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 COMPANY OR OPERATOR: Alta Mesa Services, LP Date: 7-17-2013

Address: 15021 Katy Frwy., Suite 400

City: Houston State: TX Zip Code: 77094 Telephone: 281-530-0991

Contact Name: Ronda Louderman Email Address: rlouderman@gmail.com

DESCRIPTION OF WELL AND LEASE

Name of Lease: DJS Properties Well Number: 2-14 Elevation (ground) 2479.81

Well Location: Section: 14 Township: 8N Range: 4W (or block and survey)

(give footage from Section lines): 95' from North Section Line; 2315' from West Section Line

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

Distance, in miles, and direction from nearest town or post office: 5 miles to the North/Northeast

Nearest distance from proposed location to property or lease line: 4,626' as shown on attached lease map

Distance from proposed location to nearest drilling, completed or applied for on the same lease: 2,745' feet

Proposed depth: 5,500' Rotary or cable tools: Rotary

Planned logging tools: See page 19 - Wireline

Approx date work will start: August 1, 2013 Number of acres in lease(s): 640 acre unit; 6,979.72 acre lease

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

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

Purchased from (name) Bridge Energy LLC

Address of above 1580 Lincoln St., Suite 110, Denver, CO 80203

Status of bond responsibility transferred to Alta Mesa Services, LP coverage under blanket bond

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) N/A

CERTIFICATE: I, the undersigned, state that I am the Regulatory Coordinator of Alta Mesa Services, LP (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: 7-17-2013 Signature: Ronda Louderman

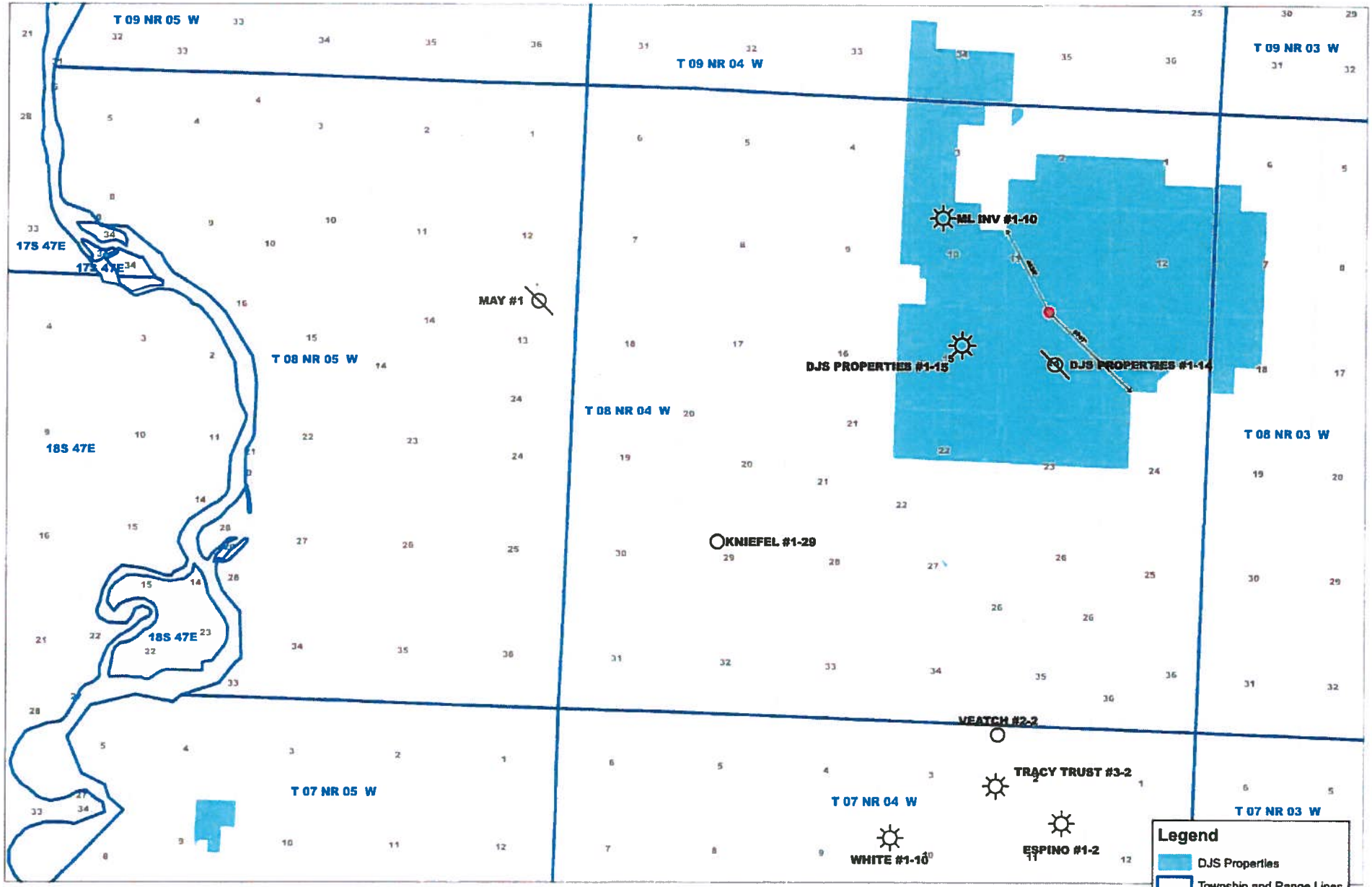
Permit Number: LU600120 Approval Date: Approved by: 8/19/13

API Number: 11-075-20023

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

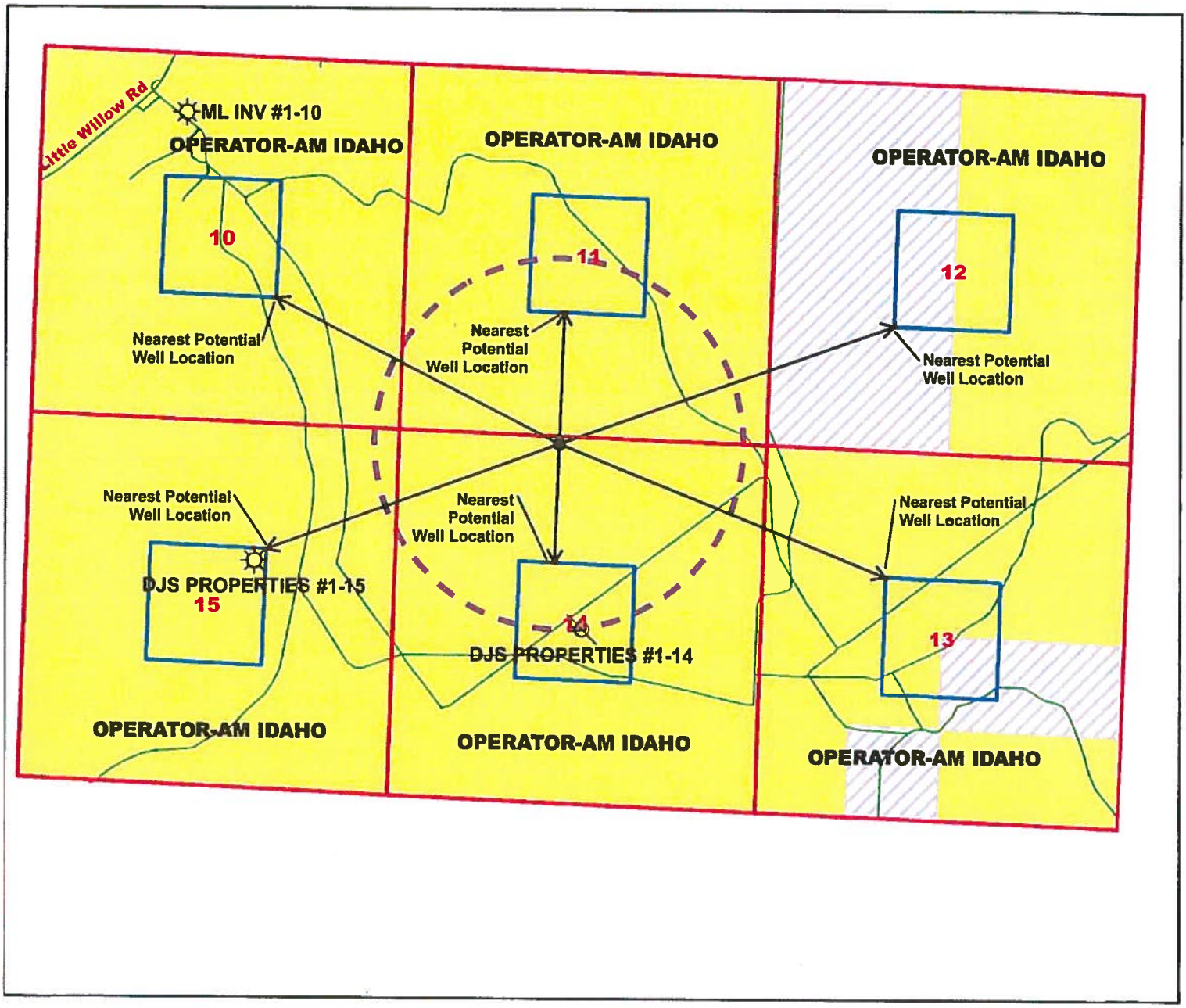
RECEIVED
JUL 29 2013
Idaho Dept. of Lands
SWI

Rev 05/31/12



DJS PROPERTIES

07/22/13



DJS Properties 2-14

07/19/13

Legend

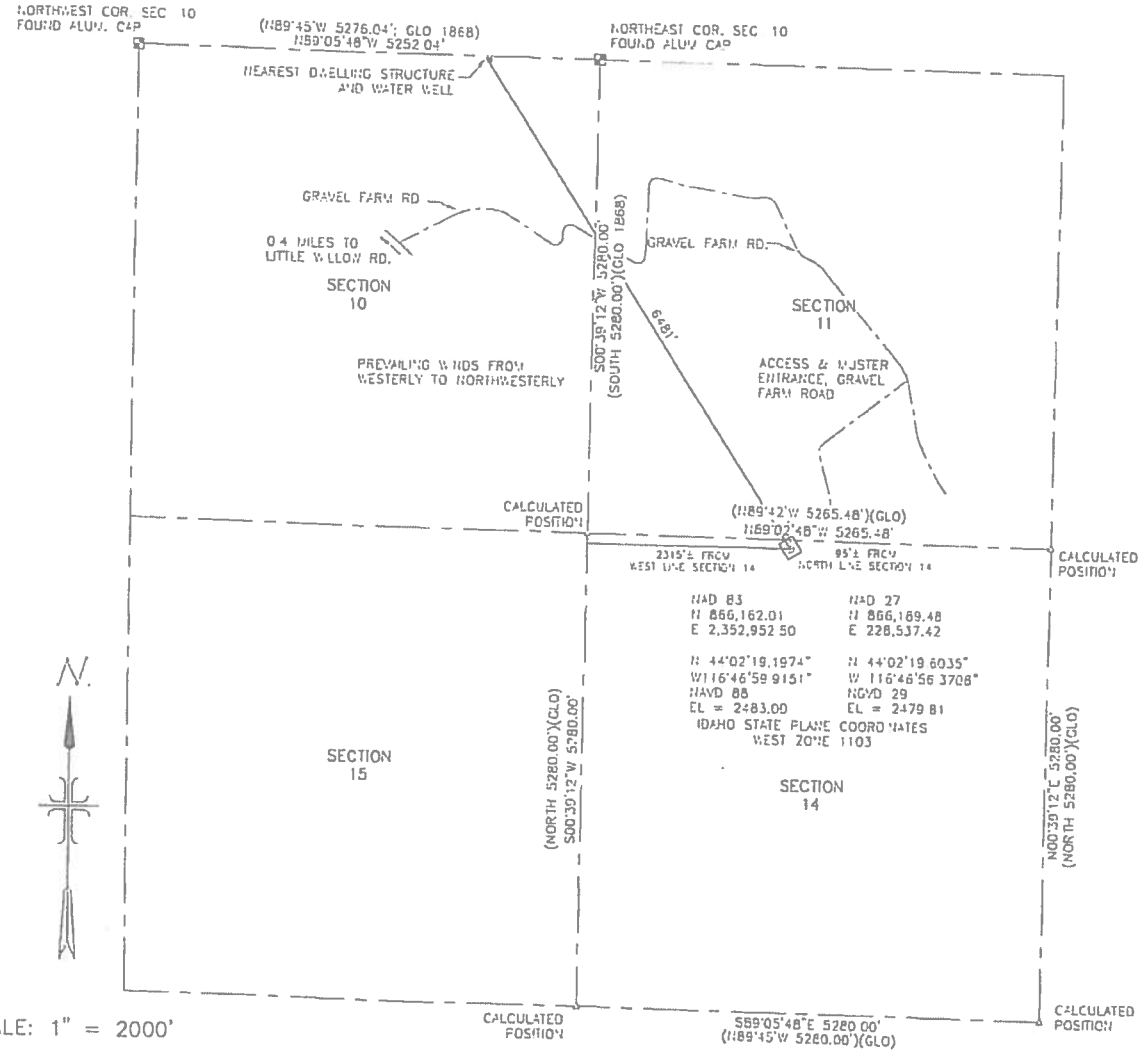
- Legal Location
- Anticipated Well Drainage Zone (1 Mile Diameter Circle)
- Section Lines
- Roadways
- Property Boundary
- AM Idaho
- BLM owns mineral rights only
- Proposed Well Location

N

1 inch equals 2,000 feet

EXHIBIT MAP OF
DJS PROPERTIES 2-14

Lying in a Portion of the N1/2 of Section 14 and a portion of the S1/2 of Section 11, Township 8 North, Range 4 West of the Boise Meridian, Payette County, Idaho
2013



SCALE: 1" = 2000'

PROFESSIONAL LAND SURVEYOR
LICENSED
13446
7/16/13
STATE OF IDAHO
SEAN P. SULLIVAN

DATE: July 16, 2013	FILE: 0165-05 DJS PROPERTIES 2-14.dwg
ALS	Surveyors • Planners 1103 West Main Street Middleton, Idaho 208-585-5858

EXHIBIT MAP OF
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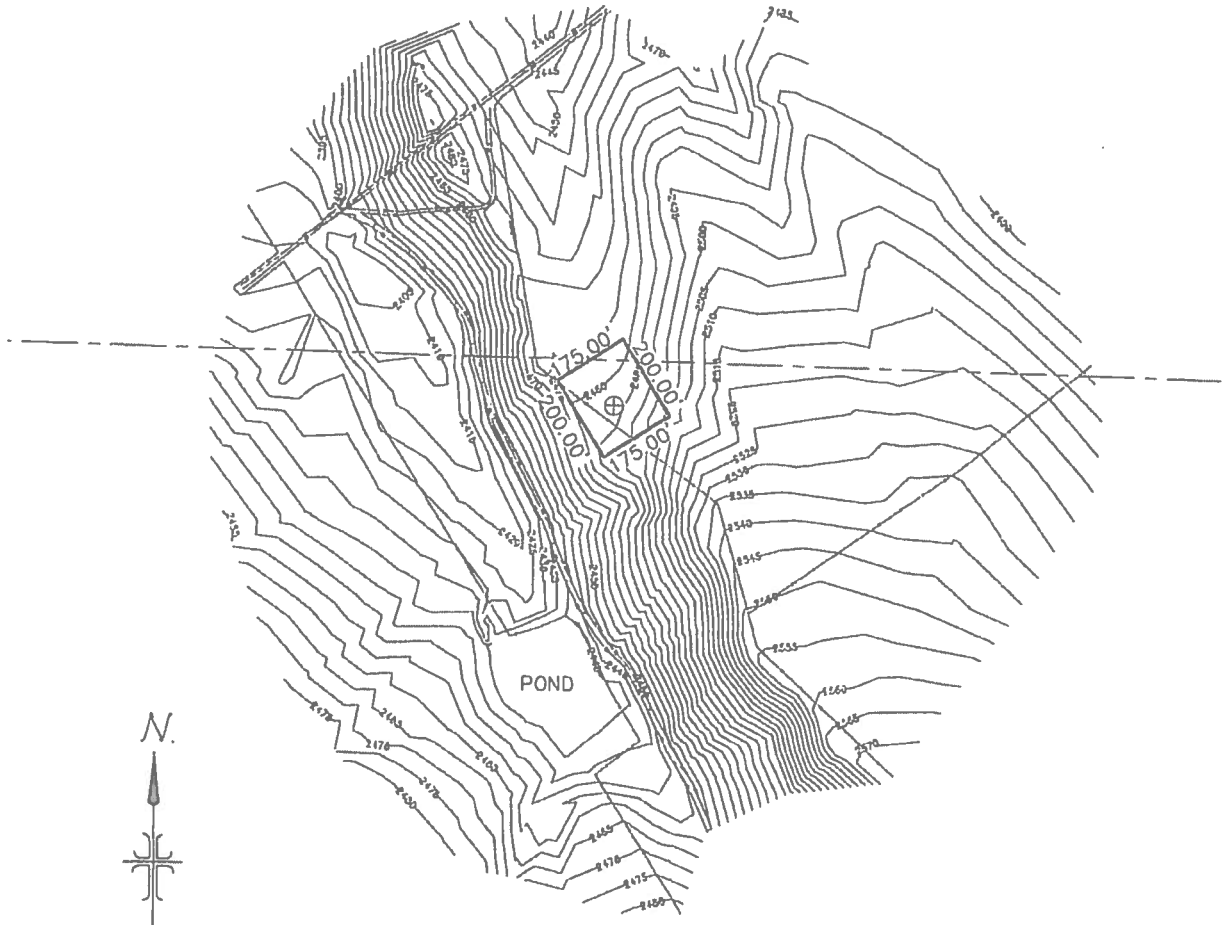

N.

SCALE: 1" = 400'

LEGEND

ER	Existing Edge of Dirt Road
x x	Existing Fence
2520	Existing Major Contour Line, interval=5'

PROFESSIONAL LAND SURVEYOR
13446
7/16/13
STATE OF IDAHO
SEAN P. SULLIVAN

DATE: July 16, 2013	FILE: 0165-05 2-14 PAD.dwg

ALS

Surveyors • Planners
1103 West Main Street
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208-585-5858

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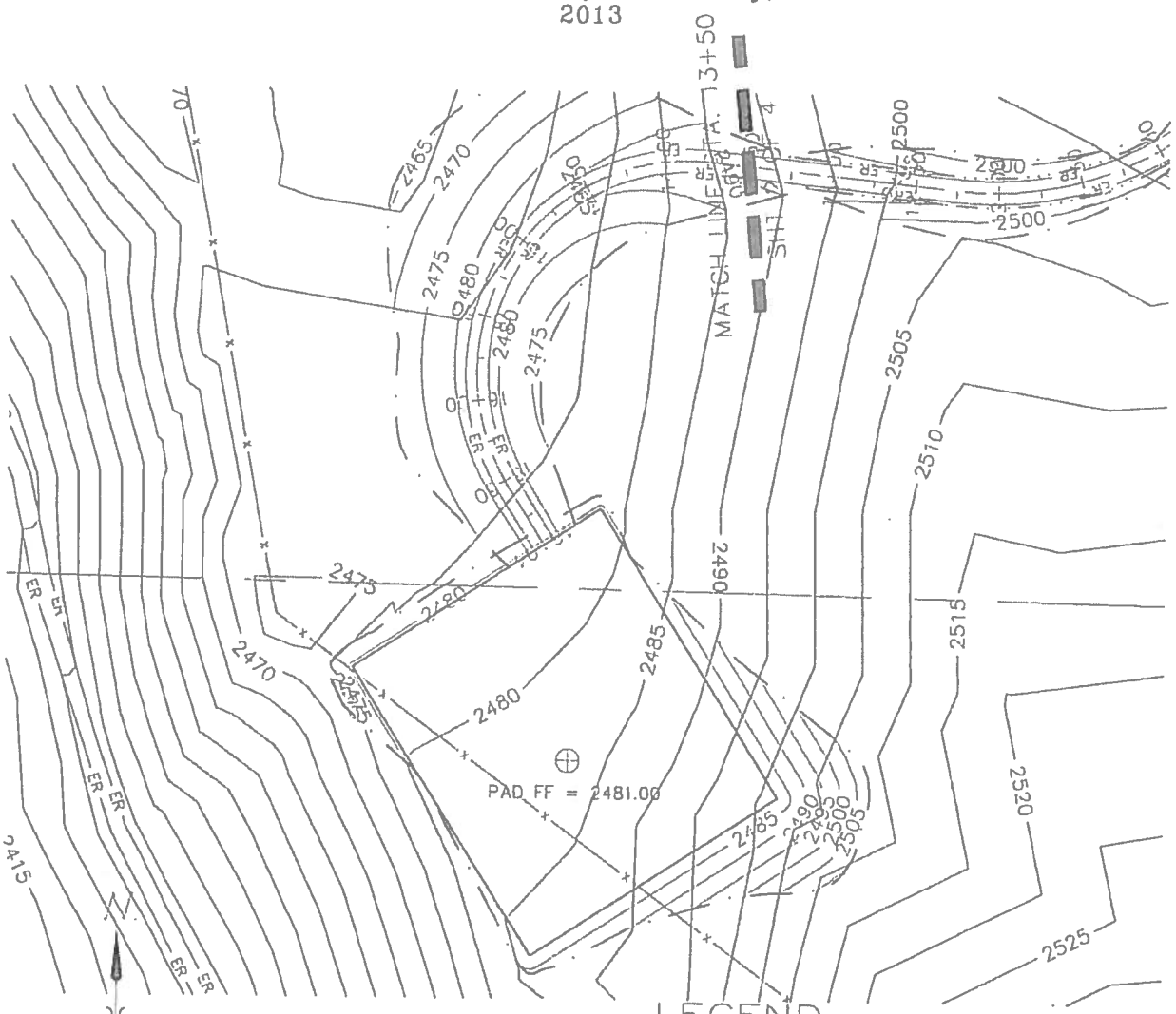

LEGEND

ER	Existing Edge of Dirt Road
x	Existing Fence
ER	Proposed Access Road
2520	Existing Major Contour Line, Interval=5'
	Proposed Pad Site
	Limits of Pad Earthwork – 2:1 C/F Slopes
	Proposed Major Contour Line, Interval=5'

SCALE: 1" = 100'

PAD
TOTAL CUT = 7,488 CY
TOTAL FILL = 1,304 CY

ROAD
TOTAL CUT = 2,682 CY
TOTAL FILL = 6,800 CY

SHEET 1 OF 4

DATE: July 15, 2013

FILE: 0165-05 2-14 PAD.dwg

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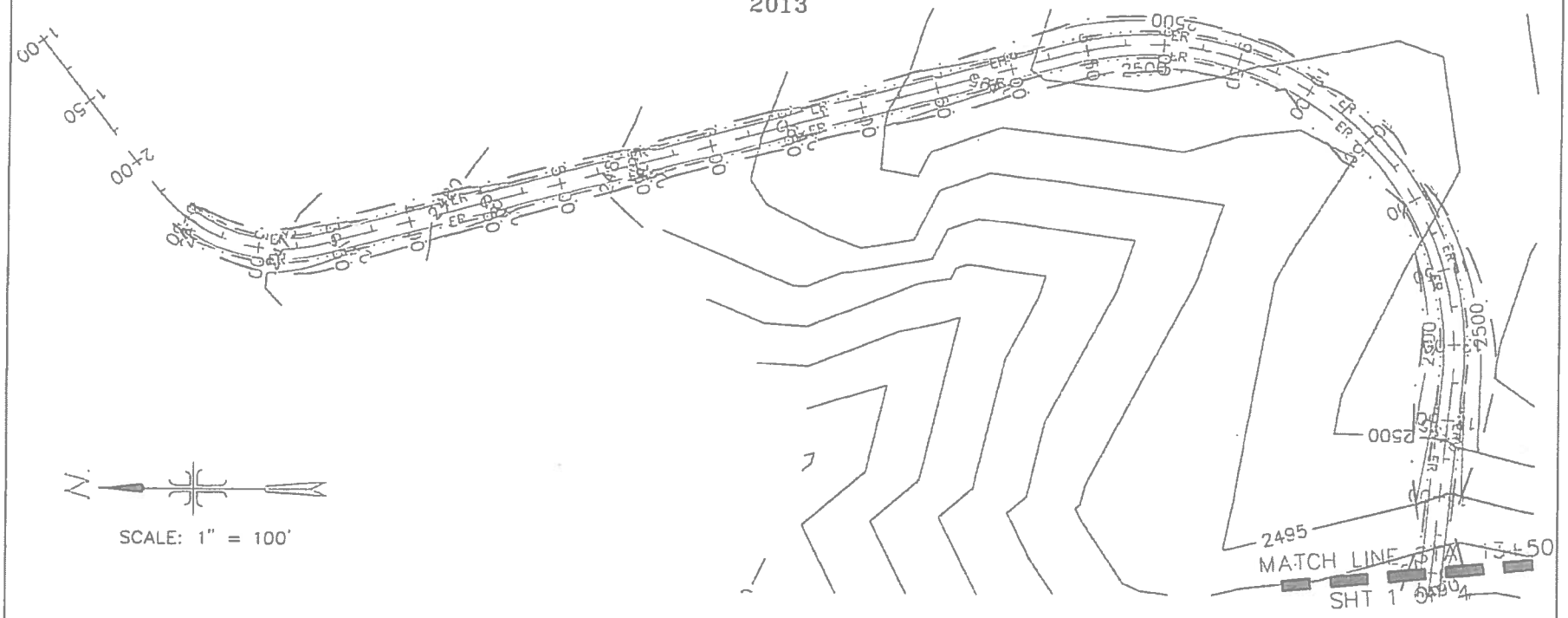
2013



N

SCALE: 1" = 100'

DATE: July 15, 2013	FILE: 0165-05 2-14 PAD QUANTITIES.dwg

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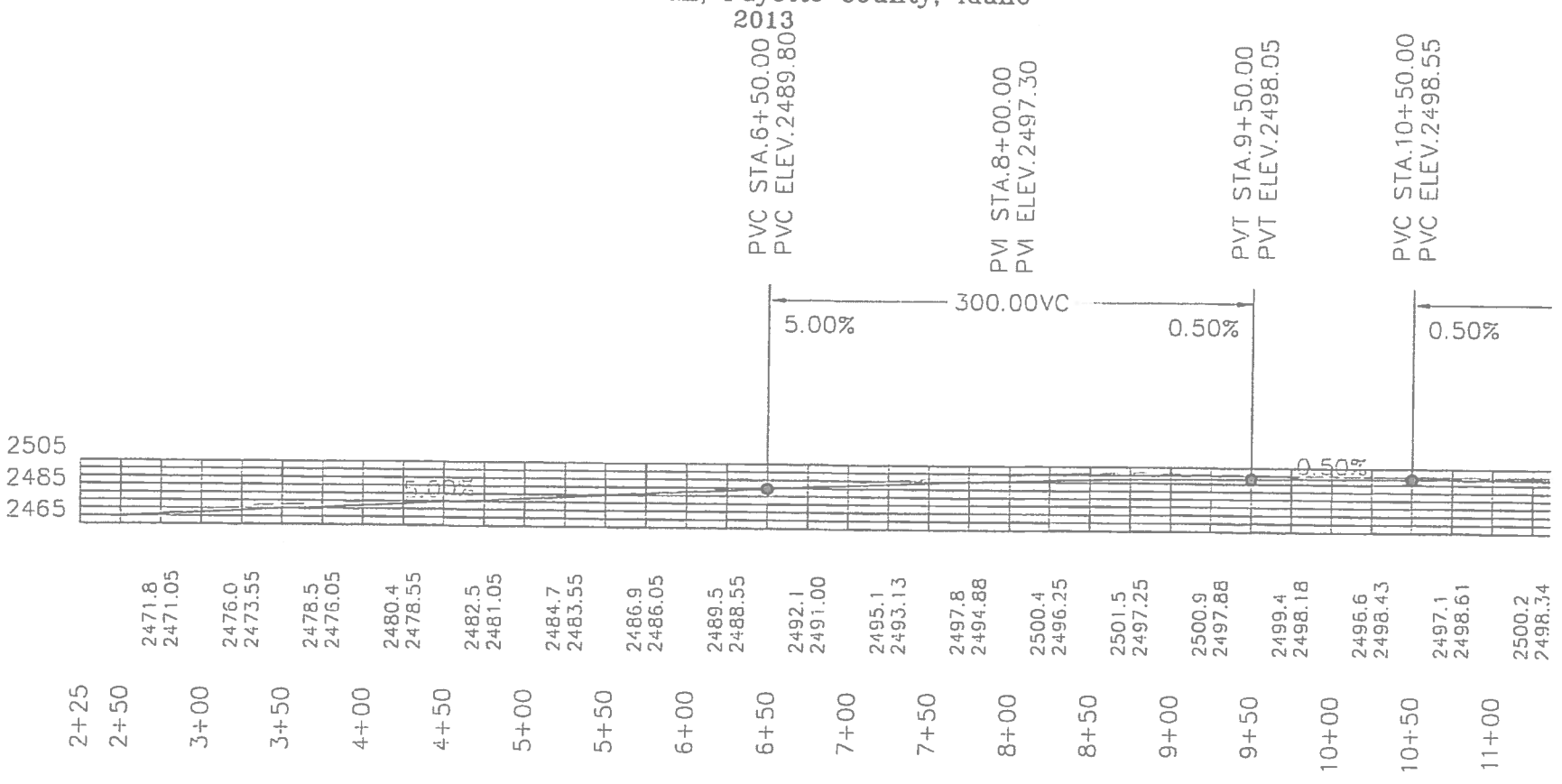

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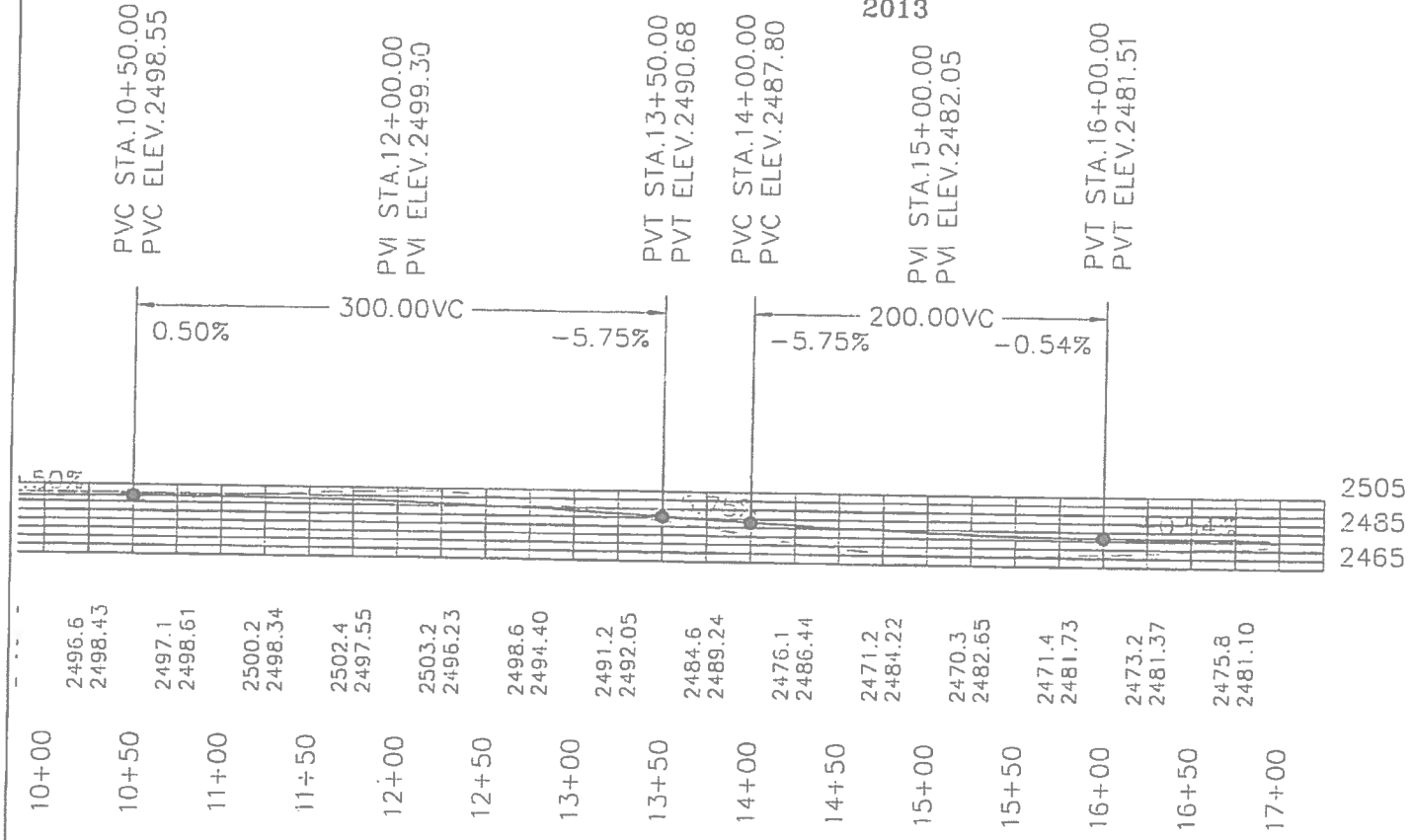

SCALE: 1" = 100'

DATE: July 15, 2013

FILE: 0165-05 2-14 PAD QUANTITIES.dwg

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1103 West Main Street
Middleton, Idaho
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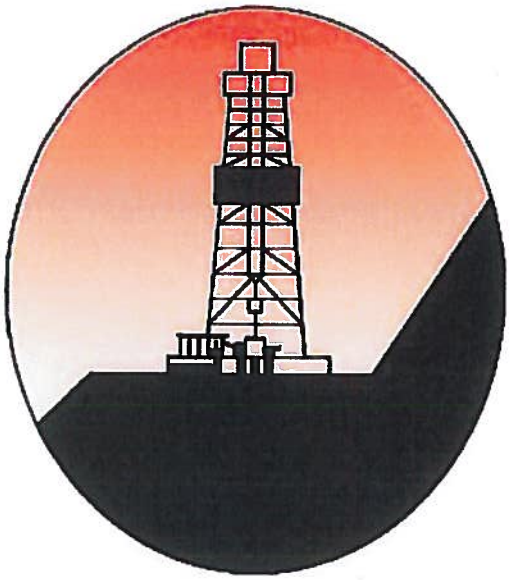
SHEET 4 OF 4



ALTA MESA

ALTA MESA SERVICES, LP

IDL Permit Supplement

DJS Properties 2-14

Willow

Payette County, ID

July 24, 2013

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1 Background Information

Objective: The objective of this operation is to drill a vertical well to develop the "Willow Sand".

AFE #: TBD
Well Type: Vertical
Well Name: DJS Properties 2-14
Field: Willow

County: Payette
State: Idaho
Section: 14
Township: 8N
Range: 4W

Mapping Reference:
System: NAD83 / NAD27
Zone: UTM11
SPCS: Idaho West Zone 1103

Mag Dec: 14.15° (01-Jul-2013)
Grid Conv: -0.75113 °
Total Corr: 14.90113°

Coordinates:

Surface Location:
NAD83
Lat: N 44° 02' 19.1974" (44.03867°)
Long: W 116° 46' 59.9151" (116.78330°)
SPCS: 2352952.50 ft E
866162.01 ft N
NAD27
SPCS: 228537.42 ft E
866189.48 ft N

Bottom Hole Location:
NAD83
Lat: N 44° 02' 19.1974" (44.03867°)
Long: W 116° 46' 59.9151" (116.78330°)
SPCS: 2352952.50 ft E
866162.01 ft N
NAD27
SPCS: 228537.42 ft E
866189.48 ft N

Elevation:
GL: 2479.81 ft
RKB: 2495.81 ft

Planned TD:
MD: 5500.0 ft
TVD: 5500.0 ft

Operator #: NA
Field #: Willow
District:

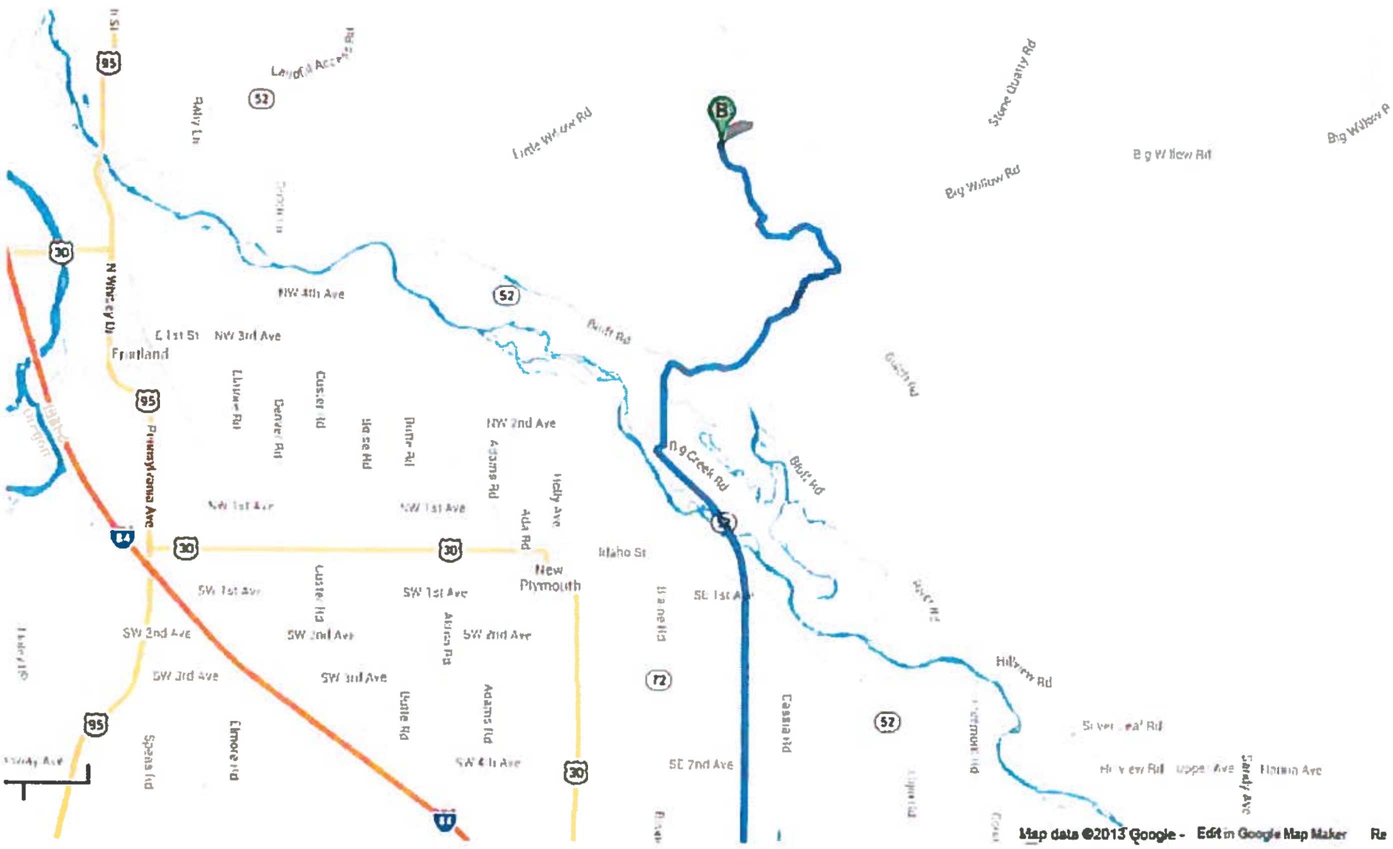
Issue Date:
API #:
Permit #:

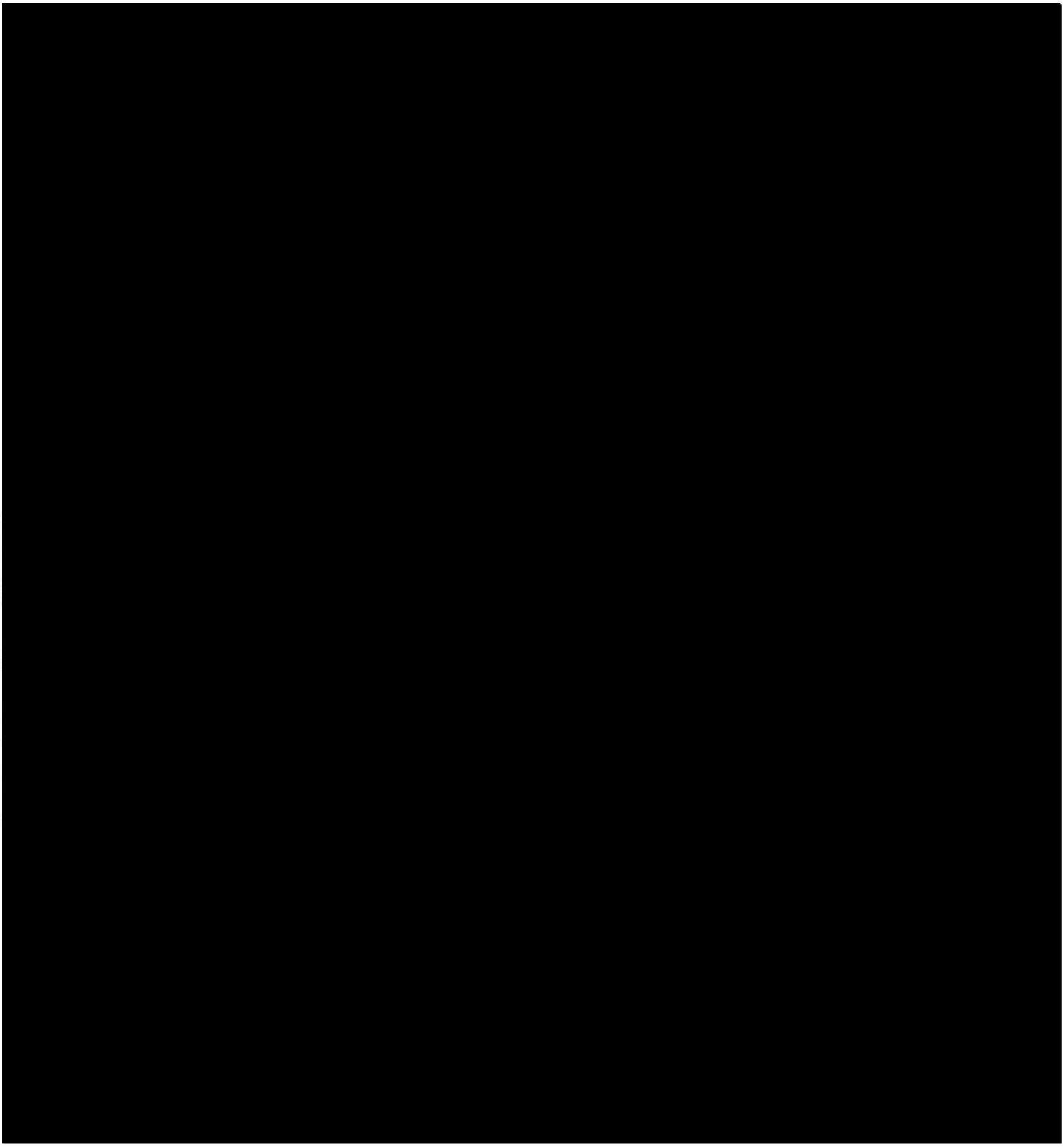
Contractor: TD Well Services

Rig: 101

Directions:

From Boise, take Interstate 84 West. Go 36.6 miles and take Exit 13 toward Black Canyon Junction. Go 0.2 miles and turn right onto Black Canyon Exit. Go 0.4 miles and turn left onto Sand Hollow Road. Go 5.8 miles and continue straight onto State Highway 52 West. Go 3.1 miles and turn right onto Big Willow Road. Go 3.7 miles and turn left on the farm road. Go 1.4 miles and turn right. Go 0.1 miles and turn left onto farm road. Go 1.1 miles and turn left to enter pad access road.

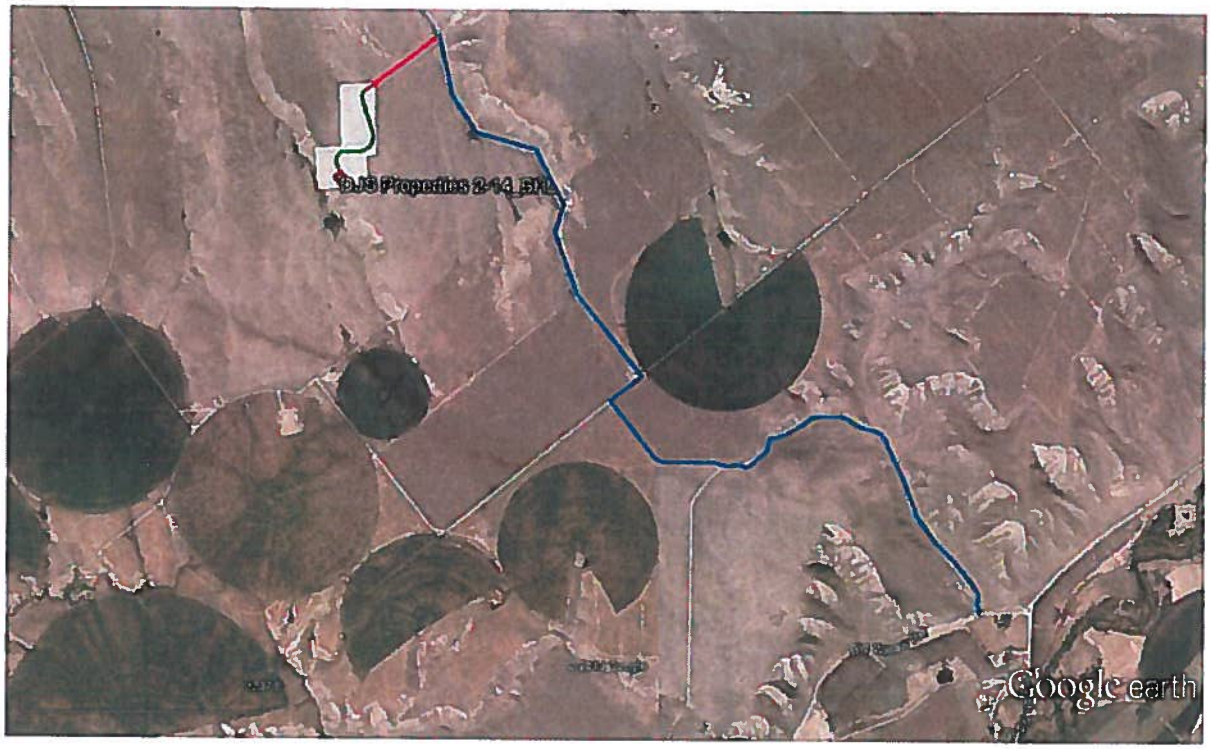


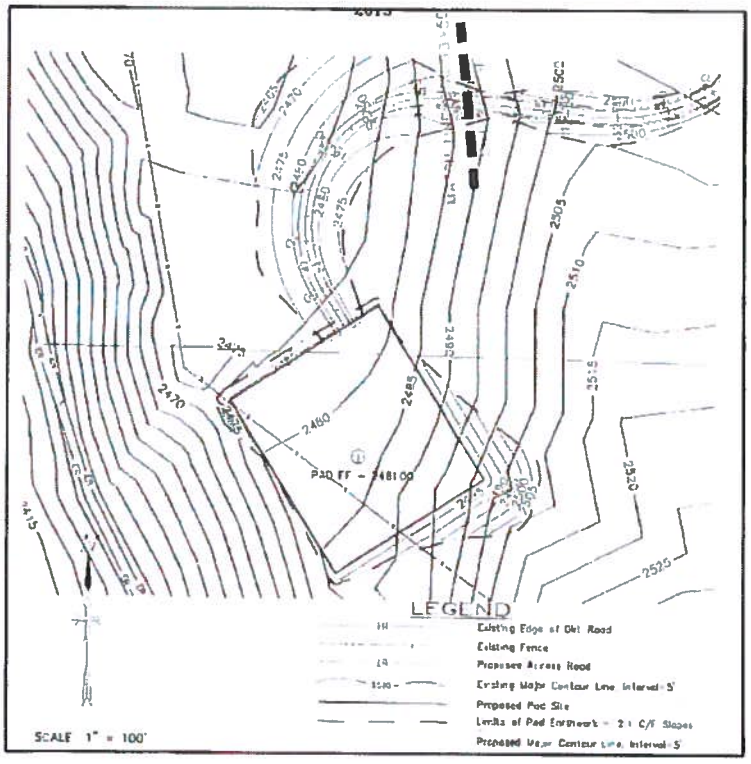


3 Site Preparation

3.1 Access Roads

The proposed surface location is to be accessed by an existing farm road that supports heavy truck traffic, approximately 1260' of improved road over an existing farm path, and 1450' of new roadway.





3.2 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. See attached engineering drawings.

3.3 Cellars

An 8' deep round cellar box will be installed after the conductor is installed per the relevant section below.

3.4 Pit System

A closed-loop circulating system will be used for this well from spud. Zero discharge practices will be implemented, and all cuttings and waste fluid will be solidified and disposed of at an approved facility.

3.5 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.

4 Well Construction

4.1 Wellbore Schematic

REV 1.0
Prepared by: Alexis Husser
July 17th, 2013

Alta Mesa Services, LP
Willow Field – Payette County, ID
DJS Properties 2-14 – *Proposed* Wellbore Schematic

Depth Reference: Drill Floor
Drill Floor above GL: 16'
GL Elevation above MSL: 2481'

Bit & Directional	Evaluation	PP / FG
		FPB
17.5" Auger Vertical	None	8.4/9.2
10-5/8" Milled Tooth Vertical Drilled To: 950'/950'	None	8.4/11.1
7-7/8" PDC w/ PDM Vertical Drilled To: 5500'/5500'	MWD: Mud Pulse WL: GR, SP Induction Res Density, Por	8.9/16.9

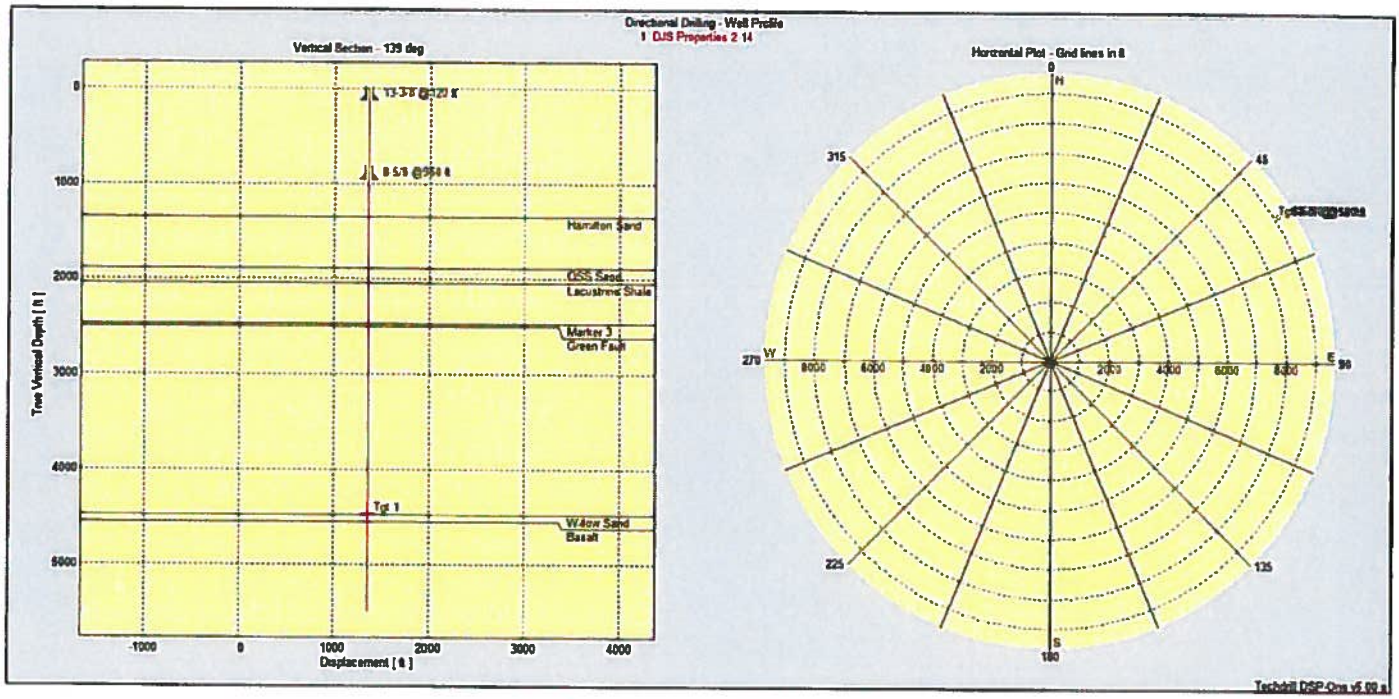
Drilling Fluid	Casing	Cement
Dry	13-3/8" Conductor 120' /120'	Grout
Spud Mud 8.5–9.0ppg	8 5/8" 32.0# K-55 STC Set @: 950' /950'	Class A 13.5ppg Return to Surface Class A 15.8 ppg TOC @ 750'
8.5 Fresh Water Polymer 9.8	5 ½" 15.5# K-55 LTC Set @ 5500'/5500'	Class D 13.5 ppg Return to Surface Class D 15.8 ppg TOC @ 3,500'

4.2 Directional Plan

4.2.1 Justification

The geological target for this prospect can be intersected with a vertical well as there are no domestic conflicts and the topography provides for a safe location that can be constructed with limited ecological impact.

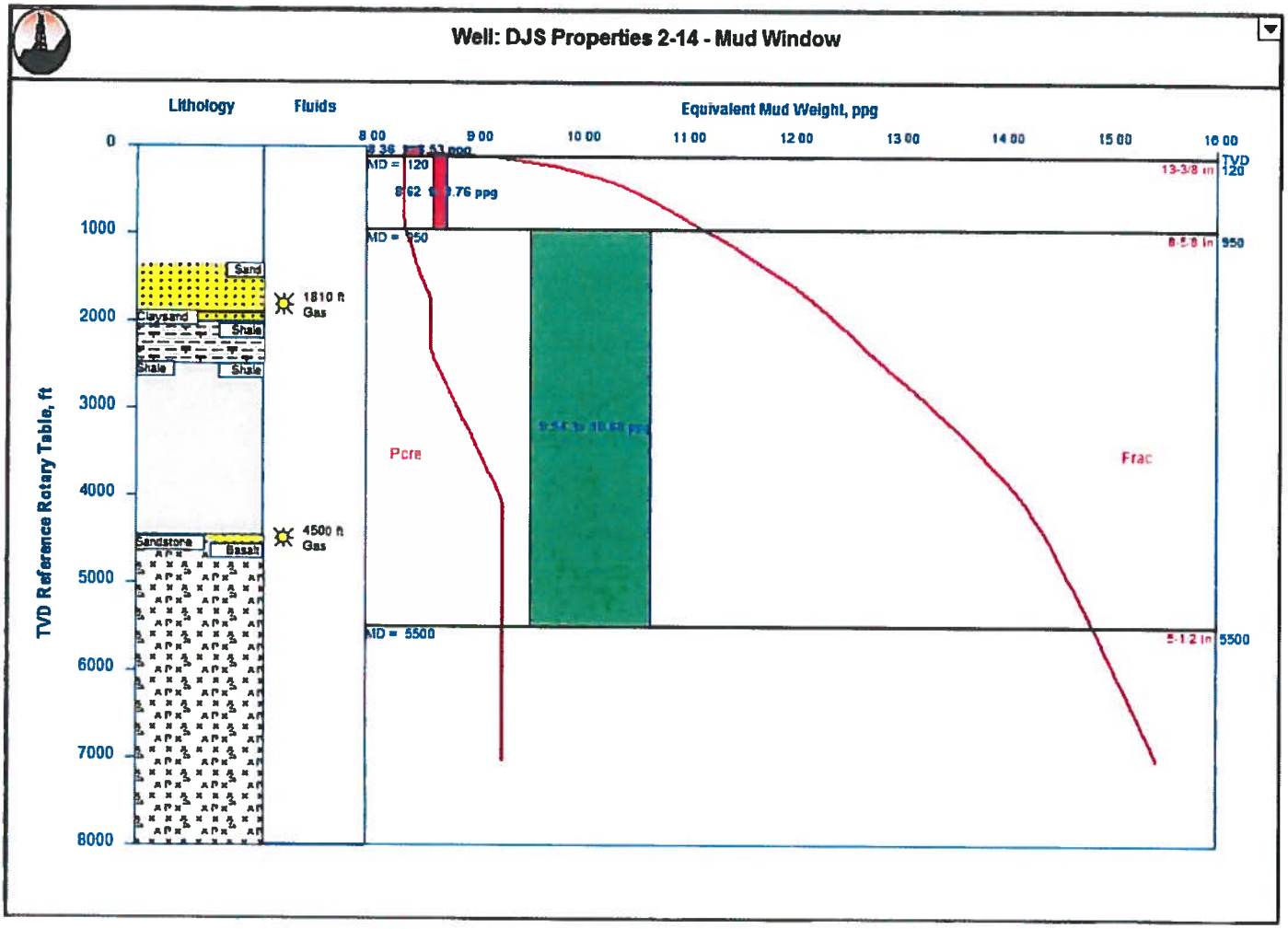
4.2.2 Vertical Section & Plan View



4.3 Pore Pressure and Formation Integrity

Normal pressures are anticipated through the surface hole, with a slight pressure ramp through the production hole to 9.29 PPG equivalent in the Willow Sand.

The fracture gradient is calculated using Eaton & Eaton (1998) modeled for Gulf Coast formations. This model is used because the rapid deposition and immature clays are similar to those found on the Continental Shelf at similar depths, which is rather inconsistent with most of the regional models for the Rocky Mountains.



4.4 Blow-Out Preventers

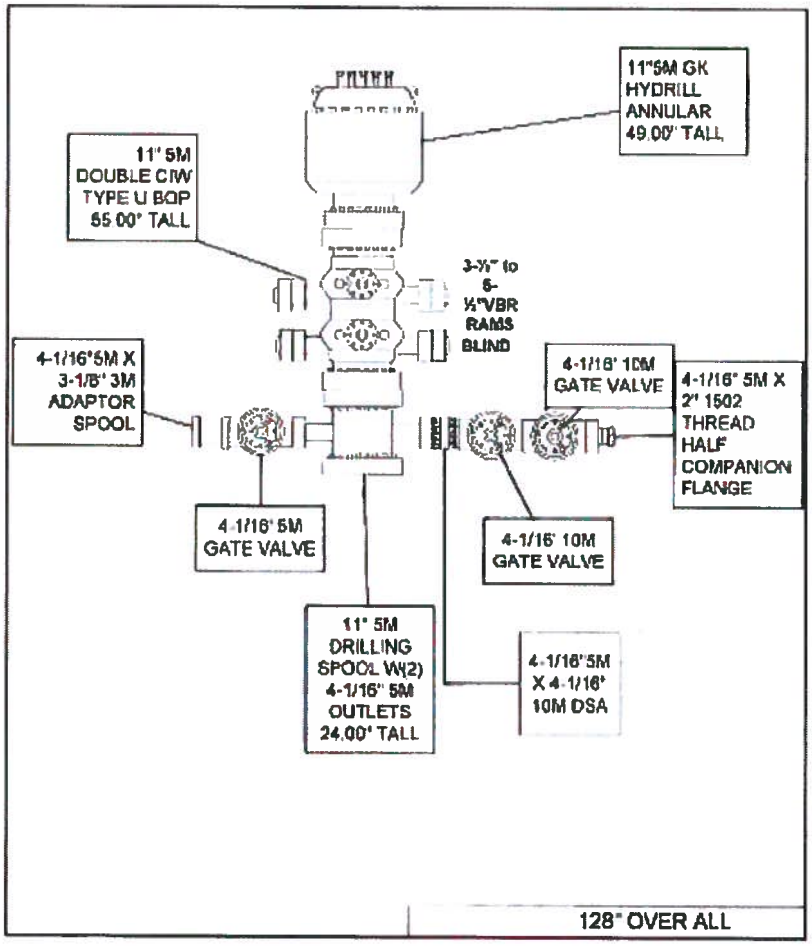
4.4.1 BOP Hardware Configuration

BOP Stack configuration includes an annular preventer and double ram preventers. The top most ram preventer will be fitted with variable ram blocks, the lower ram preventer will be fitted with blind ram blocks. A full-opening safety valve, inside BOP, and functioning wrench – *specific to the pipe in use and only those specific to the pipe in use* – are to be kept on the rig floor with easy access at all times.

4.4.2 BOP Testing

Test annular, rams, choke manifold, FOSV, and IBOP when BOP is first nippled up on casing head. Low-pressure test to 250psi and high-pressure test to 5,000psi (100% of 5M wellhead), except for annular. Test annular preventer to 3,500psi (70% of 5,000psi rating). Test the kelly hose and standpipe back to pump isolation valves to 200 psi above pop off setting or minimum of 5,000 psi. All tests must hold for five minutes. Retest specific component each time a seal is broken. Work BOP's and flush choke lines each trip. Tighten BOP and wellhead bolts every 3 days. Non-ported float valves to be used in BHA after surface casing set.

During drilling and completion operations, the ram-type blow-out preventer shall be function tested by closing on the drill pipe once every seven (7) days. Independently powered accumulators or accumulators and pumps shall maintain a pressure capacity reserve at all times to provide for repeated operation of hydraulic preventers. All tests may be conducted using a test plug. Tests shall be recorded by charts, if required by the Supervisor.



4.5 13-3/8" Conductor

4.5.1 Specific HSE Considerations

None

4.5.2 Drilling

The conductor will be installed via auger and grout unless surface conditions dictate driving.

4.5.2.1 Directional Objective

It is imperative that the conductor be placed with as much verticality as reasonably possible to minimize any directional corrections in the surface hole. Driving and/or drilling forces should be managed to maintain verticality.

Hole Size	Action	From		Build /100'	Turn /100'	DLS /100'	To	
		MD/TVD	INC/AZ				MD/TVD	INC/AZ
17 ½"	Hold	22'	0°/0°	0°	0°	0°	120'	0°/0°

4.5.3 Casing

Set Depth	Top (RTE)	Size	Weight	Grade	Burst	Collapse	Centralizers
120'	20'	13 3/8"	61#	J-55	3090 psi	1540 psi	NO

4.6 10-5/8" Surface Hole

4.6.1 Specific HSE Considerations

This hole interval will penetrate all usable water zones. Based on regional activity, there is a minimal risk of shallow formation instability in the surface hole. In the event that such instability occurs, and cannot be managed within 12 hrs, the surface hole will be enlarged to 12 ¼" and a 10 ¾" contingency string will be set. This contingency MUST be reviewed and approved by Alta Mesa Engineering and the IDL supervisor.

4.6.2 Drilling

4.6.2.1 Directional Objective

The surface hole will be drilled to 950' MD/TVD with no inclination. Drilling WOB will be managed to maintain verticality throughout the section and to optimize ROP without inducing shock & vibration. Surveys will be obtained using gyro Multi-shot.

Hole Size	Action	From		Build /100'	Turn /100'	DLS /100'	To	
		MD/TVD	INC/AZ				MD/TVD	INC/AZ
10-5/8"	Hold	120'	0°/0°	0°	0°	0.0°	950'	0°/0°

4.6.2.2 Bottom Hole Assembly

The surface hole will be drilled with a 10-5/8" milled tooth bit and the bottom hole assembly as specified below.

Length	Cumul		Connection	OD in	ID in	lb/ft	S.R.
to surface		4-1/2" D P 16 60# - G105 - Class II	TOP Box 4-1/2 XH * BTM Pin 4-1/2 XH	4 366	3 825	16.60	3 18
180 0 ft	416 0 ft	4-1/2" HWDP 42 00# - Range 3	TOP Box 4 IF * BTM Pin 4 IF	5 000	3 000	50 00	2 44
4 0 ft	236 0 ft	Xover - OD 6 50"	TOP Box 4 IF * BTM Pin 5-1/2 REG	6 500	2 813	91.65	1 28
60 0 ft	232 0 ft	7" D C	TOP Box 5-1/2 REG * BTM Pin 5-1/2 REG	7 000	2 813	109 66	1 50
4 0 ft	172.0 ft	Xover - OD 8 00"	TOP Box 5-1/2 REG * BTM Pin 6-5/8 REG	8 000	3 000	147.02	1 00
60 0 ft	168 0 ft	8" D C	TOP Box 6-5/8 REG * BTM Pin 6-5/8 REG	8 000	2 813	149 64	1 10
6 0 ft	108 0 ft	8-1/4" Stab	TOP Box 6-5/8 REG * BTM Pin 6-5/8 REG	8 250	2 813	161 00	1 10
30 0 ft	102 0 ft	8" D C	TOP Box 6-5/8 REG * BTM Pin 6-5/8 REG	8 000	2 813	149 64	1 10
6 0 ft	72 0 ft	8-1/4" Stab -	TOP Box 6-5/8 REG * BTM Pin 6-5/8 REG	8 250	2 813	161 00	1 10
60 0 ft	66 0 ft	8" D C	TOP Box 6-5/8 REG * BTM Pin 6-5/8 REG	8 000	3 000	147.02	1 00
5 0 ft	6 0 ft	Bit Sub - OD 8 00"	TOP Box 6-5/8 REG * BTM Box 6-5/8 REG	8 000	3 000	147.00	
1 0 ft		Milled Tooth GTX-1 10 625 in	TOP Pin 6-5/8 REG				

4.6.2.3 Mud System

The surface hole will be drilled using spud mud. Additives will be included for inhibition and also to build high-vis sweeps as necessary.

Measured Depth, ft	Mud Density, ppg	Funnel Viscosity, cP	Yield Point, lb/100ft^2	API Fluid Loss, ml	pH	LGS %
120 - 950'	8.6	25-36	8-12	N/C	7.0-8.0	4 - 7

4.6.2.4 Torque & Drag

Vertical through this interval. Monitor PU & SO weight to ensure good hole cleaning.

4.6.3 Open Hole Evaluation

No open-hole evaluation will be conducted in this interval

4.6.4 Casing

The surface casing is to be set at a depth that isolates problematic formations and usable water strata. Special drift is required.

Set Depth	Top (RTE)	Size	Weight	Grade	Conn	Drift	Burst	Collapse	Tension
950'	20'	8 5/8"	32.0#	K-55	LTC	7.875"	3930 psi	2530 psi	503 kips

4.6.4.1 Shoe Track

1. Washdown guide shoe – thread locked
2. Single Casing joint – thread locked
3. Float Collar – thread locked
4. Joints to surface

4.6.4.2 Centralizers

- Type: Bow Spring
- Placement: One each, first four joints. One every third joint to surface.

4.6.5 Cementing Operations

Displacement

Volume from Surface to Landing Collar: 54.2 bbl

Static Fluid Pressure at End of Job

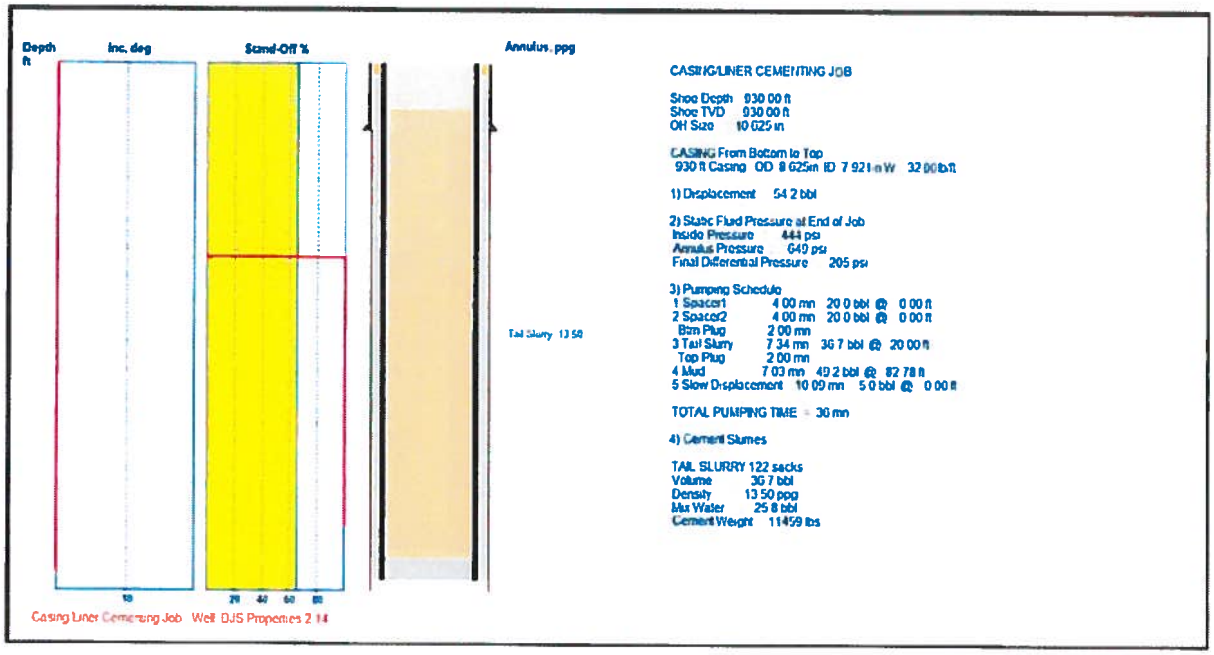
Inside Pressure: 444 psi
Annulus Pressure: 649 psi
Final Differential Pressure: 205 psi

Pumping Schedule

Spacer1	4.00 mn	20.0 bbl	@	0.00 ft
Spacer2	4.00 mn	20.0 bbl	@	0.00 ft
Btm Plug	2.00 mn			
Tail Slurry	7.34 mn	36.7 bbl	@	20.00 ft
Top Plug	2.00 mn			
Mud	7.03 mn	49.2 bbl	@	0.00 ft

Slow Displacement	10.09 mn	5.0 bbl	@	0.00 ft

TOTAL PUMPING TIME:	36 mn
Cement Slurries	
TAIL SLURRY:	122 sacks
Volume:	36.7 bbl
Density:	13.50 ppg
Mix Water:	25.8 bbl
Cement Weight:	11459 lbs
Free Fall Analysis	
Maximum Pumping Rate:	7.0 bbl
Maximum Return Rate:	9.4 bbl
Max Injection Pressure:	275 psi
Depth of Interest:	929.90 ft
TVD of Interest:	929.90 ft
Maximum Pressure:	666 psi
Maximum EMW:	13.80 ppg
Minimum Pressure:	439 psi
Minimum EMW:	9.09 ppg



4.7 7-7/8" Production Hole

Upon drilling out of the 8 5/8" casing, the 7-7/8" hole will be drilled vertically to ~5500'.

4.7.1 Specific HSE Considerations

This hole section will be drilled through hydrocarbon bearing formations. Any fluid containing oily cuttings and the contaminated cuttings are to be managed appropriately to maintain a safe working area and prevent environmental damage.

4.7.2 Drilling

4.7.2.1 Directional Objective

Drilling WOB will be managed to maintain verticality throughout the section and to optimize ROP without inducing shock & vibration. Surveys will be obtained using gyro single-shot.

Hole Size	Action	From		Build /100'	Turn /100'	DLS /100'	To	
		MD/TVD	INC/AZ				MD/TVD	INC/AZ
7-7/8"	Hold	950'	0°/0°	0°	0°	0°	5500'	0°/0°

4.7.2.2 Bottom Hole Assembly

The BHA will be managed over the production interval to address significant formation changes and formation evaluation requirements. The BHA is representative, where the bit and specific collar arrangement may vary.

Length	Cumul		Connection	OD in	ID in	lb/ft	S.R.
to surface				4.366	3.825	16.60	2.28
186.0 ft	844.4 ft			4.500	2.750	42.00	2.70
18.8 ft	458.4 ft			6.000	2.250	98.00	2.70
186.0 ft	439.6 ft			4.500	2.750	42.00	3.38
5.0 ft	253.6 ft			6.500	2.813	91.65	1.00
155.0 ft	248.6 ft			6.500	2.813	91.65	1.10
30.0 ft	93.6 ft			6.250	2.250	90.51	1.13
4.0 ft	63.6 ft			6.000	2.250	82.50	1.25
3.0 ft	59.6 ft			6.500	2.813	91.65	1.12
27.0 ft	56.6 ft			6.750	3.000	37.04	1.33
4.7 ft	29.6 ft			6.750	4.900	85.10	1.28
3.0 ft	24.9 ft			6.750	3.500	89.15	1.28
21.0 ft	21.9 ft			6.750	4.894	80.00	
0.9 ft		PDC MKF58 7.875 in	TDP Pin 4-1/2 REG				

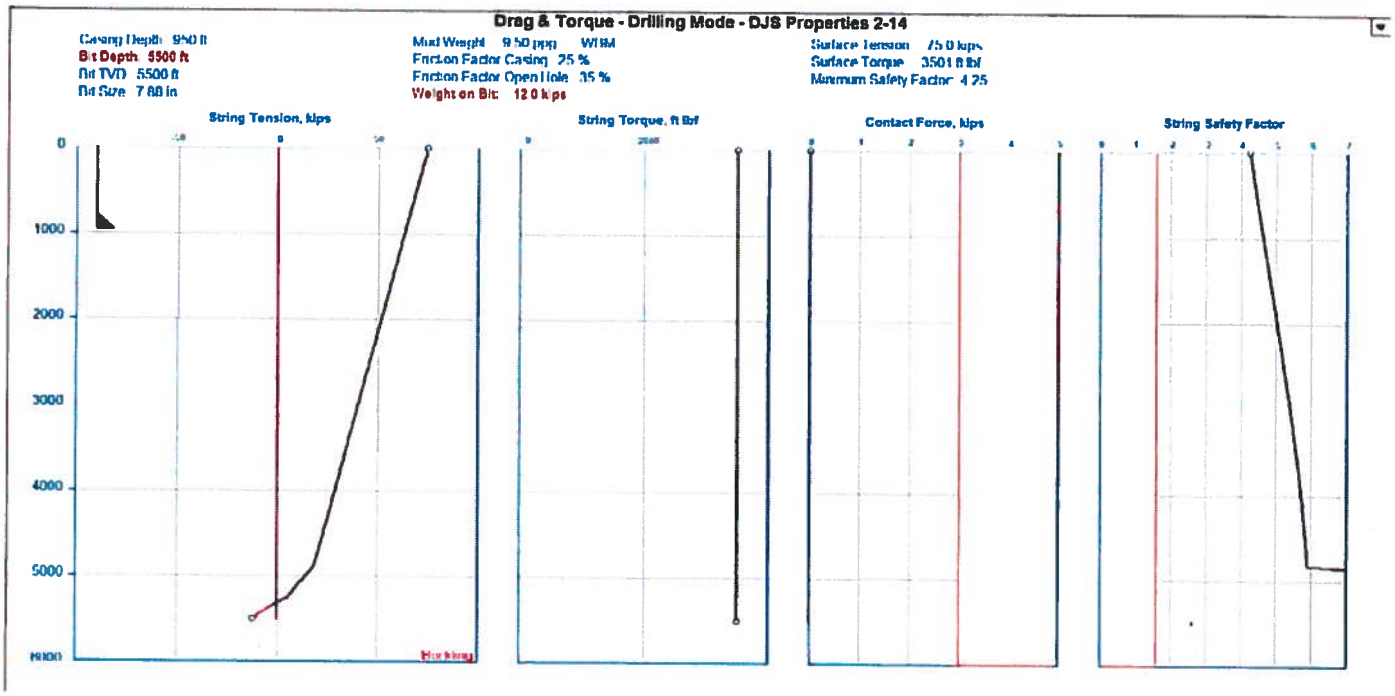
4.7.2.3 Mud System

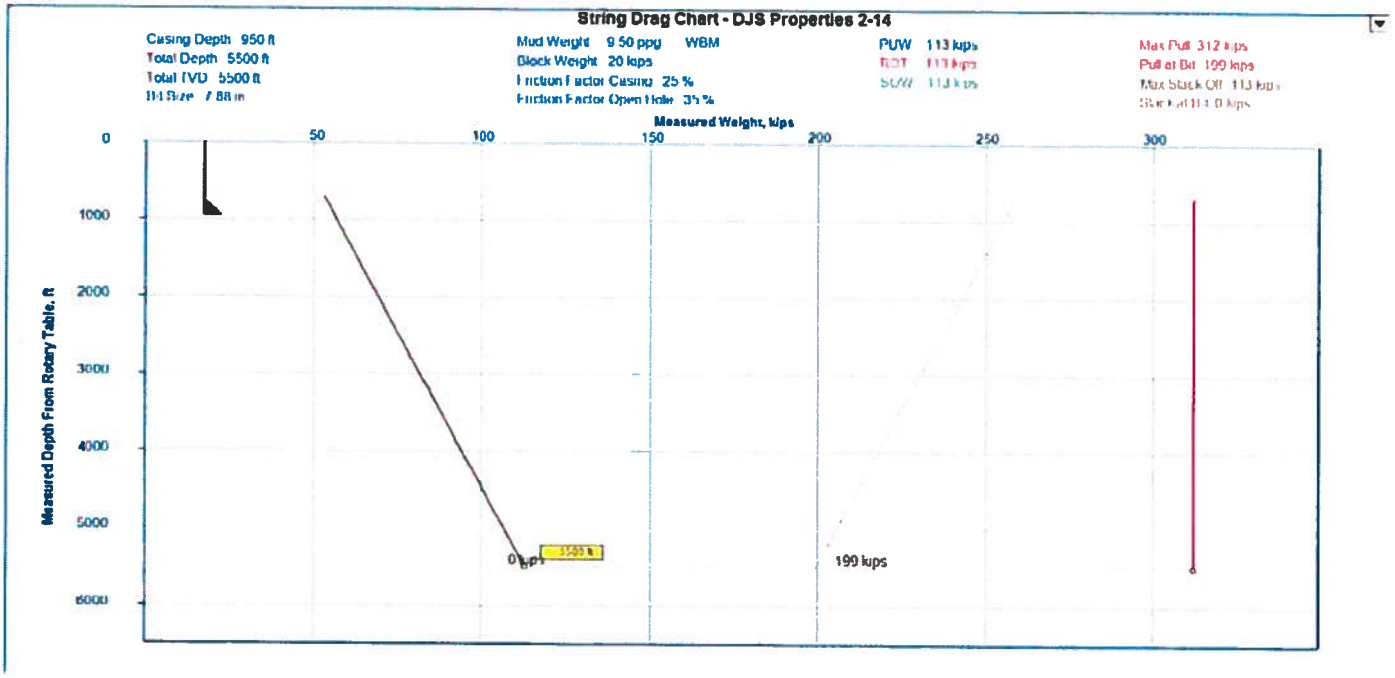
Fresh Water DMA polymer mud system.

Measured Depth, ft	Mud Density, ppg	Funnel Viscosity, cP	Yield Point, lb/100ft²	API Fluid Loss, ml	pH	LGS %
950 – 5,500'	9.0	15	10	<4.0	6.5-7.0	4 - 7

4.7.2.4 Torque & Drag

Below are the T&D charts for Rotary Drilling at total depth and Tripping.





4.7.3 Logging Program

While Drilling: Mud logging only

Coring: None

Wireline: After reaching TD, and conditioning the hole, wireline evaluation will be conducted as follows:

- Spontaneous Potential
- Gamma Ray
- Propagation Resistivity
- Density
- Neutron Porosity
- Electron Capture Spectroscopy

4.7.4 Production Casing

The production casing string is designed with varying grades to accommodate H2S production and salt creep. Below is the primary casing design and the contingency design with HCP-110 for salt intervals.

Set Depth	Top (RTE)	Size	Weight	Grade	Conn	Drift	Burst	Collapse	Tension
5,500'	20'	5 ½"	15.5#	K-55	LTC	4.825"	4810 psi	4040 psi	248 kips

4.7.4.1 Shoe Track

5. Washdown float shoe – thread locked
6. Double Casing joint – thread locked
7. Float Collar – thread locked
8. Joints to surface

4.7.4.2 Centralizers

- Type: Bow Spring
- Placement: One each, first four joints. One every third joint to TOC

4.7.5 Cementing Operations

Displacement

Volume from Surface to Landing Collar:	137.4 bbl			

Static Fluid Pressure at End of Job

Inside Pressure:	2874 psi			
Annulus Pressure:	4128 psi			
Final Differential Pressure:	1254 psi			

Pumping Schedule

Spacer1	5.60 mn	20.0 bbl	@	0.00 ft
Spacer2	5.60 mn	20.0 bbl	@	0.00 ft
Btm Plug	2.00 mn			
Lead Slurry	26.95 mn	107.8 bbl	@	20.00 ft

Tail Slurry	15.87 mn	63.5 bbl	@	20.00 ft
Top Plug	2.00 mn			
Mud	20.65 mn	123.9 bbl	@	211.93 ft
Slow Displacement	10.08 mn	5.0 bbl	@	0.00 ft

TOTAL PUMPING TIME: 89 mn

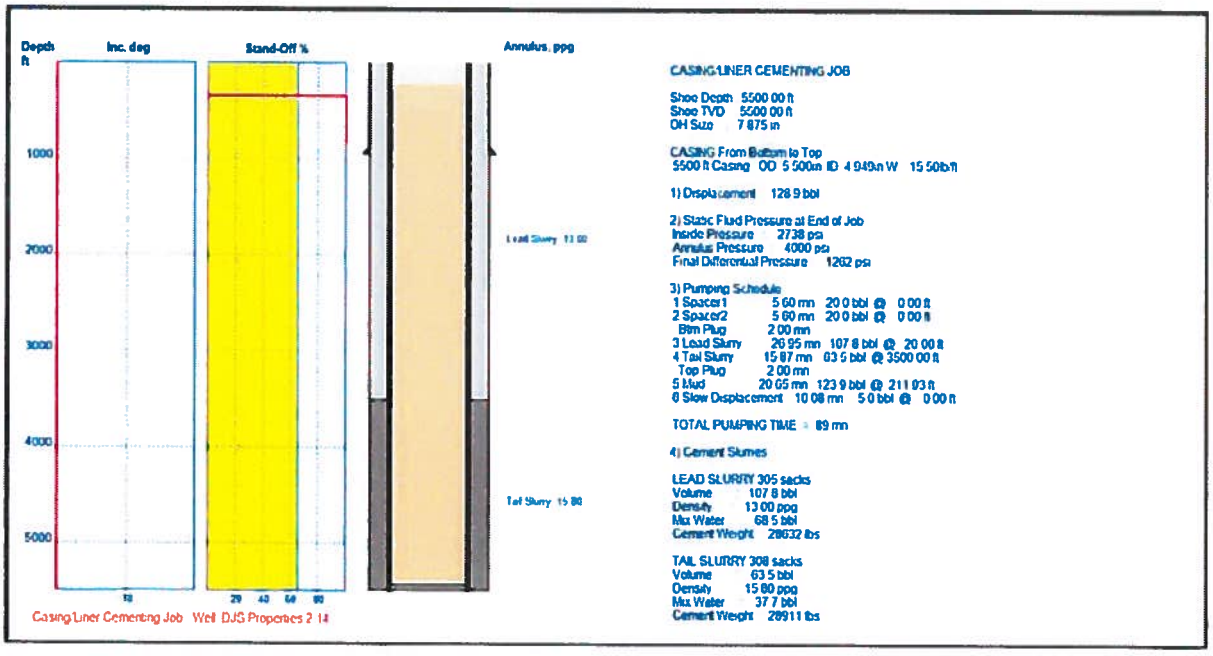
Cement Slurries

LEAD SLURRY: 305 sacks
Volume: 107.8 bbl
Density: 13.00 ppg
Mix Water: 68.5 bbl
Cement Weight: 28632 lbs
TAIL SLURRY: 308 sacks
Volume: 63.5 bbl
Density: 15.8 ppg
Mix Water: 37.7 bbl
Cement Weight: 28911 lbs

Free Fall Analysis

Maximum Pumping Rate: 6.0 bbl
Maximum Return Rate: 6.5 bbl
Max Injection Pressure: 1582 psi

Depth of Interest: 5499.9 ft
TVD of Interest: 5499.9 ft
Maximum Pressure: 4085 psi
Maximum EMW: 14.31 ppg
Minimum Pressure: 2742 psi
Minimum EMW: 9.60 ppg

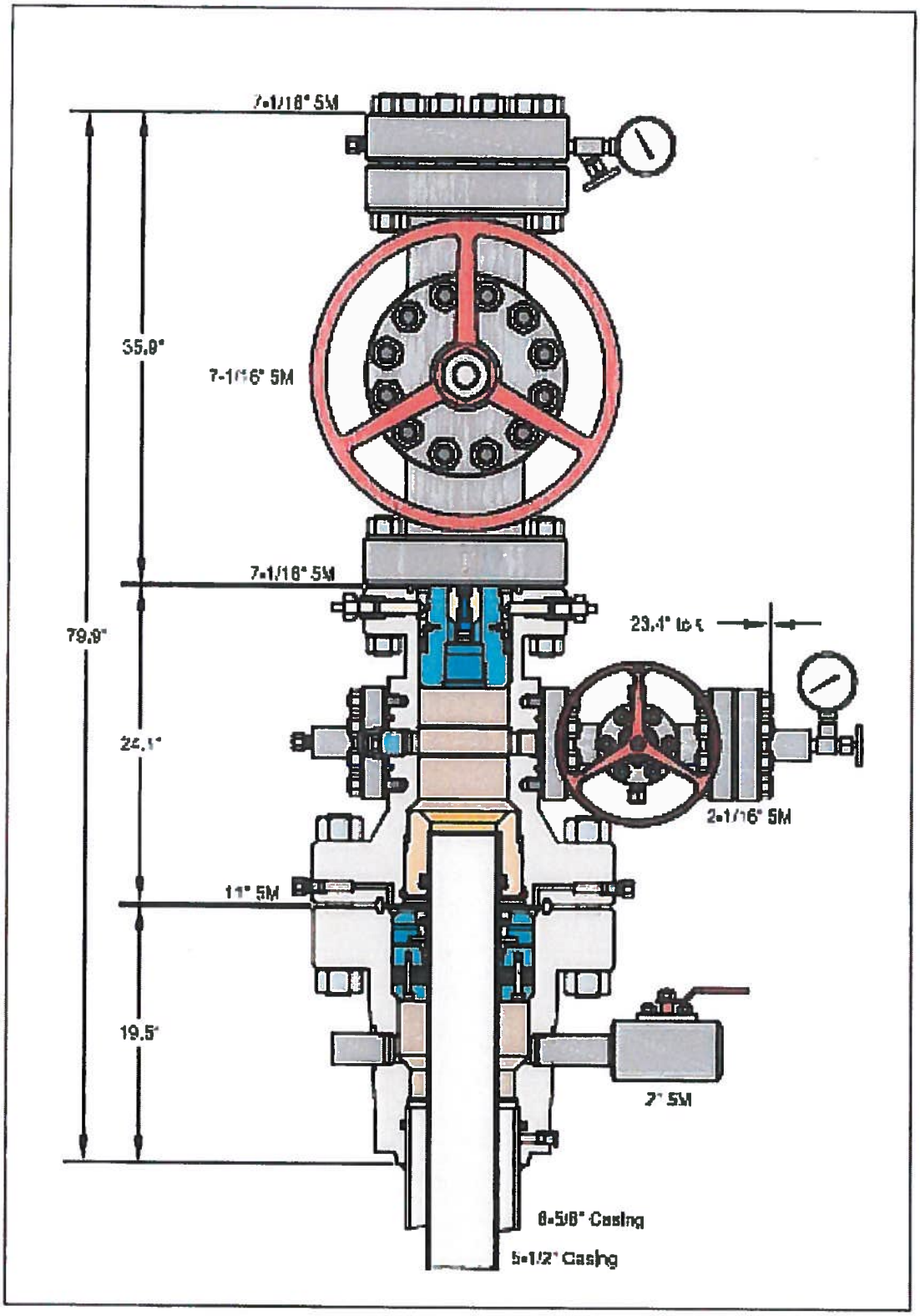


5 Completion

Method of completion will be determined subsequent to review of open-hole log data and cased hole cement bond logs (CBL).

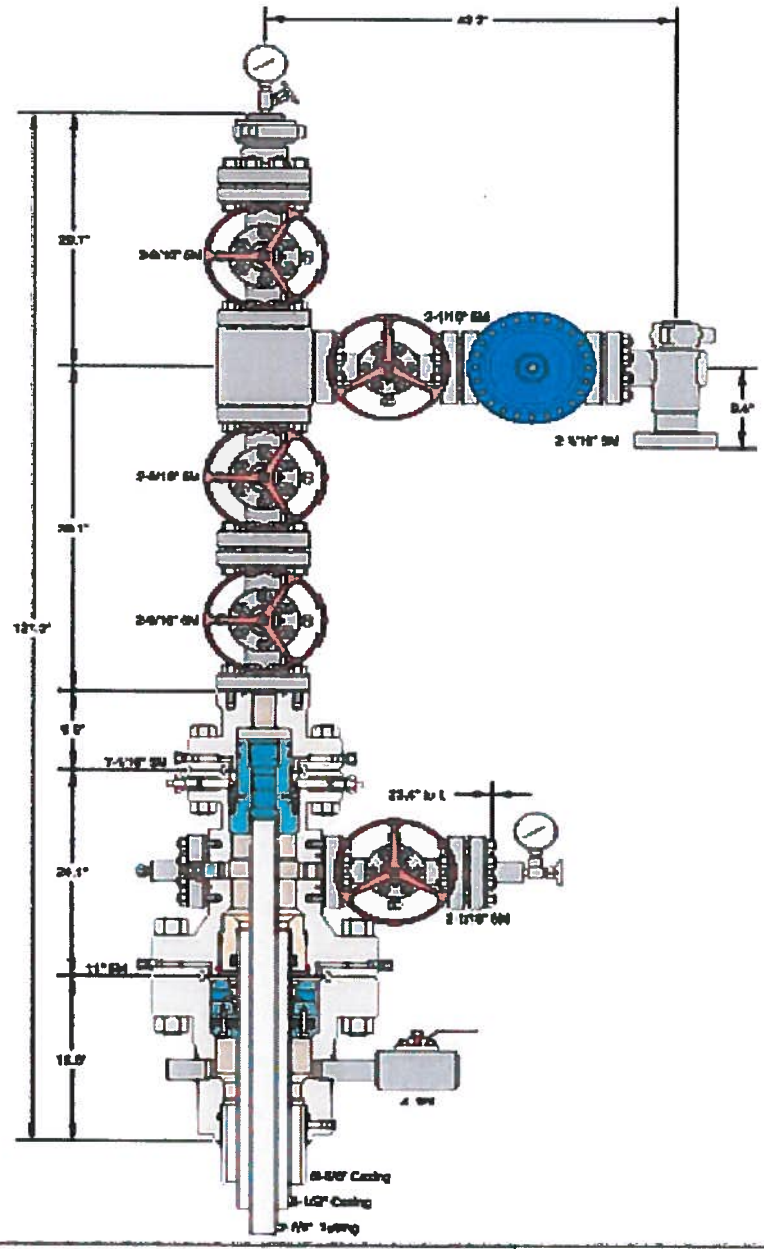
6 Well Head

6.1 Dry-Hole Schematic



6.2 Completed Schematic

GE Oil & Gas



This drawing is the property of GE Oil & Gas Pressure Control LP and is considered confidential. Unless otherwise agreed in writing, neither it nor its contents may be used, copied, transmitted or reproduced except for the sole purpose of GE Oil & Gas Pressure Control LP.

ALTA MESA HOLDINGS, LP.
IDAHO

8-5/8" x 5-1/2" x 2-7/8" 5M, Conventional Wellhead Assembly
With T-EBS Tubing Head, T-EN Tubing Hanger,
and A5PEN Adapter Flange

DRAWN	CDG	24JUN13
APPRV	CR	24JUN13

FOR REFERENCE ONLY
DRAWING NO. AE24278

6.3 Completed Parts List

CASING HEAD ASSEMBLY

1. 346261 CSGHD,WG,W2,11 5M X 8-5/8 SOW,W/2 2 LP ORING,1040 60K,6A-PX-AA-1-2
2. NI6 NIPPLE,2 LP X 6 LG,XXH,W/1.50 BORE
3. BV2-5 VLV,BALL,KF,CXH,2 RP 5M THD 2 IN LP CARBON STEEL TRIM W/DELRIN/BUNA-N SEALS PN 5052-11911
4. BPS-API BULL PLUG,2 LP X SOLID X 4.02 LG,API 6A-DD-NL
5. RENTAL WBUSH,WG,SL,T/22/22L/29,11 X 7-7/8 BIT (8.00 ID),13.5 LG,W/SILT BARRIER
6. RENTAL TEST PLUG/RET TOOL,WG,SL 2/9/SH2/SH3,11,4-1/2 IFTJ BOX BTM and TOP, W/1-1/4 LP,BYPASS and SPRING LOADED LIFT PINS NOT FOR USE OVER 7 IN

TUBING HEAD ASSEMBLY

1. 362613 TBGHD,WG,T-EBS,9,11 5M X 7-1/16 5M,W/2 2-1/16 5M FP,F/17.50 AND 17.63 FRAC SLV,1040 TUBE,6A-U-AA-1-2
2. 344789 SECSEAL,WG,EBS,9 X 5-1/2,F/3-1/2 CUTOFF
3. PEROXIDEDCURED NITRILE
4. 344967 VLV,WG,1000,2-1/16 3/5M FE BB/EE-0,5 (6A PU BB/EE-0,5 PSL1 PR2)
5. 329570 VR PLUG,1-1/2 SHARP VEE,W/1-1/4 HEX,API 6A-DD
6. 317865 FLG,COMP,2-1/16 5M X 2 LP,6A-U-EE-NL-1,1040 60K
7. BPT-API BULL PLUG,2 LP X 1/2 LP,4 LG,API 6A-DD-NL
8. A025-001 FTG,GRS/VENT,1/2" NPT 10M SVC,1215
9. NVA NEEDLE VALVE,MFA,1/2 NPT,10,000 PSI
10. PG5 PRESSURE GAUGE,0-5M PSI,DUAL GAGE,75 PCT LIQUID FILLED,4 MIN. OD FACE,1/2 NPT,SS CASE,POLY CARBONITE FACE,CRIMPED BEZEL,TEMP -40 TO 220F
11. R24 RING GASKET,API R-24,OVAL,CARBON STEEL,PLATED,API MONOGRAM REQUIRED
12. 331062 STUD,ALL-THD,W/2 NUTS,BLK,7/8 X 6.50 STUD A193-GR B7 NUT A194-GR 2H
13. 341986 CSGHGR,WG,W2,11 X 5-1/2,6A-L-AA-3-2
14. R54 RING GASKET,API R-54,OVAL,CARBON STEEL,PLATED,API MONOGRAM REQUIRED
15. 350298 STUD,ALL-THD,W/2 NUTS,BLK,1-7/8 X 14.25 STUD A193-GR B7,NUT A194-GR 2H

PRODUCTION TREE ASSEMBLY

1. 312738 ADPT,TBGHD,WG,A5PEN,5-1/2,7-1/16 5M X 2-9/16 5M,410SS,6A-U-FF-NL-1-2
2. 344985 VLV,WG,1000,2-9/16 3/5M FE CC/FF-0,5 (6A PU CC/FF-0,5 PSL1 PR2)
3. 344971 VLV,WG,1000,2-9/16 3/5M FE BB/EE-0,5 (6A PU BB/EE-0,5 PSL1 PR2)
4. 316612 TEE,STD,2-9/16 5M X 2-1/16 5M,6A-PU-EE-NL-1
5. 344971 VLV,WG,1000,2-9/16 3/5M FE BB/EE-0,5 (6A PU BB/EE-0,5 PSL1 PR2)
6. 307840 TREECAP,WG,15A,2-9/16 5M X 2-7/8 EU ILT, 6A-PU-EE-NL-1-2 6A-PU-EE-NL-1-2
7. R27-SS RING GASKET,API R-27,OVAL,316SS,API MONOGRAM REQUIRED
8. R27 RING GASKET,API R-27,OVAL,CARBON STEEL,PLATED,API MONOGRAM REQUIRED
9. 320127 STUD,ALL-THD,W/2 NUTS,BLK,1 X 7.00, STUD A193-GR B7,NUT A194-GR 2H
10. 344967 VLV,WG,1000,2-1/16 3/5M FE BB/EE-0,5 (6A PU BB/EE-0,5 PSL1 PR2)

11. 356635 VLV/ACT,WG,1000,2-1/16 3/5M FE BB/EE-0,5 (6AV U BB/EE-0,5 PSL1 PR2),D1202 DIAPHRAGM ACTR W/MANUAL OVERRIDE
12. H288010-128 CHOKE,POS,MCDONALD,JWA,2-1/16 5M FE X FE,4130 ALLOY,W 1/2 TAP BLANKING PLUG ASSY
13. R24 RING GASKET,API R-24,OVAL,CARBON STEEL,PLATED,API MONOGRAM REQUIRED
14. 331062 STUD,ALL-THD,W/2 NUTS,BLK,7/8 X 6.50, STUD A193-GR B7 NUT A194-GR 2H
15. NVS NEEDLE VALVE,MFS,1/2 NPT,10,000 PSI,CS
16. PG5 PRESSURE GAUGE,0-5M PSI,DUAL GAGE,75 PCT LIQUID FILLED,4 MIN. OD FACE,1/2 NPT,SS CASE,POLY CARBONITE FACE,CRIMPED BEZEL,TEMP -40 TO 220F
17. 360261 TBGHGR,WG,T-EN,5-1/2,7-1/16 X 2-7/8 ABC MOD EU BTM X 2-7/8 EU TOP,W/2-1/2 HBPV THD,17-4PH,6A-PU-FF-0,5-1-2
18. R46-SS RING GASKET,API R-46,OVAL,316SS,API MONOGRAM REQUIRED
19. 331061 STUD,ALL-THD,W/2 NUTS,BLK,1-3/8 X 11.00, STUD A193-GR B7 NUT A194-GR 2H

7 Reclamation

Reclamation will be conducted in accordance with IDAPA 20.07.02.325. To achieve those requirements, Alta Mesa Services, L.P. proposes to address reclamation through a multistep process which is outlined below. As provided for in IDAPA 20.07.02.325.08, Alta Mesa Services, L.P. may enter into a Surface Use Agreement with the landowner the terms of which will ensure that the site is left in a stable, non-eroding condition as required.

1. 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 highwalls, 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.
2. 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.
3. 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
4. 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 characteristics 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 20.07.02.325
    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 on the evaluation

5. Reestablish initial visual composition
    a. Ensure the reclaimed landscape features conform to the prior conditions of the site.

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

TOM SCHULTZ
SECRETARY TO THE COMMISSION

IDAHO OIL AND GAS
CONSERVATION COMMISSION
James Classen
Ken Smith
Margaret Chipman
Chris Beck
Sid Cellan

August 19, 2013

Ronda Louderman
Alta Mesa Services, LP
15021 Katy Freeway, Suite 400
Houston, TX 77094

Re: Permit to Drill LU600120 (API#11-075-20-023), DJS Properties 2-14

Ms. Louderman:

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 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.

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. 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.

5. All well log information required by IDAPA 20.07.02.091 will be submitted to IDL within 30 days of the logs being run.

6. Idaho Department of Lands inspectors shall have 24 hour, unencumbered access for compliance and regulatory purposes.

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. Please contact her at 208-334-3488 if you have any questions.

Regards,

Robert R. Johnson P.G.
Oil & Gas Program Manager

cc: Nancy Welbaum
Chad Hersley, IDWR, PO Box 83720, Boise, Idaho 83720-0098
Patti Nitz, Payette County Planning and Zoning

DEPARTMENT MEMORANDUM
August 19, 2013

SUBJECT:

Application No. LU600120 (API # 11-075-20-023) for permit to drill for oil and gas, DJS Properties 2-14. Alta Mesa Services, LP Houston, Texas.

AUTHORITY:

Section 47-320, Chapter 8, Idaho Code, gives authority to the Idaho Oil and Gas Conservation Commission to grant permits to drill for oil and gas.

DISCUSSION:

Applicant proposes to drill a well to a maximum depth of 5,500 feet. The location is in Section 14, Township 8 North, Range 4 West, B.M, Payette County, Idaho. The well will be located approximately 5 miles southeast of Payette, Idaho.

The applicant proposes to set 13-3/8" conductor pipe to 120 feet, a 8-5/8" 32# K-55 STC pipe from surface to 950 feet, and a 5-1/2" 15.5# K55 LTC pipe from surface to 5,500 feet. All pipe strings will be cemented from their bottom to the surface. The blowout prevention (BOP) system will be a 11"x5,000 psi Cameron Type U consisting of an annular preventer and blind and variable pipe rams.

An application fee of $2,000.00 has been paid. A blanket bond of $150,000 is on file with the Commission. The Idaho Department of Water Resources reviewed the application and did not have any substantive comments. They did supply IDL with information regarding one(1) nearby water well, which is 38 feet deep. Payette County did not have any comments. Only one substantive public comment was received. The issues raised in those comments are applicable to the application, and are covered under IDAPA 20.07.02.079.12 under the authority of the Oil and Gas Conservation Commission. As well, an exception request was made under IDAPA 20.07.02.330.03 accompanied by a plat. The plat clearly shows that an exception should be made. As the wells are in different sections, just the lateral distance is of issue.

All the application requirements of the Rules and Regulations Governing the Conservation of Crude Oil and Natural Gas in the State of Idaho have been complied with.

RECOMMENDATION:

Approve the application to drill with the following stipulations and understanding that all operations will be conducted in accordance with the above cited statute and rules:

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 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.
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. 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.
5. All well log information required by IDAPA 20.07.02.091 will be submitted to IDL within 30 days of the logs being run.
6. Idaho Department of Lands inspectors shall have unencumbered access for compliance and regulatory purposes.

DEPARTMENT ACTION: