20;83:19;84:3 evaluating (1)	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1) 27:15 exercising (1) 27:10 exhibit (38) 7:20,24;13:18;14:7,9,19; 15:2,6,13,14,17;16:1;18:6; 20:24;21:13;25:8,9,25;26:20; 64:3,3,19;66:2,3;68:6;69:11; 79:22;80:2,5,8;82:13,21;83:4; 85:5,9;92:22;99:14;111:17 Exhibits (8) 7:14,16,19;46:14,15;92:1; 114:2;120:9 exist (1) 118:21 existence (2)	53:12 extent (2) 58:24;59:15 F face (2) 30:3;116:19 facilities (1) 60:11 fact (15) 23:10;24:4;27:15;40:22; 64:9;73:13;75:8;80:9;92:22; 116:12,18;118:21;119:16; 120:16;121:18 factor (1) 41:25 factors (5) 8:4,6,10;52:25;117:11 failing (1)	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25 fences (1) 25:13 few (7) 9:4;15:22;51:23;55:14;56:2; 60:15;99:7 field (4) 27:4;79:11;81:14;87:19 field-produced (1) 94:21 fields (1) 75:16 figure (2) 72:13;121:22 file (1) 119:24 filed (10)
equivalent (1) 35:20 errors (1) 21:6 essentially (5) 19:24;49:22;50:2;87:12; 93:23 establish (2) 85:3;86:14 established (3) 14:3;15:24;115:8 establishing (1) 10:20 estate (1) 23:3 estates (3) 51:20;52:2;118:10 et (4) 22:20,20;83:19;84:3 evaluating (1) 119:17	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1) 27:15 exercising (1) 27:10 exhibit (38) 7:20,24;13:18;14:7,9,19; 15:2,6,13,14,17;16:1;18:6; 20:24;21:13;25:8,9,25;26:20; 64:3,3,19;66:2,3;68:6;69:11; 79:22;80:2,5,8;82:13,21;83:4; 85:5,9;92:22;99:14;111:17 Exhibits (8) 7:14,16,19;46:14,15;92:1; 114:2;120:9 exist (1) 118:21 existence (2) 116:4,5	53:12 extent (2) 58:24;59:15 F face (2) 30:3;116:19 facilities (1) 60:11 fact (15) 23:10;24:4;27:15;40:22; 64:9;73:13;75:8;80:9;92:22; 116:12,18;118:21;119:16; 120:16;121:18 factor (1) 41:25 factors (5) 8:4,6,10;52:25;117:11 failing (1) 18:2	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25 fences (1) 25:13 few (7) 9:4;15:22;51:23;55:14;56:2; 60:15;99:7 field (4) 27:4;79:11;81:14;87:19 field-produced (1) 94:21 fields (1) 75:16 figure (2) 72:13;121:22 file (1) 119:24 filed (10) 13:16;14:23;67:23;68:7;
equivalent (1) 35:20 errors (1) 21:6 essentially (5) 19:24;49:22;50:2;87:12; 93:23 establish (2) 85:3;86:14 established (3) 14:3;15:24;115:8 establishing (1) 10:20 estate (1) 23:3 estates (3) 51:20;52:2;118:10 et (4) 22:20,20;83:19;84:3 evaluating (1) 119:17 Eve (2)	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1) 27:15 exercising (1) 27:10 exhibit (38) 7:20,24;13:18;14:7,9,19; 15:2,6,13,14,17;16:1;18:6; 20:24;21:13;25:8,9,25;26:20; 64:3,3,19;66:2,3;68:6;69:11; 79:22;80:2,5,8;82:13,21;83:4; 85:5,9;92:22;99:14;111:17 Exhibits (8) 7:14,16,19;46:14,15;92:1; 114:2;120:9 exist (1) 118:21 existence (2) 116:4,5 existing (14)	53:12 extent (2) 58:24;59:15 F face (2) 30:3;116:19 facilities (1) 60:11 fact (15) 23:10;24:4;27:15;40:22; 64:9;73:13;75:8;80:9;92:22; 116:12,18;118:21;119:16; 120:16;121:18 factor (1) 41:25 factors (5) 8:4,6,10;52:25;117:11 failing (1) 18:2 failure (2)	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25 fences (1) 25:13 few (7) 9:4;15:22;51:23;55:14;56:2; 60:15;99:7 field (4) 27:4;79:11;81:14;87:19 field-produced (1) 94:21 fields (1) 75:16 figure (2) 72:13;121:22 file (1) 119:24 filed (10) 13:16;14:23;67:23;68:7; 80:11;92:23,23,25;110:24;
equivalent (1) 35:20 errors (1) 21:6 essentially (5) 19:24;49:22;50:2;87:12; 93:23 establish (2) 85:3;86:14 established (3) 14:3;15:24;115:8 establishing (1) 10:20 estate (1) 23:3 estates (3) 51:20;52:2;118:10 et (4) 22:20,20;83:19;84:3 evaluating (1) 119:17 Eve (2) 55:25,25	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1) 27:15 exercising (1) 27:10 exhibit (38) 7:20,24;13:18;14:7,9,19; 15:2,6,13,14,17;16:1;18:6; 20:24;21:13;25:8,9,25;26:20; 64:3,3,19;66:2,3;68:6;69:11; 79:22;80:2,5,8;82:13,21;83:4; 85:5,9;92:22;99:14;111:17 Exhibits (8) 7:14,16,19;46:14,15;92:1; 114:2;120:9 exist (1) 118:21 existence (2) 116:4,5 existing (14) 9:19;15:20;28:8,17;31:5;	53:12 extent (2) 58:24;59:15 F face (2) 30:3;116:19 facilities (1) 60:11 fact (15) 23:10;24:4;27:15;40:22; 64:9;73:13;75:8;80:9;92:22; 116:12,18;118:21;119:16; 120:16;121:18 factor (1) 41:25 factors (5) 8:4,6,10;52:25;117:11 failing (1) 18:2 failure (2) 53:2;117:24	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25 fences (1) 25:13 few (7) 9:4;15:22;51:23;55:14;56:2; 60:15;99:7 field (4) 27:4;79:11;81:14;87:19 field-produced (1) 94:21 fields (1) 75:16 figure (2) 72:13;121:22 file (1) 119:24 filed (10) 13:16;14:23;67:23;68:7; 80:11;92:23,23,25;110:24; 119:20
equivalent (1) 35:20 errors (1) 21:6 essentially (5) 19:24;49:22;50:2;87:12; 93:23 establish (2) 85:3;86:14 established (3) 14:3;15:24;115:8 establishing (1) 10:20 estate (1) 23:3 estates (3) 51:20;52:2;118:10 et (4) 22:20,20;83:19;84:3 evaluating (1) 119:17 Eve (2) 55:25,25 Even (5)	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1) 27:15 exercising (1) 27:10 exhibit (38) 7:20,24;13:18;14:7,9,19; 15:2,6,13,14,17;16:1;18:6; 20:24;21:13;25:8,9,25;26:20; 64:3,3,19;66:2,3;68:6;69:11; 79:22;80:2,5,8;82:13,21;83:4; 85:5,9;92:22;99:14;111:17 Exhibits (8) 7:14,16,19;46:14,15;92:1; 114:2;120:9 exist (1) 118:21 existence (2) 116:4,5 existing (14) 9:19;15:20;28:8,17;31:5; 45:22;54:13;61:5;77:9,14;	53:12 extent (2) 58:24;59:15 F face (2) 30:3;116:19 facilities (1) 60:11 fact (15) 23:10;24:4;27:15;40:22; 64:9;73:13;75:8;80:9;92:22; 116:12,18;118:21;119:16; 120:16;121:18 factor (1) 41:25 factors (5) 8:4,6,10;52:25;117:11 failing (1) 18:2 failure (2) 53:2;117:24 fair (2)	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25 fences (1) 25:13 few (7) 9:4;15:22;51:23;55:14;56:2; 60:15;99:7 field (4) 27:4;79:11;81:14;87:19 field-produced (1) 94:21 fields (1) 75:16 figure (2) 72:13;121:22 file (1) 119:24 filed (10) 13:16;14:23;67:23;68:7; 80:11;92:23,23,25;110:24; 119:20 filing (2)
equivalent (1) 35:20 errors (1) 21:6 essentially (5) 19:24;49:22;50:2;87:12; 93:23 establish (2) 85:3;86:14 established (3) 14:3;15:24;115:8 establishing (1) 10:20 estate (1) 23:3 estates (3) 51:20;52:2;118:10 et (4) 22:20,20;83:19;84:3 evaluating (1) 119:17 Eve (2) 55:25,25 Even (5) 36:10;41:15;45:21;95:22;	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1) 27:15 exercising (1) 27:10 exhibit (38) 7:20,24;13:18;14:7,9,19; 15:2,6,13,14,17;16:1;18:6; 20:24;21:13;25:8,9,25;26:20; 64:3,3,19;66:2,3;68:6;69:11; 79:22;80:2,5,8;82:13,21;83:4; 85:5,9;92:22;99:14;111:17 Exhibits (8) 7:14,16,19;46:14,15;92:1; 114:2;120:9 exist (1) 118:21 existence (2) 116:4,5 existing (14) 9:19;15:20;28:8,17;31:5; 45:22;54:13;61:5;77:9,14; 79:19;81:17;96:23;115:8	53:12 extent (2) 58:24;59:15 F face (2) 30:3;116:19 facilities (1) 60:11 fact (15) 23:10;24:4;27:15;40:22; 64:9;73:13;75:8;80:9;92:22; 116:12,18;118:21;119:16; 120:16;121:18 factor (1) 41:25 factors (5) 8:4,6,10;52:25;117:11 failing (1) 18:2 failure (2) 53:2;117:24 fair (2) 39:20;58:8	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25 fences (1) 25:13 few (7) 9:4;15:22;51:23;55:14;56:2; 60:15;99:7 field (4) 27:4;79:11;81:14;87:19 field-produced (1) 94:21 fields (1) 75:16 figure (2) 72:13;121:22 file (1) 119:24 filed (10) 13:16;14:23;67:23;68:7; 80:11;92:23,23,25;110:24; 119:20 filing (2) 76:4,7
equivalent (1) 35:20 errors (1) 21:6 essentially (5) 19:24;49:22;50:2;87:12; 93:23 establish (2) 85:3;86:14 established (3) 14:3;15:24;115:8 establishing (1) 10:20 estate (1) 23:3 estates (3) 51:20;52:2;118:10 et (4) 22:20,20;83:19;84:3 evaluating (1) 119:17 Eve (2) 55:25,25 Even (5) 36:10;41:15;45:21;95:22; 115:6	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1) 27:15 exercising (1) 27:10 exhibit (38) 7:20,24;13:18;14:7,9,19; 15:2,6,13,14,17;16:1;18:6; 20:24;21:13;25:8,9,25;26:20; 64:3,3,19;66:2,3;68:669:11; 79:22;80:2,5,8;82:13,21;83:4; 85:5,9;92:22;99:14;111:17 Exhibits (8) 7:14,16,19;46:14,15;92:1; 114:2;120:9 exist (1) 118:21 existence (2) 116:4,5 existing (14) 9:19;15:20;28:8,17;31:5; 45:22;54:13;61:5;77:9,14; 79:19;81:17;96:23;115:8 exists (2)	53:12 extent (2) 58:24;59:15 F face (2) 30:3;116:19 facilities (1) 60:11 fact (15) 23:10;24:4;27:15;40:22; 64:9;73:13;75:8;80:9;92:22; 116:12,18;118:21;119:16; 120:16;121:18 factor (1) 41:25 factors (5) 8:4,6,10;52:25;117:11 failing (1) 18:2 failure (2) 53:2;117:24 fair (2) 39:20;58:8 fairly (2)	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25 fences (1) 25:13 few (7) 9:4;15:22;51:23;55:14;56:2; 60:15;99:7 field (4) 27:4;79:11;81:14;87:19 field-produced (1) 94:21 fields (1) 75:16 figure (2) 72:13;121:22 file (1) 119:24 filed (10) 13:16;14:23;67:23;68:7; 80:11;92:23,23,25;110:24; 119:20 filing (2) 76:4,7 filled (1)
equivalent (1) 35:20 errors (1) 21:6 essentially (5) 19:24;49:22;50:2;87:12; 93:23 establish (2) 85:3;86:14 established (3) 14:3;15:24;115:8 establishing (1) 10:20 estate (1) 23:3 estates (3) 51:20;52:2;118:10 et (4) 22:20,20;83:19;84:3 evaluating (1) 119:17 Eve (2) 55:25,25 Even (5) 36:10;41:15;45:21;95:22; 115:6 event (3)	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1) 27:15 exercising (1) 27:10 exhibit (38) 7:20,24;13:18;14:7,9,19; 15:2,6,13,14,17;16:1;18:6; 20:24;21:13;25:8,9,25;26:20; 64:3,3,19;66:2,3;68:6;69:11; 79:22;80:2,5,8;82:13,21;83:4; 85:5,9;92:22;99:14;111:17 Exhibits (8) 7:14,16,19;46:14,15;92:1; 114:2;120:9 exist (1) 118:21 existence (2) 116:4,5 existing (14) 9:19;15:20;28:8,17;31:5; 45:22;54:13;61:5;77:9,14; 79:19;81:17;96:23;115:8 exists (2) 28:23;42:22	53:12 extent (2) 58:24;59:15 F face (2) 30:3;116:19 facilities (1) 60:11 fact (15) 23:10;24:4;27:15;40:22; 64:9;73:13;75:8;80:9;92:22; 116:12,18;118:21;119:16; 120:16;121:18 factor (1) 41:25 factors (5) 8:4,6,10;52:25;117:11 failing (1) 18:2 failure (2) 53:2;117:24 fair (2) 39:20;58:8 fairly (2) 80:5;84:21	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25 fences (1) 25:13 few (7) 9:4;15:22;51:23;55:14;56:2; 60:15;99:7 field (4) 27:4;79:11;81:14;87:19 field-produced (1) 94:21 fields (1) 75:16 figure (2) 72:13;121:22 file (1) 119:24 filed (10) 13:16;14:23;67:23;68:7; 80:11;92:23,23,25;110:24; 119:20 filing (2) 76:4,7 filled (1) 66:10
equivalent (1) 35:20 errors (1) 21:6 essentially (5) 19:24;49:22;50:2;87:12; 93:23 establish (2) 85:3;86:14 established (3) 14:3;15:24;115:8 establishing (1) 10:20 estate (1) 23:3 estates (3) 51:20;52:2;118:10 et (4) 22:20,20;83:19;84:3 evaluating (1) 119:17 Eve (2) 55:25,25 Even (5) 36:10;41:15;45:21;95:22; 115:6 event (3) 53:2;65:24;117:24	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1) 27:15 exercising (1) 27:10 exhibit (38) 7:20,24;13:18;14:7,9,19; 15:2,6,13,14,17;16:1;18:6; 20:24;21:13;25:8,9,25;26:20; 64:3,3,19;66:2,3;68:6;69:11; 79:22;80:2,5,8;82:13,21;83:4; 85:5,9;92:22;99:14;111:17 Exhibits (8) 7:14,16,19;46:14,15;92:1; 114:2;120:9 exist (1) 118:21 existence (2) 116:4,5 existing (14) 9:19;15:20;28:8,17;31:5; 45:22;54:13;61:5;77:9,14; 79:19;81:17;96:23;115:8 exists (2) 28:23;42:22 exit (1)	53:12 extent (2) 58:24;59:15 F face (2) 30:3;116:19 facilities (1) 60:11 fact (15) 23:10;24:4;27:15;40:22; 64:9;73:13;75:8;80:9;92:22; 116:12,18;118:21;119:16; 120:16;121:18 factor (1) 41:25 factors (5) 8:4,6,10;52:25;117:11 failing (1) 18:2 failure (2) 53:2;117:24 fair (2) 39:20;58:8 fairly (2) 80:5;84:21 faith (1)	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25 fences (1) 25:13 few (7) 9:4;15:22;51:23;55:14;56:2; 60:15;99:7 field (4) 27:4;79:11;81:14;87:19 field-produced (1) 94:21 fields (1) 75:16 figure (2) 72:13;121:22 file (1) 119:24 filed (10) 13:16;14:23;67:23;68:7; 80:11;92:23,23,25;110:24; 119:20 filing (2) 76:4,7 filled (1) 66:10 finally (1)
equivalent (1) 35:20 errors (1) 21:6 essentially (5) 19:24;49:22;50:2;87:12; 93:23 establish (2) 85:3;86:14 established (3) 14:3;15:24;115:8 establishing (1) 10:20 estate (1) 23:3 estates (3) 51:20;52:2;118:10 et (4) 22:20,20;83:19;84:3 evaluating (1) 119:17 Eve (2) 55:25,25 Even (5) 36:10;41:15;45:21;95:22; 115:6 event (3)	101:7;113:15 executed (5) 102:7,14;104:8,13;111:4 exercise (1) 27:15 exercising (1) 27:10 exhibit (38) 7:20,24;13:18;14:7,9,19; 15:2,6,13,14,17;16:1;18:6; 20:24;21:13;25:8,9,25;26:20; 64:3,3,19;66:2,3;68:6;69:11; 79:22;80:2,5,8;82:13,21;83:4; 85:5,9;92:22;99:14;111:17 Exhibits (8) 7:14,16,19;46:14,15;92:1; 114:2;120:9 exist (1) 118:21 existence (2) 116:4,5 existing (14) 9:19;15:20;28:8,17;31:5; 45:22;54:13;61:5;77:9,14; 79:19;81:17;96:23;115:8 exists (2) 28:23;42:22	53:12 extent (2) 58:24;59:15 F face (2) 30:3;116:19 facilities (1) 60:11 fact (15) 23:10;24:4;27:15;40:22; 64:9;73:13;75:8;80:9;92:22; 116:12,18;118:21;119:16; 120:16;121:18 factor (1) 41:25 factors (5) 8:4,6,10;52:25;117:11 failing (1) 18:2 failure (2) 53:2;117:24 fair (2) 39:20;58:8 fairly (2) 80:5;84:21	21;82:11,11;83:12,12,18,18,19 84:17,20,23;85:14,17,20,22; 87:8;88:8;90:22;91:4,5,15,17; 92:20,21;93:4,25 fences (1) 25:13 few (7) 9:4;15:22;51:23;55:14;56:2; 60:15;99:7 field (4) 27:4;79:11;81:14;87:19 field-produced (1) 94:21 fields (1) 75:16 figure (2) 72:13;121:22 file (1) 119:24 filed (10) 13:16;14:23;67:23;68:7; 80:11;92:23,23,25;110:24; 119:20 filing (2) 76:4,7 filled (1) 66:10

Snake River Oil and Gas, LLC			September 16, 2021
97.5.101.1 2 5 10.102.16.	111:23	gather (1)	34:21,23;55:18,24;80:18
87:5;101:1,3,5,19;102:16; 103:5,21,25;110:23	foundation (6)	59:20	
			Hall (1) 6:7
finding (1) 107:7	52:21;73:8;104:16;109:12;	gathering (4)	hands (1)
	114:19;115:6	56:23,23;57:23;89:8	
fine (1)	four (3)	general (2)	28:15
19:2	48:21;65:23;96:7	94:4;99:3	hanging (1)
firm (1)	fracked (1)	generally (6)	91:14
11:7	95:16	16:14;22:1,5;63:10,11;	happen (9)
first (16)	fracking (1)	106:24	28:7;40:14;50:14;52:11;
8:19;11:23;12:4;13:24;14:7;	118:13	gentleman (2)	54:8,22,22;56:6;100:8
33:23;34:24;35:10;46:1;55:18,	fracture (1)	57:4;72:10	happening (1)
24;62:19;78:21;85:23;98:11;	51:7	geologist (5)	53:23
111:7	fractured (1)	9:18;50:9;79:10;94:11,12	happy (1)
five (2)	95:11	Geology (2)	115:2
8:17;22:3	fracturing (4)	79:14,16	hard (1)
flip (1)	50:24;51:4;95:12,14	geophysical (1)	86:13
64:19	free (3)	79:16	harder (1)
flipping (1)	59:11;98:2;112:21	gets (2)	74:3
20:25	front (5)	33:7;42:10	harm (1)
floor (3)	15:19;46:14;47:9;87:9;99:16	given (8)	27:11
82:10;91:19,20	frontier (2)	30:17;57:5;65:12;76:1;	harmed (1)
flow (1)	86:9;93:5	116:6;117:4,5;118:3	37:14
89:7	frozen (1)	goes (9)	harmless (2)
flowed (1)	90:5	33:25;49:21;56:17;74:13,14;	26:1,9
87:12	Fruitland (10)	84:19;85:15;86:17;87:1	Harmon (1)
fluids (2)	6:7,7;8:16,22;11:5;48:5;86:1,	go-forward (1)	56:16
96:9,10	22,24;98:19	60:2	hay (2)
focusing (1)	Fugate (11)	Good (17)	27:5,6
74:23	98:9,10,17;105:17;106:3;	6:4;11:16;23:9;85:3;86:14;	head (3)
folks (2)	110:11,18;112:7,20;115:2;	88:24;89:5;95:5,18,19;96:11;	54:14;96:19;103:3
38:12;112:14	116:12	97:1,2,6;106:3,4;114:5	heads (1)
follow (2)	F-u-g-a-t-e (1)	Gotcha (1)	67:10
39:19;86:5	105:21	59:18	hear (7)
followed (2)	Fugate's (2)	govern (1)	8:19;38:19;40:16;80:1;90:3,
8:20,22	114:17;115:5	17:1	11;106:15
6.20,22 following (1)	fulfil (1)	GOZZA (1)	heard (1)
71:13	8:7	19:5	107:7
follows (5)	fulfilled (1)	Gozzo (7)	HEARING (102)
8:18;12:5;62:20;78:22;98:12	120:16		
6.16,12.3,02.20,78.22,98.12 follow-up (2)	full (1)	7:22,23;78:6,8,11,12;122:23 grab (1)	6:4,8,17,20,21,22,24;7:2,21; 8:2,18;9:22;10:25;11:3,12,19;
58:13;62:5	34:19	91:18	12:1,6;19:9;22:16;24:9;26:4;
follow-ups (1)	function (4)	gradually (2)	32:3,18;42:25;46:18,22;47:8;
98:1	20:20;25:20;30:24,25	81:19;85:14	48:20;49:1;52:22;53:7;55:4,7,
folly (1)	further (5)	granted (3)	9,13,16;58:14;61:11,16;62:6,
117:1	76:5;108:1;112:23;113:9;	9:21;77:2;115:13	11,13,16,21;67:14,16,19;69:6;
footing (1)	119:3	great (1)	70:3,7;73:10,19;76:10,13,16;
20:13	future (9)	39:20	78:1,8,12,18,23;79:4,24;88:9,
form (34)	27:11;28:7;38:22;40:6;	greater (6)	11;89:23;90:5;92:8;93:10;
16:6,10,11;17:5,5;18:5,6,10,	44:25;50:14;95:3;96:3,20	22:13;37:22;39:18;91:22,23,	94:6;97:18,22,25;98:5,13;
12,20,21;19:14,21,22,24;20:6,	- C	23	104:17;105:20,22;107:3;
9,10,11;21:9,14;22:16;23:15,	G	ground (10)	109:13;110:3,8,12;111:7;
20,23;24:1,6;25:3,25;27:1;		53:15,16,20;70:16;72:24;	112:4,9,20,25;113:4,8,19;
32:4;50:18;66:5,9	garbled (1)	74:9,11,14;114:21;118:18	115:14;117:6;119:7,11;120:23;
former (1)	93:11	group (1)	121:3;122:7,12,15,20,21
90:18	Gas (30)	35:10	held (1)
forms (3)	6:17;8:15;9:9,13,15,16;	guarantee (1)	52:12
24:2;50:22;114:10	12:19;18:14;19:23;24:12;	118:11	help (1)
forth (4)	42:15;51:4;53:12,14,21;63:5,9;	guess (6)	94:14
32:4,10;106:25;113:5	70:18;79:10,17;87:10,12;	19:3,12;56:7;69:19,23;106:3	helped (2)
forward (4)	102:8;104:23;105:16;106:21;		72:6,7
109:5;113:2;117:20;120:2	112:19;113:14;119:20;120:2	H	helping (1)
found (6)	Gas's (1)		61:12
8:12;87:9;100:12;102:6,8;	35:3	half (5)	Here's (1)
		` '	

67:13	52:17	49.14.65.12.66.0.60.14.100.25	integrated (9)
Hicks (1)	hydraulic (3)	48:14;65:13;66:9;69:14;100:25 includes (1)	17:6;18:1;30:11,14,18;58:25;
		* *	
48:4	50:24;51:3,7	64:9	89:15,19;115:11
Hicks' (2)	hydrocarbon (1)	Including (5)	integration (29)
86:20;87:2	96:2	13:9,10,12;73:21;118:16	8:4,6;10:18;13:15,20;16:8;
high (2)	T	increase (1)	23:10,12;24:5,20,25;26:15;
41:23;82:9	I	35:12	27:18;29:19;32:13;40:20;57:6
higher (1)		indeed (3)	9;58:3,7;67:23;77:21;99:14;
117:15	Idaho (31)	10:23;41:3;116:8	114:4,9;116:25;117:2;119:17
highest (2)	6:7,9,14,18;8:8,12,23;11:13,	indemnification (1)	120:19
67:21,25	17;13:9,10;20:22;21:15;22:2;	26:5	integrations (5)
highly (2)	26:21,25;29:24;32:14;34:11;	indemnify (1)	17:14;19:21,23;20:1;32:14
44:13,14	42:6;43:11;45:14;51:4;59:20;	26:1	Integrity (1)
high-quality (3)	63:12;114:3;115:18;116:4;	independent (1)	98:24
95:14,18;96:4	119:19;121:16,21	116:8	intend (2)
Highway (7)	IDAPA (1)	indicate (4)	9:14;10:10
48:19;56:12;69:20,22;71:8,	6:23	9:5;10:12;42:22;104:7	intended (1)
19;100:6	idea (4)	indicated (4)	93:2
hit (2)	54:1;68:22;71:11;96:11	83:8;87:15;91:3;94:3	intention (1)
93:2,3	ideally (1)	indicates (4)	90:24
	97:3		
hold (5)		8:2;10:3;116:19;117:12	interest (59)
26:1,9;46:19;52:6;122:17	identifiable (1)	indicating (1)	16:12,14;17:18;18:22,25;
hole (10)	115:24	105:2	20:10,13,15;23:11;29:8,9,11,
41:6,11;47:4;61:1,23;80:16,	identified (5)	indication (2)	15,23;30:6;31:1,16,16,16;
21;84:10;85:1;94:18	15:7;72:21;85:24;86:2;103:3	83:17;118:7	33:15,22;34:18,21,23,24;35:12
home (3)	identify (3)	individual (2)	15,16,19;36:2,6,12;37:13,18,
69:16;74:10,11	11:21,22;85:8	52:16;101:13	20,25;38:3,6,13,16,23;39:1,2,
homeowners (3)	IDL (2)	indulge (1)	18,23,25;40:1,4,11;41:20;
70:11;107:24;117:22	8:16;14:24	122:8	55:18;59:22,22;60:1;65:18;
homes (11)	III (4)	industry (4)	68:21;112:16;122:9,10
69:15;70:17,18;71:15;73:3;	9:15;62:15,18;63:2	18:14,18;23:24;24:16	interests (1)
89:9;102:24;103:1,8,12;107:19	illustrate (3)	inform (1)	38:15
homesteads (1)	15:19;64:24,25	43:7	interval (2)
52:16	illustration (1)	information (9)	87:6;88:2
hook (2)	82:25	45:6;66:10;74:18;75:8;93:8;	intervals (1)
89:7,8	imaginary (1)	105:11;114:2;120:8,10	87:15
	64:16		
hooked (1)		informed (1)	into (14)
87:25	imagine (2)	105:9	35:20,21;38:16;51:12,15;
hope (1)	82:7;91:18	initial (1)	69:16;93:17,18;94:22;103:11,
27:23	impact (1)	36:1	12;113:15;114:21;118:17
horizontal (7)	31:15	initially (4)	introduce (1)
49:17,21,22,22;50:3,7;118:6	imposed (1)	35:25;39:13,15;77:4	11:11
horizontally (3)	24:25	inject (1)	intrusive (1)
30:8;49:25;89:13	imposing (1)	94:22	89:1
horses (1)	32:25	injecting (2)	invest (2)
74:10	impossible (2)	51:12,14	38:10,14
hours (4)	44:14,15	injection (1)	invested (1)
29:3;87:24;96:8,8	improvements (1)	118:17	30:25
house (3)	25:14	inner (1)	investment (4)
23:7,8;60:15	inadequate (1)	30:18	30:22;35:9,13,18
housekeeping (1)	117:14	inside (3)	investor (1)
6:18	Inc (1)	65:14;81:17;98:20	39:2
	102:16		
houses (1)		instance (6)	investors (1)
103:14	inclination (8)	17:5;27:3;33:3,25;45:4;	16:16
Houston (1)	49:23;82:5,6,12;84:1;91:23;	61:21	involve (2)
79:7	92:10,14	instances (2)	51:11,14
huge (5)	inclined (1)	93:9;97:4	involved (7)
37:25;121:20,24;122:1,5	84:2	instead (1)	19:13;41:14;52:6;56:8;72:4;
hundred (12)	include (5)	115:25	99:8;106:19
21:18;22:5,10;27:16,17;	22:13;57:5;59:25;72:24;	instructed (1)	involving (1)
39:21,22;40:5,7;56:14;60:15;	77:21	67:8	10:18
93:4	included (9)	insufficient (1)	Irrespective (1)
hundreds (1)	14:16;15:15;26:19;33:7;	115:6	114:25
	,		

			September 16, 2021
isopach (3)	land (11)	10:5,14;17:23;18:2,4;25:17;	27:21;109:22
88:10,14;90:22	27:15;48:4;73:13,15;74:23;	28:9;31:17;43:19;47:24;49:8;	limit (6)
issue (6)	90:19;93:18;101:24;106:9;	51:21;52:2;57:10;58:4;65:8;	7:5;26:11;33:19;60:16;
10:6;22:9;79:20;114:17;	121:25;122:1	66:15;68:23;70:17;71:11,22,	109:4;113:12
115:6;122:18	landman (11)	24;72:1,2,3,14;73:2;74:20,25;	limitation (1)
issued (3)	12:24,25;13:2;23:20;42:17;	75:9,10;85:16,16;100:19,21;	26:5
24:4;51:24;56:10	43:6;49:9;63:4,8;71:1;74:19	105:10,13;108:6,18,25;109:6,8,	limitations (2)
issues (5)	landmen (7)	17;114:8;115:1;116:21,22	30:2;47:12
26:24;61:8,14,18;106:9	9:16;18:7;63:22;103:18;	leases (49)	limited (2)
	104:5,6;111:17	13:3;21:14,25;22:8,9,12,21;	8:17;96:22
J	Lands (14)	26:20,21;42:7,8,14,15;43:8,11,	limits (1)
	8:12,24;10:2,5,15;11:14,17;	15;68:3;70:2,11,23,24;71:3;	99:24
James (2)	46:14,15,23;49:6;104:23;	73:14;76:7;77:14,18;94:5;	line (15)
50:21;57:4	115:18;119:16	101:2,15,19,21;102:6,8,10,13,	48:15;53:9;59:20;64:16,17,
JOA (2)	Lands' (1)	17;103:6,9;104:4,8,12;110:19;	25;69:24,24,25;70:1;80:14,17;
20:18;34:3	48:2	111:15,22,24;115:23;116:13;	81:25;89:7;94:19
job (1)	land's (1)	119:19,20	lines (4)
115:18	69:16	leasing (7)	56:23,24;57:23;94:18
John (1) 80:11	landscape (1) 21:1	13:13;63:15;65:4;68:13; 76:1;103:19,22	liquidation (1) 34:18
joint (7)	language (1)	least (12)	listed (4)
16:6,22;18:5;19:14;32:4,10;	22:21	31:12;60:5;82:25;102:4;	15:23;66:13,24;105:5
114:10	large (5)	114:7;116:13;117:1,3,7;118:1,	listened (1)
Joy (1)	35:13;52:13,15;88:22,25	25;120:3	68:16
11:16	larger (2)	leave (1)	lists (1)
Julie (2)	77:3;108:25	67:2	7:15
98:9,10	Larry (1)	leaves (2)	little (17)
July (1)	57:4	55:1;118:15	40:14;50:2,7;54:7;56:17;
8:11	last (5)	left (9)	61:24;71:17;79:11;80:19;82:5;
jurisdictions (1)	38:25;41:13;65:23;82:21;	16:2;27:13;80:20;81:2;83:9,	83:19,25;87:9,12;92:3;99:23;
115:11	88:9	15,17;116:4,4	113:1
K	later (2) 62:10;116:17	legal (2) 13:23;117:1	live (4) 90:6;98:17,18;121:10
N	h/:10:11b:1/	1 3 2 3 1 1 7 1	
-	lateral (3)	length (1)	livestock (1)
keep (8)	lateral (3) 85:20;93:23,24	length (1) 36:23	livestock (1) 25:13
keep (8) 20:25;21:1;61:1;78:6;89:5;	lateral (3) 85:20;93:23,24 latter (1)	length (1) 36:23 lengthy (1)	livestock (1) 25:13 LLC (2)
keep (8) 20:25;21:1;61:1;78:6;89:5; 95:2;106:25;113:24	lateral (3) 85:20;93:23,24 latter (1) 59:10	length (1) 36:23 lengthy (1) 75:17	livestock (1) 25:13 LLC (2) 9:13;12:19
keep (8) 20:25;21:1;61:1;78:6;89:5; 95:2;106:25;113:24 keyed (1)	lateral (3) 85:20;93:23,24 latter (1)	length (1) 36:23 lengthy (1) 75:17 Leroy (11)	livestock (1) 25:13 LLC (2) 9:13;12:19 locate (1)
keep (8) 20:25;21:1;61:1;78:6;89:5; 95:2;106:25;113:24	lateral (3) 85:20;93:23,24 latter (1) 59:10 law (4)	length (1) 36:23 lengthy (1) 75:17	livestock (1) 25:13 LLC (2) 9:13;12:19
keep (8) 20:25;21:1;61:1;78:6;89:5; 95:2;106:25;113:24 keyed (1) 15:9	lateral (3) 85:20;93:23,24 latter (1) 59:10 law (4) 11:7;17:9;60:17;95:22	length (1) 36:23 lengthy (1) 75:17 Leroy (11) 101:2;102:2,4,7,9;104:1,5;	livestock (1) 25:13 LLC (2) 9:13;12:19 locate (1) 81:1 located (1) 119:22
keep (8) 20:25;21:1;61:1;78:6;89:5; 95:2;106:25;113:24 keyed (1) 15:9 kicked (2) 84:2;85:14 kind (3)	lateral (3) 85:20;93:23,24 latter (1) 59:10 law (4) 11:7;17:9;60:17;95:22 lawsuits (1) 116:5 layer (3)	length (1) 36:23 lengthy (1) 75:17 Leroy (11) 101:2;102:2,4,7,9;104:1,5; 107:12,21;108:2,14 less (12) 10:3,4;29:4;36:21,22;42:2;	livestock (1) 25:13 LLC (2) 9:13;12:19 locate (1) 81:1 located (1) 119:22 location (19)
keep (8) 20:25;21:1;61:1;78:6;89:5; 95:2;106:25;113:24 keyed (1) 15:9 kicked (2) 84:2;85:14 kind (3) 60:15;66:25;118:16	lateral (3) 85:20;93:23,24 latter (1) 59:10 law (4) 11:7;17:9;60:17;95:22 lawsuits (1) 116:5 layer (3) 85:1;86:13;87:9	length (1) 36:23 lengthy (1) 75:17 Leroy (11) 101:2;102:2,4,7,9;104:1,5; 107:12,21;108:2,14 less (12) 10:3,4;29:4;36:21,22;42:2; 43:24;44:3;89:1;90:22;92:17,	livestock (1) 25:13 LLC (2) 9:13;12:19 locate (1) 81:1 located (1) 119:22 location (19) 25:22;28:21;47:3,4,5,14,16,
keep (8) 20:25;21:1;61:1;78:6;89:5; 95:2;106:25;113:24 keyed (1) 15:9 kicked (2) 84:2;85:14 kind (3) 60:15;66:25;118:16 knowledge (11)	lateral (3) 85:20;93:23,24 latter (1) 59:10 law (4) 11:7;17:9;60:17;95:22 lawsuits (1) 116:5 layer (3) 85:1;86:13;87:9 lead (3)	length (1) 36:23 lengthy (1) 75:17 Leroy (11) 101:2;102:2,4,7,9;104:1,5; 107:12,21;108:2,14 less (12) 10:3,4;29:4;36:21,22;42:2; 43:24;44:3;89:1;90:22;92:17, 21	livestock (1) 25:13 LLC (2) 9:13;12:19 locate (1) 81:1 located (1) 119:22 location (19) 25:22;28:21;47:3,4,5,14,16, 20;80:13;83:7;85:4,6;88:3,5,
keep (8) 20:25;21:1;61:1;78:6;89:5; 95:2;106:25;113:24 keyed (1) 15:9 kicked (2) 84:2;85:14 kind (3) 60:15;66:25;118:16 knowledge (11) 17:25;45:6;47:11;50:10;	lateral (3) 85:20;93:23,24 latter (1) 59:10 law (4) 11:7;17:9;60:17;95:22 lawsuits (1) 116:5 layer (3) 85:1;86:13;87:9 lead (3) 20:5;45:2;46:10	length (1) 36:23 lengthy (1) 75:17 Leroy (11) 101:2;102:2,4,7,9;104:1,5; 107:12,21;108:2,14 less (12) 10:3,4;29:4;36:21,22;42:2; 43:24;44:3;89:1;90:22;92:17, 21 lessee (5)	livestock (1) 25:13 LLC (2) 9:13;12:19 locate (1) 81:1 located (1) 119:22 location (19) 25:22;28:21;47:3,4,5,14,16, 20;80:13;83:7;85:4,6;88:3,5, 13,20;89:4;90:17;93:25
keep (8) 20:25;21:1;61:1;78:6;89:5; 95:2;106:25;113:24 keyed (1) 15:9 kicked (2) 84:2;85:14 kind (3) 60:15;66:25;118:16 knowledge (11) 17:25;45:6;47:11;50:10; 68:20;72:18,19;75:9;104:10;	lateral (3) 85:20;93:23,24 latter (1) 59:10 law (4) 11:7;17:9;60:17;95:22 lawsuits (1) 116:5 layer (3) 85:1;86:13;87:9 lead (3) 20:5;45:2;46:10 leads (1)	length (1) 36:23 lengthy (1) 75:17 Leroy (11) 101:2;102:2,4,7,9;104:1,5; 107:12,21;108:2,14 less (12) 10:3,4;29:4;36:21,22;42:2; 43:24;44:3;89:1;90:22;92:17, 21 lessee (5) 24:16;26:1,8,15,17	livestock (1) 25:13 LLC (2) 9:13;12:19 locate (1) 81:1 located (1) 119:22 location (19) 25:22;28:21;47:3,4,5,14,16, 20;80:13;83:7;85:4,6;88:3,5, 13,20;89:4;90:17;93:25 log (3)
keep (8) 20:25;21:1;61:1;78:6;89:5; 95:2;106:25;113:24 keyed (1) 15:9 kicked (2) 84:2;85:14 kind (3) 60:15;66:25;118:16 knowledge (11) 17:25;45:6;47:11;50:10; 68:20;72:18,19;75:9;104:10; 109:4,14	lateral (3) 85:20;93:23,24 latter (1) 59:10 law (4) 11:7;17:9;60:17;95:22 lawsuits (1) 116:5 layer (3) 85:1;86:13;87:9 lead (3) 20:5;45:2;46:10 leads (1) 111:19	length (1) 36:23 lengthy (1) 75:17 Leroy (11) 101:2;102:2,4,7,9;104:1,5; 107:12,21;108:2,14 less (12) 10:3,4;29:4;36:21,22;42:2; 43:24;44:3;89:1;90:22;92:17, 21 lessee (5) 24:16;26:1,8,15,17 lessor (7)	livestock (1) 25:13 LLC (2) 9:13;12:19 locate (1) 81:1 located (1) 119:22 location (19) 25:22;28:21;47:3,4,5,14,16, 20;80:13;83:7;85:4,6;88:3,5, 13,20;89:4;90:17;93:25 log (3) 87:9,20;91:9
keep (8) 20:25;21:1;61:1;78:6;89:5; 95:2;106:25;113:24 keyed (1) 15:9 kicked (2) 84:2;85:14 kind (3) 60:15;66:25;118:16 knowledge (11) 17:25;45:6;47:11;50:10; 68:20;72:18,19;75:9;104:10; 109:4,14 known (5)	lateral (3) 85:20;93:23,24 latter (1) 59:10 law (4) 11:7;17:9;60:17;95:22 lawsuits (1) 116:5 layer (3) 85:1;86:13;87:9 lead (3) 20:5;45:2;46:10 leads (1) 11:19 leak (1)	length (1) 36:23 lengthy (1) 75:17 Leroy (11) 101:2;102:2,4,7,9;104:1,5; 107:12,21;108:2,14 less (12) 10:3,4;29:4;36:21,22;42:2; 43:24;44:3;89:1;90:22;92:17, 21 lessee (5) 24:16;26:1,8,15,17 lessor (7) 17:16;24:24;25:3,10;26:1,24;	livestock (1) 25:13 LLC (2) 9:13;12:19 locate (1) 81:1 located (1) 119:22 location (19) 25:22;28:21;47:3,4,5,14,16, 20;80:13;83:7;85:4,6;88:3,5, 13,20;89:4;90:17;93:25 log (3) 87:9,20;91:9 loggers (2)
keep (8) 20:25;21:1;61:1;78:6;89:5; 95:2;106:25;113:24 keyed (1) 15:9 kicked (2) 84:2;85:14 kind (3) 60:15;66:25;118:16 knowledge (11) 17:25;45:6;47:11;50:10; 68:20;72:18,19;75:9;104:10; 109:4,14 known (5) 10:13;40:23;98:24;100:3;	lateral (3) 85:20;93:23,24 latter (1) 59:10 law (4) 11:7;17:9;60:17;95:22 lawsuits (1) 116:5 layer (3) 85:1;86:13;87:9 lead (3) 20:5;45:2;46:10 leads (1) 11:19 leak (1) 122:4	length (1) 36:23 lengthy (1) 75:17 Leroy (11) 101:2;102:2,4,7,9;104:1,5; 107:12,21;108:2,14 less (12) 10:3,4;29:4;36:21,22;42:2; 43:24;44:3;89:1;90:22;92:17, 21 lessee (5) 24:16;26:1,8,15,17 lessor (7) 17:16;24:24;25:3,10;26:1,24; 70:19	livestock (1) 25:13 LLC (2) 9:13;12:19 locate (1) 81:1 located (1) 119:22 location (19) 25:22;28:21;47:3,4,5,14,16, 20;80:13;83:7;85:4,6;88:3,5, 13,20;89:4;90:17;93:25 log (3) 87:9,20;91:9 loggers (2) 96:6,16
keep (8) 20:25;21:1;61:1;78:6;89:5; 95:2;106:25;113:24 keyed (1) 15:9 kicked (2) 84:2;85:14 kind (3) 60:15;66:25;118:16 knowledge (11) 17:25;45:6;47:11;50:10; 68:20;72:18,19;75:9;104:10; 109:4,14 known (5)	lateral (3) 85:20;93:23,24 latter (1) 59:10 law (4) 11:7;17:9;60:17;95:22 lawsuits (1) 116:5 layer (3) 85:1;86:13;87:9 lead (3) 20:5;45:2;46:10 leads (1) 11:19 leak (1) 122:4 lease (84)	length (1) 36:23 lengthy (1) 75:17 Leroy (11) 101:2;102:2,4,7,9;104:1,5; 107:12,21;108:2,14 less (12) 10:3,4;29:4;36:21,22;42:2; 43:24;44:3;89:1;90:22;92:17, 21 lessee (5) 24:16;26:1,8,15,17 lessor (7) 17:16;24:24;25:3,10;26:1,24; 70:19 lessors (1)	livestock (1) 25:13 LLC (2) 9:13;12:19 locate (1) 81:1 located (1) 119:22 location (19) 25:22;28:21;47:3,4,5,14,16, 20;80:13;83:7;85:4,6;88:3,5, 13,20;89:4;90:17;93:25 log (3) 87:9,20;91:9 loggers (2) 96:6,16 Logistically (1)
keep (8) 20:25;21:1;61:1;78:6;89:5; 95:2;106:25;113:24 keyed (1) 15:9 kicked (2) 84:2;85:14 kind (3) 60:15;66:25;118:16 knowledge (11) 17:25;45:6;47:11;50:10; 68:20;72:18,19;75:9;104:10; 109:4,14 known (5) 10:13;40:23;98:24;100:3; 122:4	lateral (3) 85:20;93:23,24 latter (1) 59:10 law (4) 11:7;17:9;60:17;95:22 lawsuits (1) 116:5 layer (3) 85:1;86:13;87:9 lead (3) 20:5;45:2;46:10 leads (1) 111:19 leak (1) 122:4 lease (84) 17:19,21,22;18:1;21:7,9,12,	length (1)	livestock (1) 25:13 LLC (2) 9:13;12:19 locate (1) 81:1 located (1) 119:22 location (19) 25:22;28:21;47:3,4,5,14,16, 20;80:13;83:7;85:4,6;88:3,5, 13,20;89:4;90:17;93:25 log (3) 87:9,20;91:9 loggers (2) 96:6,16 Logistically (1) 44:11
keep (8) 20:25;21:1;61:1;78:6;89:5; 95:2;106:25;113:24 keyed (1) 15:9 kicked (2) 84:2;85:14 kind (3) 60:15;66:25;118:16 knowledge (11) 17:25;45:6;47:11;50:10; 68:20;72:18,19;75:9;104:10; 109:4,14 known (5) 10:13;40:23;98:24;100:3;	lateral (3) 85:20;93:23,24 latter (1) 59:10 law (4) 11:7;17:9;60:17;95:22 lawsuits (1) 116:5 layer (3) 85:1;86:13;87:9 lead (3) 20:5;45:2;46:10 leads (1) 11:19 leak (1) 122:4 lease (84)	length (1) 36:23 lengthy (1) 75:17 Leroy (11) 101:2;102:2,4,7,9;104:1,5; 107:12,21;108:2,14 less (12) 10:3,4;29:4;36:21,22;42:2; 43:24;44:3;89:1;90:22;92:17, 21 lessee (5) 24:16;26:1,8,15,17 lessor (7) 17:16;24:24;25:3,10;26:1,24; 70:19 lessors (1)	livestock (1) 25:13 LLC (2) 9:13;12:19 locate (1) 81:1 located (1) 119:22 location (19) 25:22;28:21;47:3,4,5,14,16, 20;80:13;83:7;85:4,6;88:3,5, 13,20;89:4;90:17;93:25 log (3) 87:9,20;91:9 loggers (2) 96:6,16 Logistically (1)
keep (8) 20:25;21:1;61:1;78:6;89:5; 95:2;106:25;113:24 keyed (1) 15:9 kicked (2) 84:2;85:14 kind (3) 60:15;66:25;118:16 knowledge (11) 17:25;45:6;47:11;50:10; 68:20;72:18,19;75:9;104:10; 109:4,14 known (5) 10:13;40:23;98:24;100:3; 122:4	lateral (3) 85:20;93:23,24 latter (1) 59:10 law (4) 11:7;17:9;60:17;95:22 lawsuits (1) 116:5 layer (3) 85:1;86:13;87:9 lead (3) 20:5;45:2;46:10 leads (1) 111:19 leak (1) 122:4 lease (84) 17:19,21,22;18:1;21:7,9,12, 14,21;22:1,16,25;23:15,21,23;	length (1)	livestock (1) 25:13 LLC (2) 9:13;12:19 locate (1) 81:1 located (1) 119:22 location (19) 25:22;28:21;47:3,4,5,14,16, 20;80:13;83:7;85:4,6;88:3,5, 13,20;89:4;90:17;93:25 log (3) 87:9,20;91:9 loggers (2) 96:6,16 Logistically (1) 44:11 logs (3)
keep (8) 20:25;21:1;61:1;78:6;89:5; 95:2;106:25;113:24 keyed (1) 15:9 kicked (2) 84:2;85:14 kind (3) 60:15;66:25;118:16 knowledge (11) 17:25;45:6;47:11;50:10; 68:20;72:18,19;75:9;104:10; 109:4,14 known (5) 10:13;40:23;98:24;100:3; 122:4 L	lateral (3) 85:20;93:23,24 latter (1) 59:10 law (4) 11:7;17:9;60:17;95:22 lawsuits (1) 116:5 layer (3) 85:1;86:13;87:9 lead (3) 20:5;45:2;46:10 leads (1) 111:19 leak (1) 122:4 lease (84) 17:19,21,22;18:1;21:7,9,12, 14,21;22:1,16,25;23:15,21,23; 24:1,2,6,10,14,15;25:2,8,16,25; 26:14,20;27:2,8;28:18;42:6,9, 16,16,22,22;43:22;44:1,4,10,	length (1)	livestock (1) 25:13 LLC (2) 9:13;12:19 locate (1) 81:1 located (1) 119:22 location (19) 25:22;28:21;47:3,4,5,14,16, 20;80:13;83:7;85:4,6;88:3,5, 13,20;89:4;90:17;93:25 log (3) 87:9,20;91:9 loggers (2) 96:6,16 Logistically (1) 44:11 logs (3) 95:18;96:4,15 long (8) 41:13;63:7;72:25;74:12;
keep (8) 20:25;21:1;61:1;78:6;89:5; 95:2;106:25;113:24 keyed (1) 15:9 kicked (2) 84:2;85:14 kind (3) 60:15;66:25;118:16 knowledge (11) 17:25;45:6;47:11;50:10; 68:20;72:18,19;75:9;104:10; 109:4,14 known (5) 10:13;40:23;98:24;100:3; 122:4 L labeled (1) 86:19 Lack (3)	lateral (3) 85:20;93:23,24 latter (1) 59:10 law (4) 11:7;17:9;60:17;95:22 lawsuits (1) 116:5 layer (3) 85:1;86:13;87:9 lead (3) 20:5;45:2;46:10 leads (1) 111:19 leak (1) 122:4 lease (84) 17:19,21,22;18:1;21:7,9,12, 14,21;22:1,16,25;23:15,21,23; 24:1,2,6,10,14,15;25:2,8,16,25; 26:14,20;27:2,8;28:18;42:6,9, 16,16,22,22;43:22;44:1,4,10, 11,18;47:19,19;50:18;57:11;	length (1)	livestock (1) 25:13 LLC (2) 9:13;12:19 locate (1) 81:1 located (1) 119:22 location (19) 25:22;28:21;47:3,4,5,14,16, 20;80:13;83:7;85:4,6;88:3,5, 13,20;89:4;90:17;93:25 log (3) 87:9,20;91:9 loggers (2) 96:6,16 Logistically (1) 44:11 logs (3) 95:18;96:4,15 long (8) 41:13;63:7;72:25;74:12; 82:9;86:17;87:25;91:15
keep (8) 20:25;21:1;61:1;78:6;89:5; 95:2;106:25;113:24 keyed (1) 15:9 kicked (2) 84:2;85:14 kind (3) 60:15;66:25;118:16 knowledge (11) 17:25;45:6;47:11;50:10; 68:20;72:18,19;75:9;104:10; 109:4,14 known (5) 10:13;40:23;98:24;100:3; 122:4 L labeled (1) 86:19 Lack (3) 52:20;73:7;74:16	lateral (3)	length (1)	livestock (1) 25:13 LLC (2) 9:13;12:19 locate (1) 81:1 located (1) 119:22 location (19) 25:22;28:21;47:3,4,5,14,16, 20;80:13;83:7;85:4,6;88:3,5, 13,20;89:4;90:17;93:25 log (3) 87:9,20;91:9 loggers (2) 96:6,16 Logistically (1) 44:11 logs (3) 95:18;96:4,15 long (8) 41:13;63:7;72:25;74:12; 82:9;86:17;87:25;91:15 longer (3)
keep (8) 20:25;21:1;61:1;78:6;89:5; 95:2;106:25;113:24 keyed (1) 15:9 kicked (2) 84:2;85:14 kind (3) 60:15;66:25;118:16 knowledge (11) 17:25;45:6;47:11;50:10; 68:20;72:18,19;75:9;104:10; 109:4,14 known (5) 10:13;40:23;98:24;100:3; 122:4 L labeled (1) 86:19 Lack (3) 52:20;73:7;74:16 lacking (2)	lateral (3)	length (1)	livestock (1) 25:13 LLC (2) 9:13;12:19 locate (1) 81:1 located (1) 119:22 location (19) 25:22;28:21;47:3,4,5,14,16, 20;80:13;83:7;85:4,6;88:3,5, 13,20;89:4;90:17;93:25 log (3) 87:9,20;91:9 loggers (2) 96:6,16 Logistically (1) 44:11 logs (3) 95:18;96:4,15 long (8) 41:13;63:7;72:25;74:12; 82:9;86:17;87:25;91:15 longer (3) 82:7;91:21;116:4
keep (8) 20:25;21:1;61:1;78:6;89:5; 95:2;106:25;113:24 keyed (1) 15:9 kicked (2) 84:2;85:14 kind (3) 60:15;66:25;118:16 knowledge (11) 17:25;45:6;47:11;50:10; 68:20;72:18,19;75:9;104:10; 109:4,14 known (5) 10:13;40:23;98:24;100:3; 122:4 L labeled (1) 86:19 Lack (3) 52:20;73:7;74:16 lacking (2) 114:18;115:5	lateral (3) 85:20;93:23,24 latter (1) 59:10 law (4) 11:7;17:9;60:17;95:22 lawsuits (1) 116:5 layer (3) 85:1;86:13;87:9 lead (3) 20:5;45:2;46:10 leads (1) 111:19 leak (1) 122:4 lease (84) 17:19,21,22;18:1;21:7,9,12, 14,21;22:1,16,25;23:15,21,23; 24:1,2,6,10,14,15;25:2,8,16,25; 26:14,20;27:2,8;28:18;42:6,9, 16,16,22,22;43:22;44:1,4,10, 11,18;47:19,19;50:18;57:11; 58:4,6;61:4;64:7,15,18;65:17; 66:18;70:18;71:1,5;72:15,21, 24;73:5,8;74:4,10,13,17;75:4;	length (1)	livestock (1) 25:13 LLC (2) 9:13;12:19 locate (1) 81:1 located (1) 119:22 location (19) 25:22;28:21;47:3,4,5,14,16, 20;80:13;83:7;85:4,6;88:3,5, 13,20;89:4;90:17;93:25 log (3) 87:9,20;91:9 loggers (2) 96:6,16 Logistically (1) 44:11 logs (3) 95:18;96:4,15 long (8) 41:13;63:7;72:25;74:12; 82:9;86:17;87:25;91:15 longer (3) 82:7;91:21;116:4 look (18)
keep (8) 20:25;21:1;61:1;78:6;89:5; 95:2;106:25;113:24 keyed (1) 15:9 kicked (2) 84:2;85:14 kind (3) 60:15;66:25;118:16 knowledge (11) 17:25;45:6;47:11;50:10; 68:20;72:18,19;75:9;104:10; 109:4,14 known (5) 10:13;40:23;98:24;100:3; 122:4 L labeled (1) 86:19 Lack (3) 52:20;73:7;74:16 lacking (2) 114:18;115:5 Lacks (1)	lateral (3) 85:20;93:23,24 latter (1) 59:10 law (4) 11:7;17:9;60:17;95:22 lawsuits (1) 116:5 layer (3) 85:1;86:13;87:9 lead (3) 20:5;45:2;46:10 leads (1) 111:19 leak (1) 122:4 lease (84) 17:19,21,22;18:1;21:7,9,12, 14,21;22:1,16,25;23:15,21,23; 24:1,2,6,10,14,15;25:2,8,16,25; 26:14,20;27:2,8;28:18;42:6,9, 16,16,22,22;43:22;44:1,4,10, 11,18;47:19,19;50:18;57:11; 58:4,6;61:4;64:7,15,18;65:17; 66:18;70:18;71:1,5;72:15,21, 24;73:5,8;74:4,10,13,17;75:4; 77:2,10,13,22;89:3;109:11,19,	length (1)	livestock (1) 25:13 LLC (2) 9:13;12:19 locate (1) 81:1 located (1) 119:22 location (19) 25:22;28:21;47:3,4,5,14,16, 20;80:13;83:7;85:4,6;88:3,5, 13,20;89:4;90:17;93:25 log (3) 87:9,20;91:9 loggers (2) 96:6,16 Logistically (1) 44:11 logs (3) 95:18;96:4,15 long (8) 41:13;63:7;72:25;74:12; 82:9;86:17;87:25;91:15 longer (3) 82:7;91:21;116:4 look (18) 14:9,19;15:5,12;25:7,24;
keep (8)	lateral (3) 85:20;93:23,24 latter (1) 59:10 law (4) 11:7;17:9;60:17;95:22 lawsuits (1) 116:5 layer (3) 85:1;86:13;87:9 lead (3) 20:5;45:2;46:10 leads (1) 111:19 leak (1) 122:4 lease (84) 17:19,21,22;18:1;21:7,9,12, 14,21;22:1,16,25;23:15,21,23; 24:1,2,6,10,14,15;25:2,8,16,25; 26:14,20;27:2,8;28:18;42:6,9, 16,16,22,22;43:22;44:1,4,10, 11,18;47:19,19;50:18;57:11; 58:4,6;61:4;64:7,15,18;65:17; 66:18;70:18;71:1,5;72:15,21, 24;73:5,8;74:4,10,13,17;75:4; 77:2,10,13,22;89:3;109:11,19, 24;110:24;111:4,20;112:16,18;	length (1)	livestock (1) 25:13 LLC (2) 9:13;12:19 locate (1) 81:1 located (1) 119:22 location (19) 25:22;28:21;47:3,4,5,14,16, 20;80:13;83:7;85:4,6;88:3,5, 13,20;89:4;90:17;93:25 log (3) 87:9,20;91:9 loggers (2) 96:6,16 Logistically (1) 44:11 logs (3) 95:18;96:4,15 long (8) 41:13;63:7;72:25;74:12; 82:9;86:17;87:25;91:15 longer (3) 82:7;91:21;116:4 look (18) 14:9,19;15:5,12;25:7,24; 36:15;48:12;64:21;68:6;69:11;
keep (8)	lateral (3) 85:20;93:23,24 latter (1) 59:10 law (4) 11:7;17:9;60:17;95:22 lawsuits (1) 116:5 layer (3) 85:1;86:13;87:9 lead (3) 20:5;45:2;46:10 leads (1) 111:19 leak (1) 122:4 lease (84) 17:19,21,22;18:1;21:7,9,12, 14,21;22:1,16,25;23:15,21,23; 24:1,2,6,10,14,15;25:2,8,16,25; 26:14,20;27:2,8;28:18;42:6,9, 16,16,22,22;43:22;44:1,4,10, 11,18;47:19,19;50:18;57:11; 58:4,6;61:4;64:7,15,18;65:17; 66:18;70:18;71:1,5;72:15,21, 24;73:5,8;74:4,10,13,17;75:4; 77:2,10,13,22;89:3;109:11,19, 24;110:24;111:4,20;112:16,18; 114:6,10;115:4;118:21	length (1)	livestock (1) 25:13 LLC (2) 9:13;12:19 locate (1) 81:1 located (1) 119:22 location (19) 25:22;28:21;47:3,4,5,14,16, 20;80:13;83:7;85:4,6;88:3,5, 13,20;89:4;90:17;93:25 log (3) 87:9,20;91:9 loggers (2) 96:6,16 Logistically (1) 44:11 logs (3) 95:18;96:4,15 long (8) 41:13;63:7;72:25;74:12; 82:9;86:17;87:25;91:15 longer (3) 82:7;91:21;116:4 look (18) 14:9,19;15:5,12;25:7,24; 36:15;48:12;64:21;68:6;69:11; 92:6;104:22,25;105:1;107:14;
keep (8)	lateral (3) 85:20;93:23,24 latter (1) 59:10 law (4) 11:7;17:9;60:17;95:22 lawsuits (1) 116:5 layer (3) 85:1;86:13;87:9 lead (3) 20:5;45:2;46:10 leads (1) 111:19 leak (1) 122:4 lease (84) 17:19,21,22;18:1;21:7,9,12, 14,21;22:1,16,25;23:15,21,23; 24:1,2,6,10,14,15;25:2,8,16,25; 26:14,20;27:2,8;28:18;42:6,9, 16,16,22,22;43:22;44:1,4,10, 11,18;47:19,19;50:18;57:11; 58:4,6;61:4;64:7,15,18;65:17; 66:18;70:18;71:1,5;72:15,21, 24;73:5,8;74:4,10,13,17;75:4; 77:2,10,13,22;89:3;109:11,19, 24;110:24;111:4,20;112:16,18;	length (1)	livestock (1) 25:13 LLC (2) 9:13;12:19 locate (1) 81:1 located (1) 119:22 location (19) 25:22;28:21;47:3,4,5,14,16, 20;80:13;83:7;85:4,6;88:3,5, 13,20;89:4;90:17;93:25 log (3) 87:9,20;91:9 loggers (2) 96:6,16 Logistically (1) 44:11 logs (3) 95:18;96:4,15 long (8) 41:13;63:7;72:25;74:12; 82:9;86:17;87:25;91:15 longer (3) 82:7;91:21;116:4 look (18) 14:9,19;15:5,12;25:7,24; 36:15;48:12;64:21;68:6;69:11;

looked (2)
71:9;72:19
,
looking (9)
7:17;11:3;52:16;71:7;73:20;
83:2,15;92:3;102:22
looks (3)
48:1;87:20;102:1
lose (1)
53:4
loss (1)
52:19
losses (3)
54:3,8,14
lot (10)
38:4;50:21;60:18;73:16;
74:14,19;93:8;94:11;95:7;
113:24
lots (17)
23:3;33:18;54:22;60:14;
72:14;73:6,9;74:6,12,17;76:24
101:25;102:18;103:1;107:8,23
114:21
loudly (2)
7:4;79:5
low (1)
41:23
lower (3)
84:10;86:16;95:15

```
\mathbf{M}
mail (3)
  104:24;109:23;120:5
mailed (2)
  8:10;105:3
mailing (3)
  66:1,8;104:22
maintain (1)
  61:23
maintained (2)
  54:2;101:9
majority (4)
  10:2;67:1,4,6
making (1)
  69:18
managed (2)
  14:15;20:25
managing (1)
  13:11
many (10)
  6:19;13:6;19:3,12;29:25;
  30:1;56:13;63:24;100:14;
  118:15
map (17)
  46:21;47:2,4,12,12;48:2,12,
  16;49:4;72:5;75:8;83:5;88:14;
  90:22;91:2;99:23;100:2
maps (3)
  71:9;88:10,10
marked (2)
  47:2,5
market (2)
  36:22;53:4
```

mass (1)
96:10
master's (1)
106:6
match (1) 40:8
materials (3)
51:15;114:1;118:17
math (1)
75:20
matter (10)
13:16,21;23:2;27:18;58:17;
60:10,16,17;68:8;122:18
matters (2)
10:21,22
may (33)
7:10;9:3,6;12:7;32:19;33:19;
48:11;53:4;58:12;62:13,21;
69:7;74:1;78:14,24;82:16;
89:24;90:7;91:25;95:1;97:14,
18;98:13;105:22;110:4,8;
112:22;113:11,21;115:15;
120:6,24;122:21
maybe (4)
83:11;84:23;88:8;95:8
McLAIN (15)
11:6,7,12;55:5,7;76:11,12;
97:14,16;110:4,6;113:1,3;
119:8,10
M-c-l-a-i-n (1)
11:9
mean (10)
26:14;33:1;52:15;54:6,10,21;
70:25;72:12,19;81:9
means (1)
75:19
meant (2)
54:3,15
measured (34)
36:23;38:1,2,5;81:6,6,7,10,
22,24,24;82:4,6;83:23;85:18,
22;86:4,6,7;87:4;91:7,9,11,17,
21,22,24;92:9,12,14,19,21;
93:2,21
measurement (1) 91:5
measurements (1)
75:16
member (6)
7:22;12:19;99:1,1;106:14,19
members (1)
99:11
membership (1)
106:21
memorandum (3)
42:9,16;71:5
memory (2)
84:16,23
men (1)
63:24
mentioned (3)
55:17;57:15;112:11

56:23
Meridian (1)
6:13
Mesa (11)
34:11,11,15,19;36:24;37:1,8;
40:3,8;108:7;116:6 Mesa's (9)
34:17;35:16;36:1;37:10,19;
38:3,6,13;39:23
met (1)
115:20
methods (1)
42:11 mic (1)
79:25
Michael (1)
9:12
Mick (1)
6:15
microphone (3)
7:10;19:6;83:13 microphones (1)
7:8
middle (2)
48:15;88:24
might (13)
27:10;44:8,17,24;45:2,7;
46:11;74:3,24;82:10;93:5;94:3
96:24
miles (1) 75:18
million (2)
33:4;87:23
mind (3)
58:22;74:9;122:7
mineral (37)
10:8,19;13:4;20:19;23:10;
31:16;42:6;43:15;47:23;57:10;
58:3;64:8;65:18;71:11,16,21,
24;74:4,19,25;75:10;100:19,
21;101:15;102:6,13;103:6;
104:12;105:10,14;111:15;
112:16;116:13,20;121:11;
122:9,10
Minerals (6)
6:16;74:13;108:7,18,25;
109:6 minimal (1)
34:4
minimum (1)
10:4
Minor (1)
53:18
minute (2)
42:18;64:19
minutes (2) 8:17;113:13
miss (1)
93:5
modifications (1)
24:6

```
moment (1)
  46:19
money (9)
  23:8;30:24;31:13;37:21,23;
  38:7,9;39:24;121:24
money-paying (1)
  16:16
monitor (1)
  80:3
monthly (1)
  34:1
Moore (14)
  9:15;42:18;49:10;62:15,18,
  25;63:2;67:21;69:10;76:22;
  78:2;116:1,2,7
Moore's (2)
  114:5;116:1
more (15)
  14:13;31:19;35:8;36:11;
  38:9,10;50:2,7;53:8;55:2;
  61:25;82:6;89:4;91:23;99:23
morning (3)
  6:4;11:16,18
most (4)
  18:17;53:4;63:12,13
move (4)
  43:1;53:9;67:18;79:25
much (16)
  20:16;21:17,19,22;23:8;56:1;
  57:6;62:2;66:20;84:22;95:15;
  97:9,9;112:3;119:6;122:21
mud (2)
  96:5,16
mute (3)
  7:7,9;19:6
muted (1)
  7:11
myself (5)
  11:11;35:11;36:7,8;64:1
```

N
name (16)
6:15;9:3,5;12:13;17:19;
19:25;57:4;63:1;76:24;79:5,7;
101:2;108:10;115:2;121:7,9
named (4)
19:5;72:10,11;111:12
names (2)
34:12;101:13
narrow (1)
54:7
nature (1)
27:6
NE (2)
6:12,12
near (3)
15:18;84:25;86:2
nearby (1)
46:9
necessarily (2)
76:25;96:22
76:25;96:22

necessary (9)

modify (1)

73:4

115-1, 10.1184 83.19 motations (1) 22.57 motations (1) 80.22 motes (7) 65.2470.219.316.104.67; 13.19 motes (7) 13.19 motes (8) 13.23 16.19.10.23.24 13.23 16.19.10.23.24 13.23 16.19.10.23.24 13.23 16.19.10.23.24 13.23 16.19.10.23.24 13.23 16.19.10.23.24 13.23 16.19.10.23.24 13.23 16.19.10.23.24 13.23 16.19.10.23.24 13.23 16.19.10.23.24 13.23 16.19.23.24 13.23 16.19.23.24 13.23 16.19.23.24 13.23 16.19.23.24 13.23 16.19.23.24 13.23 16.19.23.24 13.23 16.19.23.24 13.23 16.19.23.24 13.23 16.19.23.24 13.23 16.19.23.24 13.23 16.19.23.24 13.23 16.19.23.24 13.23 16.23.23 13.23 16.23	10:2,4;27:25;44:8,20;95:2;	notation (1)	85:15;91:19;96:8,18;103:2	operate (3)
28-5 notes (7) cots (7)				
meed (16)				
337,4417,244-85,210,60,022; 6524,70,21,931,61,04-6.7; 981,139,57,20; 121; 900ice (13) 113; 900ice (13) 116; 676rs (1) 167,23; 18,5; 19,23; 116; 16,72,3; 18,5; 19,23; 116; 16,72,3; 18,5; 19,23; 116; 16,72,3; 18,5; 19,23; 116; 16,72,3; 18,5; 19,13; 116; 16,72,3; 18,5; 19,13; 116; 16,72,3; 18,5; 19,13; 116; 16,72,3; 18,5; 19,13; 116; 16,72,3; 18,5; 19,13; 18,5; 10,22; 12,23; 12,23; 12,33; 12,23; 13,5; 16,23; 12,23; 13,5; 13,13; 11,13; 16,23; 13,13; 13,13; 16,23; 13,13; 13				
661;22;70:15,1590;25;91:20				
nected (4) 8:1/0.8/15/104/22/105.3. Office (2) 395.88-12/03/32/302/37.32. 395.88-12/03/33/302/37.32. 395.88-12/03/33/302/37.32. 395.88-12/03/33/302/37.32. 395.88-12/03/33/302/31.32. 395.88-12/03/33/302/31.32. 395.88-12/03/33/302/31.32. 395.88-12/03/33/302/31.32. 395.88-12/03/33/302/31.33.33.33.33.33.33.33.33.33.33.33.33.3				
7.21,24.92.122.13 109.23.115.23.116.9.10.23.24 177.8119.5 177.81				
megiotating (1)				
26:10				
121.6.16.19.93.21.18.42.25.46.18, operationally (1)				
13:3				
Tile				
neighborhoods (1) 7:20,20,20;10:4;15:7;19:3; 67:14,16;19:69:67:03,77:31.0, 29:21;32:533:10:43:24,44:2,2 29:21;32:533:10:43:20;31:51:53:21 29:21;32:533:10:43:24,44:2,2 29:21;32:533:10:43:24,44:2,2 29:21;32:533:10:43:24,44:2,2 29:21;32:533:10:43:24,44:2,2 29:21;32:533:10:43:24,44:2,2 29:21;32:533:10:43:24,44:2,2 29:21;32:533:10:43:24,44:2,2 29:21;32:13:33:10:43:10:43:24,44:2,2 29:21;32:13:33:10:43:10:43:24,44:2,2 29:21;32:13:33:10:43:10:43:24,44:2,2 29:21;32:13:33:10:43:10:43:24,44:2,2 29:21;32:13:33:10:43:10:43:24,44:2,2 29:21;32:13:33:10:43:10:43:44:2,2 29:21;32:13:33:10:43:10:43:10:43:44:2,2 29:21;32:13:33:10:43:10:10:43:43:10:23:10:33:10:33:10:33:10:33:10:33:10:33:10:33:10:33:10:33:10:33:13:10:33:10:33:13:13:13:13:13:13:13:13:13:13:13:13:				
8.9.9 neighbors (1) 66:24 numbers (4) 65:13.80.22.81:5.83:25 net (1) NW (1) 112:49.20.25.113:48.119. nevertheles (1) 65:3 new (2) 77:14:102:24 net (10) 48:19.49.9:62:14.71:8.18. obidication (2) 81:13:100.16 11.17.19.41:15.102.19.10.12 nonconsenting (3) 87:19.19.19 obidiation (1) 24:23 nonconsenting (3) 59:18.17 nonconsenting (3) 59:18.17 nonconsenting (3) 8:20.17.11:118:22 nonconsenting (3) 18:25 nonconsenting (1) non-operating (1) non-operating (1) noncoperating (2) 25:21 noncoperating (3) 22:21:32:11.87:19 northest (2) 81:13:102:11 northest (2) 81:13:13:13:13:13:13:13:13:13:13:13:13:13				
85:25:86:1 neighbors (1) 88:24 net (1) NW (1) 11:51:41:19.7,11;120:23,121:3; nevertheles (1) 65:3 new (2) 77:14;102:24 net (10) 48:19.49.9-62:14;718.18; 78:14:89:5;98:5;112:22;122:6 nice (2) 39:22:89:2 43:15:22:03:35:67:11;73:7, Nine (2) 63:11:10:16 11:51:12:1 Nobody (2) 40:10.12 86:108.71:4;106:25 noneomercial (3) 87:13,88:6,7 120:17:21 99:11:19:19 noncommercial (3) 87:13,88:6,7 120:17:21 non-consenting (3) 87:13,188:6 15:23 non-consenting (3) 87:13,103:103 88:24 18:25 non-consenting (3) 88:108.71:4;106:25 67:12 non-operating (1) 18:25 none (2) 10:14;119:19 none-operating (1) 18:25 none (3) 61:3:80:14;81:12 nortex (2) 10:14;119:19 nortex (2) 10:14;119:19 nortex (3) 61:3:80:14;81:12 nortex (4) 65:13:80:22;118:719 North (3) 61:3:80:14;81:12 nortex (4) 65:13:80:23;118:81:13; 06:100 1000				
neighbors (1) numbers (4) 55:13/80:22;81:5;83:25 15:104:17:105:20,22;107:3; 12:49,20,25;113;4,8,19; 115:44;119:7,11;120:23;121:3; 12:49,20,25;113;4,8,19; 115:44;119:7,11;120:23;121:3; 12:49,20,25;113;4,8,19; 115:14;119:7,11;120:23;121:3; 12:49,20,25;113;4,8,19; 115:14;119:7,11;120:23;121:3; 12:49,20,25;113;4,8,19; 115:14;119:7,11;120:23;121:3; 12:49,20,25;113;4,8,19; 12:49,20,25;113;4,8,19; 12:49,20,25;113;4,8,19; 12:49,20,25;113;4,8,19; 12:49,20,25;113;4,8,19; 12:49,20,25;113;4,8,19; 12:49,20,25;113;4,8,19; 12:49,20,25;113;4,8,19; 12:49,20,25;113;4,8,19; 12:49,20,25;113;4,8,19; 12:49,20,25;113;4,8,19; 12:49,20,25;113;4,8,19; 12:49,20,25;113;4,8,19; 12:49,20,25;113;4,8,19; 12:49,20,25;113;4,8,19; 12:49,20,25;113;4,8,19; 12:49,20,25;113;4,8,19; 12:49,20,25;113;4,8,19; 12:49,20,25;113;4,8,19; 12:49,20,25;113;4,19;120:23;123;4,19;120:23;123;4,19;120:23;113;4,				
88:24 65:13;80;22;815;83:25 109:13;110;38,12;111;7;		- · · · ·		
net (1) NW (1) 112.49,20,25;113.48,19; 115;44,1197,11;120:23;121:3; 306;33:43.41,01,214;35:19, 23;47;18,48;75;16,17,19,25; 56:3 42:10,224 often (4) 42:10,224;11,29:1,9,10,23; 121:3; 122;712,15 306;21,89:17,19,20 36:21,89:17,19,20 36:21,89:17,19,20 23:47;18,48:75;16,17,19,25; 54:25;59;23;60:22;65:21; 118:81,19,499;62:14;718,18; 78:14,89:598:5;112:22;126 68:91,192:23 Oftentimes (2) 9erator's (2) 23:47;18,48:75;16,17,19,25; 54:25;59;23;60:22;65:21; 118:21 30:22;89:17,19,20 operator's (2) 23:47;18,48:75;16,17,19,25; 54:25;59;23;60:22;65:21; 118:21 30:22;39:223 40:10,12 48:99,99;62:14;71,19,19,24 objection (12) 7:17,8:13 occudably operator's (2) 26:10,87;14,106:25 0GCC (2) 7:17,8:13 operator's (2) 26:10,87;14,106:25 0GCC (2) 7:14 07:14 07:14 09;14:11	0 ,			
Co			112:4,9,20,25;113:4,8,19;	
Company Comp		6:11		
new (2) oath (4) 36:21;89:17,19,20 118:8,11 operator's (2) 77:14;102:24 48:19,499;62:14;71:8,18; 48:19,499;62:14;71:8,18; 62:16;21;212:23 62:10;72:15 90;60:10;72:15 90;60:10;72:15 90;60:10;72:15 90;10:23 90;10:23 90;10:17:15 90;10:17:15 90;10:17:18 90;10:17:18 90;10:17:18 90;10:17:18 90;10:17:18 90;11:10:18 114:14 90;11:10:11 90;11:10:11 90;11:10:11 90;11:10:11 90;11:10:11 90;11:10:11 90;11:10:11 90;11:10:11 90;11:10:11 90;11:10:11 90;11:10:11 90;11:10:11 90;11:10:11 90;11:10:11 90;11:10:11 90;11:10:11 90;11:10:11 90;11:10:11 90;11:11 90;1		0		
rat. (10) oath (4) Oftentimes (2) operator's (2) 48:1949:99:62:14;71:8,18; 78:14;89:5;98:5;112:22;122:6 object (3) OGCC (2) opinion (3) 78:14;89:5;98:5;112:22;122:6 doject (3) OGCC (2) opinion (3) 678:88:17;106:11 80:22;39:2 43:1;52:20;53:5;67:11;73:7, 7:14 7:14 opponents (1) 114:14 Nine (2) 11,17;104:15;107:2;109:12; 0Bigation (1) 7:14 5:15,18,19;18:14;19:17,22; opponents (1) 114:14 opponents (1) Nobody (2) 86:10;87:14;106:25 24:12;35:34;24;15;14:49:17,22; opponents (1) 25:7:116;23;117:4,5;121:4 opponents (1) 114:14 opponents (1) 114:14 opponents (1) 114:14 opponents (1) 14:14 opponents (1) 14:17 opponents (2) opponents (2) opponents (2) opponents (3) opponents (2) opponents (2)		O		
Destrict Color C		ooth (4)		
A8:19:49:96:2:14;71:8,18;				
78:14;89:5;98:5;112:22;122:6 nice (2) 39:22;89:2 43:15;22;053:5;67:11;73:7, 7:14 06jection (12) 39:22;89:2 43:15;22;053:5;67:11;73:7, 7:14 06i3;11;00:16 11:5;110:1 11:1 11:14:1 11:14:4 0pportunity (5) 59:7;11:2:3 0pitin(7) 21:22,2,4;22:4;2:4;2:1:4;0;10;2 11:1;15;18;11:13;0 11:1;10:1 11:1:1 11:1:1 11:1:1 11:1:1 11:1:1 11:1:1 11:1:1 11:1:1 11:1:1 11:1 11:1:1 11:1:1 11:1:1 11:1:1 11:1:1 11:1:1 11:1:1 11:1:1 11:1:1 11:1:1 11:1:1 11:1:1 11:1:1 11:1:1 11:1:1 11:1:1 11:1 11:1:1 11:1 11:1:1 11:1 11:1:1 11:1 11:1:1 11:1:1 11:1:1 11:1:1 11:1:1 11				· · · · · · · · · · · · · · · · · · ·
39:22:89:2				
Nine (2) 11,17;104:15;107:2;109:12; Oil (35) opportunity (5) 59:7;116:23;117:4,5;121:4 opportunity (5) 59:7;116:23;117:4,5;121:4 59:7;116:23;117:4,5;121:4 59:7;116:23;117:4,5;121:4 59:7;116:23;117:4,5;121:4 70:210:4 44:17 21:22,24:22:4;23:4;27:15,20,24; 44:17 21:22,24:22:4;27:15,20,24; 44:17 21:22,24:22:4;27:15,20,24; 44:17 21:22,24:22:4;27:15,20,24; 44:17 21:22,24:22:4;27:15,20,24; 44:17 21:22,24:22:4;27:15,20,24; 44:17 21:22,24:22:4;27:15,20,24; 44:17 21:22,24:22:4;27:15,20,24; 44:17 21:22,24:22:4;27:15,20,24; 44:17 21:22,24:22:4;27:15,20,24; 44:17 21:22,24:22:4;27:15,20,24; 44:17 21:22,24:22:4;27:15,20,24; 44:17 21:22,24:24:27:27:15,20,24; 44:17 21:22,		objection (12)		
63:11;100:16				
Nobody (2) objective (3) 12:15,18,19;18:14;19:17,22; option (7) 40:10,12 86:10;87:14;106:25 24:12;35:34;21:45;14;53:12, 21:22,24;22:4;27:15,20,24; nobody's (1) obligation (1) 13:21;63:34;2:14;51:4;53:12, 21:22,24;22:4;27:15,20,24; noncommercial (3) obligations (2) 15:16;106:21;112:18;113:13; 17:7 options (1) nonconsenting (3) obtain (3) 70:2,10;71:4 15:13;17:6,16;20:14;27:13; 25:26:15;27:19;29:19;51:24; non-consenting (3) obtained (1) 33:24;41:4;42:10;44:18;46:3; 55:10;57:9;00:24;91:20; none (6) 11:3;100:20;102:12;103:24; 15:23 48:21;67:368:16;69:2;74:17, 116:25;117:2 organization (2) non-operating (1) 42:5 occups (1) 96:13;109:51;15:23; 18:5;120:4;122:8 organization (2) nor (2) 52:1 33:24;34:4;39:4 off:1,99:14 0thers (1) normal (3) 44:95;18:89:15 56:8 53:9;111:13 010;14;119:19 occur (1) 55:26 online (1) 0therwise (2) 50:13 50:16 55:15 open (1) 23:4;				
40:10,12				
nobody's (1) obligation (1) 13,21;63:5,9;70:18;79:10,17; 44:17 options (1) 59:19 24:23 87:10,11,19;102:8;104:23; options (1) 87:13;88:6,7 120:17,21 105:16;106:21;112:18;113:13; 17:7 nonconsenting (3) obtain (3) one (34) 8:5,7,9;10:18;23:12,13;24:4, 59:1,8,17 70:2,10;71:4 15:13;17:6,16;20:14;27:13; 25;26:15;27:19;29:19;51:24; non-consenting (3) obtained (1) 33:24;41:4;42:10;44:18:46:3; 56:10;57:9;90:24;91:20; 8:20;17:11;118:22 115:23 48:21;53:8;54:24;57:18;61:13; 70:220;11;11:13 none (6) obtaining (1) 64:21;67:3;68:16;69:2;74:17, reganization (2) 11:3;100:20;102:12;103:24; 72:20 17,21;76:23;81:29;16:92:1,3; 116:25;117:2 non-operating (1) 42:5 118:5;120:4;122:8 reganization (2) 18:25 66:13;103:13;109:5;115:23; 72:23;92:24 nor (2) 52:1 33:24;34:4;39:4 64:1 nor (2) 52:1 33:24;34:4;39:4 64:1 nor (3) 44:9;51:8;89:15 56:8 55:9;111:13 <td></td> <td></td> <td></td> <td></td>				
59:19 24:23 87:10,11,19;102:8;104:23; options (1) noncommercial (3) obligations (2) 105:16;106:21;112:18;113:13; 17:7 87:13;88:6,7 120:17,21 119:20;120:1 order (18) nonconsenting (3) obtain (3) one (34) 8:5,7,9;10:18;23:12,13;24:4, 59:1,8,17 70:2,10;71:4 15:13;17:6,16;20:14;27:13; 25:26:15;27:19;29:19;51:24; 8:20;17:11;118:22 115:23 48:21;33;42:21,18;46:3; 56:10;57:990:24;91:20; none (6) obtaining (1) 64:21;67:3;68:16;69:2;74:17, 16:25;117:2 organization (2) 11:3;100:20;102:12;103:24; 72:20 17,21;76:23;81:2;91:6;92:1,3; organization (2) 18:25 occupation (4) ones (4) original (2) nonresponsive (2) 63:3;79:9;118:22;119:3 64:25;77:15;105:12;112:17 64:21 67:1,2 occup (1) ongoing (3) others (1) 10:14;119:19 occur (3) 33:24;44;43;9;4 64:1 10:14;119:19 occur (3) 31:3;22:24;40:5;45:4;41,14; 64:1 10:14;119:19 occur (3) 91:13				
87:13;88:6,7 nonconsenting (3) obtain (3) 70:2,10;71:4 non-consenting (3) 8:20;17:11;118:22 115:23 none (6) 115:23 116:25;117:2 112:17 11:3;100:20;102:12;103:24; 105:5;106:10 118:5;106:10 118:5;106:10 118:5;106:13;103:13;109:5;115:23; 118:5;120:4;122:8 118:5;120:4;122:8 118:5;120:4;122:8 118:5;120:4;122:8 118:5;120:4;122:8 118:5;120:4;122:8 118:5;120:4;122:8 118:5;120:4;122:8 118:5;120:4;122:8 118:5;120:4;122:8 118:5;120:4;122:8 118:5;120:4;122:8 118:5;120:4;122:8 118:5;120:4;43:4;39:4 118:15:13;96:1,23;97:9;				options (1)
nonconsenting (3) obtain (3) one (34) 8:5,7,9;10:18;23:12,13;24:4, 59:1,8,17 70:2,10;71:4 15:13;17:6,16;20:14;27:13; 25:26:15;27:19;29:19;51:24; 25:26:15;27:19;29:19;51:24; 25:26:15;27:19;29:19;51:24; 25:26:15;27:19;29:19;51:24; 25:26:15;27:19;29:19;51:24; 25:26:15;27:19;29:19;51:24; 25:26:15;27:19;29:19;51:24; 25:26:15;27:19;29:19;51:24; 25:26:15;27:19;29:19;51:24; 25:26:15;27:19;29:19;51:24; 25:26:15;27:19;29:19;51:24; 25:26:15;27:19;29:19;51:24; 25:26:15;27:19;29:19;51:24; 25:26:15;27:19;29:19;51:24; 25:26:10;27:19;29:19;51:24; 25:26:15;27:19;29:19;51:24; 25:26:15;27:19;29:19;51:24; 25:21:20;13:20; 118:39;21:20; 118:39;21:20; 118:39;21:20; 118:39;21:20; 118:39;21:20; 118:15 26:11 26:12 20:21 23:4;27:5,14;28:4;29:9; 23:2;21:33;21:1;30;21:1 20:21 23:22:21;32:11;30;21 23:22:23 23:23;21:2,10,14,18; 20:22:23;22:44 23:23;21:12,10,14,18, 20:23;22:24;40:5;45:4,14,14; 20:23;22:24;40:5;45:4,14,14; 20:23;23:21:12,10 20:23;23:21:12,10 20:23;23:23:23;23:2	noncommercial (3)	obligations (2)		
59:1,8,17 70:2,10;71:4 15:13;17:6,16;20:14;27:13; 25;26:15;27:19;29:19;51:24; non-consenting (3) obtained (1) 33:24;41:4;42:10;44:18;46:3; 56:10;57:9;90:24;91:20; 8:20;17:11;118:22 115:23 48:21;53:8;54:24;57:18;61:13; 16:25;117:2 none (6) obtaining (1) 64:21;67:3;68:16;69:2;74:17, 17:21;76:23;81:291:6;92:1,3; 116:25;117:2 105:5;106:10 obtains (1) 17:21;76:23;81:291:6;92:1,3; 18:8;98:24 non-operating (1) 42:5 118:5;120:4;122:8 organization (2) 18:25 occupation (4) 63:3;79:9;118:22;119:3 64:25;77:15;105:12;112:17 72:23;92:24 nor (2) 52:1 ongoing (3) others (1) nor (2) 52:1 33:24;43:4;39:4 0thers (1) normal (3) 44:9;51:8;89:15 occur (3) 0nline (1) 0therwise (2) north (3) 22:21;32:11;87:19 occurred (1) 9:13;22:24;40:5;45:4,14,14; 50:8 61:3;80:14;81:12 occurs (1) 95:15 open (1) 23:4;27:5,14;28:4;29:9; 81:13;102:11 October (1) 118:15 33:				
non-consenting (3) obtained (1) 33:24;41:4;42:10;44:18;46:3; 56:10;57:9;90:24;91:20; 8:20;17:11;118:22 115:23 48:21;53:8;54:24;57:18;61:13; 56:10;57:9;90:24;91:20; none (6) obtaining (1) 64:21;67:3;68:16;69:2;74:17, 11:3;100:20;102:12;103:24; 72:20 17,21;76:23;81:2;91:692:1,3; obtains (1) 118:5;120:4;122:8 original (2) 18:8,98:24 original (2) 18:25 occupation (4) occup (1) ones (4) originally (2) 14:11;99:14 off:1,2 occup (1) ongoing (3) online (1) others (1) others (1) others (1) otherwise (2) 44:11;99:14 otherwise (2) 13:22;21;32:11;87:19 occurred (1) only (11) ought (1) 50:8 53:9;111:13 ought (1) 50:8 ought (1) 50:8 ought (1) 50:8 out (22) 23:4;27:5,14;28:4;29:9; 33:25;35:16;39:23,24;43:7; opening (9) 44:4;19;72:13;89:6;93:11; 94:19,22;95:13;96:1,23;97:9;				
8:20;17:11;118:22				
none (6) obtaining (1) 64:21;67:3;68:16;69:2;74:17, 17:21;76:23;81:2;91:6;92:1,3; 105:5;106:10 organization (2) non-operating (1) 42:5 96:13;103:13;109:5;115:23; 118:5;120:4;122:8 original (2) 18:25 occupation (4) ones (4) originally (2) 67:1,2 67:1,2 occupy (1) ongoing (3) others (1) 10:14;119:19 52:1 33:24;34:4;39:4 others (1) 10:14;119:19 occur (3) online (1) otherwise (2) normal (3) 44:9;51:8;89:15 56:8 53:9;111:13 02:21;32:11;87:19 occurred (1) 9:13;22:24;40:5;45:4,14,14; 50:8 01;14;81:12 occurs (1) 9:13;22:24;40:5;45:4,14,14; 50:8 01;13;102:11 occurs (1) 95:15 open (1) 23:4;27:5,14;28:4;29:9; 118:15 33:25;35:16;39:23,24;43:7; 33:25;35:16;39:23,24;43:7; originally (2) 10:14;119:19 occur (3) oll (1) 0thers (1) 0thers (1) 0thers (1) 05:8 10:14;119:19 occurs (1) 9:13;22:24;40:5;45:4,14,14; 20:22 0thers (1)				
11:3;100:20;102:12;103:24; 72:20 17,21;76:23;81:2;91:6;92:1,3; 18:8;98:24 non-operating (1) 42:5 96:13;103:13;109:5;115:23; 72:23;92:24 18:25 occupation (4) ones (4) 72:23;92:24 67:1,2 occupy (1) 63:3;79:9;118:22;119:3 64:25;77:15;105:12;112:17 0thers (1) nor (2) 52:1 33:24;34:4;39:4 0thers (1) 10:14;119:19 occur (3) online (1) 0therwise (2) 10:14;19:19 44:9;51:8;89:15 only (11) 0therwise (2) 56:8 56:8 53:9;111:13 02:21;32:11;87:19 occurred (1) 9:13;22:24;40:5;45:4,14,14; 50:8 6:13;80:14;81:12 occurs (1) 58:24;59:15,24;87:18;115:19 out (22) northeast (2) 95:15 open (1) 23:4;27:5,14;28:4;29:9; 81:13;102:11 October (1) 118:15 33:25;35:16;39:23,24;43:7; northwest (6) 122:20 opening (9) 44:4,19;72:13;89:6;93:11; 48:13;69:13;71:18;81:3; off (10) 8:14,17;9:8,23;11:2,10,14,18, 94:19,22;95:13;96:1,23;97:9;				
non-operating (1) 42:5 118:5;120:4;122:8 72:23;92:24 18:25 occupation (4) ones (4) originally (2) nonresponsive (2) 63:3;79:9;118:22;119:3 64:25;77:15;105:12;112:17 14:11;99:14 67:1,2 occupy (1) ongoing (3) others (1) nor (2) 52:1 33:24;34:4;39:4 64:1 10:14;119:19 occur (3) online (1) Otherwise (2) normal (3) 44:9;51:8;89:15 56:8 53:9;111:13 22:21;32:11;87:19 occurred (1) only (11) ought (1) North (3) 26:16 9:13;22:24;40:5;45:4,14,14; 50:8 6:13;80:14;81:12 occurs (1) 58:24;59:15,24;87:18;115:19 out (22) northeast (2) 95:15 open (1) 23:4;27:5,14;28:4;29:9; 81:13;102:11 October (1) 118:15 33:25;35:16;39:23,24;43:7; northwest (6) 122:20 opening (9) 44:4,19;72:13;89:6;93:11; 48:13;69:13;71:18;81:13; off (10) 8:14,17;9:8,23;11:2,10,14,18, 94:19,22;95:13;96:1,23;97:9;		3 , ,		
18:25 occupation (4) ones (4) originally (2) nonresponsive (2) 63:3;79:9;118:22;119:3 64:25;77:15;105:12;112:17 14:11;99:14 67:1,2 occupy (1) ongoing (3) others (1) nor (2) 52:1 33:24;34:4;39:4 64:1 10:14;119:19 occur (3) online (1) Otherwise (2) normal (3) 44:9;51:8;89:15 56:8 53:9;111:13 22:21;32:11;87:19 occurred (1) only (11) ought (1) North (3) 26:16 9:13;22:24;40:5;45:4,14,14; 50:8 6:13;80:14;81:12 occurs (1) 58:24;59:15,24;87:18;115:19 out (22) northeast (2) 95:15 open (1) 23:4;27:5,14;28:4;29:9; 81:13;102:11 October (1) 118:15 33:25;35:16;39:23,24;43:7; northwest (6) 122:20 opening (9) 44:4,19;72:13;89:6;93:11; 48:13;69:13;71:18;81:13; off (10) 8:14,17;9:8,23;11:2,10,14,18, 94:19,22;95:13;96:1,23;97:9;			96:13;103:13;109:5;115:23;	
nonresponsive (2) 63:3;79:9;118:22;119:3 64:25;77:15;105:12;112:17 14:11;99:14 67:1,2 occupy (1) ongoing (3) others (1) nor (2) 52:1 33:24;34:4;39:4 64:1 10:14;119:19 occur (3) online (1) Otherwise (2) normal (3) 44:9;51:8;89:15 56:8 53:9;111:13 22:21;32:11;87:19 occurred (1) only (11) ought (1) North (3) 26:16 9:13;22:24;40:5;45:4,14,14; 50:8 6:13;80:14;81:12 occurs (1) 58:24;59:15,24;87:18;115:19 out (22) northeast (2) 95:15 open (1) 23:4;27:5,14;28:4;29:9; 81:13;102:11 October (1) 118:15 33:25;35:16;39:23,24;43:7; northwest (6) 122:20 opening (9) 44:4,19;72:13;89:6;93:11; 48:13;69:13;71:18;81:13; off (10) 8:14,17;9:8,23;11:2,10,14,18, 94:19,22;95:13;96:1,23;97:9;				
67:1,2 occupy (1) ongoing (3) others (1) nor (2) 52:1 33:24;34:4;39:4 64:1 10:14;119:19 occur (3) online (1) Otherwise (2) normal (3) 44:9;51:8;89:15 56:8 53:9;111:13 22:21;32:11;87:19 occurred (1) only (11) ought (1) North (3) 26:16 9:13;22:24;40:5;45:4,14,14; 50:8 6:13;80:14;81:12 occurs (1) 58:24;59:15,24;87:18;115:19 out (22) northeast (2) 95:15 open (1) 23:4;27:5,14;28:4;29:9; 81:13;102:11 October (1) 118:15 33:25;35:16;39:23,24;43:7; northwest (6) 122:20 opening (9) 44:4,19;72:13;89:6;93:11; 48:13;69:13;71:18;81:13; off (10) 8:14,17;9:8,23;11:2,10,14,18, 94:19,22;95:13;96:1,23;97:9;				
nor (2) 52:1 33:24;34:4;39:4 64:1 10:14;119:19 occur (3) online (1) Otherwise (2) normal (3) 44:9;51:8;89:15 56:8 53:9;111:13 22:21;32:11;87:19 occurred (1) only (11) ought (1) North (3) 26:16 9:13;22:24;40:5;45:4,14,14; 50:8 6:13;80:14;81:12 occurs (1) 58:24;59:15,24;87:18;115:19 out (22) northeast (2) 95:15 open (1) 23:4;27:5,14;28:4;29:9; 81:13;102:11 October (1) 118:15 33:25;35:16;39:23,24;43:7; northwest (6) 122:20 opening (9) 44:4,19;72:13;89:6;93:11; 48:13;69:13;71:18;81:13; off (10) 8:14,17;9:8,23;11:2,10,14,18, 94:19,22;95:13;96:1,23;97:9;				,
10:14;119:19 occur (3) online (1) Otherwise (2) normal (3) 44:9;51:8;89:15 56:8 53:9;111:13 22:21;32:11;87:19 occurred (1) only (11) ought (1) North (3) 26:16 9:13;22:24;40:5;45:4,14,14; 50:8 6:13;80:14;81:12 occurs (1) 58:24;59:15,24;87:18;115:19 out (22) northeast (2) 95:15 open (1) 23:4;27:5,14;28:4;29:9; 81:13;102:11 October (1) 118:15 33:25;35:16;39:23,24;43:7; northwest (6) 122:20 opening (9) 44:4,19;72:13;89:6;93:11; 48:13;69:13;71:18;81:13; off (10) 8:14,17;9:8,23;11:2,10,14,18, 94:19,22;95:13;96:1,23;97:9;		20 1		
normal (3) 44:9;51:8;89:15 56:8 53:9;111:13 22:21;32:11;87:19 occurred (1) only (11) ought (1) North (3) 26:16 9:13;22:24;40:5;45:4,14,14; 50:8 6:13;80:14;81:12 occurs (1) 58:24;59:15,24;87:18;115:19 out (22) northeast (2) 95:15 open (1) 23:4;27:5,14;28:4;29:9; 81:13;102:11 October (1) 118:15 33:25;35:16;39:23,24;43:7; northwest (6) 122:20 opening (9) 44:4,19;72:13;89:6;93:11; 48:13;69:13;71:18;81:13; off (10) 8:14,17;9:8,23;11:2,10,14,18, 94:19,22;95:13;96:1,23;97:9;				
22:21;32:11;87:19 occurred (1) only (11) ought (1) North (3) 26:16 9:13;22:24;40:5;45:4,14,14; 50:8 6:13;80:14;81:12 occurs (1) 58:24;59:15,24;87:18;115:19 out (22) northeast (2) 95:15 open (1) 23:4;27:5,14;28:4;29:9; 81:13;102:11 October (1) 118:15 33:25;35:16;39:23,24;43:7; northwest (6) 122:20 opening (9) 44:4,19;72:13;89:6;93:11; 48:13;69:13;71:18;81:13; off (10) 8:14,17;9:8,23;11:2,10,14,18, 94:19,22;95:13;96:1,23;97:9;			, ,	7 7
6:13;80:14;81:12 occurs (1) 58:24;59:15,24;87:18;115:19 out (22) northeast (2) 95:15 open (1) 23:4;27:5,14;28:4;29:9; 81:13;102:11 October (1) 118:15 33:25;35:16;39:23,24;43:7; northwest (6) 122:20 opening (9) 44:4,19;72:13;89:6;93:11; 48:13;69:13;71:18;81:13; off (10) 8:14,17;9:8,23;11:2,10,14,18, 94:19,22;95:13;96:1,23;97:9;	22:21;32:11;87:19			ought (1)
northeast (2) 95:15 open (1) 23:4;27:5,14;28:4;29:9; 81:13;102:11 October (1) 118:15 33:25;35:16;39:23,24;43:7; northwest (6) 122:20 opening (9) 44:4,19;72:13;89:6;93:11; 48:13;69:13;71:18;81:13; off (10) 8:14,17;9:8,23;11:2,10,14,18, 94:19,22;95:13;96:1,23;97:9;				
81:13;102:11 October (1) 118:15 33:25;35:16;39:23,24;43:7; northwest (6) 122:20 opening (9) 44:4,19;72:13;89:6;93:11; 48:13;69:13;71:18;81:13; off (10) 8:14,17;9:8,23;11:2,10,14,18, 94:19,22;95:13;96:1,23;97:9;				
northwest (6) 122:20 opening (9) 44:4,19;72:13;89:6;93:11; 48:13;69:13;71:18;81:13; off (10) 8:14,17;9:8,23;11:2,10,14,18, 94:19,22;95:13;96:1,23;97:9;				
48:13;69:13;71:18;81:13; off (10) 8:14,17;9:8,23;11:2,10,14,18, 94:19,22;95:13;96:1,23;97:9;		October (1)		55:25;55:10;59:25,24;45:7;
		122.20	opening (9)	11.1 10.72.13.80.6.03.11.
	48:13:69:13:71:18:81:13:			

outside (8)	participate (18)	101:2;102:2,3,14,15,16,16;	piggyback (1)
15:23;23:18;64:10;65:1,13;	17:7,10,17,20;20:12,19;27:9;	107:12,22;108:2,6,15,19;109:5,	56:20
98:20,22;100:17	30:7;58:25;59:1,4,5,7,16;	9;111:18	Piotrowski (80)
over (9)	63:14;106:20;116:24;117:5	penalties (2)	9:23,25;10:25;32:19,22;43:2,
6:17;14:4;19:13;29:19;77:3;	participated (2)	41:25;42:3	3,4;46:19,20,22,24;47:1,8,10;
79:11;83:9;92:12;97:2	24:20;72:20	penalty (14)	48:20,24;49:3;52:23;53:1,8,10;
overhead (1)	participating (2)	20:15;32:24;33:1;36:3;37:5,	55:4;58:23;62:4,7,9,12;67:11;
83:6	17:3;122:16	5,22;40:21;41:20;58:23;59:13,	68:18;69:7,9;70:3,6,9;73:12,
own (3)	participation (1)	24;60:5;68:17	25;74:2;76:10,23;89:24;90:2,5,
9:5;40:1;116:16	16:24	Pennsylvania (1)	7,9,10;93:10,12,14;94:6,8,24;
owned (6)	particular (12)	121:18	97:11,13;98:6,8,13,16;104:18,
47:17;48:3;74:25;86:18;	20:5,9;39:24;41:4;42:13;	People (10)	19;105:17;107:2,3;109:12;
102:4;108:14	43:12;71:7;83:4;95:17;99:19,	6:25;35:14;37:10,13;65:3;	110:13,15,17;111:7,9,10;112:3,
owner (26)	23;104:21	66:23,24;111:21;112:12;116:9	4,21,23;113:16,18,20;115:15,
17:6,18;20:12,19;24:10,17;	Parties (5)	people's (1)	17;119:7
26:16;28:11;30:18;38:17;39:1,	7:22;18:1;40:5;51:21;113:11	89:9	Piotrowski's (2)
2;58:3,25;59:17;66:10;74:12;	partner (7)	per (6)	59:20;119:14
76:25;77:3;100:24;102:19;	12:15;29:15,23;30:7;35:10,	27:14;44:10,11;67:24;	pipe (1)
108:5;111:2;121:11;122:9,10	11,24	121:17,19	96:18
owners (43)	partners (13)	percent (32)	pipeline (1)
8:11,15,20;10:8,19,24;11:1;	16:12,15,16;18:22;20:10,16,	20:17,18;32:25;33:8,15,21;	56:17
13:4;20:13;23:11;27:9;31:16;	17;29:9;34:8,10;36:5,9;68:21	34:9,16,16,24,25;36:4,10,10;	place (4)
33:15,22;35:19;38:23;41:20;	partway (1)	37:6,14;38:24;40:20;41:25;	31:21;54:11;69:18;76:2
48:4;52:2,3,7;57:10;58:4;	80:22	42:2;65:8,9,11,12,15;75:21,22;	places (1)
59:22;64:8,18;65:18;66:14;	party (3)	114:8,8;121:18,19,23	25:2
70:16;100:25;101:16,22;	10:16;17:19;18:13	percentage (2)	placing (1)
102:20;105:3,7;107:7,8;	pass (1)	34:13;122:1	44:12
109:19;115:24;116:23;117:3;	89:19	perforate (1)	plan (7)
121:25;122:1	passes (3)	87:22	83:5;84:12,14,15;92:4,22;
owners' (3)	30:19;56:12;85:8	perforated (1)	93:2
56:25;57:24;118:23	past (3)	87:11	planned (1)
56:25;57:24;118:23 ownership (2)	past (3) 74:25;97:8;114:20	87:11 perforations (1)	planned (1) 83:1
ownership (2)	74:25;97:8;114:20	perforations (1)	83:1
ownership (2) 109:10;114:20	74:25;97:8;114:20 path (8)	perforations (1) 94:22	83:1 plans (5)
ownership (2) 109:10;114:20 owns (2) 43:18;100:8	74:25;97:8;114:20 path (8) 60:22;80:6,9,23;83:8,20;	perforations (1) 94:22 perhaps (2)	83:1 plans (5) 50:11,16,16;51:5;57:2
ownership (2) 109:10;114:20 owns (2)	74:25;97:8;114:20 path (8) 60:22;80:6,9,23;83:8,20; 84:1;91:3	perforations (1) 94:22 perhaps (2) 29:3;95:8	83:1 plans (5) 50:11,16,16;51:5;57:2 plat (11) 14:11,15;15:6,14;69:11; 71:19;75:25;76:3;85:24;99:15,
ownership (2) 109:10;114:20 owns (2) 43:18;100:8	74:25;97:8;114:20 path (8) 60:22;80:6,9,23;83:8,20; 84:1;91:3 pathology (1) 106:7 patience (1)	perforations (1) 94:22 perhaps (2) 29:3;95:8 period (3)	83:1 plans (5) 50:11,16,16;51:5;57:2 plat (11) 14:11,15;15:6,14;69:11; 71:19;75:25;76:3;85:24;99:15, 20
ownership (2) 109:10;114:20 owns (2) 43:18;100:8	74:25;97:8;114:20 path (8) 60:22;80:6,9,23;83:8,20; 84:1;91:3 pathology (1) 106:7 patience (1) 113:21	perforations (1) 94:22 perhaps (2) 29:3;95:8 period (3) 28:4;66:15;122:17 perm (1) 95:19	83:1 plans (5) 50:11,16,16;51:5;57:2 plat (11) 14:11,15;15:6,14;69:11; 71:19;75:25;76:3;85:24;99:15, 20 Please (17)
ownership (2) 109:10;114:20 owns (2) 43:18;100:8	74:25;97:8;114:20 path (8) 60:22;80:6,9,23;83:8,20; 84:1;91:3 pathology (1) 106:7 patience (1)	perforations (1) 94:22 perhaps (2) 29:3;95:8 period (3) 28:4;66:15;122:17 perm (1)	83:1 plans (5) 50:11,16,16;51:5;57:2 plat (11) 14:11,15;15:6,14;69:11; 71:19;75:25;76:3;85:24;99:15, 20 Please (17) 7:5,6,7,19;9:5;11:21,23;19:6;
ownership (2) 109:10;114:20 owns (2) 43:18;100:8 P Pa (1) 8:21 page (11)	74:25;97:8;114:20 path (8) 60:22;80:6,9,23;83:8,20; 84:1;91:3 pathology (1) 106:7 patience (1) 113:21 Patricia (1) 108:10	perforations (1) 94:22 perhaps (2) 29:3;95:8 period (3) 28:4;66:15;122:17 perm (1) 95:19 permeability (1) 95:6	83:1 plans (5) 50:11,16,16;51:5;57:2 plat (11) 14:11,15;15:6,14;69:11; 71:19;75:25;76:3;85:24;99:15, 20 Please (17) 7:5,6,7,19;9:5;11:21,23;19:6; 20:24;52:23;67:17;69:10;
ownership (2) 109:10;114:20 owns (2) 43:18;100:8 P Pa (1) 8:21 page (11) 7:20,20,24;13:24;14:7;15:5;	74:25;97:8;114:20 path (8) 60:22;80:6,9,23;83:8,20; 84:1;91:3 pathology (1) 106:7 patience (1) 113:21 Patricia (1) 108:10 patrolling (1)	perforations (1) 94:22 perhaps (2) 29:3;95:8 period (3) 28:4;66:15;122:17 perm (1) 95:19 permeability (1) 95:6 permit (2)	83:1 plans (5) 50:11,16,16;51:5;57:2 plat (11) 14:11,15;15:6,14;69:11; 71:19;75:25;76:3;85:24;99:15, 20 Please (17) 7:5,6,7,19;9:5;11:21,23;19:6; 20:24;52:23;67:17;69:10; 79:24;93:20;101:4;104:2;
ownership (2) 109:10;114:20 owns (2) 43:18;100:8 P Pa (1) 8:21 page (11) 7:20,20,24;13:24;14:7;15:5; 46:24;47:2;82:21;84:11;92:6	74:25;97:8;114:20 path (8) 60:22;80:6,9,23;83:8,20; 84:1;91:3 pathology (1) 106:7 patience (1) 113:21 Patricia (1) 108:10 patrolling (1) 12:24	perforations (1) 94:22 perhaps (2) 29:3;95:8 period (3) 28:4;66:15;122:17 perm (1) 95:19 permeability (1) 95:6 permit (2) 92:24,24	83:1 plans (5) 50:11,16,16;51:5;57:2 plat (11) 14:11,15;15:6,14;69:11; 71:19;75:25;76:3;85:24;99:15, 20 Please (17) 7:5,6,7,19;9:5;11:21,23;19:6; 20:24;52:23;67:17;69:10; 79:24;93:20;101:4;104:2; 108:23
ownership (2) 109:10;114:20 owns (2) 43:18;100:8 P Pa (1) 8:21 page (11) 7:20,20,24;13:24;14:7;15:5; 46:24;47:2;82:21;84:11;92:6 paid (15)	74:25;97:8;114:20 path (8) 60:22;80:6,9,23;83:8,20; 84:1;91:3 pathology (1) 106:7 patience (1) 113:21 Patricia (1) 108:10 patrolling (1) 12:24 pause (1)	perforations (1) 94:22 perhaps (2) 29:3;95:8 period (3) 28:4;66:15;122:17 perm (1) 95:19 permeability (1) 95:6 permit (2) 92:24,24 permitted (1)	83:1 plans (5) 50:11,16,16;51:5;57:2 plat (11) 14:11,15;15:6,14;69:11; 71:19;75:25;76:3;85:24;99:15, 20 Please (17) 7:5,6,7,19;9:5;11:21,23;19:6; 20:24;52:23;67:17;69:10; 79:24;93:20;101:4;104:2; 108:23 plots (1)
ownership (2) 109:10;114:20 owns (2) 43:18;100:8 P Pa (1) 8:21 page (11) 7:20,20,24;13:24;14:7;15:5; 46:24;47:2;82:21;84:11;92:6 paid (15) 22:9,17,25;23:4,8;27:3;33:6,	74:25;97:8;114:20 path (8) 60:22;80:6,9,23;83:8,20; 84:1;91:3 pathology (1) 106:7 patience (1) 113:21 Patricia (1) 108:10 patrolling (1) 12:24 pause (1) 78:7	perforations (1) 94:22 perhaps (2) 29:3;95:8 period (3) 28:4;66:15;122:17 perm (1) 95:19 permeability (1) 95:6 permit (2) 92:24,24 permitted (1) 51:25	83:1 plans (5) 50:11,16,16;51:5;57:2 plat (11) 14:11,15;15:6,14;69:11; 71:19;75:25;76:3;85:24;99:15, 20 Please (17) 7:5,6,7,19;9:5;11:21,23;19:6; 20:24;52:23;67:17;69:10; 79:24;93:20;101:4;104:2; 108:23 plots (1) 72:14
ownership (2) 109:10;114:20 owns (2) 43:18;100:8 P Pa (1) 8:21 page (11) 7:20,20,24;13:24;14:7;15:5; 46:24;47:2;82:21;84:11;92:6 paid (15) 22:9,17,25;23:4,8;27:3;33:6, 16;34:6;35:25;36:19;40:13;	74:25;97:8;114:20 path (8) 60:22;80:6,9,23;83:8,20; 84:1;91:3 pathology (1) 106:7 patience (1) 113:21 Patricia (1) 108:10 patrolling (1) 12:24 pause (1) 78:7 paused (1)	perforations (1) 94:22 perhaps (2) 29:3;95:8 period (3) 28:4;66:15;122:17 perm (1) 95:19 permeability (1) 95:6 permit (2) 92:24,24 permitted (1) 51:25 permitting (1)	83:1 plans (5) 50:11,16,16;51:5;57:2 plat (11) 14:11,15;15:6,14;69:11; 71:19;75:25;76:3;85:24;99:15, 20 Please (17) 7:5,6,7,19;9:5;11:21,23;19:6; 20:24;52:23;67:17;69:10; 79:24;93:20;101:4;104:2; 108:23 plots (1) 72:14 plugged (2)
ownership (2) 109:10;114:20 owns (2) 43:18;100:8 P Pa (1) 8:21 page (11) 7:20,20,24;13:24;14:7;15:5; 46:24;47:2;82:21;84:11;92:6 paid (15) 22:9,17,25;23:4,8;27:3;33:6, 16;34:6;35:25;36:19;40:13; 59:25;60:1;67:22	74:25;97:8;114:20 path (8) 60:22;80:6,9,23;83:8,20; 84:1;91:3 pathology (1) 106:7 patience (1) 113:21 Patricia (1) 108:10 patrolling (1) 12:24 pause (1) 78:7 paused (1) 78:9	perforations (1) 94:22 perhaps (2) 29:3;95:8 period (3) 28:4;66:15;122:17 perm (1) 95:19 permeability (1) 95:6 permit (2) 92:24,24 permitted (1) 51:25 permitting (1) 13:13	83:1 plans (5) 50:11,16,16;51:5;57:2 plat (11) 14:11,15;15:6,14;69:11; 71:19;75:25;76:3;85:24;99:15, 20 Please (17) 7:5,6,7,19;9:5;11:21,23;19:6; 20:24;52:23;67:17;69:10; 79:24;93:20;101:4;104:2; 108:23 plots (1) 72:14 plugged (2) 54:25;87:13
ownership (2) 109:10;114:20 owns (2) 43:18;100:8 P Pa (1) 8:21 page (11) 7:20,20,24;13:24;14:7;15:5; 46:24;47:2;82:21;84:11;92:6 paid (15) 22:9,17,25;23:4,8;27:3;33:6, 16;34:6;35:25;36:19;40:13; 59:25;60:1;67:22 paragraph (2)	74:25;97:8;114:20 path (8) 60:22;80:6,9,23;83:8,20; 84:1;91:3 pathology (1) 106:7 patience (1) 113:21 Patricia (1) 108:10 patrolling (1) 12:24 pause (1) 78:7 paused (1) 78:9 pay (19)	perforations (1) 94:22 perhaps (2) 29:3;95:8 period (3) 28:4;66:15;122:17 perm (1) 95:19 permeability (1) 95:6 permit (2) 92:24,24 permitted (1) 51:25 permitting (1) 13:13 person (3)	83:1 plans (5) 50:11,16,16;51:5;57:2 plat (11) 14:11,15;15:6,14;69:11; 71:19;75:25;76:3;85:24;99:15, 20 Please (17) 7:5,6,7,19;9:5;11:21,23;19:6; 20:24;52:23;67:17;69:10; 79:24;93:20;101:4;104:2; 108:23 plots (1) 72:14 plugged (2) 54:25;87:13 plugging (1)
ownership (2) 109:10;114:20 owns (2) 43:18;100:8 P Pa (1) 8:21 page (11) 7:20,20,24;13:24;14:7;15:5; 46:24;47:2;82:21;84:11;92:6 paid (15) 22:9,17,25;23:4,8;27:3;33:6, 16;34:6;35:25;36:19;40:13; 59:25;60:1;67:22 paragraph (2) 25:10,24	74:25;97:8;114:20 path (8) 60:22;80:6,9,23;83:8,20; 84:1;91:3 pathology (1) 106:7 patience (1) 113:21 Patricia (1) 108:10 patrolling (1) 12:24 pause (1) 78:7 paused (1) 78:9 pay (19) 24:10,17;25:4,10;26:8,25;	perforations (1) 94:22 perhaps (2) 29:3;95:8 period (3) 28:4;66:15;122:17 perm (1) 95:19 permeability (1) 95:6 permit (2) 92:24,24 permitted (1) 51:25 permitting (1) 13:13 person (3) 6:21,25;33:5	83:1 plans (5) 50:11,16,16;51:5;57:2 plat (11) 14:11,15;15:6,14;69:11; 71:19;75:25;76:3;85:24;99:15, 20 Please (17) 7:5,6,7,19;9:5;11:21,23;19:6; 20:24;52:23;67:17;69:10; 79:24;93:20;101:4;104:2; 108:23 plots (1) 72:14 plugged (2) 54:25;87:13 plugging (1) 94:17
ownership (2) 109:10;114:20 owns (2) 43:18;100:8 P Pa (1) 8:21 page (11) 7:20,20,24;13:24;14:7;15:5; 46:24;47:2;82:21;84:11;92:6 paid (15) 22:9,17,25;23:4,8;27:3;33:6, 16;34:6;35:25;36:19;40:13; 59:25;60:1;67:22 paragraph (2) 25:10,24 paragraphs (1)	74:25;97:8;114:20 path (8) 60:22;80:6,9,23;83:8,20; 84:1;91:3 pathology (1) 106:7 patience (1) 113:21 Patricia (1) 108:10 patrolling (1) 12:24 pause (1) 78:7 paused (1) 78:9 pay (19) 24:10,17;25:4,10;26:8,25; 27:3,6;34:1,19,19;35:15;59:5;	perforations (1) 94:22 perhaps (2) 29:3;95:8 period (3) 28:4;66:15;122:17 perm (1) 95:19 permeability (1) 95:6 permit (2) 92:24,24 permitted (1) 51:25 permitting (1) 13:13 person (3) 6:21,25;33:5 personal (5)	83:1 plans (5) 50:11,16,16;51:5;57:2 plat (11) 14:11,15;15:6,14;69:11; 71:19;75:25;76:3;85:24;99:15, 20 Please (17) 7:5,6,7,19;9:5;11:21,23;19:6; 20:24;52:23;67:17;69:10; 79:24;93:20;101:4;104:2; 108:23 plots (1) 72:14 plugged (2) 54:25;87:13 plugging (1) 94:17 plumb (3)
ownership (2) 109:10;114:20 owns (2) 43:18;100:8 P Pa (1) 8:21 page (11) 7:20,20,24;13:24;14:7;15:5; 46:24;47:2;82:21;84:11;92:6 paid (15) 22:9,17,25;23:4,8;27:3;33:6, 16;34:6;35:25;36:19;40:13; 59:25;60:1;67:22 paragraph (2) 25:10,24 paragraphs (1) 27:1	74:25;97:8;114:20 path (8) 60:22;80:6,9,23;83:8,20; 84:1;91:3 pathology (1) 106:7 patience (1) 113:21 Patricia (1) 108:10 patrolling (1) 12:24 pause (1) 78:7 paused (1) 78:9 pay (19) 24:10,17;25:4,10;26:8,25; 27:3,6;34:1,19,19;35:15;59:5; 87:20;88:8,14;90:23;121:19;	perforations (1) 94:22 perhaps (2) 29:3;95:8 period (3) 28:4;66:15;122:17 perm (1) 95:19 permeability (1) 95:6 permit (2) 92:24,24 permitted (1) 51:25 permitting (1) 13:13 person (3) 6:21,25;33:5 personal (5) 68:20;72:18,19;75:9;105:6	83:1 plans (5) 50:11,16,16;51:5;57:2 plat (11) 14:11,15;15:6,14;69:11; 71:19;75:25;76:3;85:24;99:15, 20 Please (17) 7:5,6,7,19;9:5;11:21,23;19:6; 20:24;52:23;67:17;69:10; 79:24;93:20;101:4;104:2; 108:23 plots (1) 72:14 plugged (2) 54:25;87:13 plugging (1) 94:17 plumb (3) 91:14,16,18
ownership (2) 109:10;114:20 owns (2) 43:18;100:8 P Pa (1) 8:21 page (11) 7:20,20,24;13:24;14:7;15:5; 46:24;47:2;82:21;84:11;92:6 paid (15) 22:9,17,25;23:4,8;27:3;33:6, 16;34:6;35:25;36:19;40:13; 59:25;60:1;67:22 paragraph (2) 25:10,24 paragraphs (1) 27:1 pardon (2)	74:25;97:8;114:20 path (8) 60:22;80:6,9,23;83:8,20; 84:1;91:3 pathology (1) 106:7 patience (1) 113:21 Patricia (1) 108:10 patrolling (1) 12:24 pause (1) 78:7 paused (1) 78:9 pay (19) 24:10,17;25:4,10;26:8,25; 27:3,6;34:1,19,19;35:15;59:5; 87:20;88:8,14;90:23;121:19; 122:5	perforations (1) 94:22 perhaps (2) 29:3;95:8 period (3) 28:4;66:15;122:17 perm (1) 95:19 permeability (1) 95:6 permit (2) 92:24,24 permitted (1) 51:25 permitting (1) 13:13 person (3) 6:21,25;33:5 personal (5) 68:20;72:18,19;75:9;105:6 personally (4)	83:1 plans (5) 50:11,16,16;51:5;57:2 plat (11) 14:11,15;15:6,14;69:11; 71:19;75:25;76:3;85:24;99:15, 20 Please (17) 7:5,6,7,19;9:5;11:21,23;19:6; 20:24;52:23;67:17;69:10; 79:24;93:20;101:4;104:2; 108:23 plots (1) 72:14 plugged (2) 54:25;87:13 plugging (1) 94:17 plumb (3) 91:14,16,18 plus (1)
ownership (2) 109:10;114:20 owns (2) 43:18;100:8 P Pa (1) 8:21 page (11) 7:20,20,24;13:24;14:7;15:5; 46:24;47:2;82:21;84:11;92:6 paid (15) 22:9,17,25;23:4,8;27:3;33:6, 16;34:6;35:25;36:19;40:13; 59:25;60:1;67:22 paragraph (2) 25:10,24 paragraphs (1) 27:1 pardon (2) 11:21;56:25	74:25;97:8;114:20 path (8) 60:22;80:6,9,23;83:8,20; 84:1;91:3 pathology (1) 106:7 patience (1) 113:21 Patricia (1) 108:10 patrolling (1) 12:24 pause (1) 78:7 paused (1) 78:9 pay (19) 24:10,17;25:4,10;26:8,25; 27:3,6;34:1,19,19;35:15;59:5; 87:20;88:8,14;90:23;121:19; 122:5 Payette (14)	perforations (1) 94:22 perhaps (2) 29:3;95:8 period (3) 28:4;66:15;122:17 perm (1) 95:19 permeability (1) 95:6 permit (2) 92:24,24 permitted (1) 51:25 permitting (1) 13:13 person (3) 6:21,25;33:5 personal (5) 68:20;72:18,19;75:9;105:6 personally (4) 53:22;72:23;75:4;77:12	83:1 plans (5) 50:11,16,16;51:5;57:2 plat (11) 14:11,15;15:6,14;69:11; 71:19;75:25;76:3;85:24;99:15, 20 Please (17) 7:5,6,7,19;9:5;11:21,23;19:6; 20:24;52:23;67:17;69:10; 79:24;93:20;101:4;104:2; 108:23 plots (1) 72:14 plugged (2) 54:25;87:13 plugging (1) 94:17 plumb (3) 91:14,16,18 plus (1) 33:4
ownership (2) 109:10;114:20 owns (2) 43:18;100:8 P Pa (1) 8:21 page (11) 7:20,20,24;13:24;14:7;15:5; 46:24;47:2;82:21;84:11;92:6 paid (15) 22:9,17,25;23:4,8;27:3;33:6, 16;34:6;35:25;36:19;40:13; 59:25;60:1;67:22 paragraph (2) 25:10,24 paragraphs (1) 27:1 pardon (2) 11:21;56:25 part (12)	74:25;97:8;114:20 path (8) 60:22;80:6,9,23;83:8,20; 84:1;91:3 pathology (1) 106:7 patience (1) 113:21 Patricia (1) 108:10 patrolling (1) 12:24 pause (1) 78:7 paused (1) 78:9 pay (19) 24:10,17;25:4,10;26:8,25; 27:3,6;34:1,19,19;35:15;59:5; 87:20;88:8,14;90:23;121:19; 122:5 Payette (14) 6:13;43:12,15;47:22,24;	perforations (1) 94:22 perhaps (2) 29:3;95:8 period (3) 28:4;66:15;122:17 perm (1) 95:19 permeability (1) 95:6 permit (2) 92:24,24 permitted (1) 51:25 permitting (1) 13:13 person (3) 6:21,25;33:5 personal (5) 68:20;72:18,19;75:9;105:6 personally (4) 53:22;72:23;75:4;77:12 phones (1)	83:1 plans (5) 50:11,16,16;51:5;57:2 plat (11) 14:11,15;15:6,14;69:11; 71:19;75:25;76:3;85:24;99:15, 20 Please (17) 7:5,6,7,19;9:5;11:21,23;19:6; 20:24;52:23;67:17;69:10; 79:24;93:20;101:4;104:2; 108:23 plots (1) 72:14 plugged (2) 54:25;87:13 plugging (1) 94:17 plumb (3) 91:14,16,18 plus (1) 33:4 pm (3)
ownership (2) 109:10;114:20 owns (2) 43:18;100:8 P Pa (1) 8:21 page (11) 7:20,20,24;13:24;14:7;15:5; 46:24;47:2;82:21;84:11;92:6 paid (15) 22:9,17,25;23:4,8;27:3;33:6, 16;34:6;35:25;36:19;40:13; 59:25;60:1;67:22 paragraph (2) 25:10,24 paragraphs (1) 27:1 pardon (2) 11:21;56:25 part (12) 24:25;29:5,11;34:18;38:25;	74:25;97:8;114:20 path (8) 60:22;80:6,9,23;83:8,20; 84:1;91:3 pathology (1) 106:7 patience (1) 113:21 Patricia (1) 108:10 patrolling (1) 12:24 pause (1) 78:7 paused (1) 78:9 pay (19) 24:10,17;25:4,10;26:8,25; 27:3,6;34:1,19,19;35:15;59:5; 87:20;88:8,14;90:23;121:19; 122:5 Payette (14) 6:13;43:12,15;47:22,24; 70:23;72:16;81:13,14;85:19;	perforations (1) 94:22 perhaps (2) 29:3;95:8 period (3) 28:4;66:15;122:17 perm (1) 95:19 permeability (1) 95:6 permit (2) 92:24,24 permitted (1) 51:25 permitting (1) 13:13 person (3) 6:21,25;33:5 personal (5) 68:20;72:18,19;75:9;105:6 personally (4) 53:22;72:23;75:4;77:12 phones (1) 7:6	83:1 plans (5) 50:11,16,16;51:5;57:2 plat (11) 14:11,15;15:6,14;69:11; 71:19;75:25;76:3;85:24;99:15, 20 Please (17) 7:5,6,7,19;9:5;11:21,23;19:6; 20:24;52:23;67:17;69:10; 79:24;93:20;101:4;104:2; 108:23 plots (1) 72:14 plugged (2) 54:25;87:13 plugging (1) 94:17 plumb (3) 91:14,16,18 plus (1) 33:4 pm (3) 7:16;122:17,24
ownership (2) 109:10;114:20 owns (2) 43:18;100:8 P Pa (1) 8:21 page (11) 7:20,20,24;13:24;14:7;15:5; 46:24;47:2;82:21;84:11;92:6 paid (15) 22:9,17,25;23:4,8;27:3;33:6, 16;34:6;35:25;36:19;40:13; 59:25;60:1;67:22 paragraph (2) 25:10,24 paragraphs (1) 27:1 pardon (2) 11:21;56:25 part (12) 24:25;29:5,11;34:18;38:25; 39:16;48:13;51:18;73:16;	74:25;97:8;114:20 path (8) 60:22;80:6,9,23;83:8,20; 84:1;91:3 pathology (1) 106:7 patience (1) 113:21 Patricia (1) 108:10 patrolling (1) 12:24 pause (1) 78:7 paused (1) 78:9 pay (19) 24:10,17;25:4,10;26:8,25; 27:3,6;34:1,19,19;35:15;59:5; 87:20;88:8,14;90:23;121:19; 122:5 Payette (14) 6:13;43:12,15;47:22,24; 70:23;72:16;81:13,14;85:19; 100:13;101:8;102:7;104:13	perforations (1) 94:22 perhaps (2) 29:3;95:8 period (3) 28:4;66:15;122:17 perm (1) 95:19 permeability (1) 95:6 permit (2) 92:24,24 permitted (1) 51:25 permitting (1) 13:13 person (3) 6:21,25;33:5 personal (5) 68:20;72:18,19;75:9;105:6 personally (4) 53:22;72:23;75:4;77:12 phones (1) 7:6 pick (1)	83:1 plans (5) 50:11,16,16;51:5;57:2 plat (11) 14:11,15;15:6,14;69:11; 71:19;75:25;76:3;85:24;99:15, 20 Please (17) 7:5,6,7,19;9:5;11:21,23;19:6; 20:24;52:23;67:17;69:10; 79:24;93:20;101:4;104:2; 108:23 plots (1) 72:14 plugged (2) 54:25;87:13 plugging (1) 94:17 plumb (3) 91:14,16,18 plus (1) 33:4 pm (3) 7:16;122:17,24 podium (1)
ownership (2) 109:10;114:20 owns (2) 43:18;100:8 P Pa (1) 8:21 page (11) 7:20,20,24;13:24;14:7;15:5; 46:24;47:2;82:21;84:11;92:6 paid (15) 22:9,17,25;23:4,8;27:3;33:6, 16;34:6;35:25;36:19;40:13; 59:25;60:1;67:22 paragraph (2) 25:10,24 paragraphs (1) 27:1 pardon (2) 11:21;56:25 part (12) 24:25;29:5,11;34:18;38:25; 39:16;48:13;51:18;73:16; 84:10;86:16;87:19	74:25;97:8;114:20 path (8) 60:22;80:6,9,23;83:8,20; 84:1;91:3 pathology (1) 106:7 patience (1) 113:21 Patricia (1) 108:10 patrolling (1) 12:24 pause (1) 78:7 paused (1) 78:9 pay (19) 24:10,17;25:4,10;26:8,25; 27:3,6;34:1,19,19;35:15;59:5; 87:20;88:8,14;90:23;121:19; 122:5 Payette (14) 6:13;43:12,15;47:22,24; 70:23;72:16;81:13,14;85:19; 100:13;101:8;102:7;104:13 payment (5)	perforations (1) 94:22 perhaps (2) 29:3;95:8 period (3) 28:4;66:15;122:17 perm (1) 95:19 permeability (1) 95:6 permit (2) 92:24,24 permitted (1) 51:25 permitting (1) 13:13 person (3) 6:21,25;33:5 personal (5) 68:20;72:18,19;75:9;105:6 personally (4) 53:22;72:23;75:4;77:12 phones (1) 7:6 pick (1) 118:2	83:1 plans (5) 50:11,16,16;51:5;57:2 plat (11) 14:11,15;15:6,14;69:11; 71:19;75:25;76:3;85:24;99:15, 20 Please (17) 7:5,6,7,19;9:5;11:21,23;19:6; 20:24;52:23;67:17;69:10; 79:24;93:20;101:4;104:2; 108:23 plots (1) 72:14 plugged (2) 54:25;87:13 plugging (1) 94:17 plumb (3) 91:14,16,18 plus (1) 33:4 pm (3) 7:16;122:17,24 podium (1) 7:1
ownership (2) 109:10;114:20 owns (2) 43:18;100:8 P Pa (1) 8:21 page (11) 7:20,20,24;13:24;14:7;15:5; 46:24;47:2;82:21;84:11;92:6 paid (15) 22:9,17,25;23:4,8;27:3;33:6, 16;34:6;35:25;36:19;40:13; 59:25;60:1;67:22 paragraph (2) 25:10,24 paragraphs (1) 27:1 pardon (2) 11:21;56:25 part (12) 24:25;29:5,11;34:18;38:25; 39:16;48:13;51:18;73:16;	74:25;97:8;114:20 path (8) 60:22;80:6,9,23;83:8,20; 84:1;91:3 pathology (1) 106:7 patience (1) 113:21 Patricia (1) 108:10 patrolling (1) 12:24 pause (1) 78:7 paused (1) 78:9 pay (19) 24:10,17;25:4,10;26:8,25; 27:3,6;34:1,19,19;35:15;59:5; 87:20;88:8,14;90:23;121:19; 122:5 Payette (14) 6:13;43:12,15;47:22,24; 70:23;72:16;81:13,14;85:19; 100:13;101:8;102:7;104:13	perforations (1) 94:22 perhaps (2) 29:3;95:8 period (3) 28:4;66:15;122:17 perm (1) 95:19 permeability (1) 95:6 permit (2) 92:24,24 permitted (1) 51:25 permitting (1) 13:13 person (3) 6:21,25;33:5 personal (5) 68:20;72:18,19;75:9;105:6 personally (4) 53:22;72:23;75:4;77:12 phones (1) 7:6 pick (1)	83:1 plans (5) 50:11,16,16;51:5;57:2 plat (11) 14:11,15;15:6,14;69:11; 71:19;75:25;76:3;85:24;99:15, 20 Please (17) 7:5,6,7,19;9:5;11:21,23;19:6; 20:24;52:23;67:17;69:10; 79:24;93:20;101:4;104:2; 108:23 plots (1) 72:14 plugged (2) 54:25;87:13 plugging (1) 94:17 plumb (3) 91:14,16,18 plus (1) 33:4 pm (3) 7:16;122:17,24 podium (1)

participant (2)

19:5;20:11

participants (2)

16:17;18:18

33:8

7:20

Pelican (16)

pdf (1)

piece (5)

pieces (1)

74:18

73:13;74:4,11,23;106:12

97:10

pointed (1)

44:19

pool (3)

89:16,19;90:16	94:10	6:1;24:21;119:5;122:24	117:24
pooled (2)	prefer (1)	process (4)	protection (2)
30:11,14	89:1	10:17;32:24;49:25;50:1	25:3;64:15
			*
pooling (2)	premises (1)	produce (11)	prove (1)
24:21,25	25:18	27:24;28:4;31:5,9,22;41:17;	45:18
porosity (2)	preparatory (1)	46:2;88:18;94:15;115:9,22	provide (8)
95:5,19	58:17	produced (3)	9:1,23;24:14;25:3,10;79:16;
portion (3)	prepared (9)	28:24;87:17,18	115:3;120:24
27:4;37:16;69:14	49:4;51:17;70:20;73:1;75:2,	produces (2)	provided (8)
portions (1)	25;85:5;91:2;106:11	45:4;95:20	6:8;26:15;49:6;88:10;92:1;
65:22	preparing (3)	producing (6)	114:10;115:23;119:25
portrait (1)	72:4,12;103:16	27:5;40:23;45:23;81:3;	provides (5)
21:2	presence (2)	94:20:95:2	24:10;25:16,25;43:23;115:25
		,	
portray (1)	24:12;115:10	production (4)	provision (2)
47:13	present (7)	16:19;41:13;86:11;88:1	57:15;114:9
position (1)	9:14;10:10;52:5;73:23;	productive (1)	Public (15)
116:2	116:17;117:14;120:15	87:5	6:16;10:11;43:6,18;70:23;
positions (2)	presentation (1)	professional (4)	73:5;74:17;77:1;88:12;104:12
39:13,16	8:24	12:22;13:1;18:7;106:8	110:19,23;111:14;116:12;
positively (1)	presented (2)	professionals (1)	122:17
66:18	7:21;116:15	96:6	publicly-recorded (1)
possession (1)	presiding (1)	progresses (1)	42:21
121:12	6:17	83:8	pulled (1)
possible (9)	pressurization (1)	progressively (2)	91:18
44:18,23;45:10;53:3;77:9,11;	118:16	82:6;84:2	pulling (1)
88:2;90:15;111:20	pretty (5)	prohibited (1)	56:2
Possibly (1)	48:14;52:15;54:18;93:8;	118:23	Pumper (2)
42:4	96:11	project (3)	33:25,25
post (1)	prevent (1)	35:13;63:25;117:20	pumpers (1)
80:10	94:17	promises (1)	34:1
post-drill (1)	preventing (1)	25:4	purchase (3)
84:15	45:23	promising (1)	31:1;35:11,11
posted (1)	previous (4)	26:8	purchased (6)
7:16	17:14;22:15;27:18;29:1	properly (1)	34:17;36:18;37:1;102:24;
postulate (1)	previously (2)	54:25	107:11;109:10
62:8	14:3;109:18	properties (29)	purchases (2)
potential (3)	price (2)	10:13;43:19,19;49:7;52:19;	117:17,19
10:17;96:21,23	36:19;122:5	53:4;71:20;86:3;87:2;100:9,15,	Pure (1)
potentially (1)	primary (2)	17,18;101:3,16;102:24;110:20;	50:15
		111:4,15,24;117:15,16,22,23;	
62:7	21:23;87:14		purely (2)
practical (1)	print (1)	118:1,9,10,19,23	117:17,18
60:16	21:1	property (61)	purple (1)
practice (2)	prior (21)	23:5;24:11,17,24;28:14,21;	48:15
13:8;71:3	17:15;18:13;24:4;29:9,11;	43:6,18;47:17;48:3,9;52:7;	purpose (1)
practicing (2)	36:1;59:22;65:21,24;67:22;	56:25,25;57:3,24;71:25;72:3,	64:14
12:25;79:10	70:17,18;72:15;73:2;74:12;	21;73:2;74:5;75:5;77:3;81:1,	purposes (1)
prebankruptcy (1)	77:3;100:25;108:14;109:9;	12,21;85:8,13,16;86:22,25;	117:23
34:22	114:7;116:3	90:18;100:12,13,24;101:22;	pursuant (1)
precipitate (1)	private (1)	102:10,20;103:22;104:11;	6:18
45:8	27:10	105:4;106:12;107:6,7,22;	pursuing (1)
precisely (1)	Probably (4)	108:14,19;109:1,8,17,19,24;	46:11
	• • •		
118:14	19:16;56:15,18;61:24	110:24;114:22;115:1;117:3,13;	put (6)
predated (1)	problem (1)	119:22;121:11,15;122:3	20:11;25:21;33:13;35:21;
73:8	45:22	propose (1)	88:24;89:4
predict (2)	problems (1)	56:5	putting (1)
28:6;95:1	45:25	proposed (8)	19:2
			17.2
predicted (2)	proceed (7)	21:14,21;25:25;27:1;50:18;	
85:2;86:13	8:14,18;12:7;19:7;62:22;	68:23;73:21;122:10	Q
Predominantly (1)	78:24;98:14	proposing (1)	
22:3	proceeding (11)	20:9	quality (5)
pre-drill (2)	10:9,16;14:3;17:14;63:17;	protect (5)	95:15;97:1,2,3;116:15
84:14;92:22	65:5;109:23;116:9,16,24;119:3	52:7;54:16,19,23;83:22	quarter (1)
preface (1)	PROCEEDINGS (4)	protected (1)	35:7

quickly (1)	51:23	relate (2)	104:11;107:21;108:3;116:8
54:18	recently (4)	99:10;101:13	researched (1)
quote (1)	10:7;24:6;28:14;75:17	related (5)	77:14
33:5	recess (1)	12:4;62:19;78:21;98:11;	reserves (6)
	78:5	103:22	41:13;74:13;88:16,18;90:23,
R	recesses (1)	relative (1)	24
	9:1	52:15	reservoir (12)
railroad (3)	recite (1)	relevant (3)	31:5,10,22;45:8,16,18,20;
	22:16	17:6;58:24;59:15	
69:19;86:18;93:19			88:6;90:16;95:7,18;115:9
raise (1)	recites (1)	relied (1)	reservoirs (6)
115:6	22:16	116:7	46:10;95:5,10,14,15;96:2
raised (2)	recollection (3)	rely (5)	residential (3)
76:22;114:17	18:4;41:24;112:15	43:6,17;72:13;74:18;121:1	117:14,18,23
Rand (2)	recommend (1)	relying (1)	resource (1)
103:11;107:17	119:1	116:6	31:25
Range (4)	record (27)	remaining (1)	respect (1)
6:13;12:11;32:11;41:22	6:5;7:12,12;9:3;10:11,12;	36:2	60:21
rate (4)	11:8;12:13;42:7;63:1;71:3,5;	remains (1)	respectively (1)
32:6,9;34:3;67:25	72:20;73:5;74:17;79:5;88:12;	27:24	91:4
rates (3)	104:12;110:23;111:14;112:11;	remarks (1)	respond (1)
			67:9
32:4;52:9;95:20	115:3;116:12;119:24;120:10;	11:10	
reach (3)	121:1,2	remember (5)	responded (4)
45:11;82:10;88:2	recorded (9)	74:22;84:22;87:24;103:9,10	14:25;66:16,17;120:9
reached (2)	6:22;7:3;22:22;42:8,9,10,15;	reminded (1)	response (6)
96:22;114:12	71:21;91:9	7:9	6:19;66:25;67:3,5,6;111:19
reading (1)	recorder (1)	remiss (1)	responsible (2)
54:5	119:21	113:16	13:11;63:15
ready (1)	recorder's (1)	renewal (2)	responsive (1)
19:7	77:2	21:21,24	15:2
real (2)	recording (8)	repeat (4)	rest (2)
23:3;71:17	6:24,24;70:22;71:2;78:7,9,	93:11,13,19;108:23	29:12;66:23
reality (1)	11;122:22	repeated (1)	result (4)
25:20	recording's (1)	111:17	10:16;36:18;53:20;118:19
	122:23		resume (11)
really (4)		rephrase (3)	
50:8;95:7;97:6;118:14	records (9)	52:24;67:17;74:1	15:10;64:7;65:7,12,16;66:13,
reason (9)	43:6,18;70:23;72:16;73:15;	reporter (2)	24;103:17,21;104:1;114:4
20:8;58:19;59:13;109:18,22;	77:18;101:6;110:19;111:16	7:3;105:19	resumed (1)
111:3,12,14;117:17	recoup (2)	reports (1)	78:11
reasonable (15)	33:4;34:5	67:9	retain (3)
8:5,7,9;10:24;27:25;32:6;	recouped (4)	represent (4)	60:22;62:9;75:4
40:21;52:25;56:19;90:15;	30:21;33:8,14,21	21:4,11;65:15;80:24	revenue (2)
114:13;115:9;117:11;121:13,	recovery (1)	representative (3)	16:20;17:2
17	33:22	9:5;11:4,14	review (3)
reasons (3)	red (2)	represented (1)	54:10;103:17;111:16
44:19;88:23;118:20	48:21;70:1	8:21	reviewing (1)
rebuttal (1)	redirect (7)	representing (2)	104:20
120:24	58:15,20;76:17,20;97:23;	9:6,12	reward (1)
recall (13)	110:13,16	request (1)	37:22
14:2,23;15:9;21:6;32:7;	reference (2)	115:12	Richard (4)
41:24;44:20;62:10;63:24;	91:8;103:25	requested (1)	9:14;11:25;12:3,14
		120:7	
66:16;70:10;74:24;75:2	referring (3)		ride (1)
receipts (1)	7:19;46:25;47:1	require (3)	59:11
104:24	reflect (2)	115:21;119:18,20	rig (1)
receive (1)	22:24;65:17	required (3)	88:24
8:2	reflects (3)	6:23;31:12;117:7	right (76)
received (7)	65:20;84:12;114:5	requirement (3)	12:16;14:13,18;15:12;19:18;
10:8,14;67:9;105:15;112:18;	regarding (6)	8:7;61:6;77:20	20:14,21;22:25;23:13;24:7;
116:10;119:5	8:3;57:15;61:14;105:16;	requirements (6)	25:5,14,18;27:8,10,20;35:22;
receivers (1)	106:22;112:18	114:3;115:20;117:10;	36:12;37:16,23;38:1,3,6,7,10,
97:5	regardless (1)	119:17;120:3,15	17,21,24;39:5,13,18,25;41:1,7
receiving (2)	76:6	requires (2)	42:11;43:21,24;44:14,25;
36:11;37:20	regularly (1)	117:8;119:23	45:13;46:4;47:20;48:11,22;
recent (1)	13:8	research (4)	54:15,21;55:2;57:22,25;58:9;
(-)	10.0		0, 21,00.2,07.22,20,00.7,

Snake River Oil and Gas, LLC			September 16, 2021
59:3,9;60:3,12;61:2;64:11;	running (2)	seem (1)	47:2;84:11;91:3;103:17
66:5;71:18;75:13,22;77:23;	81:25;94:19	74:3	shows (12)
81:5;83:5,25;84:13;88:21;	01.23,94.19	seems (2)	15:22;71:20;75:8;83:10,17;
90:19;92:5;96:18;97:22,25;	S	73:23;90:6	87:10;94:5;95:19;99:23;
109:11;111:24;113:9,10,20	В	sees (1)	100:20;119:25;120:1
right-hand (1)	safety (4)	49:1	side (11)
82:23	61:8,14,17,23	seismic (4)	7:5;48:22;81:2,13,13,14;
right-of-way (2)	sailor (1)	85:2;86:14;93:7;97:2	83:3,9,16;89:4;91:19
86:18;93:19	75:18	send (1)	side-view (1)
rights (20)	sale (7)	71:1	83:10
10:19;39:3;42:6;47:23;	28:17;34:24;35:1;36:18;	sense (1)	sign (1)
71:11,16,21,25;74:19,25;75:10;	38:15;40:6;74:15	89:4	111:22
100:19,21;102:6,13;105:10,14;	sales (1)	sent (4)	signed (2)
116:20,21;121:11	56:18	21:5,9;27:16;64:18	76:7;112:17
rigs (1)	same (16)	separate (1)	significant (3)
94:13	7:17;16:22;19:24;20:12;	80:3	10:6;31:13;35:9
rise (1)	45:11,15,15,17,19;46:5;50:4,5;	separated (1)	silence (1)
91:19	52:3;69:18;70:4;82:4	45:18	7:6
riser (6)	sample (2)	separately (1)	similar (6)
56:11,13,14,16,16;57:1	96:8,9	21:12	16:10;20:9;21:14;24:1;
risk (42)	Sand (33)	SEPTEMBER (3)	26:20;45:24
20:15;32:24,25;33:2;36:3;	45:12,17,17,17,24;46:6;81:3,	6:2,6;7:15	SIMMONS (5)
37:4,5,15,16,17,22,25;38:1,2,4,	3,3,4,7,8;84:7,13,19,21;86:7,7,	serious (2)	121:8,9,9;122:11,14
5,7,9,21,22;39:1,4,12,16;40:20;	10;87:6,14;90:16,20;91:4,4;	10:17;116:20	simple (6)
41:9,11,12,20,25;42:2;58:23;	93:3;94:19,20;95:9;96:15,16,	services (1)	74:9;94:19,21;117:16;118:7;
59:13,24;60:5;68:17;117:14,	17,17	79:17	122:8
15;118:17,18;122:2,2	sands (2)	set (8)	simply (3)
River (45)	84:24;86:11	6:8;32:4,10;52:9;81:16;	18:2;24:11;67:4
8:15,19;9:9,13,15,16;10:15;	satisfied (3)	83:11;106:25;117:25	sit (4)
12:19;13:12;16:11;17:15;29:8,	119:16;120:14,20	setbacks (2)	35:2;41:3;75:7;94:25
15;30:21;35:3,6,8,24;36:8;	satisfy (3)	25:21;60:11	site (2)
42:14;47:23,24;63:5,9;76:17;	114:2;117:7;120:3	sets (1)	28:8;68:23
77:17;79:17;81:13,14;85:19,	saturated (1)	16:23	sites (1)
19;86:4;89:5;97:23;104:23;	84:25	setting (1)	69:17
108:7;109:18;113:13,21;115:1;	saw (1)	27:22	sits (1)
120:1,24;121:14,22;122:6	72:23	Seven (1)	61:5
River's (4)	saying (4)	13:8	situation (2)
8:3;9:21;26:6;29:22	27:16;49:11;72:2;94:10	several (3)	41:17,19
Road (1)	scale (2)	101:1;118:10;120:11	situations (2)
121:10	83:17;95:8	shaded (1)	53:13,19
rocks (1)	Science (1)	80:18	six (3)
96:8	79:14	Shannon (1)	103:2;107:19;116:13
Rodney (1)	SE (1)	121:10	skinny (1)
72:10	6:10	share (5)	86:17
role (1) 38:16	search (15) 72:16;76:23;86:11;100:20,	16:20;39:7;59:2;60:2;112:13	small (7) 25:22;48:12,16,19;60:10,18;
rope (3)	22;101:8,12,15;102:13,15;	shared (1) 38:22	90:21
82:8,9,10	103:5,8;110:19;114:20,23	SHARON (2)	90.21 smaller (2)
rough (2)	searches (5)	121:8,9	37:14:44:9
19:3,12	99:12;100:12;103:10;107:6;	shear (1)	Smith (20)
roughly (4)	111:13	83:21	9:18;31:19;50:9,20,23;61:24;
50:5;66:21;81:17;86:21	searching (1)	Shelly (1)	78:16,18,19,20,23;79:3,7,24;
Roy (1)	112:11	19:5	89:11;90:7;92:8;93:15;94:1;
107:19	second (4)	shorter (1)	97:25
royalty (6)	15:5;35:11;45:24;118:7	113:25	Smith's (1)
21:19;22:6,13;67:25;68:4;	Section (16)	shortly (1)	115:7
117:13	6:10,11,11,12;48:13,15;	14:23	Snake (40)
rudimentary (1)	69:14,22;71:18;84:4;92:7,13;	shot (1)	8:3,15,19;9:9,13,15,16,20;
80:6	93:23;99:19;100:5;102:11	51:22	10:15;12:19;13:12;16:11;
rule (3)	secure (5)	show (5)	17:15;26:5;29:8,15,22;30:21;
96:1,23;97:9	43:8,11,15;70:24;104:3	80:5;88:11;95:18;104:12;	35:3,6,8,24;36:8;42:14;63:5,9;
run (3)	seek (1)	107:21	76:16;77:17;79:17;97:22;
77:7,8;87:21	43:7	showing (4)	104:23;108:7;109:18;113:13,

21;114:25;120:1,24;121:14,22	speculative (2)	states (8)	118:9,22,24;119:2
sold (4)	67:12;114:23	13:6;18:21;23:16;24:21;	successful (1)
107:23,23;108:5,19	speech (1)	29:21;30:5;57:6;89:12	107:1
sole (1)	106:7	statute (9)	sufficient (1)
12:18	spell (2)	20:21,22,22;52:10;60:11;	22:18
solve (1)	11:8;23:3	77:21;115:20;117:8;119:23	suggest (1)
45:25	spend (1)	statutory (4)	113:25
somebody (3)	31:12	119:16;120:3,17,21	suggestion (1)
39:21;59:16;116:1	spent (23)	stay (1)	26:7
somehow (2)	31:8;33:3;34:20;35:4;36:5,	79:25	sum (1)
14:15;40:7	11;37:2,8,9,21,23;38:2,5,14;	step (3)	111:23
someone (3)	39:13,15,21,24;40:4,5,8;59:25;	38:16;62:3;78:3	summarize (1)
77:8;94:3;108:18	68:21	stick (1)	79:12
sometimes (3)	spoke (1)	69:25	summary (1)
89:15,19;97:2	112:14	still (5)	12:21
somewhere (1)	spotty (1)	15:14;27:13,25;111:21;	supervising (1)
87:8	93:8	121:11	32:5
soon (1)	SR (2)	stone (1)	supplement (3)
56:6	15:13;16:2	84:24	40:7;115:3;116:16
sorry (12)	SR1A (2)	stones (1)	supplied (1)
25:8;29:13;38:11,19;40:16;	13:19;14:7	96:16	114:1
43:13;51:13,21;67:15;68:11;	SR1B (1)	stop (2)	support (1)
75:22;90:4	14:9	101:4;122:21	114:16
sort (2)	SR1D (3)	stopped (1)	supported (1)
45:22;96:13	16:1;18:6;19:25	122:23	10:1
sorts (1)	SR1E (1)	Stradley (6)	supposed (1)
99:9	66:3	108:10,14,18,25;111:2,13	61:13
Sound (2)	SR2 (1)	straight (1)	supposedly (2)
56:18;93:5	64:3 SB2 (4)	84:5	40:22;71:11
sources (1)	SR3 (4)	stranded (1)	sure (22)
97:5	14:19;15:2,14;82:13	31:25	7:4;9:4;38:12;39:19;47:6;
south (7)	SR4 (2)	street (2)	54:13,14;56:2;57:16;69:18;
64:10;80:17;81:20;83:9; 84:2;85:15;90:25	79:22;85:5 SR5 (5)	71:14;98:18	71:13,16;75:15,24;76:3;83:13 87:19;90:14;95:11;104:3;
southern (1)	15:17;64:19;69:11;70:1;72:5	string (4) 91:14,15,16,21	113:8;121:6
64:16	SR6 (1)	strip (1)	surface (34)
Southwest (8)	20:24	14:16	13:3;28:20,21;30:2;47:4,16,
22:2;42:6;43:11;81:20;83:9;	staff (2)	structure (1)	19;51:19;53:14,17;57:18;60:9
84:3;85:15;91:1	7:22;46:23	88:10	11,15,17;68:25;80:13;81:1,16
spacing (29)	stand (2)	structures (2)	82:3;83:7,21,22;85:4,6,21;
6:9;8:11;14:2,4,17;15:20,24;	27:17;46:24	96:21,24	88:13,20,20;93:25;94:16;
22:9,12;24:2;31:6;47:13;63:16;	standards (1)	SUA (2)	118:22,24;119:2
64:11;75:20;79:20;95:25;	23:24	57:2,3	surfaces (1)
96:24;98:20;99:4,10,12,15,24;	starburst (1)	subdivided (7)	25:17
100:14;104:4,21;111:22;114:4	80:18	72:2;73:13;74:6;101:24;	surprise (1)
speak (4)	start (4)	107:22;109:1;114:21	96:13
7:4;9:7;79:4;121:5	56:7;84:4,5;93:22	subdivides (1)	surrounding (1)
speaking (3)	started (1)	74:5	53:3
7:8;22:1;106:24	83:25	subdivision (4)	survey (3)
speaks (1)	Starting (2)	48:17,18;69:15;73:16	80:10;92:25;97:4
9:2	85:4,6	subject (11)	surveyed (1)
special (2)	starts (3)	28:17;47:11;60:20;61:5;	64:15
25:9;30:17	82:16;85:12,18	63:16;68:16,25;70:18;109:10,	suspending (1)
specific (2)	state (14)	24;114:11	82:8
7:23;58:18	9:2;12:12;17:9;23:22;59:19;	submit (4)	sustain (5)
Specifically (5)	60:11;62:25;79:5;80:12;92:23,	14:15;114:18;115:4;119:19	42:25;52:22;53:7;73:10;
10:10;50:18;60:21;69:21;	23;95:22;116:4;121:6	submitted (8)	107:4
86:12	stated (4)	7:15;14:12;15:14;16:7,10;	SW (1)
spectrometer (1)	23:12,13;65:10,12	40:19;104:22;120:21	6:10
96:10	statement (5)	substantially (1)	swab (3)
speculation (7)	9:24;11:2,15,18;121:8	117:15	94:19,19,23
42:24;50:15;52:21;53:6;	statements (3)	subsurface (10)	sworn (4)
73:18;104:16;111:6	8:14;9:8;11:20	51:19;52:1,2;60:21,23;61:6;	12:4;62:19;78:21;98:11

system (3)	114:15,16;117:18,19;118:21	56:5,7,9	transcript (1)
7:2;70:23;89:8	terrible (1)	timely (1)	11:8
	51:21	120:8	transfer (1)
${f T}$	test (7)	times (3)	44:2
	87:18,21,22,22;95:19;96:13;	9:4;33:4;37:6	treat (1)
tabbed (4)	97:7	time's (1)	95:8
13:19;14:20,21;64:2	tested (4)	63:12	treating (1)
tabs (1)	29:2;40:25;87:14,23	Titan (1)	50:21
16:2	testified (16)	92:4	treatment (4)
talk (10)	12:5;33:13;40:25;43:22;	title (7)	50:19,25;94:9,14
31:19;33:6;35:6;37:4,7;	47:18;53:11;62:20;73:8;78:22;	77:6,7,8;106:9,11;114:24;	treatments (11)
40:20;50:17;75:3;88:9;99:11	93:16,17;98:12;107:6;111:6;	119:18	50:11,17,19;51:11,14;94:5,7;
talked (2)	116:2,12	today (10)	95:1;118:12,15,16
105:12;112:17	testify (3)		Trenwell (1)
		6:18;11:13;35:2;41:3;75:7;	17:19
talking (7)	94:1;103:16;107:7	103:17;118:21;120:11;121:5;	
48:17;57:18,20,22;70:4;	testifying (3)	122:16	trespass (1)
71:14;121:13	42:18;44:16;119:23	told (4)	118:8
talks (1)	testimony (14)	73:5;108:13,17;115:19	tribunal (1)
50:18	8:3;9:14,20;43:21;55:17;	Tonight (1)	120:18
Tamarack (20)	85:7;114:2,5,12,16,18,19;	122:16	trouble (1)
10:13;71:10,12,14;72:22;	115:5,7	took (6)	79:4
74:24;76:24;100:3,9,15;	testimony's (1)	17:19;37:15,16,25;38:4;	truck (1)
101:17;102:18;103:23;105:4,7;	99:22	109:9	89:5
107:9;110:20;112:13;116:14,	Texas (2)	tool (2)	trucks (1)
21	12:23;79:8	74:21;81:25	89:6
tangent (1)	thanks (1)	top (19)	true (26)
84:4	50:21	22:19;54:14;80:14;81:1,3,6;	18:24;20:14;32:13;36:23;
target (9)	theoretically (4)	84:6,7,12;86:2,6;87:10;91:16;	45:21;74:4;81:21,24;82:2,4,7;
45:9;84:6,6,7,12,16;88:2;	46:4,7,8,12	92:13,18;93:3;96:19;103:3;	83:17,23;85:17,21;86:23;87:3
92:19;115:9	therefore (1)	121:23	91:6,11,15,24;92:10,20;93:22;
targeted (3)	120:13	total (2)	106:24;109:25
45:12;84:19;87:6	thick (1)	35:4;84:20	truly (1)
team (3)	84:21	totaled (1)	49:22
27:15;63:21;77:13	Third (1)	66:20	Trust (2)
teams (1)	118:10	totally (1)	6:16;48:4
96:7	Thomas (6)	121:15	trustee (2)
team's (1)	6:15;62:4;97:20;110:10;	tough (1)	36:18;40:12
65:17	115:17;119:13	87:9	truth (4)
Tech (1)	though (1)	toward (1)	12:4;62:19;78:21;98:11
79:15	36:9	65:4	try (7)
technical (1)	thought (1)	towards (1)	43:7;70:10;74:8;79:4,25;
45:22	88:8	48:12	88:23;113:24
technology (1)	thousand (2)	town (3)	trying (6)
90:6	19:16;121:19	88:25;89:6;97:6	39:17;43:11,14;70:2;104:3;
Telegent (1)	thousands (1)	Township (1)	111:21
92:13	52:17	6:12	Tuesday (1)
telling (1)	three (5)	track (1)	7:15
100:18	33:4;48:22;64:1;103:3,6	69:19	turn (3)
tends (1)	Three-year (3)	tract (18)	16:1;20:23;66:2
36:19	21:23,24;22:3	25:18,22;27:4;30:18;37:11;	TVD (4)
tense (1)	threshold (1)	44:12;56:21;61:4;85:23,25;	92:12,16,16,20
73:24	114:8	86:1,4,17,19,20;88:22,25;89:2	two (15)
term (9)	Thum (5)	tracts (19)	42:11;45:15,19;66:16,17,18;
21:23,23;51:7;52:3;57:10;	14:24;21:5,13;76:1;82:17	15:7,22;30:14;43:24;44:3,9;	81:2,5;86:1;107:14,17,18,18;
58:4;73:20;94:4;118:14	Thursday (1)	47:2;60:10,18;64:10,24;65:13,	115:23;120:4
termed (1)	6:6	14;66:13;86:1;88:16;89:19;	two-man (1)
93:23	thus (1)	115:11;116:14	96:7
terminal (1)	117:25	training (1)	type (3)
77:1	tie (1)	106:8	6:20;82:22;91:5
terms (19)	86:12	transaction (1)	types (5)
8:6;10:20,23;16:23;21:21;	time/depth (2)	36:23	44:7,8;54:21,23;118:15
22:1,17;25:9;44:18;51:18;	85:3;86:14	transactions (1)	typical (2)
52:24;66:10;73:21;94:4;	timeline (3)	23:3	6:20;41:19
, , , , , , , , , , , , , , , , , , , ,	` /	I .	i '

Snake River Oil and Gas, LLC			September 16, 202
Typically (4)	22;114:4;118:2;122:10	54:17;118:3,19	way (8)
42:12,19;94:15;95:14	units (4)	varies (3)	66:17;80:25;91:8;93:22;
typographical (1)	6:9;30:10;36:25;89:16	41:21,21,22	94:25;95:1;100:18;114:1
21:6	University (2)	variety (1)	ways (2)
	12:23;79:15	10:22	46:16;54:22
${f U}$	unleased (6)	various (5)	website (7)
	10:18;47:2;85:24;90:19;	26:2;33:19;34:2;73:14;	7:13,17;8:12,13;100:13;
ultimate (1)	114:22;118:10	106:21	101:7,8
107:23	unless (2)	vast (2)	week (1)
ultimately (5)	38:10;39:17	67:4,6	103:9
31:25;89:7;118:18;120:18;	unlikely (3)	Vega (17)	Weiser-Brown (9)
122:4	44:13,14;56:22	11:16,16,19;55:9,11,13;	12:15,18;18:20;19:13,17;
Um-hum (1)	unmuted (1)	76:13,15;97:18,20;110:8,10;	30:5;42:5,14;48:7
15:8	78:18	113:4,7;119:11,13;120:23	Weiser-Brown's (2)
unable (1)	unnecessary (1)	venue (1)	23:16,19
61:19	95:21	122:17	welcome (3)
uncommitted (15)	unnoticed (1)	version (2)	78:3,7;121:5
8:10,15;10:8,24;11:1;15:7,	10:19	18:6,20	wellhead (1)
23;56:25;57:23;64:8;65:18;	unusable (1)	versions (2)	90:17
66:14;115:24;121:10;122:14	121:16	23:15,20	well-known (2)
unconsenting (1)	unusual (2)	vertical (23)	41:15,16
52:2	75:20;115:12	29:25;81:18,22,24;82:2,3,4,	wells (18)
uncovered (1)	unwilling (1)	7;83:18,23;84:9;85:17,21;	16:17,19;19:4,12;29:24,24;
10:7	118:11	86:23;87:3;88:15;91:15,24;	30:7,10,13;32:14;36:16;44:25;
undeemed (1)	up (29)	92:10,20;93:22,23;118:7	45:15,19;50:7;53:14;89:12;
51:20	12:2;29:22;42:18;46:5,23;	vertically (5)	95:16
under (31)	47:8;48:22;49:9;53:14;56:2;	81:15;85:14;88:3,4;90:20	well's (1)
25:18;26:25;27:19;30:14,18;	67:10;77:9;80:2,23;86:2;87:14,	via (1)	42:1
44:12;47:22,23;48:3;56:21;	25;89:7,8;91:19;94:5,17;95:16;	6:21	weren't (1)
57:10;58:4;71:12;73:24;76:24;	98:6;104:12;111:23;113:17;	view (5)	72:14
85:8,18;86:17;87:1;88:16,17;	120:18;121:6	27:24;83:5,6;94:10;95:13	Wes (1)
89:19;90:19;95:22;103:8;	up-hole (1)	viewed (1)	57:3
114:9,13;115:10;116:5;119:24;	96:19	7:1	Wesley (1)
122:18	upon (1)	violations (1)	12:14
underlying (1)	116:7	10:17	West (5)
116:21	upper (2)	Virginia (1)	6:13;69:21;103:8,12;107:19
underneath (1)	82:22;83:5	79:15	wet (2)
118:9	use (19)	virtual (1)	84:25;96:16
undertaken (1)	7:16,19;8:4;13:3;18:16,20;	6:21	what's (18)
20:1	28:20;31:5;39:22;47:19;51:19;	virtue (1)	19:20;24:12;25:7;28:6;
undisputed (1)	57:19;68:25;74:21;89:1;96:9;	74:14	29:22;41:9,22;49:19;52:5;56:8;
116:11	97:4;115:8;118:20	voluntarily (1)	64:2;67:13;84:4,18;92:22;96:5,
uneconomic (1)	used (14)	39:17	11;97:7
45:5	16:11;18:13,17;19:21,25;	voluntary (2)	whereas (1)
uneconomical (1)	20:10;21:15;23:16;28:11;	22:8;68:3	117:18
28:5	47:17;50:5;66:6;72:16;94:12	volunteer (4)	while-it-was-drilling (1)
unforeseen (1)	using (6)	99:2,8,10;106:17	80:10
28:3	20:5;37:8,9;94:21;100:13;	99.2,8,10,100.17	whole (2)
		\mathbf{W}	
unidentified (1)	117:22	v v	95:7;113:24
111:2	usually (4)	XX 1 (5)	who's (1)
Unintelligible (4)	41:10;91:7;96:7;117:18	Wade (5)	49:9
94:12;95:9;97:5;119:2	utilize (1)	9:15;56:14;62:15,18;63:2	whose (1)
unit (68)	48:9	Wait (1)	100:22
8:11,16;9:19;11:1;14:2,4,17;	utilized (1)	67:14	widely (1)
15:20,24;20:4;22:9,13;24:2,5;	19:14	wasting (1)	23:15
	-,		wildcat (2)
31:6,21;39:3,23;44:24;45:3;		88:17	, ,
46:9;47:13;51:24;52:8;56:6;	v	water (9)	40:22;41:4
46:9;47:13;51:24;52:8;56:6; 58:18;63:16;64:8,11,15;65:1,8,	V	water (9) 28:4;53:15,16,20;84:25;	40:22;41:4 willing (4)
46:9;47:13;51:24;52:8;56:6; 58:18;63:16;64:8,11,15;65:1,8, 22,22;66:6;67:22;68:1,3,13;	V value (11)	water (9) 28:4;53:15,16,20;84:25; 87:12;94:21;118:18;122:5	40:22;41:4 willing (4) 51:6,17;89:3;118:13
46:9;47:13;51:24;52:8;56:6; 58:18;63:16;64:8,11,15;65:1,8, 22,22;66:6;67:22;68:1,3,13; 69:15;75:12,21,22,22;76:2,4;	V value (11) 24:11,18,24;34:19;36:22;	water (9) 28:4;53:15,16,20;84:25; 87:12;94:21;118:18;122:5 waters (1)	40:22;41:4 willing (4) 51:6,17;89:3;118:13 Willow (1)
46:9;47:13;51:24;52:8;56:6; 58:18;63:16;64:8,11,15;65:1,8, 22,22;66:6;67:22;68:1,3,13; 69:15;75:12,21,22,22;76:2,4; 77:13,18;79:20;88:17;95:25;	V value (11) 24:11,18,24;34:19;36:22; 52:5,11;53:4;54:13;118:1;	water (9) 28:4;53:15,16,20;84:25; 87:12;94:21;118:18;122:5 waters (1) 83:22	40:22;41:4 willing (4) 51:6,17;89:3;118:13 Willow (1) 56:17
46:9;47:13;51:24;52:8;56:6; 58:18;63:16;64:8,11,15;65:1,8, 22,22;66:6;67:22;68:1,3,13; 69:15;75:12,21,22,22;76:2,4;	V value (11) 24:11,18,24;34:19;36:22;	water (9) 28:4;53:15,16,20;84:25; 87:12;94:21;118:18;122:5 waters (1)	40:22;41:4 willing (4) 51:6,17;89:3;118:13 Willow (1)

Shake River On and Gas, LLC			•
wire (1)		12:15 (1)	2021 (6)
81:25	${f Z}$	122:24	6:2,6;8:1,3,11;82:16
withdraw (1)		120 (1)	24 (1)
93:13	zero (5)	114:7	29:3
within (13)	41:11;92:10,10,10,11	13 (1)	24th (1)
8:15;11:1;32:11;48:18;	zone (2)	83:11	98:18
54:17;56:6,18;60:15;77:18;	96:13,17	14th (1)	25 (1)
100:14;101:17;122:10,19	Zoom (7)	7:15	34:9
Without (3)	6:22,22;7:7;12:12;78:6,17,19	15 (12)	_
19:2;89:8;90:18	, , , , , , , , ,	6:11;48:13;56:15,18;69:14,	3
witness (31)	0	22;71:18;84:3;99:19;100:5;	
7:15;11:23;12:2;32:19;47:6;		102:11;121:19	3 (9)
48:11;55:5;58:10;62:10,14,17;	041101651 (1)	150 (1)	8:1;14:21,21;47:2;48:3;
67:13,15;76:11,14,17;78:14;	6:23	84:23	71:20;75:21;92:13;119:18
80:2;89:24;92:9;94:9;97:14,21,		16 (3)	3,017 (2)
23;104:14;105:23;109:14;	1	6:2,6,12	85:22;86:4
110:4,7,14;112:22		1861 (1)	3,374 (1)
witnesses (8)	1 (5)	98:18	92:20
7:23;62:8;98:3,6;112:24;	25:10;48:3;71:20;75:22;92:9	18th (1)	3,674 (2)
113:2,5;120:12	1,080 (1)	122:20	92:19;93:3
wondering (1)	83:22	19 (1)	3,750 (2)
33:12	1,100 (3)	6:19	87:3;93:21
word (2)	81:16,18;85:14	1989 (1)	3,772 (4)
51:10;116:6	1,180 (2)	18:6	81:6;86:6;91:4;93:3
words (4)	92:11,12	1C (1)	3,937 (3)
26:7;36:20;57:20;61:4	1,200 (1)	68:6	81:7;86:7;91:5
work (10)	83:19	1D (1)	3.6 (1)
9:16;43:10,14;63:5,19,19;	1,314 (1)	16:2	87:23
70:1;93:6;94:13;96:14	93:25	1E (1)	3.8 (1)
worked (4)	1/2 (3)	66:2	87:23
23:22;41:17;65:23;72:15	6:10,11,12	1st (1)	3/8 (1)
working (26)	1/4 (5)	34:22	83:11
16:12,14;17:18;18:22;20:10,	6:10,10,11,12,12	2	30 (2)
13,15;23:19;29:8,15,23;30:6;	1/8 (7)	2	34:25;122:19
33:15,22;35:19;38:16,23;39:1,	21:20;22:6,13;68:2,4;117:13;		300 (17)
2;59:21;61:2;63:25;68:21;	121:18	2 (4)	14:13;20:18;32:25;33:8,15,
70:10;85:9;99:7	10 (10)	48:3;64:3;71:20;92:11	21;37:6,14;40:20;41:25;42:2;
works (1)	6:11;56:15,18;75:21;82:16;	2,110 (1)	75:12,19;83:12;92:20,21;
32:24	84:3;88:8;91:15,17;102:8	93:21	121:23
worth (2)	100 (3)	2,253 (2)	300-acre (4)
46:11;52:17	36:4,10,10	92:16,16	14:6;15:20;63:16;75:20
write (1)	10-foot (2)	2,300 (2)	34 (2)
59:2	82:9,9	81:21;85:17	84:5;92:14
written (4)	10-minute (1)	2,319 (2)	35 (1)
67:3,3;120:10;122:19	78:5	92:14,17	34:24
wrong (1)	11 (2)	2,380 (2)	38 (1)
64:22	82:11;95:16	81:22;85:17	79:11
wrongful (1) 26:10	11:00 (1)	2,830 (1)	3D (2) 97:2,3
20:10	78:4	85:21	97:2,3
Y	110 (25)	2/3 (1)	4
I	9:19;28:23;34:7;36:25;	80:25	4
	39:23;44:24;47:3,14;49:13;	20 (5)	4 (2)
year (6)	50:12;51:8;52:7;53:3;79:20;	8:11;84:3;88:8;90:22;113:13	4 (2)
18:15;29:10;56:6;75:25;	80:6,9;83:7;84:6;87:16;88:13;	200 (1) 83:12	71:20;73:20
88:9;120:6	92:19;95:2;98:21;99:4,10		4,110 (1)
years (10)	1-10 (1)	200-foot (1)	87:3 4 2490 (1)
12:25;19:13;22:3;24:16;	80:20	81:17	4.2490 (1)
63:11,11;65:23;79:11;99:7;	111 (1)	2019 (5)	86:19
116:6	24:5	55:21,22,23,24,25	40 (1)
yell (1)	12 (3)	202.97 (1)	52:16
12:11	82:11;96:8,8	92:15	40-plus (2)
	12.8669 (1)	2020 (4)	12:25;18:15
	86:2	34:23;55:19,21;120:2	47 (1)

Snake River Oil and Gas, LLC		 September 16, 2021
119:18 47-320 (2) 114:3,3 47-321 (1) 8:8 47-328 (1) 6:18 47-3283 (1) 6:9 5 5 (9) 6:13;25:18;43:24;44:3,9,12; 56:22;71:20;84:3 5,000 (3) 80:21;84:20;87:8 5.4201 (1) 85:25 5/8 (1) 83:20	9 (3) 6:10;25:24;83:20 9:07 (1) 6:6 90 (1) 45:5 95 (7) 48:19;69:20,22;71:8,19;89:5; 100:6 95-percent-plus (1) 34:5	September 16, 2021
5:00 (1) 7:16 500 (1) 20:17 55 (1) 114:8 5-acre (1) 57:21		
6 (2) 8:3;71:20 6:00 (1) 122:17 61 (2) 65:11,12 610 (5) 18:6,21;19:14,21;20:6 62 (2) 65:9,15 65 (2) 34:16,16		
7 7 (1) 71:20 729 (1) 85:20 75 (1) 84:17		
8 (1) 6:13 800 (1) 83:18 86 (1) 66:13 8680 (1)		