

IDAHO DEPARTMENT OF LANDS
DIRECTOR'S OFFICE
300 N. 6th Street Suite 103
PO Box 83720
Boise, ID 83720-0050
Phone (208) 334-0200
Fax (208) 334-5342



MICK THOMAS, DIVISION ADMINISTRATOR
SECRETARY TO THE COMMISSION

IDAHO OIL AND GAS
CONSERVATION COMMISSION
Betty Coppersmith, Chairman
Marc Shigeta, Vice Chairman
Jim Classen
Ray Hinchcliff
Dustin Miller

December 24, 2021

Nathan Caldwell
Snake River Oil and Gas, NWGP
117 E. Calhoun Street (Box 500)
Magnolia, Arkansas 71753

via e-mail: Caldwell.nathan@weiser-brown.com

Re: Request to Amend Permit to Drill #11-075-20038, Dutch Lane #1-13, Payette Co., ID

Dear Mr. Caldwell:

The Idaho Department of Lands (IDL) has completed our review of this request to amend the permit to drill for the Dutch Lane #1-13 well, Permit/USWN 11-075-20038. Enclosed is a copy of the approved amendment. This amendment to the permit was approved with the following stipulations:

1. The final location of the additional target depth and proposed total depth of the well shall not be offset more than 676.98 feet from the surface location of the well as noted in the Titan Directional Survey Report dated October 23, 2021 and included as pages 21 through 24 of the Application for Permit to Drill for the Dutch Lane #1-13, USWN 11-075-20038.

All other conditions of the permit to drill granted November 17, 2021 remain in effect. Please contact me directly at 208-334-0298 if you have any questions

Sincerely,

A handwritten signature in blue ink that reads "M Thomas".

Mick Thomas
Division Administrator
Minerals, Navigable Waters, Oil & Gas
Idaho Department of Lands

Enc.\1 Request to amend permit, Revised APD form Approved

*Nathan Caldwell, Operations Manager – Snake River Oil & Gas LLC
December 24, 2021
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ecc: Patti Nitz, Payette County
Chad Hersley, IDWR
Michael Christian, Smith + Malek
James Thum, Idaho Dept. of Lands
Richard Brown, Snake River Oil & Gas LLC



RECEIVED
By James Thum at 9:51 am, Dec 24, 2021

IDAHO OIL AND GAS CONSERVATION COMMISSION
Application For Permit to Drill, Deepen, or Plug Back



APPLICATION TO: [] Drill (\$2,000) [x] Deepen (\$500) [] Plug Back (\$500)

NAME OF OPERATOR: Snake River Oil and Gas Date: 12/22/2021

Address: P.O.Box 500

City: Magnolia State: AR Zip Code: 71753 Telephone: 870 234 3050

Contact Name: Nathan Caldwell Email Address: caldwell.nathan@weiser-brown.com

Emergency Contact Name/Phone: Nathan Caldwell (cel 870 904 7305)
(secondary) Clint Harman - 713 822 3167

DESCRIPTION OF WELL AND LEASE

Name of Lease: Dutch Lane Well Number: 1-13 Elevation (ground): 2165

Well Location: Section: 13 Township: 8N Range: 5W (or block and survey)

(Give footage from Section lines): 2398' FNL & 1316' FWL

Latitude/Longitude (Dec Degrees NAD83 minimum requirement): N 44.03302778 / W 116.88791667

Datum: [] WGS84 [x] NAD83 [] NAD27 [] Other:

Field and Reservoir (if wildcat, so state): WILDCAT County: PAYETTE

Distance, in miles, and direction from nearest town or post office: 2.29 miles NE from Fruitland, ID Post Office

Nearest distance from proposed location to property or lease line: 1316 feet Nearest producing well: 4396 feet

Type of Test/Unit: [] Gas / 640 acre unit [] Gas / 160 acre unit [] Oil / 40 acre unit [x] Other/Docket No. CC-2016-OGR-01-006

Is Operator requesting a well location exception? [] Yes [x] No Confidential Well Status Request? [x] Yes [] No

Distance from proposed location to nearest drilling, completed or applied for on the same lease: no other wells on lease feet

Proposed depth: 5575 Approx. date work will start: 11-15-2021 Number of acres in lease(s): 45.156

Number of wells on lease, including this well, completed in or drilling to this reservoir: one (1)

If lease purchased with one or more wells drilled, complete the following information:

Purchased from (Name): AM Idaho

Address of above: 15021 Katy Fwy, Suite 400, Houston, TX 77094

Bond Type and Number: Idaho OGCC Bond # ROG 000 1695

Surface Rights Owner (At proposed surface location): Name Blaine May Phone: 208 230 8029

Does the drilling unit contain state leases? 1 If yes, check all that apply:

[] IDL [] IDFG [] IDT [] Public Trust [x] Other: State of Idaho

Does this application include the following actions? If yes, check all that apply:

[] Well Treatment [] Pit construction [x] Directional or Horizontal Drilling

Applications that include well treatments, pit construction, and directional drilling must provide attachments with the information required from the respective sections of IDAPA 20.07.02 and Idaho Code § 47-3. If these activities are not included in this application, then a separate application and approval will be required prior to commencement of any of these activities.

Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone) The Dutch Lane 1-13 is currently drilling. n unknown sand was observed in the previously drilled Fallon 1-10. Snake River would like to deepen Dutch Lane 1-13 from 4575' to 5575' to determine if this sand is present. Snake River expects to reach 4575 before 12-27-2021.

Attached is a wellbore diagram indicating the deepening depth. Other previously submitted documents are unchanged.



IDAHO OIL AND GAS CONSERVATION COMMISSION
Application For Permit to Drill, Deepen, or Plug Back



Applicant(s) should be familiar with and adhere to IDAPA 20.07.02, Rules Governing Conservation of Oil and Natural Gas in the State of Idaho, and Idaho Code § 47-3, Oil and Gas Wells--Geologic Information and Prevention of Waste.

Please check the boxes below to indicate that you have supplied the required information.

Maps Required

- Attach a survey plat or map, preferably on a scale of one (1) inch equals one thousand (1,000) feet, prepared by a licensed surveyor or engineer. All maps and plats should include a bar scale for reference.
- The plat must show:
 - Distance of the proposed surface location to the nearest occupied structure and the nearest highway.
 - The proposed well location. For directional wells, both surface and bottom hole locations should be marked.
 - The location of the well with reference to the nearest lines of an established public survey.
 - All leased tracts held by the applicant within the drilling unit. Distances of the proposed well from the two nearest unit boundary lines, if applicable, and from the nearest oil or gas wells on the same unit, completed in or being drilled to the same reservoir. If the well location requested is not in conformance with the applicable well-spacing rules, show all off-setting wells to the proposed well, and the names and addresses of all adjoining lease or property owners.
 - The location of the nearest structure with a water supply, or the nearest water well as shown on the IDWR registry of water rights or well log database. The location of the nearest canal, ditch, or ordinary high-water mark of surface waters (§47-319(1)).

Other Required Information

- Estimated depth to the top of the important geologic markers.
- Estimated depth to the top of the target formations.
- Information on the type of tools to be used.
- Proposed logging program.
- Proposed casing program, including size and weight of casing and the depth at which each casing type is to be set.
- Type and amount of cement to be used, and the intervals cemented.
- Information on the drilling plan (drill pad and rig set up, etc).
- Schematic diagram of the BOP and well head assemblies, including the minimum size and pressure rating of all components of the BOP and well head assemblies.
- Best management practices to be used for erosion and sediment control.
- Plan for interim reclamation of the drill site after the well is completed, and a plan for final reclamation of the drill site following plugging and abandonment of the well. These plans must contain the information needed to implement reclamation as described in IDAPA 20.07.02 subsection 310.16 and section 510.

CERTIFICATION: I, Nathan Caldwell the undersigned, state that I am the Operations Manager of SNAKE RIVER OIL AND GAS (company) and that I am authorized by said company to make this application, and that this application was prepared under my supervision and direction, and that the facts stated herein are true, correct and complete to the best of my knowledge.
Date: 12/22/2021 Signature:

NOTICE: Before submitting this form, be sure that you have given all information requested.

IDL Office Use Only:
Approval Date: 12/27/2021 Approved by:
Signature and Title

US Well Number: 11-075-20038 Operator Number (if known): _____



IDAHO OIL AND GAS CONSERVATION COMMISSION
Application For Permit to Drill, Deepen, or Plug Back



ADDITIONAL INFORMATION

State Land Ownership Explanation¹

IDL	Idaho Department of Lands
IDFG	Idaho Department of Fish and Game
IDT	Idaho Department of Transportation
Public Trust	State owned beds and banks of navigable rivers and lakes
Other	Other state agencies not named above. Includes, but is not limited to; Idaho Department of Parks and Recreation, Idaho Military Division, etc.

Fees: IDAPA 20.07.02.200.02

An application fee must accompany each application for permit to drill, deepen, or plug back. No service fee is required for a permit to deepen or plug back in a well for which the fee has been paid for permit to drill unless the drilling permit has expired.

Permit Denial: IDAPA 20.07.02.200.05

Applications may be denied for the following reasons:

- a. Application fee was not submitted.
- b. Application is incomplete.
- c. Failure to post required bonds.
- d. Proposed well will result in a waste of oil or gas, a violation of correlative rights, or the pollution of fresh water supplies.

Well Completion/Recompletion Report: IDAPA 20.07.02.340

Within thirty (30) days after the completion of a well drilled for oil or gas, or the recompletion of a well into a different source of supply, or where the producing interval is changed, a completion report shall be filed with the Department, on a form prescribed by the department.

Log Submittals: IDAPA 20.07.02.341

All wells shall have:

1. A lithologic log from the bottom of the hole to the top, to the extent practicable.
2. A bottomhole location survey log.
3. A cement bond log.
4. If other logs were run, including, but not limited to, resistivity, gamma-neutron log, sonic log, etc., then the owner or operator shall retain a copy regardless of results.
5. All logs shall be submitted to the Department in paper and digital formats within thirty (30) days of the log being run. If logs were run in color, then the submitted copies shall also be in color. Digital formats must be Tiff and LAS 2.0 or higher. Logs submitted to the department must have a scale of one (1) inch for correlation logs and five (5) inches for detail logs.

Please submit Application to Drill, Deepen, or Plug Back to:

Idaho Department of Lands
 Oil and Gas Program
 300 N. 6th Street, Suite 103
 PO Box 83720
 Boise, Idaho 83702-0050

Snake River Oil and Gas
 Well Name: Dutch Lane 1-13
 Location: Section 13 T8N R5W
 County: Payette
 Field: Wildcat
 Rig: Paul Graham Drilling Co. 4
PROPOSED WELLBORE DIAGRAM

December 22, 2021

Surface Elevation GL: 2164.4' KB: 12.5' KBE: 2176.9'

Conductor: 16" by 62.58 ppf H40 @ 120'
 Cemented to surface w/ 200 sx Class A or C cement
 Hole size: 20"

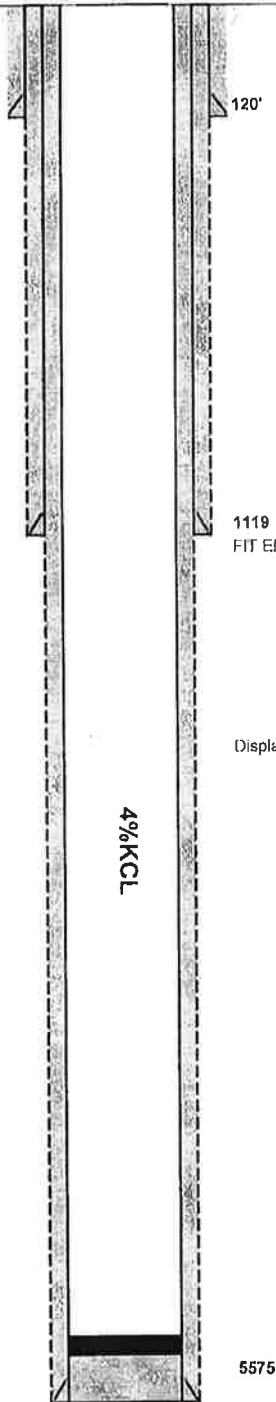
Surface Casing 9.625in, 40#, J55, LTC @ 1119'
 Cemented with 390 sacks Type III cement
 Lead Slurry: 380 sx RC Econolite Plus
 Tail Slurry: 80 sx RC Surface Tail
 TOC Cemented to surface
 Top out cement : 100 sx RC Surface Tail
 Mud weight 10.3ppg at Surface TD
 Hole Size: 12.25"

Hole Deviation Max Angle ~32 deg
 *See Directional Plan

Logging

Run #1 Quad Combo Shuttle or Wireline

Prod. Casing 5.5in, 15.5#, J55, LTC @ 5575'
 Float Collar at 3995' MD
 Cemented with 820 sacks Class G cement
 Lead Slurry: 410 sx RC GasBond Lead
 Tail Slurry: 410 sx RC Gas Bond Tail
 TOC Cemented to surface
 Est Mud weight 11.5ppg at TD
 Hole Size: 8.5"



Wellhead:
 A Sec: 9-5/8" SOW X 11" 5M
 B Sec: 11" 5M X 7-1/16 Tbg Hd w/ Dry Hole Flange

Displace cement with 4% KCl

4%KCL

Proposed TD
 5575' MD / 5450' TVD
 PBTD 5530' MD

Well Name: Dutch Lane 1-13	Field: Wildcat
County: Payette	State: Idaho
Total Depth (MD): 5575'	TVD 5450'

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MICK THOMAS, DIVISION ADMINISTRATOR
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**IDAHO OIL AND GAS
CONSERVATION COMMISSION**
Betty Coppersmith, Chair
Ray Hinchcliff, Vice Chair
Jim Classen
Dustin Miller
Marc Shigeta

November 17, 2021

Nathan Caldwell
Snake River Oil and Gas /NWGP
Weiser Brown Operating
117 E. Calhoun St. (Box 500)
Magnolia, Arkansas 71753

via e-mail: caldwell.nathan@weiser-brown.com

Re: Permit to Drill #11-075-20038, Dutch Lane #1-13, Payette Co., ID

Dear Mr. Caldwell:

The Idaho Department of Lands (IDL) has completed our review of this permit to drill for oil and gas. Enclosed is a copy of the approved permit. This permit was approved with the following stipulations:

1. The conductor pipe shall be cemented to the surface as required by IDAPA 20.07.02.310.04. Permittee shall use ready mix cement unless water is encountered, in which case an appropriate slurry mix will be used.
2. During drilling and logging of the hole for the production casing, the permittee shall identify any water bearing zones and isolate those zones in the annular space during cementing or completion activities.
3. The permittee shall be required to submit an affidavit covering the initial BOP pressure test after installation signed by the operator or contractor attesting to the satisfactory pressure test.
4. The permittee shall ensure tanks are adequately sized, designed and constructed for the reception and confinement of mud and cuttings and to prevent contamination of streams and potable water.
5. Drilled holes cannot be used for any other purposes unless they are constructed according to the applicable well construction standards administered by the Idaho Department of Water Resources.
6. Applicant will obtain any needed water rights from Idaho Department of Water Resources if nearby wells will be used to supply water for the drilling operations.

7. This permit allows for an additional one hundred fifty (150) feet of drill hole below the permitted depth of the well for purposes of logging and casing, but no well completion nor production will be allowed to occur below the permitted depth without authorization from the Department.
8. All well information required by Idaho Code § 47-324(4), IDAPA 20.07.02.340 and 341 will be submitted to IDL within 30 days of the logs being run.
9. Well Log information shall be submitted in paper and electronic formats as required by IDAPA 20.07.07.340.05. Paper copies shall be submitted on a minimum of 24 lb. Premium Pre-Fold Bond Paper. All log copies shall be the final processed logs as provided by the service company. No field / preliminary copies shall be accepted.
10. Idaho Department of Lands inspectors shall have 24-hour, unencumbered access for compliance and regulatory purposes.
11. All cementing operations shall be in accordance with IDAPA 20.07.02.310. Cement will be returned to surface on the surface casing via the pump and plug method or other method as approved by the Department.
12. This permit does not grant the right for ingress or egress nor does this application grant the right to production from unleased lands.
13. Operations will follow all guidelines and stipulations as set forth in Spacing and Integration Order, Docket No. CC-2016-OGR-01-006 dated January 17, 2017.
14. If the proposed target described in the Geologic Prognosis of the submitted APD (Sands C and/or D) is hydrocarbon-bearing, no production may occur without a final processed angular deviation and directional survey being submitted to the Department.
15. If potential hydrocarbon-bearing zones are encountered other than the proposed target described in the Geologic Prognosis of the submitted APD (Sands C and/or D), no production may occur from these zones without authorization from the Department. Any production that occurs in the target sand is subject to the limitations set forth in the Integration Order for Docket CC-2016-OGR-01-006, dated January 17, 2017.

Please ensure that all operations are conducted in accordance with the requirements of IDAPA 20.07.02 (Rules Governing Conservation of Oil and Natural Gas in the State of Idaho).

This permit will be administered by IDL staff and possibly a contractor hired by IDL. We will be inspecting the drilling operation. Please contact me at 208-334-0298 if you have any questions.

Nathan Caldwell
November 17, 2021
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Sincerely,

A handwritten signature in cursive script that reads "Mick Thomas".

Mick Thomas
Division Administrator
Minerals, Navigable Waters, Oil & Gas
Idaho Department of Lands

Enc.\1 Dutch Lane 1-13 Approved APD

ecc: Patti Nitz, Payette County
Chad Hersley, IDWR
Michael Christian, Smith + Malek
James Thum, Idaho Dept. of Lands



IDAHO OIL AND GAS CONSERVATION COMMISSION

Application For Permit to Drill, Deepen, or Plug Back



RECEIVED

By James Thum at 11:18 am, Oct 29, 2021

APPLICATION TO: Drill (\$2,000) Deepen (\$500) Plug Back (\$500)

NAME OF OPERATOR: Snake River Oil and Gas Date: 10-27-2021

Address: P.O. Box 500

City: Magnolia State: AR Zip Code: 71753 Telephone: 870 234 3050

Contact Name: Nathan Caldwell Email Address: caldwell.nathan@weiser-brown.com

Emergency Contact Name/Phone: Nathan Caldwell cell (870) 904-7305

(secondary) Clint Harman - 713-822-3167 - clint.harman.cons@outlook.com

DESCRIPTION OF WELL AND LEASE

Name of Lease: Dutch Lane Well Number: 1-13 Elevation (ground): 2165

Well Location: Section: 13 Township: 8N Range: 5W (or block and survey)

(Give footage from Section lines): 2 398' FNL & 1 316 FWL

Latitude/Longitude (Dec Degrees NAD83 minimum requirement): N 44.03302778 / W 116.88791667

Datum: WGS84 NAD83 NAD27 Other:

Field and Reservoir (if wildcat, so state): Wildcat County: Payette

Distance, in miles, and direction from nearest town or post office: 2.29 miles NE from Fruitland, ID Post office

Nearest distance from proposed location to property or lease line: 1316 feet Nearest producing well: 4396 feet

Type of Test/Unit: Gas / 640 acre unit Gas / 160 acre unit Oil / 40 acre unit Other/Docket No. CC-2016-OGR-01-006

Is Operator requesting a well location exception? Yes No Confidential Well Status Request? Yes No

Distance from proposed location to nearest drilling, completed or applied for on the same lease: no other wells on lease feet

Proposed depth: 4575 Approx. date work will start: 11/15/2021 Number of acres in lease(s): 485.156

Number of wells on lease, including this well, completed in or drilling to this reservoir: one (1)

If lease purchased with one or more wells drilled, complete the following information:

Purchased from (Name): AM Idaho

Address of above: 15021 Katy Fwy, Suite 400, Houston, TX 77094

Bond Type and Number: Idaho OGCC Bond # ROG 0001695

Surface Rights Owner (At proposed surface location): Name Blaine May Phone: 208-230-8029

Does the drilling unit contain state leases? ¹ If yes, check all that apply:

IDL IDFG IDT Public Trust Other: State of Idaho

Does this application include the following actions? If yes, check all that apply:

Well Treatment Pit construction Directional or Horizontal Drilling

Applications that include well treatments, pit construction, and directional drilling must provide attachments with the information required from the respective sections of IDAPA 20.07.02 and Idaho Code § 47-3. If these activities are not included in this application, then a separate application and approval will be required prior to commencement of any of these activities.

Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone)

We affirm that we have written permission from the owner of the ditch located approximately 150' west of the proposed well to drill in this location.

We affirm that we have leased 100% of the tracts within this unit per Order # CC-2016-OGR-01-006



IDAHO OIL AND GAS CONSERVATION COMMISSION

Application For Permit to Drill, Deepen, or Plug Back



Applicant(s) should be familiar with and adhere to IDAPA 20.07.02, Rules Governing Conservation of Oil and Natural Gas in the State of Idaho, and Idaho Code § 47-3, Oil and Gas Wells--Geologic Information and Prevention of Waste.

Please check the boxes below to indicate that you have supplied the required information.

Maps Required

- Attach a survey plat or map, preferably on a scale of one (1) inch equals one thousand (1,000) feet, prepared by a licensed surveyor or engineer. All maps and plats should include a bar scale for reference.
The plat must show:
Distance of the proposed surface location to the nearest occupied structure and the nearest highway.
The proposed well location. For directional wells, both surface and bottom hole locations should be marked.
The location of the well with reference to the nearest lines of an established public survey.
All leased tracts held by the applicant within the drilling unit. Distances of the proposed well from the two nearest unit boundary lines, if applicable, and from the nearest oil or gas wells on the same unit.
The location of the nearest structure with a water supply, or the nearest water well as shown on the IDWR registry of water rights or well log database.

Other Required Information

- Estimated depth to the top of the important geologic markers.
Estimated depth to the top of the target formations.
Information on the type of tools to be used.
Proposed logging program.
Proposed casing program, including size and weight of casing and the depth at which each casing type is to be set.
Type and amount of cement to be used, and the intervals cemented.
Information on the drilling plan (drill pad and rig set up, etc).
Schematic diagram of the BOP and well head assemblies, including the minimum size and pressure rating of all components of the BOP and well head assemblies.
Best management practices to be used for erosion and sediment control.
Plan for interim reclamation of the drill site after the well is completed, and a plan for final reclamation of the drill site following plugging and abandonment of the well.

CERTIFICATION: I, [Signature] [Name] the undersigned, state that I am the OPERATIONS MANAGER of SHAWO RIVER OIL & GAS (company) and that I am authorized by said company to make this application, and that this application was prepared under my supervision and direction, and that the facts stated herein are true, correct and complete to the best of my knowledge.

Date: 10/28/2021 Signature: [Signature]

NOTICE: Before submitting this form, be sure that you have given all information requested.

IDL Office Use Only:
Approval Date: 11/17/2021 Approved by: [Signature]
Signature and Title

US Well Number: 11-075-20038 Operator Number (if known):



IDAHO OIL AND GAS CONSERVATION COMMISSION
Application For Permit to Drill, Deepen, or Plug Back



ADDITIONAL INFORMATION

State Land Ownership Explanation¹

IDL	Idaho Department of Lands
IDFG	Idaho Department of Fish and Game
IDT	Idaho Department of Transportation
Public Trust	State owned beds and banks of navigable rivers and lakes
Other	Other state agencies not named above. Includes, but is not limited to; Idaho Department of Parks and Recreation, Idaho Military Division, etc.

Fees: IDAPA 20.07.02.200.02

An application fee must accompany each application for permit to drill, deepen, or plug back. No service fee is required for a permit to deepen or plug back in a well for which the fee has been paid for permit to drill unless the drilling permit has expired.

Permit Denial: IDAPA 20.07.02.200.05

Applications may be denied for the following reasons:

- a. Application fee was not submitted.
- b. Application is incomplete.
- c. Failure to post required bonds.
- d. Proposed well will result in a waste of oil or gas, a violation of correlative rights, or the pollution of fresh water supplies.

Well Completion/Recompletion Report: IDAPA 20.07.02.340

Within thirty (30) days after the completion of a well drilled for oil or gas, or the recompletion of a well into a different source of supply, or where the producing interval is changed, a completion report shall be filed with the Department, on a form prescribed by the department.

Log Submittals: IDAPA 20.07.02.341

All wells shall have:

1. A lithologic log from the bottom of the hole to the top, to the extent practicable.
2. A bottomhole location survey log.
3. A cement bond log.
4. If other logs were run, including, but not limited to, resistivity, gamma-neutron log, sonic log, etc., then the owner or operator shall retain a copy regardless of results.
5. All logs shall be submitted to the Department in paper and digital formats within thirty (30) days of the log being run. If logs were run in color, then the submitted copies shall also be in color. Digital formats must be Tiff and LAS 2.0 or higher. Logs submitted to the department must have a scale of one (1) inch for correlation logs and five (5) inches for detail logs.

Please submit Application to Drill, Deepen, or Plug Back to:

Idaho Department of Lands
 Oil and Gas Program
 300 N. 6th Street, Suite 103
 PO Box 83720
 Boise, Idaho 83702-0050

Snake River Oil and Gas, LLC

**IDL Permit Supplement
Dutch Lane 1-13
Payette County, ID
October 23, 2021**

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Geologic Prognosis

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Well Construction

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Drilling Tools

Drilling Plan

BOP's

Directional Drilling Plan

Logging Plan

Wellbore Diagram

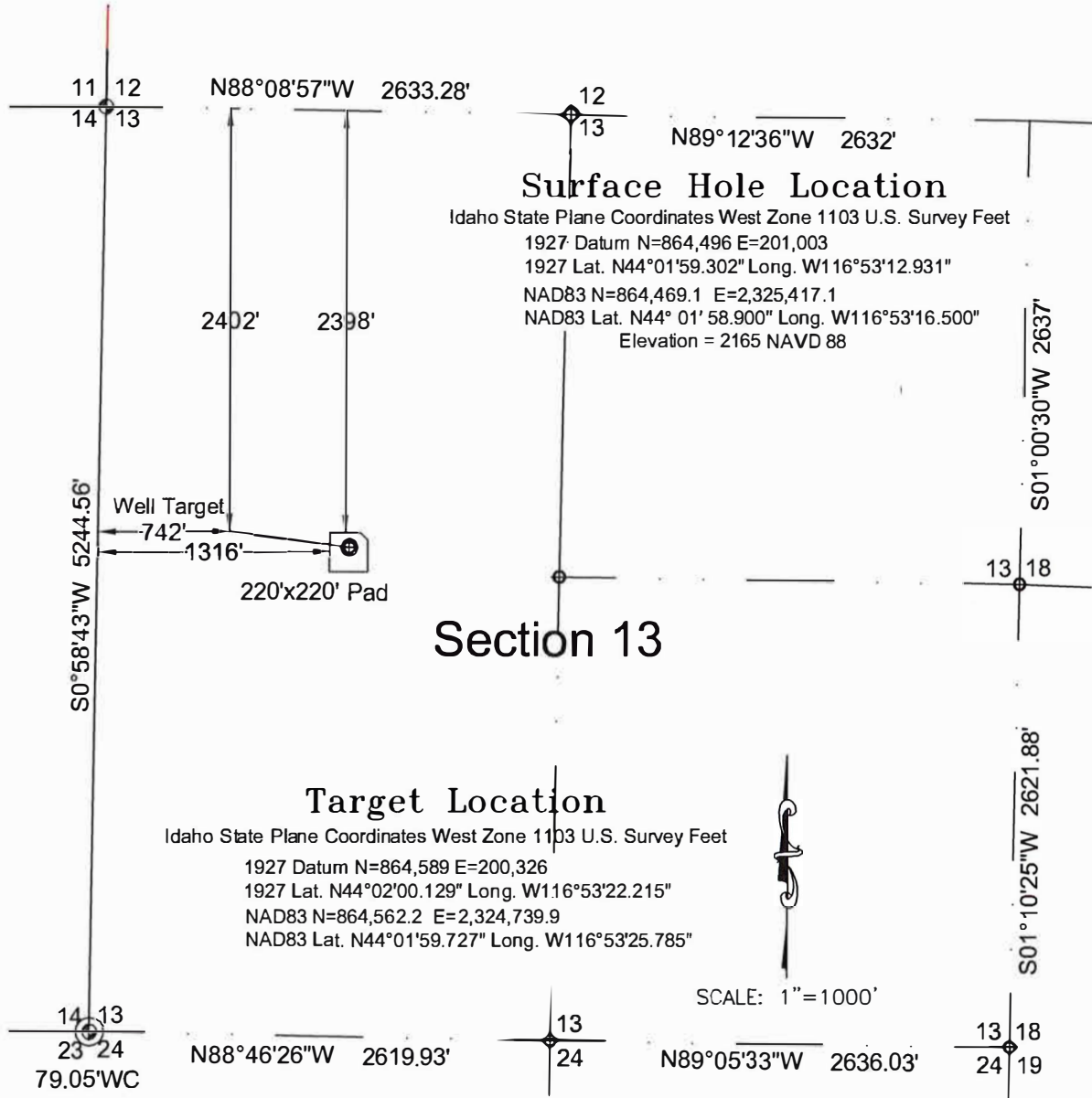
Wellhead

Production Tree

Reclamation

EXHIBIT MAP OF Dutch Lane 1-13

LOCATED IN
A PORTION OF THE NORTHWEST 1/4,
OF SECTION 13, TOWNSHIP 8 NORTH, RANGE 5 WEST, B.M.,
PAYETTE COUNTY, IDAHO
-2021-



SROG Dutch Lane #1-13
Aerial photo: IDWR Website
Well Surface Location Indicated by RED STAR
300' radius indicated by YELLOW CIRCLE
Nearest Occupied Structure and Water Wells
Indicated by Text Boxes



300' Radius

Dutch Lane 1-13 Surface Location

446496

290551

380859

Nearest Water wells (Per IDWR)

Distances of Well Surface Location:
1200' west of Dutch Lane
2500' south of Killebrew Rd
4800' southwest of Hwy 52
150' east of ditch

Nearest Occupied Structure
Approx. 1070' to east-southeast of well

Geologic Prognosis

Prospect

The Dutch Lane 1-13 well is designed to test Sands C and D. Sand C is inferred from seismic data and has not been encountered in a well previously. Sand D is found productive in the Barlow 1-14 well about 3/4ths of a mile to the southwest.

Proposed Well

The well is to be drilled as a "directional hole" to a depth of 4575' MD/4450' TVD to accommodate surface farming operations. The surface and bottomhole locations are in section 13, T8N R5W in Payette County, Idaho. The surface location will be @ N 44 deg 01'59.304" by W 116 deg 53' 12.932". The target and bottomhole locations are approximately 650' west of the surface location, @ N 44 deg 2' 0.130" by W 116 deg 53' 22.215".

Estimated Geologic Formation Tops

Claystone +/- 3500' of claystone expected with occasional thin sandstones and siltstones of Glens Ferry/Chalk Hills Formations Undifferentiated from 200' to 3473' MD/3349' TVD.

Sands A & B Not Present

Sand C 3473' MD/3349' TVD

Sand D 3777' MD/3652' TVD

Proposed Total Depth 4575' MD/4450' TVD

Basalt Not Reached

Payette Fm. Not Reached

Site Preparation

Erosion Control

Appropriate grading, mechanical stabilization (rip-rap or hay bales), chemical stabilization (soil cement) and silt fencing will be used to prevent soil erosion. All cut and fill slopes are designed with a minimum 2:1 grade to minimize runoff erosion and ensure mechanical stability.

Sump

The location will have a 2' deep trench on downhill sides where the spoil from that trench will be used to construct an earthen berm around the location. The trench will act as a sump to collect rain and wash water for controlled release or appropriate disposal as required.

Well Construction

<u>Well Interval</u>	<u>Bit/Hole</u>	<u>CSG, Grade/Wt</u>	<u>CSG Depth</u>	<u>TOC</u>	<u>CMT Type/Volume</u>
Conductor	20"	16"/H-40/65#/ft	120'	Surface	351 Cuft concrete
Surface	12.25"	9-5/8"/J55/36#/ft	1125'	Surface	Lead-247 sks TypeIII-RC Econolite Plus. Tail-80sks TypeIII-RC Gas Bond.
Production	8.5"	5.5"/J-55/15.5#/ft	4575'	Surface	Lead-394 sks ClassG-RC Gas Bond. Tail-400 sks ClassG-RC Gas Bond.

Surface Casing Detail

- 9 5/8" float shoe
- 1 full length joint 9 5/8" 36 J-55 LTC for shoe track - centralized
- 9 5/8" float collar
- 9 5/8" 36# J-55 STC Casing jts to surface
- Cement basket for 9 5/8" casing approx. 120' below surface.
- Centralization – Install 1 cent /jt

Production Casing Detail

- 5 1/2" float shoe
- 1 full length jts 5 1/2" 15.5# J-55 LTC for shoe track – centralized
- 5 1/2" float collar
- 5 1/2" 17# K-55 LTC csg with 1 centralizer / joint to surface (turbolizers, stage collar and basket placement TBD).

Cementing Program

Conductor: 351 cuft concrete – surface to 120'

Surface Casing: 9 5/8" (Excess 150%)

<u>Stage</u>	<u>Volume</u>	<u>Yield</u>	<u>Density</u>	<u>Description</u>
<u>Spacer</u>	20 bbls	N/A	8.54 ppg	20 bbls 4% KCL
<u>Lead Cement</u>	768 ft3	3.11 ft3/sk	11.0 ppg	247 sks Type III - RC Econolite Plus
Tail Cement	100 ft3	1.36 ft3/sk	14.8 ppg	80 sks Type III - RC Surface Tail
Displacement	80 bbls	N/A	9-10 ppg	84 bbl Drilling fluids/Water
T/O CMT	102 ft3	1.36 ft3/sk	14.8 ppg	80 sks Type III - RC Surface Tail

***Depth: 1,125' MD Hole Size: 12 ¼" Mud weight: 8.7 ppg**

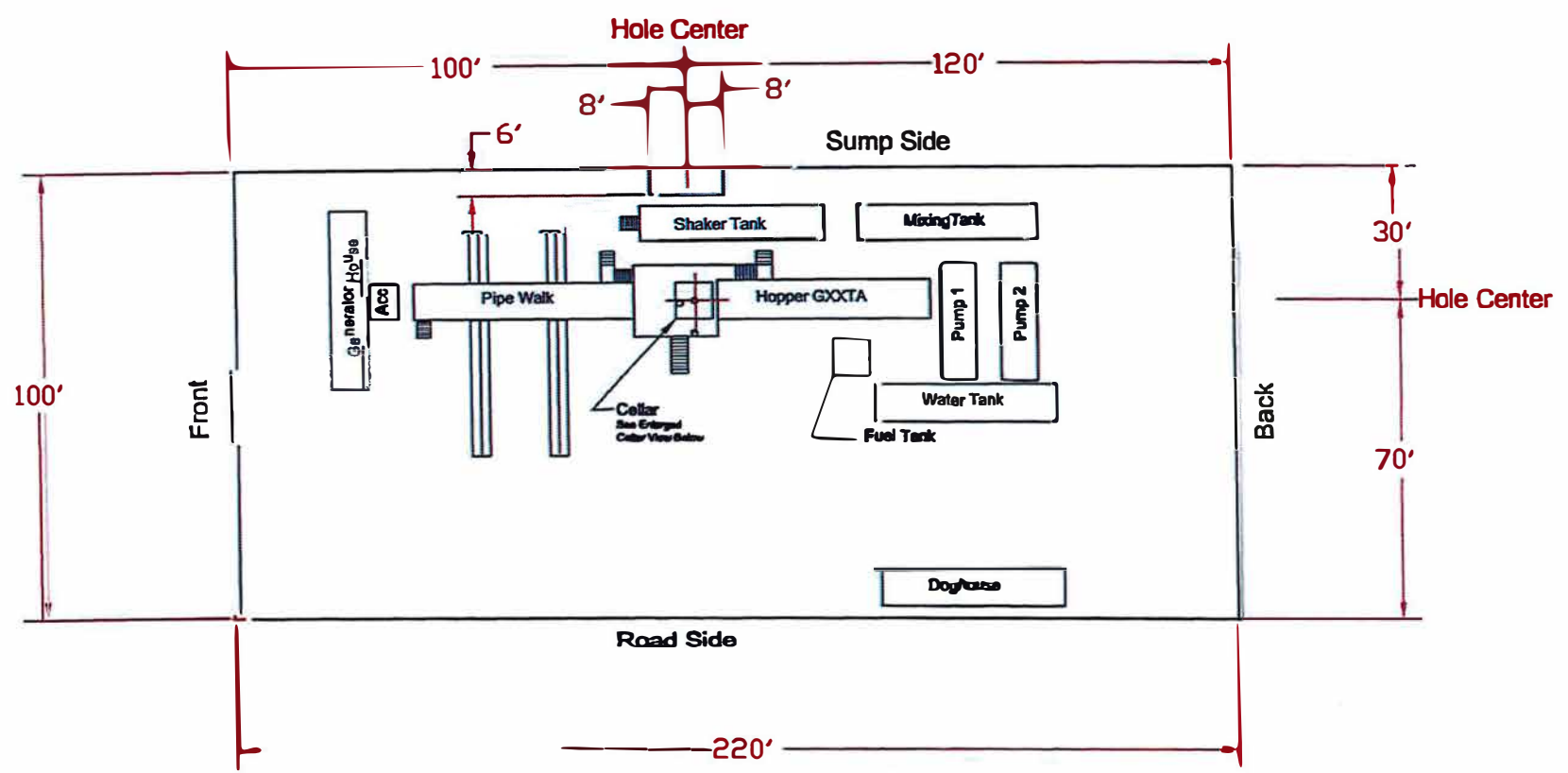
Production Casing (Excess 15% over open hole callper)

<u>Stage</u>	<u>Volume</u>	<u>Yield</u>	<u>Density</u>	<u>Description</u>
Spacer	20 bbls	N/A	8.34 pg	10 bbls mud flush
Spacer	40 bbls	N/A	12 ppg	40 bbls 4% KCL weighted spacer
Lead Cement	677 ft3	1.72 ft3/sk	13.0 ppg	394 sks Class G - RC Gas Bond Lead
Tail Cement	528 ft3	1.32 ft3/sk	14.2 ppg	400 sks Class G - RC Gas Bond Tail
Displacement	102 bbls	N/A	8.54 ppg	102 bbls 4% KCL

Depth: 4,575 MD Hole Size: 8 ½" Mud weight: 11.5 ppg

Rig Location Plat

See Paul Graham Drilling Rig 4 Location Diagram.



Paul Graham Drilling
Rig 4 Location Diagram

Filename: Rig4 Plot LD.dwg

Revision: May 25, 2006

Drilling Tools

Types of Tools to be Used

BHA #1 Directional Drilling Assembly

- 12 ¼" Mill tooth bit
- Bit sub w/ float
- 1 (8") Spiral Integral Blade Stabilizer
- 1 (8") Mule shoe sub
- 1 (8") non-mag drill collar (MWD)
- 1 (8") non-mag drill collar
- 1 Crossover
- 15 - 4-1/2" Heavy Weight Drill Pipe
- 1 Drilling Jar Assembly
- 5 – 4-1/2" HWDP
- 4-1/2" 16.6# XH Drill Pipe

BHA #2 Directional Drilling Assembly

- 8 ½" Smith FDS bit or equivalent, with 6 ¾" directional motor assembly
- 1 – 6 ¾" float sub
- 8" Spiral integral blade stabilizer
- 6 ¾" mule shoe sub
- 6 ¾" non-mag drill collar (MWD)
- 6 ¾" non-mag drill collar
- X/O (if needed)
- 15 – 4-1/2" Heavy weight drill pipe
- Drilling jar assembly
- 5 – 4-1/2" Heavy weight drill pipe
- 4-1/2" 16.6#/ft XH Drill pipe

Drilling Plan

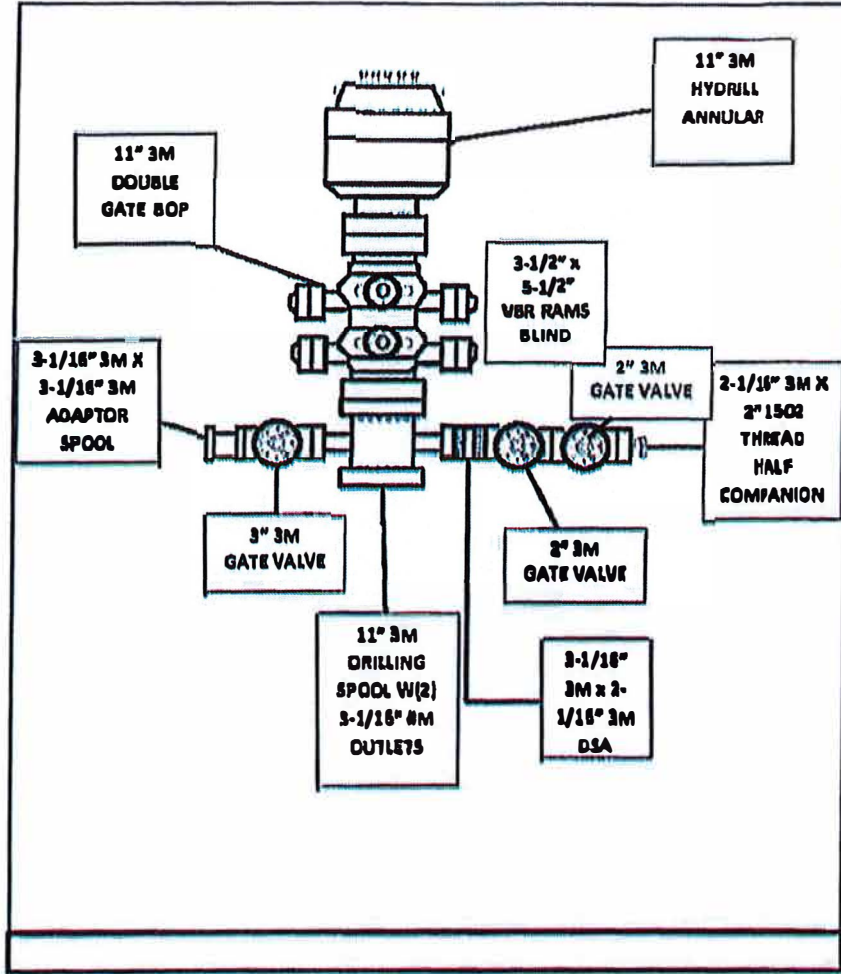
Drilling Plan expected to include but not limited to:

1. Auger 20" hole to 120' with water well rig and run 16" casing, set same with concrete back to surface.
2. Move in drilling rig.
3. Drill 12 ¼" hole with drilling rig to 1,125' and run 9 5/8" casing setsame with cement back to surface.
4. Drill 8 ½" hole to 4,575' and run open hole logs. If logs look good, run 5 ½" casing to TD and cement back to surface.
5. Move out drilling rig.

Blowout Preventer (BOP) Schematic

Stack from bottom up; pipe rams, mud cross, blind rams and annular. Pressure control equipment to include upper Kelly cock, Kelly, lower Kelly valve, stand-by full opening drill string valve (TIW), stand-by drill string inside BOP (Gray).

See diagram



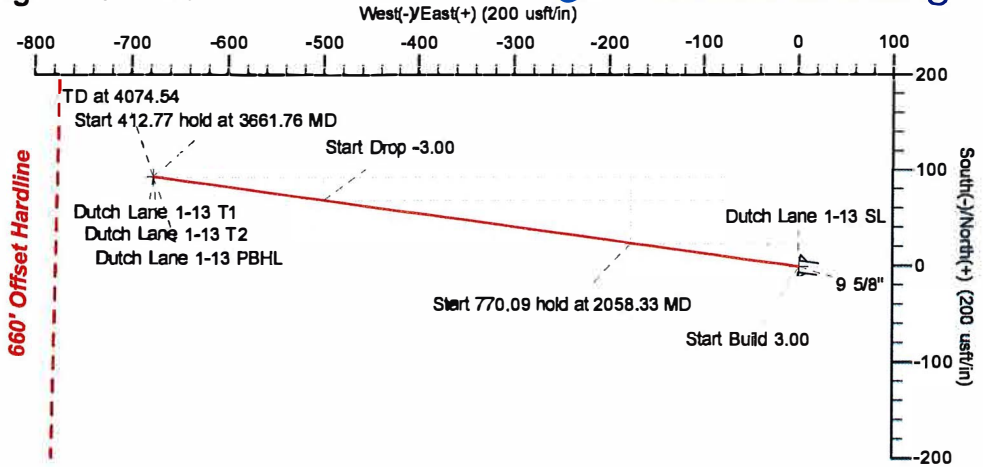
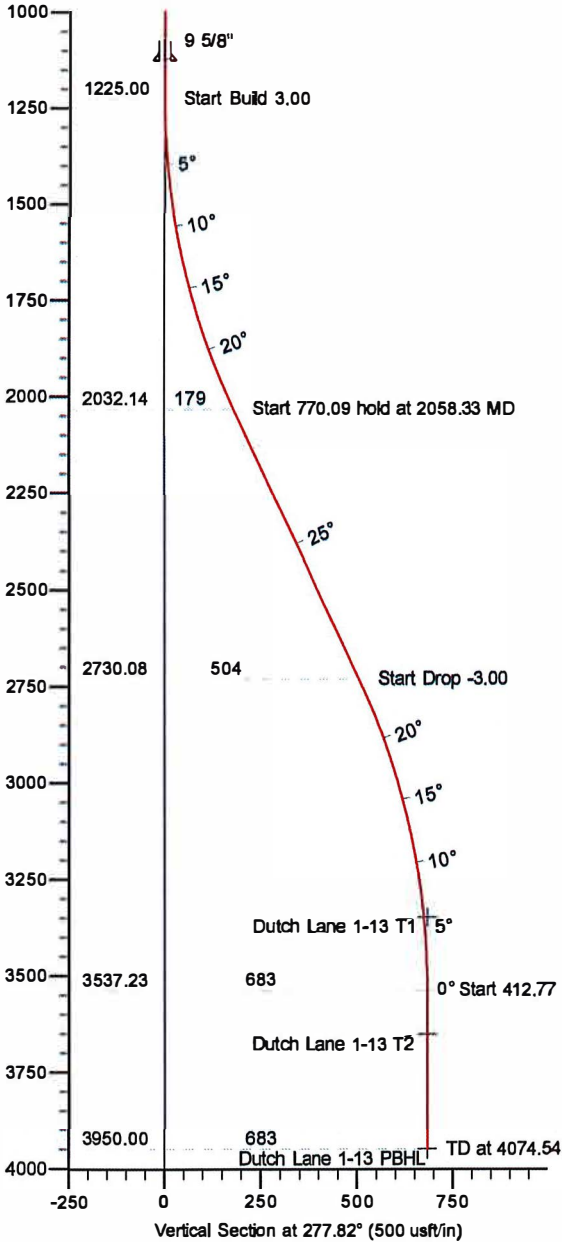
BOP Diagram



TIGHT HOLE

CASING DETAILS

TVD	MD	Size
1125.00	1125.00	9-5/8



Surface 2367'FNL 1316'FWL

Azimuths to Grid North
True North: 0.79°
Magnetic North: 14.13°

Magnetic Field
Strength: 52193.7snT
Dip Angle: 67.34°
Date: 12/01/2021
Model: IGRF2020

US State Plane 1927 (Exact solution)
Idaho West 1103
44° 1' 59.304 N
116° 53' 12.932 W

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Dutch Lane 1-13 SL	0.00	0.00	0.00	864496.00	201003.00	44° 1' 59.304 N	116° 53' 12.932 W
Dutch Lane 1-13 T1	3349.00	93.00	-676.98	864589.00	200326.00	44° 2' 0.130 N	116° 53' 22.215 W
Dutch Lane 1-13 T2	3652.00	93.00	-676.98	864589.00	200326.00	44° 2' 0.130 N	116° 53' 22.215 W
Dutch Lane 1-13 PBHL	3950.00	93.00	-676.98	864589.00	200326.00	44° 2' 0.130 N	116° 53' 22.215 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1225.00	0.00	0.00	1225.00	0.00	0.00	0.00	0.00	0.00	
3	2058.33	25.00	277.82	2032.14	24.35	-177.27	3.00	277.82	178.94	
4	2828.43	25.00	277.82	2730.08	68.64	-499.70	0.00	0.00	504.39	
5	3661.76	0.00	0.00	3537.23	93.00	-676.98	3.00	180.00	683.33	

Company:	Snake River Oil and Gas	Local Co-ordinate Reference:	Well #1-13
Project:	Payette County, ID W27	TVD Reference:	GL+KB @ 2179.00usft (Paul Graham 4)
Site:	Dutch Lane 1-13	MD Reference:	GL+KB @ 2179.00usft (Paul Graham 4)
Well:	#1-13	North Reference:	Grid
Wellbore:	#1-13 OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5k-14

Project	Payette County, ID W27		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Idaho West 1103		Using geodetic scale factor

Site	Dutch Lane 1-13				
Site Position:		Northing:	864,496.00 usft	Latitude:	44° 1' 59.304 N
From:	Map	Easting:	201,003.00 usft	Longitude:	116° 53' 12.932 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.79 °

Well	#1-13					
Well Position	+N/-S	0.00 usft	Northing:	864,496.00 usft	Latitude:	44° 1' 59.304 N
	+E/-W	0.00 usft	Easting:	201,003.00 usft	Longitude:	116° 53' 12.932 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	2,165.00 usft

Wellbore	#1-13 OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	12/01/2021	13.34	67.34	52,193.67580486

Design	Plan #1				
Audit Notes:	prelim for target review				
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00		277.82

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dutch Lane 1-13 SL										
1,125.00	0.00	0.00	1,125.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"										
1,225.00	0.00	0.00	1,225.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	2.25	277.82	1,299.98	0.20	-1.46	1.47	3.00	3.00	0.00	0.00
1,400.00	5.25	277.82	1,399.76	1.09	-7.94	8.01	3.00	3.00	0.00	0.00
1,500.00	8.25	277.82	1,499.05	2.69	-19.58	19.76	3.00	3.00	0.00	0.00
1,600.00	11.25	277.82	1,597.60	4.99	-36.36	36.70	3.00	3.00	0.00	0.00
1,700.00	14.25	277.82	1,695.12	8.00	-58.22	58.76	3.00	3.00	0.00	0.00
1,800.00	17.25	277.82	1,791.35	11.69	-85.11	85.91	3.00	3.00	0.00	0.00
1,900.00	20.25	277.82	1,886.03	16.07	-116.95	118.05	3.00	3.00	0.00	0.00
2,000.00	23.25	277.82	1,978.91	21.11	-153.65	155.10	3.00	3.00	0.00	0.00
2,058.33	25.00	277.82	2,032.14	24.35	-177.27	178.94	3.00	3.00	0.00	0.00
2,100.00	25.00	277.82	2,069.90	26.75	-194.72	196.55	0.00	0.00	0.00	0.00
2,200.00	25.00	277.82	2,160.54	32.50	-236.59	238.81	0.00	0.00	0.00	0.00

Company:	Snake River Oil and Gas	Local Co-ordinate Reference:	Well #1-13
Project:	Payette County, ID W27	TVD Reference:	GL+KB @ 2179.00usft (Paul Graham 4)
Site:	Dutch Lane 1-13	MD Reference:	GL+KB @ 2179.00usft (Paul Graham 4)
Well:	#1-13	North Reference:	Grid
Wellbore:	#1-13 OH	Survey Calculation Method:	Minimum Curvature
Dealgn:	Plan #1	Database:	EDM 5k-14

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,300.00	25.00	277.82	2,251.17	38.25	-278.46	281.07	0.00	0.00	0.00
2,400.00	25.00	277.82	2,341.80	44.00	-320.33	323.33	0.00	0.00	0.00
2,500.00	25.00	277.82	2,432.43	49.75	-362.19	365.60	0.00	0.00	0.00
2,600.00	25.00	277.82	2,523.06	55.51	-404.06	407.86	0.00	0.00	0.00
2,700.00	25.00	277.82	2,613.69	61.26	-445.93	450.12	0.00	0.00	0.00
2,800.00	25.00	277.82	2,704.32	67.01	-487.80	492.38	0.00	0.00	0.00
2,828.43	25.00	277.82	2,730.08	68.64	-499.70	504.39	0.00	0.00	0.00
2,900.00	22.85	277.82	2,795.50	72.59	-528.46	533.42	3.00	-3.00	0.00
3,000.00	19.85	277.82	2,888.63	77.55	-564.53	569.83	3.00	-3.00	0.00
3,100.00	16.85	277.82	2,983.53	81.83	-595.72	601.31	3.00	-3.00	0.00
3,200.00	13.85	277.82	3,079.95	85.44	-621.94	627.78	3.00	-3.00	0.00
3,300.00	10.85	277.82	3,177.62	88.35	-643.13	649.17	3.00	-3.00	0.00
3,400.00	7.85	277.82	3,276.28	90.56	-659.23	665.42	3.00	-3.00	0.00
3,474.26	5.63	277.82	3,350.03	91.75	-667.87	674.14	3.00	-3.00	0.00
Dutch Lane 1-13 T1									
3,500.00	4.85	277.82	3,375.66	92.06	-670.19	676.49	3.00	-3.00	0.00
3,600.00	1.85	277.82	3,475.48	92.86	-675.99	682.34	3.00	-3.00	0.00
3,661.76	0.00	0.00	3,537.23	93.00	-676.98	683.33	3.00	-3.00	0.00
3,700.00	0.00	0.00	3,575.46	93.00	-676.98	683.33	0.00	0.00	0.00
3,776.54	0.00	0.00	3,652.00	93.00	-676.98	683.33	0.00	0.00	0.00
Dutch Lane 1-13 T2									
3,800.00	0.00	0.00	3,675.46	93.00	-676.98	683.33	0.00	0.00	0.00
3,900.00	0.00	0.00	3,775.46	93.00	-676.98	683.33	0.00	0.00	0.00
4,000.00	0.00	0.00	3,875.46	93.00	-676.98	683.33	0.00	0.00	0.00
4,074.54	0.00	0.00	3,950.00	93.00	-676.98	683.33	0.00	0.00	0.00
Dutch Lane 1-13 PBHL									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Dutch Lane 1-13 SL - hit/miss target - Shape - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	864,496.00	201,003.00	44° 1' 59.304 N	116° 53' 12.932 W
Dutch Lane 1-13 T1 - plan misses target center by 9.25usft at 3474.26usft MD (3350.03 TVD, 91.75 N, -667.87 E) - Point	0.00	360.00	3,349.00	93.00	-676.98	864,589.00	200,326.00	44° 2' 0.130 N	116° 53' 22.215 W
Dutch Lane 1-13 T2 - plan hits target center - Point	0.00	360.00	3,652.00	93.00	-676.98	864,589.00	200,326.00	44° 2' 0.130 N	116° 53' 22.215 W
Dutch Lane 1-13 PBHL - plan hits target center - Point	0.00	360.00	3,950.00	93.00	-676.98	864,589.00	200,326.00	44° 2' 0.130 N	116° 53' 22.215 W

Company:	Snake River Oil and Gas	Local Co-ordinate Reference:	Well #1-13
Project:	Payette County, ID W27	TVD Reference:	GL+KB @ 2179.00usft (Paul Graham 4)
Site:	Dutch Lane 1-13	MD Reference:	GL+KB @ 2179.00usft (Paul Graham 4)
Well:	#1-13	North Reference:	Grid
Wellbore:	#1-13 OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5k-14

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,125.00	1,125.00	9 5/8"	9-5/8	12-1/4	

Logging Plan

1. Mud loggers collect/analyze the lithology of drill cuttings and mud gas values from conductor casing shoe to total depth (120' to 4,575' MD)
2. Open Hole Logging Program 1,125' – 4,575':

Run 1: TD to Surface Casing shoe (1,125' – 4,575')

Quad Combo on Memory Tools.

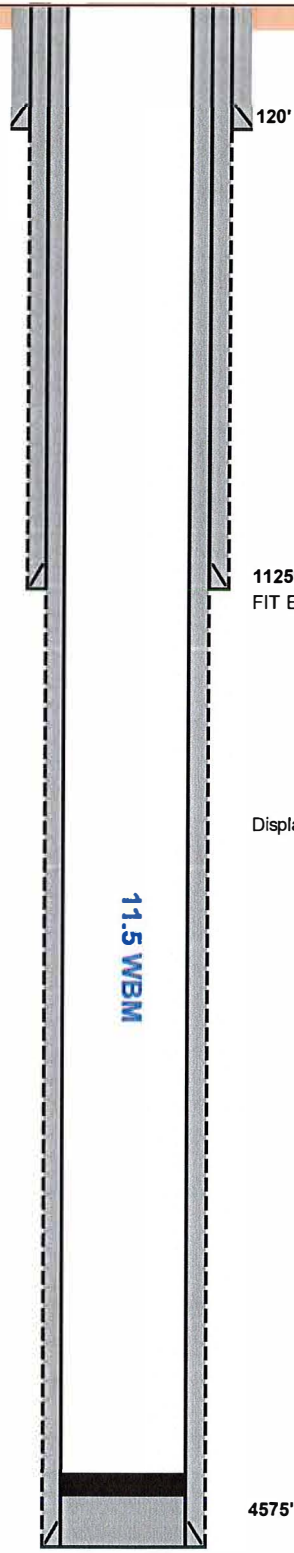
Quad Combo is Induction, Gamma Ray, Sonic, and Neutron/Density Porosity Tools

October 23, 2021

Surface Elevation GL: 2164.4' KB: 12.5' KBE: 2176.9'

Conductor: 16" by 62.58 ppf H40 @ 120'
Cemented to surface w/ 2351 cuft concrete
Hole size: 20"

Wellhead:	
A Sec:	9-5/8" SOW X 11" 5M
B Sec:	11" 5M X 7-1/16 Tbg Hd w/ Dry Hole Flange



Surface Casing 9.625in, 36#, J55, LTC @ 1125'
Cemented with 390 sacks Type III cement
Lead Slurry: 247 sx RC Econolite Plus
Tail Slurry: 80sx RC Surface Tail
TOC Cemented to surface
Top out cement : 80 sx RC Surface Tail
Est Mud weight 9.5ppg at Surface TD

1125'
FIT EMW: 12ppg

Displace cement with 4% KCl

Hole Size: 12.25"

Hole Deviation Max Angle ~32 deg
*See Directional Plan

Logging

Run #1 Quad Combo Shuttle or Wireline

Prod. Casing 5.5in, 15.5#, J55, LTC @ 4575'
Float Collar at 4530' MD
Cemented with 794sacks Class G cement
Lead Slurry: 394sx RC GasBond Lead
Tail Slurry: 400 sx RC Gas Bond Tail
TOC Cemented to surface
Est Mud weight 11.5ppg at TD
Hole Size: 8.5"

4575'

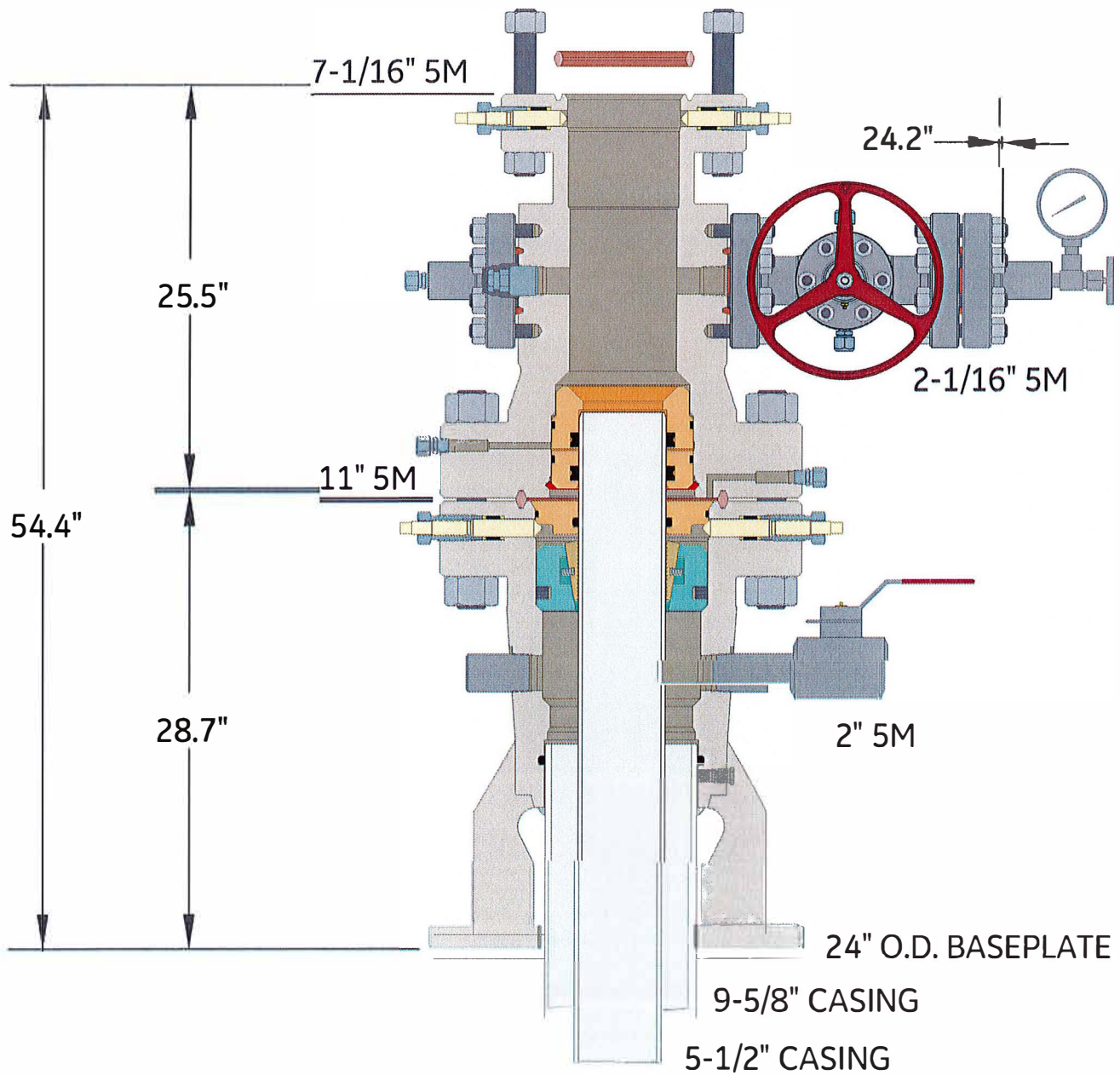
Proposed TD
4575' MD / 4450' TVD
PBTD 34405'MD

Well Name: Dutch Lane 1-13	Field: Wildcat
County: Payette	State: Idaho
Total Depth (MD)4575'	TVD 4450'

Wellhead and Production tree

See surface Wellhead System Diagram.

See surface Wellhead system with Wellhead Assembly Diagram.



9-5/8" X 5-1/2" 5M CONVENTIONAL WELLHEAD ASSEMBLY,
 WITH T-EBS-F TUBING HEAD

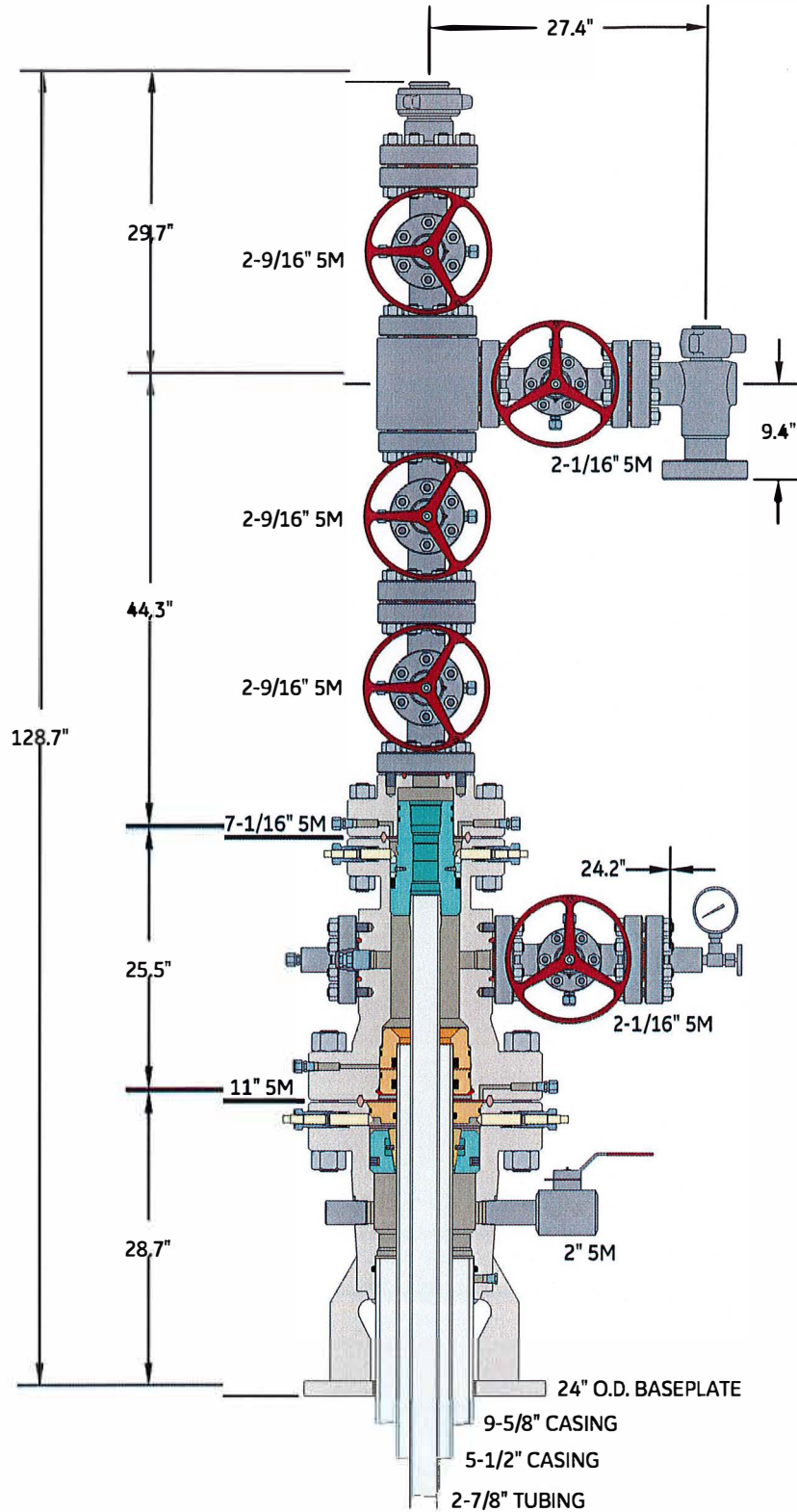



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DRAWN BY: AH
 REVIEWED BY:
 APPROVED BY:

DRAWING NO. 1000574-1
 Rev. NC | Sht. 1 of 1



	9-5/8" X 5-1/2" X 2-7/8" 5M CONVENTIONAL WELLHEAD ASSEMBLY, WITH T-EBS-F TUBING HEAD, T-EN TUBING HANGER		
<p><small>COPYRIGHT & PROPRIETARY NOTICE</small> Copyright 2020 Vault Pressure Control, LLC (unpublished work). All rights reserved. The information contained in this document is company confidential and proprietary property of Vault Pressure Control and its affiliates. It is to be used only for the benefit of Vault Pressure Control and may not be distributed, transmitted, reproduced, altered or used for any purpose without the express written consent of Vault Pressure Control.</p> <p><small>ALL DIMENSIONS ARE APPROXIMATE, NOT FOR MANUFACTURING USE.</small></p>	<p>DRAWN BY: <u>FGX</u></p> <p>REVIEWED BY:</p> <p>APPROVED BY:</p>	<p>DRAWING NO. <u>1000574</u></p> <p>Rev. <u>A</u> Sht. <u>1</u> of <u>1</u></p> <p>DATE:</p>	

Reclamation

Reclamation will be conducted in accordance with IDAPA 20.07.02.310.16;510. To achieve those requirements, Snake River Oil and Gas, LLC proposes to address reclamation through a multistep process which is outlined below. As provided for in IDAPA 20.07.02.510.08, Snake River Oil and Gas, LLC may enter into a Surface Use Agreement with the landowner the terms of which will ensure that the site is left in stable, non-eroding condition as required.

1. Interim drill site clean-up: Debris and waste materials including, but not limited to, concrete, sack bentonite and other drilling mud additives, sand, plastic, pipe, and cable associated with the drilling, re-entry, or completion operations shall be removed and disposed of properly.
2. Re-establish slope stability, surface stability, and desired topographic diversity.
 - a. Reconstruct the landscape to the approximate original contour unless otherwise provided for in the Surface Use Agreement.
 - b. Maximize geomorphic stability and topographic diversity of the reclaimed topography.
 - c. Eliminate high walls, cut slopes, and/or topographic depressions on site, unless otherwise approved.
 - d. Minimize sheet and rill erosion on the reclaimed area. Eliminate mass wasting, head cutting, large rills or gullies, down cutting in drainages, or overall slope instability on the reclaimed area.
3. Maintain the integrity of the topsoil and subsoil (where appropriate and not otherwise dictated by the Surface Use Agreement).
 - a. Identify salvaged topsoil and subsoil.
 - b. Segregation of salvaged soils to protect those materials from erosion, degradation, and contamination.
 - c. Incorporate stored soil material into the disturbed landscape to the extent practicable.
 - d. Stockpiled soils to be stored beyond one growing season shall be stabilized with appropriate vegetation.
 - e. Record location and approximate volumes of stockpiles.
4. Prepare site for revegetation upon completion of well activities – plugging/abandonment.
 - a. Redistribute soil materials in a manner similar to the original vertical profile.
 - b. Reduce compaction to an appropriate depth (generally below the root zone) prior to redistribution of topsoil, to accommodate appropriate site-specific plant species.
 - c. Provide suitable conditions to support the long-term establishment and viability of the desired plant community.

- d. Protect seed and seedling establishment (e.g. erosion control matting, mulching, hydro-seeding, surface roughening, fencing, etc.) to be determined based upon site specific conditions.
5. Establish a desired self-perpetuating native plant community based upon region specific guidance available from NRCS.
 - a. Establish species composition, diversity, structure, and total ground cover appropriate for the desired plant community.
 - b. Select genetically appropriate and locally adapted native plant materials based on the site characteristic and setting
 - i. Seed mixtures shall be selected based on soil type, site conditions and intended final use.
 - ii. Seed shall not be used later than one year after the test date that appears on the label.
 - iii. The bags of seed shall be clearly labeled indicating test date, weed percentage or % Pure Live Seed (PLS), viability or germination percentage, and inert material.
 - c. Select non-native plants only as a short term and non-persistent alternative to native plant materials. Ensure the non-natives are designed to aid in the re-establishment of native plant communities. Revegetate in accordance with best practices described below:
 - i. Re-spread topsoil to a minimum depth of 4 inches.
 - ii. Prepare a friable but firm and weed free seedbed that is not compacted by prior construction work.
 - iii. Appropriate firmness can be estimated when a person leaves about a ¼ inch deep footprint.
 - iv. Remove rocks, twigs, concrete, foreign material and clods over 2 inches that can't be broken down.
 - v. Soil moisture content shall be at least 30% soil capacity (estimated). Do not seed into undesirable moisture conditions (e.g. "dust" or "mud").
 - d. Plant communities shall be evaluated annually for two years to ensure revegetation success as determined by IDAPA 20.07.02.510.07.
 - i. Repair and reseed areas that have erosion damage as necessary.
 - ii. If a stand has less than 70% ground cover after two years, re-evaluate the choice of plant materials, methods and available light and moisture. Re-establish the stand with modifications based the evaluation.
6. Reestablish initial visual composition.
 - a. Ensure the reclaimed landscape features conform to the prior conditions of the site.



RECEIVED
By IDL OGD at 2:18 pm, Nov 04, 2021

(no subject)

1 message

Mrs. Josie <mrsjosie38@gmail.com>
To: Mrs. Josie <mrsjosie38@gmail.com>

Thu, Oct 28, 2021 at 5:29 PM

NOV 03 2021

October 28, 2021

Snake River Oil and Gas
PO Box 500
Magnolia, Arkansas 71754-0500

To Whom It May Concern:

RE: SROG Dutch Lane #1-13

The pending application sites the well outside of the boundaries of our property and 150 feet east of our ditch. We hereby waive the 300 ft setback required and agree to the reduction to the 150 ft setback described in the application for a single well to be located on the May property.

L. Mac Higby 10-28-21

JoAnn Higby 10-28-2021

L. Mac and JoAnn Higby Date