LMR DOC EXCHANGE Date: 7-5-/2



INSTRUMENT ASSIGNMENT Note: Incomplete forms will not be processed. All Assignment fees are Non-refundable. For and in consideration of the full sale price of \$ Twenty (\$20.00) dollars paid for the instrument, improvements and/or personal property, with the amount of \$ none additional paid for the improvements and/or personal property, receipt of which is hereby acknowledged. We hereby sell, assign and transfer, all of dollars my/our rights, title and interest in State of Idaho Instrument No. LU500029 Kom #1-22 unto the following: Individual or Family Trust Name: **Business or Entity Name:** Last Alta Mesa Services, LP **First** Business or Entity Registration No. (or proof of pending application) Middle DBA: ADDRESS OF RECORD (FOR ALL CORRESPONDENCE) AND CONTACT INFORMATION Street: 15021 Katy Frwy., Suite 400 Business: Alta Mesa Services, LP PO Box: Contact Name: Dale R. Hayes City: Houston Fax: 281-944-0106 State: Texas Contact Name: Dale R. Hayes 77094 Zip +4: Home: Country: USA **Contact Name:** Attention: Dale R. Hayes Cell Area Code/Phone#: Title: Vice President - Operations **Contact Name:** Email Address(es): dhaves@altamesa.net Assign Encroachment (Attachment A not required). Assign an interest in all lands within Instrument (Attachment A not required). Assign an interest in only part of the lands in the Instrument. (Attachment A required for lands remaining and lands being removed) **ACCEPTANCE AND ASSUMPTION BY ASSIGNOR** I / We hereby swear and affirm that the consideration stated herein is the full and complete amount paid by the assignees to the assignors for the above-described State of Idaho Instrument, and no additional payment has been or will be made. CLAYTON **Bridge Energy** Date Current Instrument Holder/Designated Agent Company Name (if applicable) 1190 Date Instrument Holder/Designated Agent Company Name (if applicable) County of Subscribed and sworn to before me this Notary Public My Commission Expires: ACCEPTANCE AND ASSUMPTION BY ASSIGNEE The undersigned, as Assignee(s) above-named, assumes and accepts the obligations and conditions of the above-described State of Idaho Instrument and separately covenants with the State of idaho that they will abide thereby during the term of said instrument. Assignee(s) does hereby swear and affirm that the sum of \$ is the full and complete amount of consideration paid by Assignee(s) to the Assignor(s) herein, and that no additional payment has been or will be made. 06/19/2012 Date older/Designated Agent Company Name (if applicable) Date New Instrument Holder/Designated Agent Company Name (if applicable) STATE OF SHERRY ELLEN GAY County of Notary Public State of Texas My Commission Expires Subscribed and sworn to before me this day of June ebruary 27, 2013 Notary Public

My Commission Expires:

### BUREAU OF SURFACE AND MINERAL RESOURCES 300 North 6<sup>th</sup> Street Suite 103 PO Box 83720 Boise ID 83720-0050 Phone (208) 334-0200

Fax (208) 334-3698



GEORGE B. BACON, DIRECTOR
EQUAL OPPORTUNITY EMPLOYER

### STATE BOARD OF LAND COMMISSIONERS

C. L. "Butch" Otter, Governor Ben Ysursa, Secretary of State Lawrence G. Wasden, Attorney General Donna M. Jones, State Controller Tom Luna, Sup't of Public Instruction

> Hand Delivered August 25, 2010

Jeff Kirn Bridge Energy, Inc. c/o Ryan V. Morgan Centra Consulting 413 West Idaho Street Suite 302 Boise, Idaho

Assigned to Alfa Mesa Services, Inc of 15021 Karly Fewy, Sale 400 Houston Ty Frony Recorded July 5, 2012

SUBJECT: Permit to Drill LU600029 (API#11-075-20014, Korn #1-22 on State Lease O-01986)

The Idaho Department of Lands 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 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.
- 2. The permittee shall ensure mud pits are adequately sized, designed and constructed for the reception and confinement of mud and cuttings and to prevent contamination of streams and potable water.
- 3. 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.
- 4. Multiple zone completion has not been requested, and must be applied for separately, as required by IDAPA 20.07.02.220.
- 5. If a full length annular seal will not be installed in the 5½ inch casing, then the following information, in addition to any that may be required by IDAPA 20.07.02.220, must be submitted to the Idaho Department of Lands prior to finishing the well:
  - a. Identification of which zones will be sealed off and which zones will remain open
  - b. Criteria used to determine which zones are sealed or left open
  - c. How the cementing plan will prevent commingling of aquifers that have different temperatures, pressures, and other qualities

Page 1 of 2, Permit to Drill LU600029 Approval

This is to certify that this is a true and correct copy of this document, the original of which is on—file with the Idaho Department of Lands (IDL).

**IDL Representative** 

Date

- 6. No secondary recovery efforts have been applied for, and Class II injection wells for injecting brines and other fluids to aid oil and gas production may not be permitted.
- 7. Non-productive wells must be decommissioned prior to drilling the next hole.
- 8. Temperature readings must be periodically taken to insure that the correct cement is used. Temperature readings must be logged and submitted with other well information after hole completion.
- Applicant will obtain necessary water rights from Idaho Department of Water Resources if nearby wells will be used to supply water for the drilling operations.
- 10. The Exploration Permit required by IDAPA 20.03.16 will be obtained prior to drilling.

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

This permit will be administered by Nancy Welbaum in our Southwest Supervisory Area. She will be inspecting the drilling operation, and may be accompanied by our contractor assisting with inspections. Please contact her at 208-334-3488 if you have any questions.

Sincerely,

Eric Wilson

Navigable Waters/Minerals Program Manager

inden

cc: Nancy Welbaum

Chad Hersley, IDWR, PO Box 83720, Boise, Idaho 83720-0098

Kevised



# API# 11-075-2004

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

APPLICATION TO: Drill 🕱	Deepen 🗌	Plug Back [	
NAME OF COMPANY OR OPERATOR: Bridge Energy, Inc.			Date: <u>6/23/2010</u>
Address: 1580 Lincoln Street, Suite 1110			
City: <u>Denver</u> State: <u>CO</u> Zip Co	ode: 80203	Telephone:	(303)831-9022
Distance, in miles, and direction from nearest town or post office.			
	Plymouth, ID		
DESCRIPTION OF WE	LL AND LEAS	Ε	
Name of Lease: State Lease O-01986 (Korn) Well Number:	#1 <b>-</b> 22	Elevation (g	round) <u>2358.71'</u>
Well Location: Section: 22 Township: 7N	Range: 4W		(or block and survey
(give footage from section lines): 607' FNL 2109' FWL	(NE 1/4 NW 1/4)		
Field and Reservoir (if wildcat, so state): Hamilton			County: Payette
Nearest distance from proposed location to property or lease line			
Distance from proposed location to nearest drilling, completed or	applied for on	the same lease	e N/A feet
Proposed depth: 2,500 ft Rotary or cable	tools: Rotary		
Approx date work will start: <u>August 11, 2010</u> Numbe			
Number of wells on lease, including this well, completed in or drill	ling to this rese	rvoir: 1	
If lease purchased with one or more wells drilled, complete the fo	ollowing informa	tion:	
Purchased from (name) N/A			
Address of above N/A			
Status of bond N/A			
Remarks: (If this is an application to deepen or plug back, briefly	describe work t	o be done, giv	ing present producing zone
and expected new producing zone) Survey plats and drilling pro	ognosis are atta	ached.	
State of Idaho Lease # O-01986 . Lease Description: Sec. 22	2: N2NE, SWN	E, NW, S2, 7N	I-4W.
CERTIFICATE: I, the undersigned, state that I am the Cons	sultant		
of Bridge Energy, Inc.	this and it atten		_(company) and that I am
authorized by said company to make this application and that the			
direction and that the facts stated herein are true, correct and cor	nplete to the be	est of my know	edge.
Date: 8/13/10 Signature: Lyan	2. 1	Myc	3
Permit Number: LU600029 Approval Date: 8/29/0 A	Approved by:	Regel	Ram

**NOTICE:** Before sending in this form, be sure that you have given all information requested. See instructions on back.



FORM P-1 Authorized by Order No. 2 Rev. 08/14/07

### DRILLING PROGNOSIS BRIDGE ENERGY, LLC

## Korn State #1-22 (Hamilton Prospect) NE/4 NW/4 of Section 22-Township 7N-Range 4W

Payette County, Idaho

July 16, 2010

### **GENERAL**

NOTE:

This well is to be drilled as a tight hole. Unauthorized personnel are not to be

allowed on the rig floor, and all information is to be kept confidential.

Surface Location:

607' FNL and 507.84' FEL (NENW), Section 22-T7N-R4W

Bottomhole Location:

Same

Proposed TD/Objective:

~1900 ft /Tertiary Sands

TD 2500'

Elevation:

2,359' GL (ungraded); 2,377' KB (estimated).

Drilling Rig:

WHS Razorback.

### **MECHANICAL**

Casing Design:

<u>SIZE</u>	INTERVAL	<b>LENGTH</b>	<b>DESCRIPTION</b>	SFt	<u>SFc</u>	<u>SFb</u>
16"	0' - 82'	82'	Conductor (0.219" WT)			
9-5/8"	0'-600+'	600+'	36#, J-55, STC	21.9	8.18	7.04
5-1/2"	0'-2500'	2,500'	17#, J-55, STC	2.69	1.60	1.91
2-7/8"	0'-2500'	2,500'	6.5#, J-55, EUE	3.16	3.05	1.45

NOTE: If mud weight exceeds 10.0 ppg at TD, casing design may be altered. Clean and drift all strings of casing prior to running. Remove all thread sealant (Kindex) prior to running. Unload production casing and tubing strings with a forklift.

### **CEMENT**

CEMENT SLURRY	<u>SX</u>	<u>PPG</u>
Cement to surface with 4 yds Redi-mix.		
Lead: Premium Light cement + 2% CaCl <sub>2</sub> + 1/4 pps flocele	100	12.0
Tail: Class G + 2% CaCl <sub>2</sub> + 1/4 pps flocele	100	15.8
	Cement to surface with 4 yds Redi-mix.  Lead: Premium Light cement + 2% CaCl <sub>2</sub> + 1/4 pps flocele  Tail: Class G + 2% CaCl <sub>2</sub>	Cement to surface with 4 yds Redi-mix.  Lead: Premium Light cement + 2% CaCl <sub>2</sub> + 1/4 pps flocele  Tail: Class G + 2% CaCl <sub>2</sub>

**NOTE:** Precede cement with 50 bbl fresh water. Have 100 sx neat cement and one-inch tubing on location for topping-off. Cement volume has been calculated assuming 100% excess.

Drilling Prognosis Hamilton Prospect Korn State #1-22 Page Two

CASING/HOLE SIZE YIELD	CEMENT SLURRY		<u>SX</u>	<u>PPG</u>
5 1/2" – 8 3/4"	Class G cement containing fluid loss additive, bonding agent,			
	and retarder as required.	300	15.8	1.15

NOTE: Prior to cementing, slowly lower mud viscosity to 35-sec funnel viscosity. Circulate hole for 1 hour at this viscosity prior to cementing. Precede cement with 1000 gal mud flush and 30 bbl fresh water spacer. Cement top contingent upon the presence of potentially productive intervals. Actual cement volume to be determined from caliper log. Run pilot tests on proposed cement with actual make-up water. Cement design may be altered depending on actual bottomhole temperatures and the presence of lost circulation. Do not move the casing (under any circumstances) while setting the casing slips.

### **CEMENTING ACCESSORIES**

Surface Casing:

- 1) Guide shoe with insert float located one joint above shoe.
- 2) Top wiper plug (rubber).
- 3) Centralizer with stop ring in middle of shoe joint.
- 4) Centralizers over collars on first three connections, omitting float collar.
- 5) Use a total of five centralizers.

Production Casing:

- Differential-fill float collar located one joint above differential-fill float shoe.
- 2) Top and bottom wiper plug.
- 3) Centralizer with stop-ring in the middle of shoe joint.
- 4) Centralize through and 100' on either side of potentially productive intervals. Run at least 12 centralizers.
- 5) Thread-lock all connections through float collar and use API casing dope on all remaining connections.
- 6) Stage cementing tool may be run to ensure placement of cement across any productive intervals and fresh water sands.
- 7) Centralize above and below stage cementing tool (if run).

### WELLHEAD

Casing Head:

9-5/8" x 11" x 3,000 psi WP flanged casing head with two-2" LP outlets. Outlets equipped with one-2" 3,000 psi WP ball valve, and one-2" x 3,000 psi WP bull plug on the outlets.

Tubing Head:

11" x 7-1/16" x 3,000 psi WP tubing head with two-2" LP threaded outlets.

Outlets

to be equipped with 2" x 3,000 psi WP ball valves.

Upper Half:

To be determined.

**Drilling Prognosis** Hamilton Prospect Korn State #1-22 Page Three

### **MUD PROGRAM**

INTERVAL	WEIGHT (PPG)	<b>VISCOSITY (SEC)</b>	WL (CCS)
0' - 600+'	8.5 - 9.0 ppg	30 - 45 sec	NC

Spud well with fresh water viscosified with Pac Regular. Circulate reserve pit to maintain clear water at the pump suction. Addition of lime and/or a selective flocculant may be made at the flowline to promote solids settling in the reserve pit. Keep hole full and drill pipe moving at all times. Sweep hole with Super Sweep to insure the hole is clean prior to running surface casing.

INTERVAL	WEIGHT (PPG)	VISCOSITY (SEC)	WL (CCS)
600+' - 2500'	8.5 - 9.8 ppg	28 - 34 sec	10 ccs or less

After drilling our surface casing shoe, displace to Synthetic Base Mud, SBM. Reference SBM program for specific maintenance, product concentrations, and mud treatment.

Keep hole full at all times. Monitor pit volume constantly as lost circulation and water flows should be expected at all times. Sweep hole as dictated by hole conditions.

Deviation tendencies in this area should not be severe; however, prudent drilling practices should be adhered to at all times. Surveys should be run at ±500 ft intervals, unless otherwise indicated.

### WELL CONTROL EQUIPMENT

INTERVAL	EQUIPMENT
0'-600+'	None
600+' - 2500'	11" x 3,000 psi WP double-gate BOP with blind and 4-1/2" pipe rams. Rig should be equipped with upper and lower kelly cocks, as well as stabbing valve (have wrench available at all times). BOP equipment will be tested after nipple-up and every 30 days thereafter. (Notify Idaho State field representative prior to testing). Close pipe rams daily and blind rams on trips, recording results on tour sheets.

### **GEOLOGICAL**

Geologist/Mud Logger: Geologist and mud logger with hotwire and chromatograph to be on location to from base of surface casing to TD. Notify prior to spud and after setting

surface casing.

Electric Logging: DIL-SFL-SP and BHC Sonic-GR-CAL to be run in tandem from base of surface

casing to TD. LDT-CNL-GR-CAL may be run at the geologist's discretion.

Drilling Prognosis Hamilton Prospect Korn State #1-22 Page Four

### **GEOLOGICAL** (Continued)

Formation Tops:

Assumes KB elevation of 2,377 ft.

<b>FORMATION</b>	DRILL <u>DEPTH</u>	SUB SEA
Idaho Group Sands	Surface	+ 2,377'
Pro Delta Shale	572'	+ 1,805'
Hamilton Sands	1,901'	+ 476'
Total Depth	2,500'	- 123'

### **MISCELLENEOUS**

- 1. Pump carbide lag prior to running surface casing and prior to drilling out shoe. Pump efficiencies will be calculated from this information. Run frequent carbide lags while drilling to determine degree of hole washout.
- 2. Monitor mud hydraulics closely. An in-gauge hole is extremely critical to achieve open-hole packer seats, interpretable logs, and a good cement bond.
- 3. Water will be hauled or pumped from nearby sources.
- 4. Reserve pit is to be lined with a 12-mil synthetic liner.
- 5. It is anticipated that a mud motor and PDC bit will be used from approximately 600' to TD.
- 6. In general, the above prognosis is presented as a guideline only; and is subject to change as dictated by hole conditions and geological interpretation.

PERSONNEL	OFFICE NUMBER	CELL NUMBER
Ron Richards Jeff Kirn, Manager of Operations Ed Davies, President	303-831-9022 303-831-9022 303-831-9022	720-209-0207 303-981-7443 720-641-8737
	Prepared by:	
	Ron Richards for Bridge F	energy Inc

### **BRIDGE RESOURCES**

### KORN State #1-22 **WELLBORE DATA SHEET**

LEASE:

WELL:

Bridge Resources

Korn State #1-22 LOCATION:

Sect 22/Township 7N/Range 4W

SPUD DATE:

Payette County August

OBJECTIVE: Hamilton Sands TOTAL DEPTH:

SURFACE LOCATION:

N43-56-11.42"

W116-48-15.65"

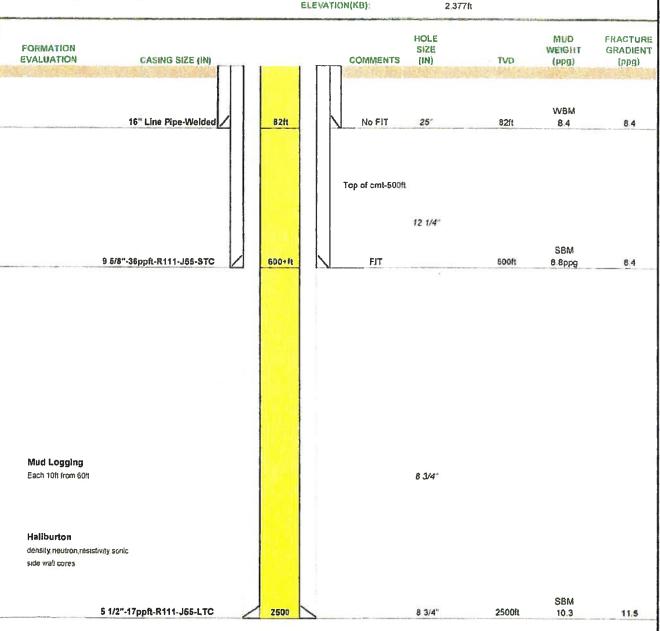
**BOTTOM HOLE LOCATION:** N43-56-11,42"

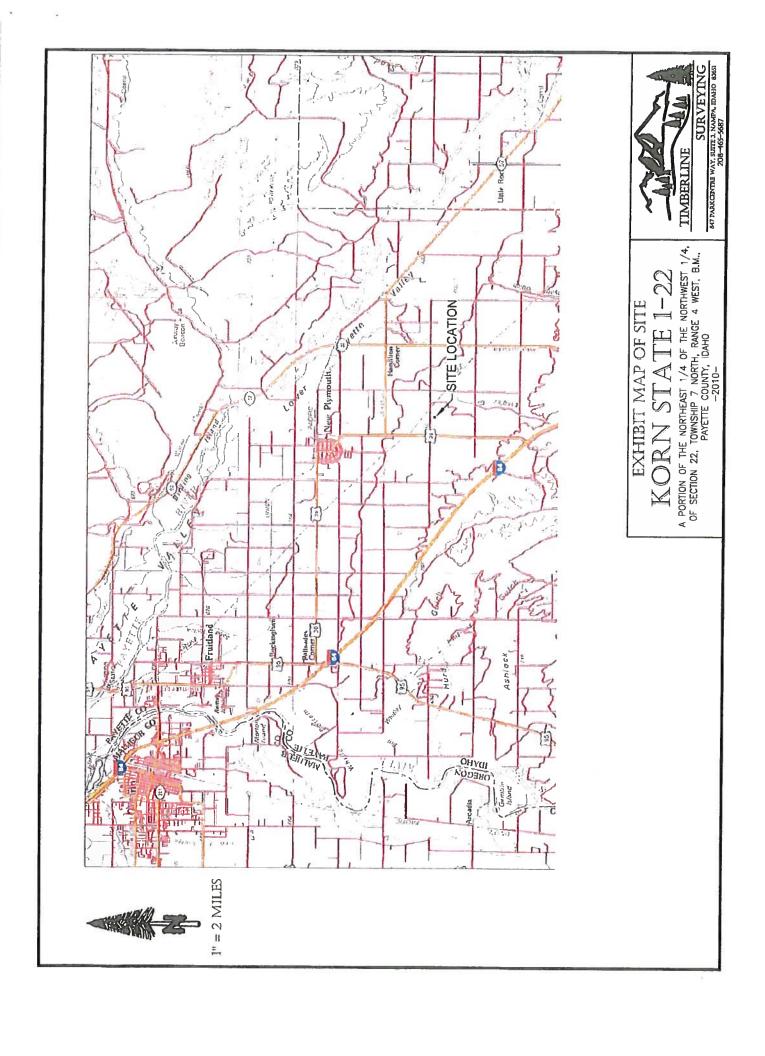
W116-48-15 65"

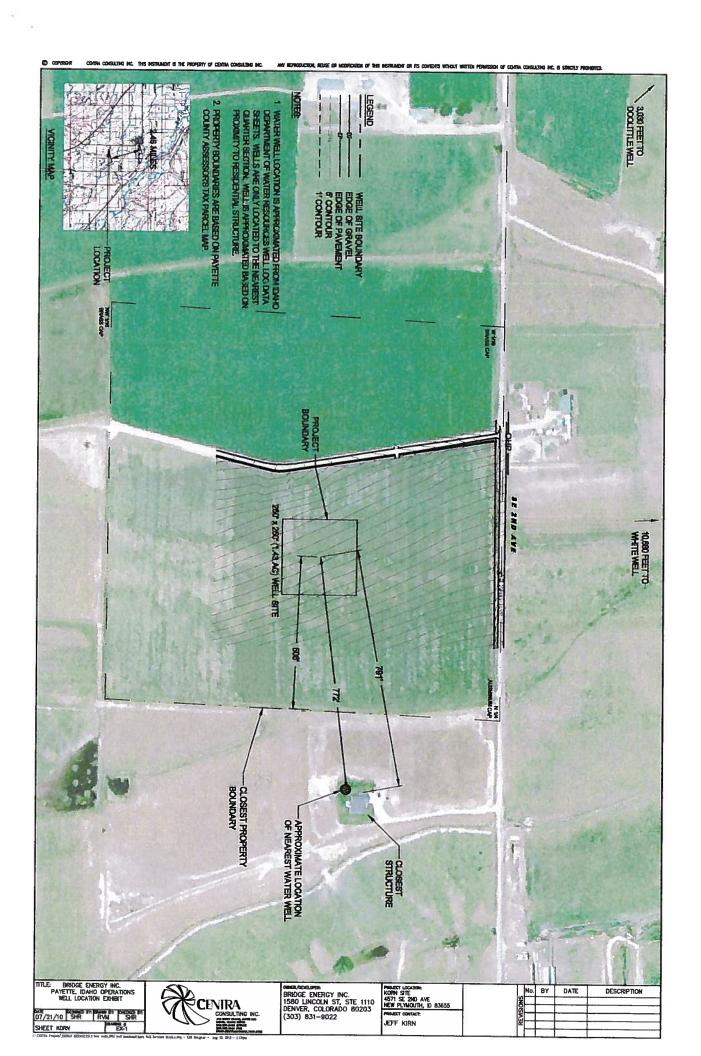
2,359ft

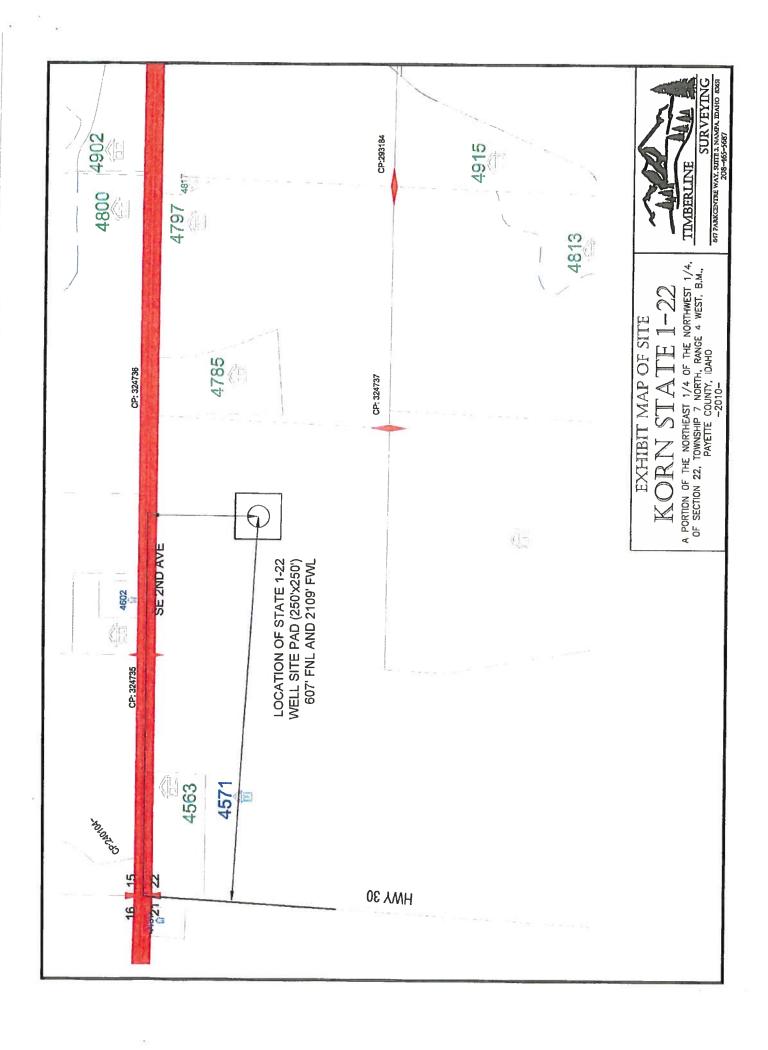
ELEVATION: ELEVATION(KB):

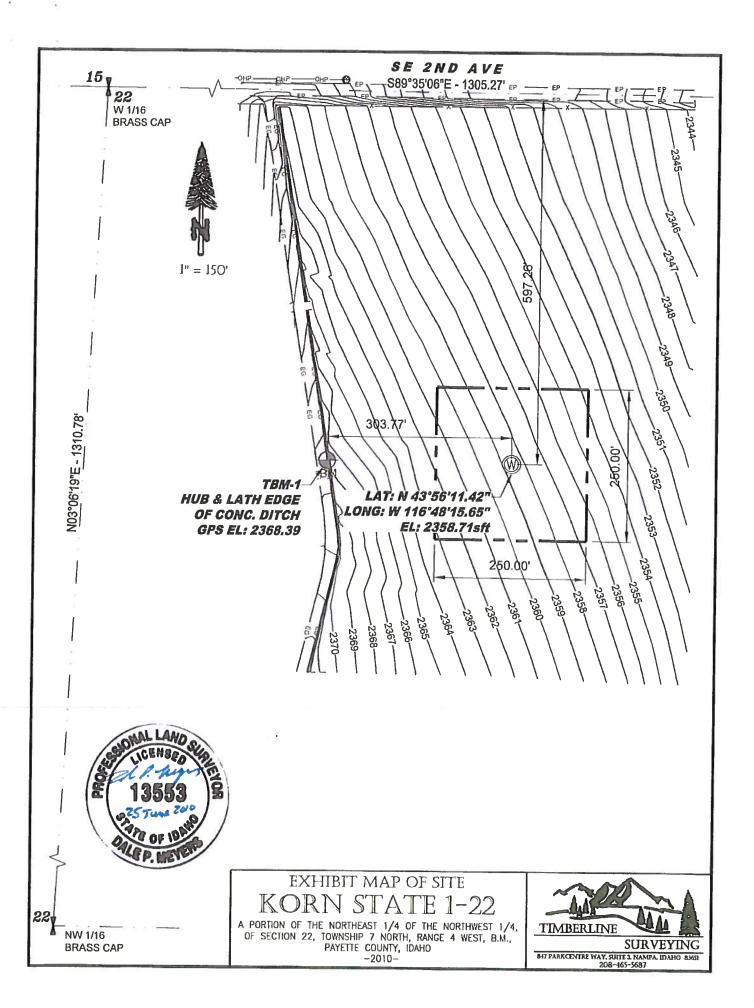
2500ff

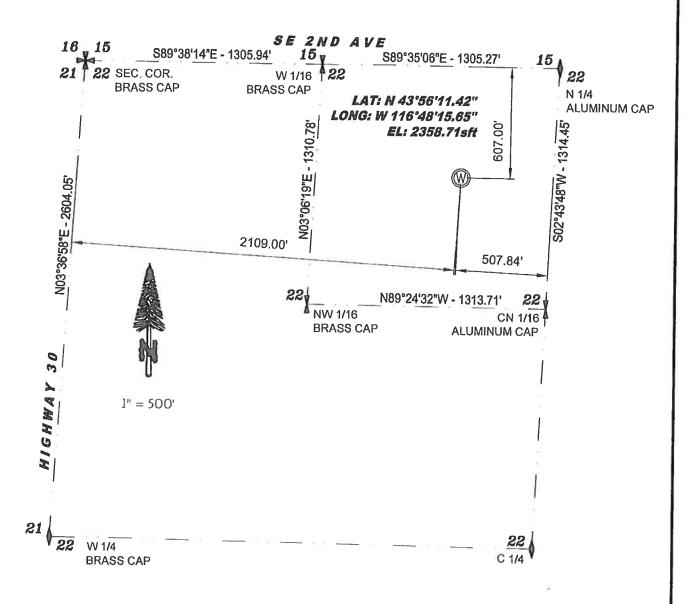












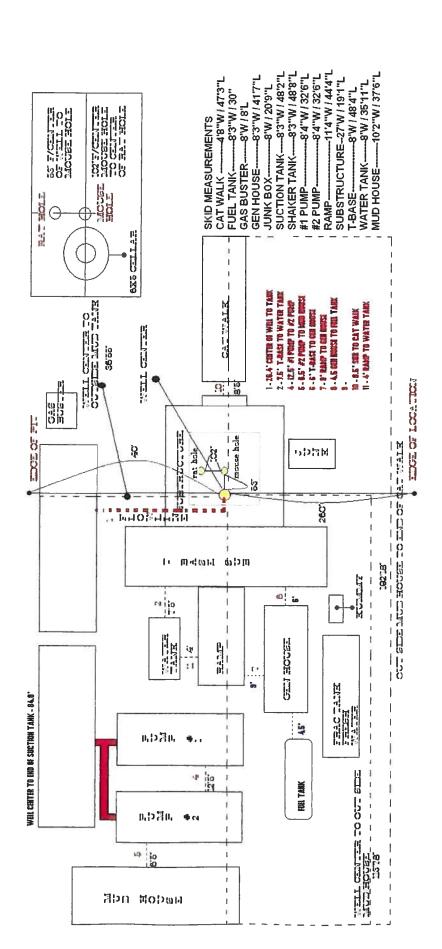


# EXHIBIT MAP OF SITE KORN STATE 1-22.

A PORTION OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4, OF SECTION 22, TOWNSHIP 7 NORTH, RANGE 4 WEST, B.M., PAYETTE COUNTY, IDAHO -2010-



847 PARKCENTRE WAY, SUITE 3, NAMPA, IDAHO 83631 208-465-5687



4P. DATED REG ENI

# WHS, LLC Razorback Rig Component Listing

The following list contains the components of the 2004 Cameron C-900 Hp, Trailer Mounted Drilling Rig w/ VIN Number (5024). This rig also operates w/ a FDS 150 Ton HMI hydraulic Top Drive.

Qty	Item	Remarks
1	Drawworks - Cameron 42"x 12" Water Circulating Drum w/ water cooled main brake and Wichita water cooled assist brake Wichita Drum Clutch	
1	Power and Drive Package – Twin (2) Detroit Series 60 engines; 450 Hp each w/ Allison 5960 Transmissions into a Cushman 1000 Hp gear driven Compound, to Cushman 1000 Hp RA box; 1:1 Ratio	
1	Mast – PEMCO 120' x 400K lbs hook load; 1.25 API rating; sheaved for 10-1-1/8" drill lines; Serial # 1312	
2	Hydraulic Scoping Cylinder f/ PEMCO derrick	Spare
I	Fluid Design Services (FDS) 150 Ton Hydraulic Top Drive w/ diesel power package.	
1	Hydraulic Motor FDS 150 Ton Top Drive	Spare
1	Block-200 Ton ABCO, 10 line 5 x 36" sheave w/ ABCO Hook	
1	Weight Indicator-Totco type 4	
1	Sub Structure-17'H x 10'W x 16'L w/6' foldout wings. Unit scopes down to 10'6"H x 13'6" on lowboy.	
Ī	40' Kelly; Hex	
1	Kelly Bushing	
Ī	Kelly Shuck w/ protector	
1	Sub-structure/T-base-45' x 8'	
1	Sub-structure ramp-48'4" x 10', hydraulic raise-cylinders part # SD83CC-24-131	
1	Top Dog House-24'10" x 7'10.5", hydraulic raise, with knowledge box, lockers, shelfing, and bench seats. Framework installed for Pason Electronic Drilling Recorder and Autodriller computer system.	
1	Kelly Spinner-Cam-tech model 6100 hydraulic Kelly spinner assy.	
	Well Control Equipment-Shaffer LXT DBL 11" x 5K psi MAWP, Dual Ram, hydraulic BOP mfg. Date 11-04, Serial # 200213110-81 Shaffer LTX 11" x 5K psi MAWP spherical annular BOP	

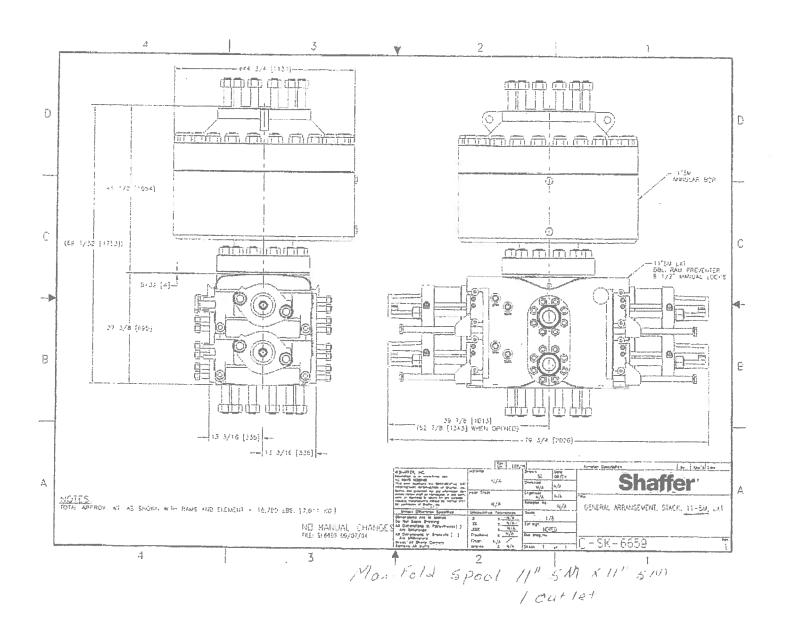
### WHS, LLC Razorback Rig Component Listing

Qty	Item	Remarks
1	4-1/16" x 5000 psi BOP valve	
	Choke Manifold, fitted for HCR valve, choke-w/4outlets, 5000 psi	
1	Closing Unit-Massco Inc. 5 station	
2	Generators-DDC 410 KW generators, 277/480 VAC 3 Phase 60 HZ powered by 2 Detroit Series 60 14.0 L Diesel engines/Tier III Emissions standards. Skid mounted in covered house with all electronic panels as 1 unit.	
1	Generator House-44' x 10' skid mounted	
1	Swivel-EMSCO LB 200 Ton Serial # 208	
1	Mud System-2-tank system w/approx. 700 bbls capacity. 60 HP mud mixers, 4 agitators, 4 jet blowers, 70 bbls slugging tank, 2-Doublelife AWD III Linear shale shakers built in tandem, 600 GPM each. Mud Conditioner unit consisting of; 1-Doublelife AWD III shale shaker, 1-Doublelife Mod. I-210 Desander, and 1-Doublelife V-510, 10 cone Desilter.	
2	Mud Pumps-2 HHF-1000 HP triplex pumps w/pulsation dampners, powered by CAT 3412 1150 HP diesel engines, fully unitized. With 6" liners, 10" stroke, pumps will move 3.7 gal/stroke at 100% efficiency. Additional specifications upon request.	
3	American Roller Bearings for CE-F1000 mud pump	Spare
2	SKF Pillar Block bearings for CE-F1000	Spare
1	Mud/Gas Seperator: 30'H x 6' Dia vessel mounted on skid for easy rig up and tear down.	
1	Fresh Water Tank-200 bbl fresh water tank w/electronic 20 HP 480V frame 256T 3 x 2 centrifugal 4 x 6 water pump powered by Detroit 353 (2800 rpm)	
]	Catwalk-47'3" x 10'2" pipe racks	
1	Junk Box-20'9" x 7'10"	
1	Rotary Table-22" IDECO rotary table assy. On 44" centers complete w/split master bushing.	
1	Drill Collar Slips-Type A 5-1/2 MS 98C	
1	Drill Pipe Slips-Wooly M3-98	
1	Drill Collar Clamp(Wedding Band) AOT 12116 5 ½-6 5/8	

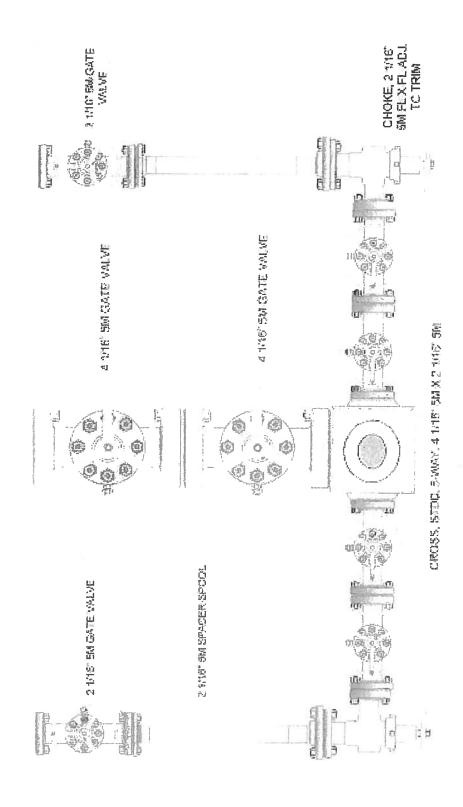
### WHS, LLC Razorback Rig Component Listing

Qty	Item	Remarks
	Serial # 29140	
1	Casing Elevators	
	M66-5 ½	
	250 ton 227 MT	
	Drill Pipe Elevators-2-AOT(1) 150 ton(1) 250 ton	
	Cross Over Subs-Assorted	
1	Survey Machine-Wireline survey machine.	
1	Diesel Tank-8000 gal Cylindrical Tank: Myers diesel tank transfer pump assy. w/3hp 3600rpm explosion proof motor. Skid mounted with 3 compartments for oils on front of skid.	

This rig moves in 27 loads (including pipe). All components are skid mounted and mud-boated with lifting ears to be lifted onto oilfield floats or lowboys. All loads are legal permit loads.



# 4 1/16" 5M X 2 1/16" 5M CHOKE MANIFOLD



WHS, LLC BOP Schematic NU on Surface- Razorback Rig

**RIG FLOOR RIG FLOOR** HYDRILL GK 11" 5M 183 1/2" 41 1/4" PIPE RAMS Schaffer 11" 5M Type LXT ■ 4-1/2" RAMS 109 1/4" 27 1/2" BLIND RAMS Schaffer 11" 5M BLIND RAMS Type LXT Center of Choke Line 26 1/2" 28" above GL 36" **GROUND LEVEL** 

TOP OF WELLHEAD

DSA11 5Mx3M

27" Below GL

FROM GL to Bottom of Rotary Beam is 167 1/4"



### **MEMORANDUM**

August 2, 2010

To: Nancy Welbaum, IDL

From: Ryan V. Morgan; P.E., LEED AP

Cc: Steve West; Jeff Hammel, E.I.

Re: Additional Information for Korn Well.

Nancy,

Per your request via email last Friday please find attached the additional information regarding distances from the proposed well to the additional features requested.

Closest Gas Well – 3030' (Doolittle)
Closest Water Well – 780' (residential well located to the east)
Closest Structure – 775' (residential building located to the east)

Please note that the distance to the production boundary is not supplied as this boundary is yet to be determined.

Should you have additional questions please let us know.