

SEP 21 2012

Form 3160-B
(August 2007)

OCD Hobbs

FORM APPROVED
OMB No 1004-0137
Expires July 31, 2010

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

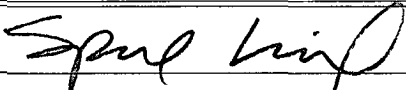
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMLC 0069048
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator SandRidge Expl. & Prod., LLC (270265)		7. If Unit or CA Agreement, Name and No.
3a. Address 123 Robert S. Kerr Ave. Oklahoma City, OK 73102		8. Lease Name and Well No. (38680) Elliott Federal #3
3b. Phone No. (include area code) 405-429-6518		9. API Well No. 30-025- 40776
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 1285' FSL & 680' FEL, Lot 4 At proposed prod. zone 2000' FSL & 1168' FEL, Lot 3		10. Field and Pool, or Exploratory Wantz; Abo (62700)
14. Distance in miles and direction from nearest town or post office* Approximately 5 miles NE of Eunice, NM		11. Sec, T, R, M or Blk. and Survey or Area Sec 9 T21S R38E
15. Distance from proposed* location to nearest property or lease line, ft (Also to nearest drig. unit line, if any)	16. No. of acres in lease 170.69	17. Spacing Unit dedicated to this well 40 ac
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft 110'	19. Proposed Depth MD: 8161' TVD: 8100'	20. BLM/BIA Bond No on file Nationwide: B005997 Statewide: B006211
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3563' GL	22. Approximate date work will start* 09/01/2012	23. Estimated duration 15 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No 1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office)
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature 	Name (Printed/Typed) Spence Laird	Date 07/20/2012
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Title

Regulatory Analyst

Approved by (Signature) /s/ Don Peterson	Name (Printed/Typed) /s/ Don Peterson	Date SEP 19 2012
Title  FIELD MANAGER	Office CARLSBAD FIELD OFFICE	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

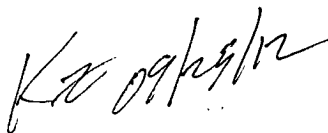
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

Capitan Controlled Water Basin

Approval Subject to General Requirements
& Special Stipulations AttachedSEE ATTACHED FOR
CONDITIONS OF APPROVAL

SEP 25 2012

DRILLING PROGRAM

SandRidge Exploration and Production, LLC

Elliott Federal #3

Surface Location: 1285' FSL, 680' FEL, Lot 4, Sec 9, T21S R38E, Lea County, New Mexico

Bottom Hole Location: 2000' FSL, 1168' FEL, Lot 3, Sec 9 T21S R38E, Lea County, New Mexico

1. Geologic Name of Surface Formation:

Quaternary

2. Estimated KB Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas:

a. Ogallala	100'	Water
b. Rustler	1609'	Barren
c. Tansil	2790'	Barren
d. Yates	2901'	Oil/Gas
e. Seven Rivers	3162'	Barren
f. Queen	3505'	Barren
g. Grayburg	4090'	Oil
h. San Andres	4313'	Oil
i. Glorieta	5580'	Oil
j. Paddock	5690'	Barren
k. Blinbry	6016'	Oil
l. Tubb	6570'	Oil
m. Drinkard	6763'	Oil
n. Abo	7185'	Oil
o. Total Depth	8100' TVD	
	8161' MD	

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 8-5/8" casing @ 1644' and circulating cement back to the surface. The Abo intervals will be isolated by setting 5-1/2" casing to total depth and circulating cement to the surface.

3. Casing Program:

<u>Hole Size</u>	<u>Hole Interval</u>	<u>OD Csg</u>	<u>Casing Interval</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>	<u>N/U</u>
17"	0-80'	14"	0-80'	50#			
12 -1/4"	80-1644'	8-5/8"	0-1644'	24#	STC	J-55	New
7-7/8"	1644-8161'	5-1/2"	0-8161'	17#	LTC	L-80	New

Design Parameter Factors:

<u>Casing Size</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
8-5/8"	1.78	3.83	6.18
5-1/2"	1.49	1.84	2.45

Casing load assumptions for new 8-5/8" J-55 24# casing:

Collapse: Fluid inside casing is evacuated. A full column of 9 ppg fluid is present in the annulus.

Burst: Fluid in the annulus is evacuated and a full column of 9 ppg fluid is present in the casing.

Tension: All fluid inside wellbore is evacuated

Casing load assumptions for new 5 1/2" L-80 17# casing:

Collapse: Fluid inside casing is evacuated. A full column of 10 ppg fluid is present in the annulus.

Burst: Surface treating pressures will not exceed 4200 psi exposure to the casing.

Tension: All fluid inside wellbore is evacuated

4. Cement Program:

a. 14" Conductor

Ready-mix concrete

b. 8 -5/8" Surface

Lead: 535 sacks (100% excess) Class C (65:35) Poz Cement ECONOCEM™ System +3% lbm/sk Poly-E-Flake, 12.8 ppg, Yield: 1.86 ft³/sk, Mixing Fluid: 9.94 gal/sk.

Tail: 270 sacks (100% excess) Class C Cement Halcem™ System+ 2% Calcium Chloride+ 0.125 lbm/sk Poly-E-Flake, 14.8 ppg, Yield:1.35 ft³/sk, Mixing Fluid 6.37 gal/sk. **TOC @ surface.**

c. 5 1/2" Production

Lead: 400 sacks (25% excess) Class H (50:50) Poz EXTENDACEM™ System + 5 #/sk Gilsonite, 12.2 ppg, Yield 2.26 ft³/sk, Mixing fluid:12.07 gal/sk.

Tail: 710 sacks (25% excess) Class H (50:50) Poz Versacem™ System + 0.3% Halad®-9 + 3% Salt + 5 lbm/sk Gilsonite, 14.4 ppg, Yield: 1.25 ft³/sk, Mixing fluid: 5.06 gal/sk. **TOC @ surface.**

Final volumes will be determined using caliper log and 25% excess.

5. Pressure Control Equipment:

BOP DESIGN: The BOP system used to drill the production hole will consist of an 11" 3M Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a 3M system prior to drilling out the surface casing shoe.

The pipe rams will be operated and checked each 24-hour period and each time the drill pipe is out of the hole. These tests will be logged into the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a Kelly cock, floor safety valve, choke lines, and choke manifold rated at 3000 psi WP.

6. MUD PROGRAM SUMMARY:

DEPTH (TVD)	HOLE SIZE	CASING SIZE	MUD WT. (ppg)	VISCOSITY (cP)	FLUID LOSS (cc)
0 - 1,644'	12-1/4"	8-5/8"	8.6 – 9.4 FW	31 – 33	NC
1,644' - 4,100'	7-7/8"	5-1/2"	10 Brine	28 – 29	NC
4,100' – 6,300'	7-7/8"	5-1/2"	10 Brine	30 – 31	15 – 10
6,300' – 8,100'	7- 7/8"	5-1/2"	10 Brine	32 – 38	10 – 6

7. Auxiliary Well Control and Monitoring Equipment:

- A Kelly cock will be in the drill string at all times.
- A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- Hydrogen Sulfide detection equipment will be in operation prior to spud and throughout the entire drilling process until total depth is reached. Breathing equipment will be on location prior to spud and until total depth is reached.

8. Logging, Coring, and Testing Program: *See COA*

Gamma Ray / Neutron – Surface to TD (8161' MD)

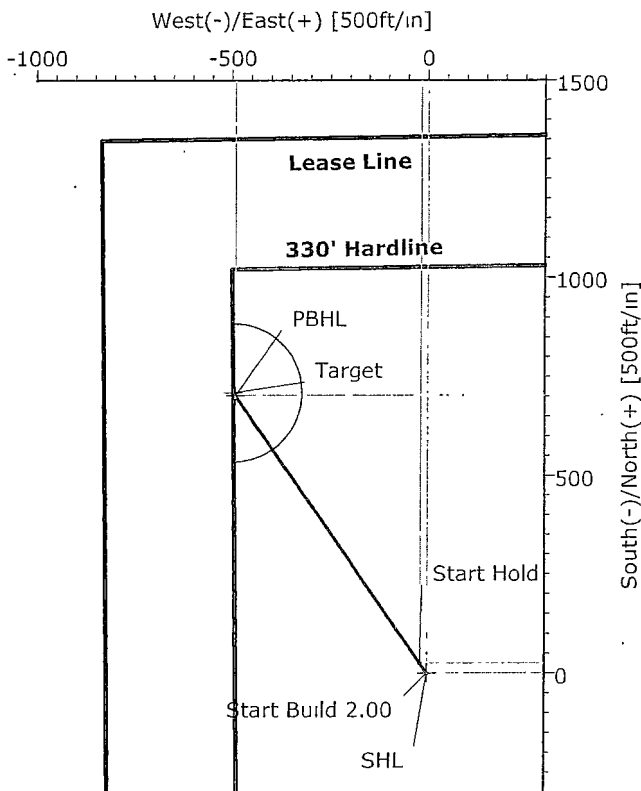
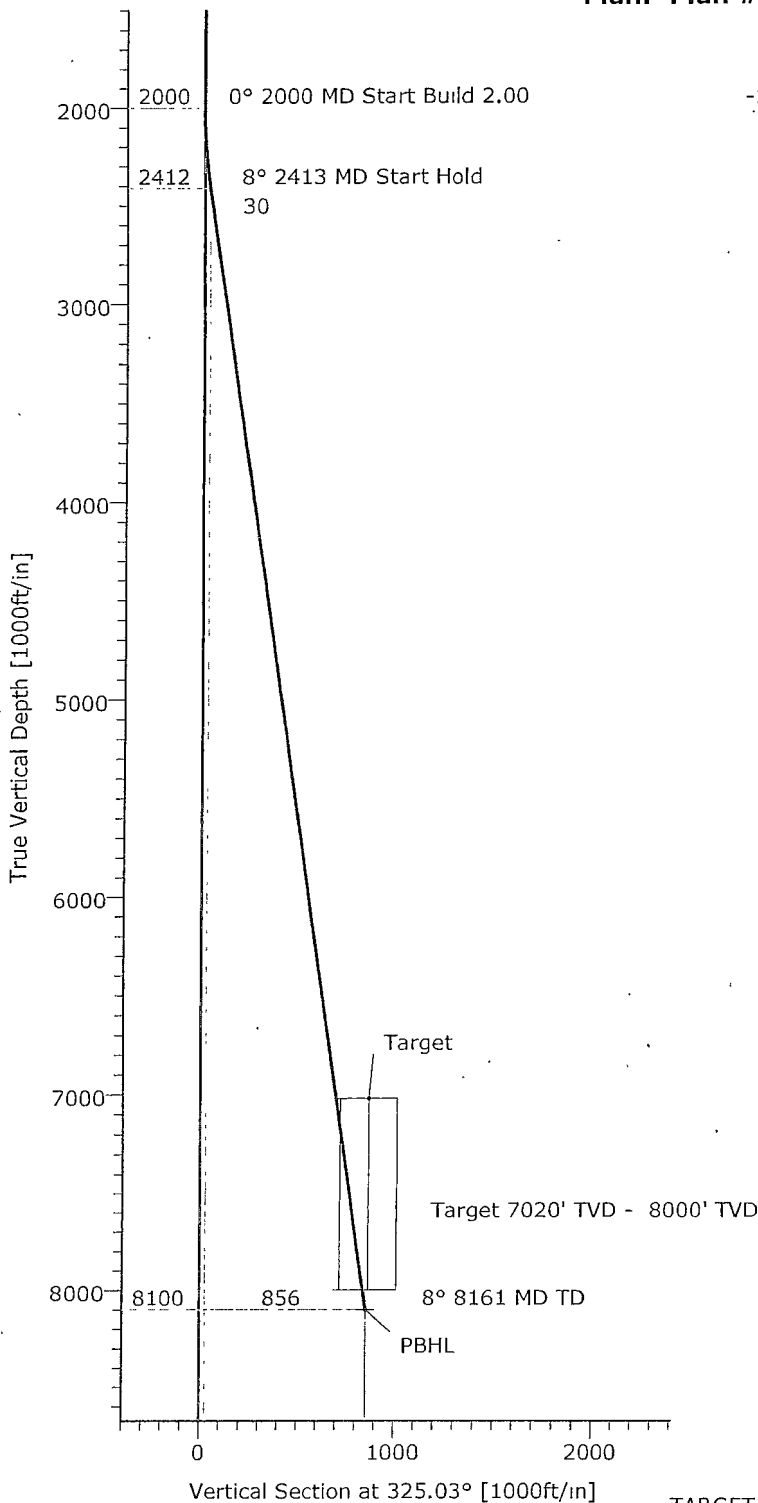
Spectral Gamma Ray, Density / Resistivity – Surface casing to TD (8161' MD)

9. Potential Hazards:

No abnormal pressures or temperatures are expected. If H₂S is encountered, the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 4212 psi and estimated BHT 149 °F. H₂S monitoring equipment will be on location 24/7 during drilling operations.

10. Anticipated Starting Date and Duration of Operations:

- Location construction will begin after the BLM and NMOCD have approved the APD. Anticipated spud date will be as soon after approval as rig is available. Move in operations and drilling is expected to take 15 days.
- If production casing is run, an additional 30 days will be required to complete well and construct surface facilities and/or lay flow lines in order to place the well on production.



Azimuths to Grid North
True North: -0.68°
Magnetic North: 6.58°

Magnetic Field
Strength: 48767nT
Dip Angle: 60.50°
Date: 05/07/2012
Model: IGRF2010

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
SHL	0.00	0.00	0.00	544184.40	890646.30	32°29'22.905N103°03'59.137W		Point
Target	7020.00	708.90	-495.90	544893.30	890150.40	32°29'29.977N103°04'04.827W		Ellipse (175x175)
PBHL	8100.00	701.49	-490.71	544885.89	890155.59	32°29'29.903N103°04'04.767W		Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	325.03	0.00	0.00	0.00	0.00	0.00	0.00	
2	2000.00	0.00	325.03	2000.00	0.00	0.00	0.00	0.00	0.00	
3	2413.28	8.27	325.03	2411.85	24.38	-17.06	2.00	325.03	29.76	
4	8161.14	8.27	325.03	8100.00	701.49	-490.71	0.00	0.00	856.09	PBHL

Precision Directional Services, Inc

Planning Report

Company: SANDRIDGE ENERGY Field: Lea County NME Nad 27 Site: Elliott Federal #3 Well: #3 Wellpath: Original Hole	Date: 05/08/2012 Co-ordinate(NE) Reference: Well: #3, Grid North Vertical (TVD) Reference: 3566' GL + 13' KB 3579.0 Section (VS) Reference: Well (0.00N,0.00E,325.03Azi) Plan: Plan #1	Time: 10:30:43 Page: 1
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Field: Lea County NME Nad 27
Lea County, New Mexico

Map System: US State Plane Coordinate System 1927
Geo Datum: NAD27 (Clarke 1866)
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Well Centre
Geomagnetic Model: IGRF2010

Site: Elliott Federal #3
Section 9, Township 21-S, Range 38-E
Lea County, New Mexico

Site Position:	Northing: 544184.40 ft	Latitude: 32 29 22.905 N
From: Map	Easting: 890646.30 ft	Longitude: 103 3 59.137 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3566.00 ft		Grid Convergence: 0.68 deg

Well: #3

Slot Name:

Well Position:	+N/-S 0.00 ft	Northing: 544184.40 ft	Latitude: 32 29 22.905 N
	+E/-W 0.00 ft	Easting: 890646.30 ft	Longitude: 103 3 59.137 W
Position Uncertainty: 0.00 ft			

Wellpath: Original Hole

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 7 26 deg
Mag Dip Angle: 60.50 deg
+E/-W **Direction**
 ft deg

Current Datum: 3566' GL + 13' KB **Height** 3579.00 ft
Magnetic Data: 05/07/2012
Field Strength: 48767 nT
Vertical Section: **Depth From (TVD)**
 ft **+N/-S**
 ft

0.00	0.00	0.00	325.03
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Plan: Plan #1

Date Composed: 05/07/2012
Version: 1
Tied-to: From Surface

Principal: No

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	325.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	325.03	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2413.28	8.27	325.03	2411.85	24.38	-17.06	2.00	2.00	0.00	325.03	
8161.14	8.27	325.03	8100.00	701.49	-490.71	0.00	0.00	0.00	0.00	PBHL

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2000.00	0.00	325.03	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2100.00	2.00	325.03	2099.98	1.43	-1.00	1.75	2.00	2.00	0.00	
2200.00	4.00	325.03	2199.84	5.72	-4.00	6.98	2.00	2.00	0.00	
2300.00	6.00	325.03	2299.45	12.86	-9.00	15.69	2.00	2.00	0.00	
2400.00	8.00	325.03	2398.70	22.85	-15.98	27.88	2.00	2.00	0.00	
2413.28	8.27	325.03	2411.85	24.38	-17.06	29.76	2.00	2.00	0.00	
2500.00	8.27	325.03	2497.67	34.60	-24.20	42.23	0.00	0.00	0.00	
2600.00	8.27	325.03	2596.63	46.38	-32.44	56.60	0.00	0.00	0.00	
2700.00	8.27	325.03	2695.59	58.16	-40.68	70.98	0.00	0.00	0.00	
2800.00	8.27	325.03	2794.55	69.94	-48.93	85.35	0.00	0.00	0.00	
2900.00	8.27	325.03	2893.51	81.72	-57.17	99.73	0.00	0.00	0.00	
3000.00	8.27	325.03	2992.47	93.50	-65.41	114.11	0.00	0.00	0.00	
3100.00	8.27	325.03	3091.43	105.28	-73.65	128.48	0.00	0.00	0.00	
3200.00	8.27	325.03	3190.40	117.06	-81.89	142.86	0.00	0.00	0.00	
3300.00	8.27	325.03	3289.36	128.84	-90.13	157.24	0.00	0.00	0.00	
3400.00	8.27	325.03	3388.32	140.62	-98.37	171.61	0.00	0.00	0.00	
3500.00	8.27	325.03	3487.28	152.40	-106.61	185.99	0.00	0.00	0.00	

Precision Directional Services, Inc

Planning Report

Company: SANDRIDGE ENERGY
Field: Lea County NME Nad 27
Site: Elliott Federal #3
Well: #3
Wellpath: Original Hole

Date: 05/08/2012 **Time:** 10:30:43
Co-ordinate(NE) Reference: Well: #3, Grid North
Vertical (TVD) Reference: 3566' GL + 13' KB 3579.0
Section (VS) Reference: Well (0.00N,0.00E,325.03Azi)
Plan: Plan #1

Page: 2

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
3600.00	8.27	325.03	3586.24	164.18	-114.85	200.36	0.00	0.00	0.00	
3700.00	8.27	325.03	3685.20	175.96	-123.09	214.74	0.00	0.00	0.00	
3800.00	8.27	325.03	3784.16	187.74	-131.33	229.12	0.00	0.00	0.00	
3900.00	8.27	325.03	3883.12	199.52	-139.57	243.49	0.00	0.00	0.00	
4000.00	8.27	325.03	3982.09	211.30	-147.81	257.87	0.00	0.00	0.00	
4100.00	8.27	325.03	4081.05	223.08	-156.05	272.25	0.00	0.00	0.00	
4200.00	8.27	325.03	4180.01	234.86	-164.29	286.62	0.00	0.00	0.00	
4300.00	8.27	325.03	4278.97	246.64	-172.53	301.00	0.00	0.00	0.00	
4400.00	8.27	325.03	4377.93	258.42	-180.77	315.37	0.00	0.00	0.00	
4500.00	8.27	325.03	4476.89	270.20	-189.01	329.75	0.00	0.00	0.00	
4600.00	8.27	325.03	4575.85	281.98	-197.25	344.13	0.00	0.00	0.00	
4700.00	8.27	325.03	4674.81	293.76	-205.49	358.50	0.00	0.00	0.00	
4800.00	8.27	325.03	4773.78	305.54	-213.74	372.88	0.00	0.00	0.00	
4900.00	8.27	325.03	4872.74	317.32	-221.98	387.26	0.00	0.00	0.00	
5000.00	8.27	325.03	4971.70	329.10	-230.22	401.63	0.00	0.00	0.00	
5100.00	8.27	325.03	5070.66	340.88	-238.46	416.01	0.00	0.00	0.00	
5200.00	8.27	325.03	5169.62	352.66	-246.70	430.39	0.00	0.00	0.00	
5300.00	8.27	325.03	5268.58	364.44	-254.94	444.76	0.00	0.00	0.00	
5400.00	8.27	325.03	5367.54	376.22	-263.18	459.14	0.00	0.00	0.00	
5500.00	8.27	325.03	5466.50	388.00	-271.42	473.51	0.00	0.00	0.00	
5600.00	8.27	325.03	5565.46	399.78	-279.66	487.89	0.00	0.00	0.00	
5700.00	8.27	325.03	5664.43	411.56	-287.90	502.27	0.00	0.00	0.00	
5800.00	8.27	325.03	5763.39	423.34	-296.14	516.64	0.00	0.00	0.00	
5900.00	8.27	325.03	5862.35	435.12	-304.38	531.02	0.00	0.00	0.00	
6000.00	8.27	325.03	5961.31	446.90	-312.62	545.40	0.00	0.00	0.00	
6100.00	8.27	325.03	6060.27	458.69	-320.86	559.77	0.00	0.00	0.00	
6200.00	8.27	325.03	6159.23	470.47	-329.10	574.15	0.00	0.00	0.00	
6300.00	8.27	325.03	6258.19	482.25	-337.34	588.52	0.00	0.00	0.00	
6400.00	8.27	325.03	6357.15	494.03	-345.58	602.90	0.00	0.00	0.00	
6500.00	8.27	325.03	6456.12	505.81	-353.82	617.28	0.00	0.00	0.00	
6600.00	8.27	325.03	6555.08	517.59	-362.06	631.65	0.00	0.00	0.00	
6700.00	8.27	325.03	6654.04	529.37	-370.30	646.03	0.00	0.00	0.00	
6800.00	8.27	325.03	6753.00	541.15	-378.55	660.41	0.00	0.00	0.00	
6900.00	8.27	325.03	6851.96	552.93	-386.79	674.78	0.00	0.00	0.00	
7000.00	8.27	325.03	6950.92	564.71	-395.03	689.16	0.00	0.00	0.00	
7069.80	8.27	325.03	7020.00	572.93	-400.78	699.19	0.00	0.00	0.00	Target
7100.00	8.27	325.03	7049.88	576.49	-403.27	703.53	0.00	0.00	0.00	
7200.00	8.27	325.03	7148.84	588.27	-411.51	717.91	0.00	0.00	0.00	
7300.00	8.27	325.03	7247.81	600.05	-419.75	732.29	0.00	0.00	0.00	
7400.00	8.27	325.03	7346.77	611.83	-427.99	746.66	0.00	0.00	0.00	
7500.00	8.27	325.03	7445.73	623.61	-436.23	761.04	0.00	0.00	0.00	
7600.00	8.27	325.03	7544.69	635.39	-444.47	775.42	0.00	0.00	0.00	
7700.00	8.27	325.03	7643.65	647.17	-452.71	789.79	0.00	0.00	0.00	
7800.00	8.27	325.03	7742.61	658.95	-460.95	804.17	0.00	0.00	0.00	
7900.00	8.27	325.03	7841.57	670.73	-469.19	818.54	0.00	0.00	0.00	
8000.00	8.27	325.03	7940.53	682.51	-477.43	832.92	0.00	0.00	0.00	
8100.00	8.27	325.03	8039.50	694.29	-485.67	847.30	0.00	0.00	0.00	
8161.14	8.27	325.03	8100.00	701.49	-490.71	856.09	0.00	0.00	0.00	PBHL

Precision Directional Services, Inc Planning Report

Company: SANDRIDGE ENERGY
Field: Lea County NME Nad 27
Site: Elliott Federal #3
Well: #3
Wellpath: Original Hole

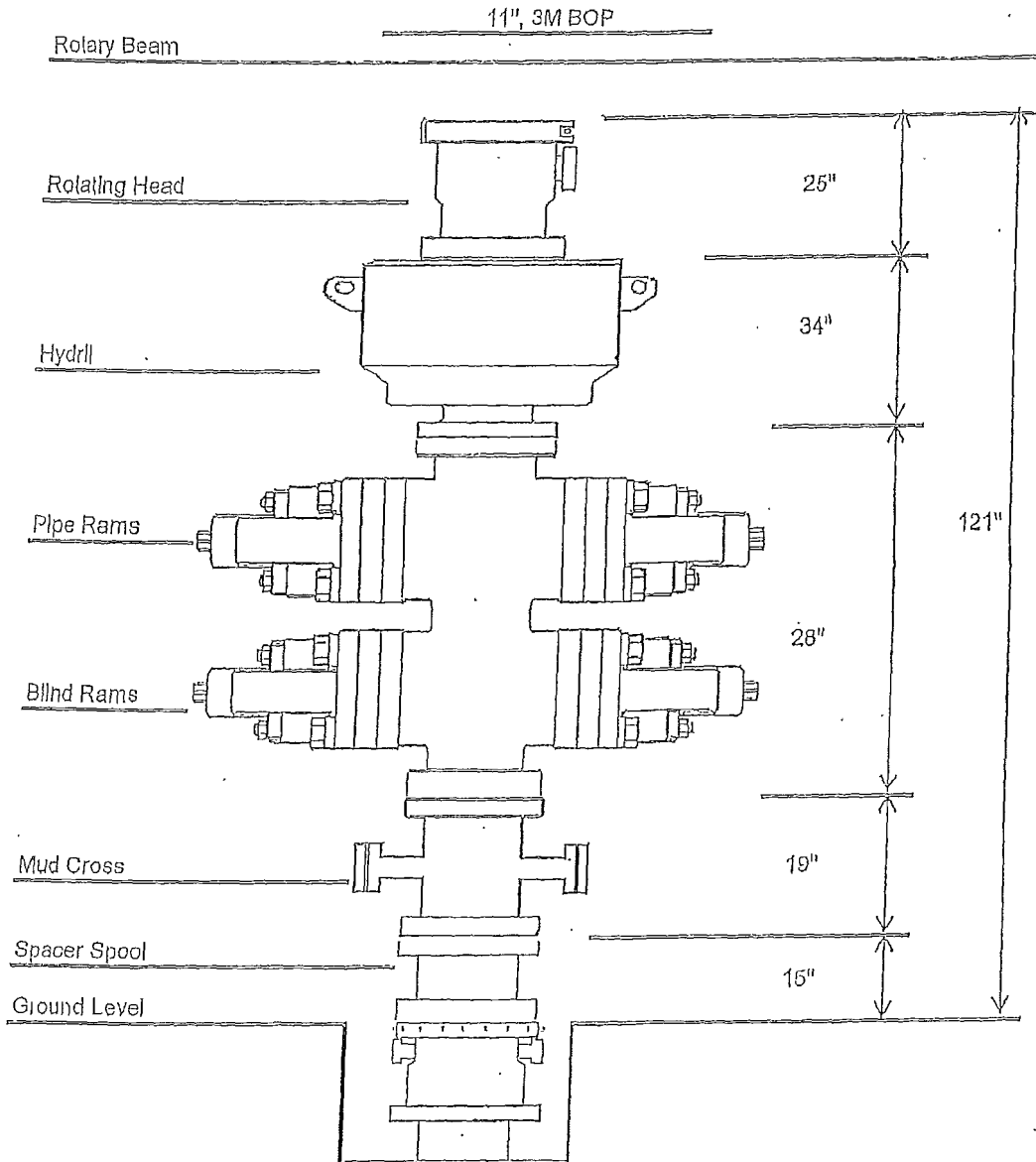
Date: 05/08/2012 **Time:** 10:30:43
Co-ordinate(NE) Reference: Well: #3, Grid North
Vertical (TVD) Reference: 3566' GL + 13' KB 3579 0
Section (VS) Reference: Well (0.00N,0.00E,325.03Azi)
Plan: Plan #1

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Targets

[illegible]

Lariat 17 BOP



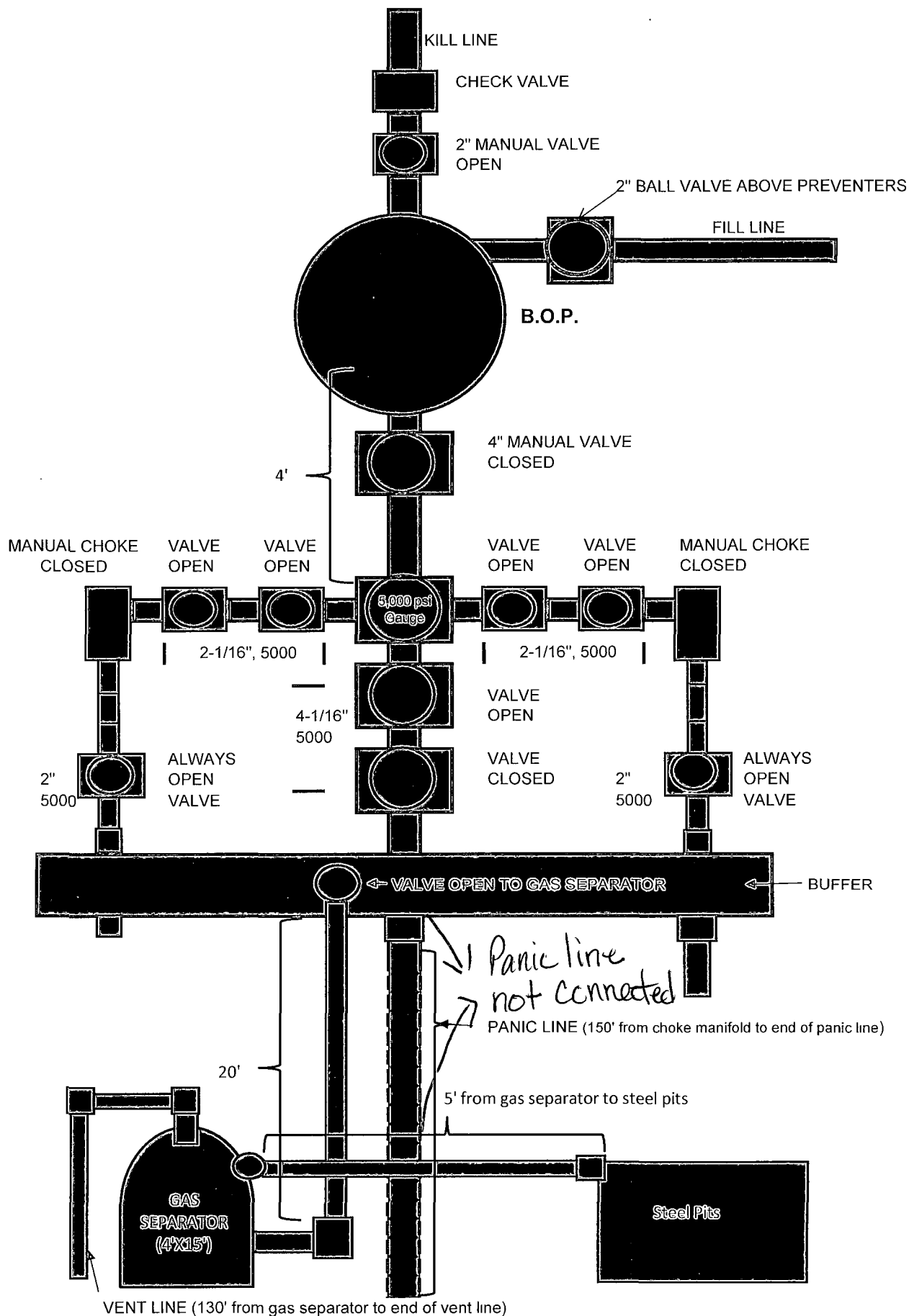
Attachment to Exhibit #1
NOTES REGARDING BLOWOUT PREVENTERS
SandRidge Exploration and Production, LLC

Elliott Federal #3

Surface Location: 1285' FSL, 680' FEL, Lot 4, Sec 9, T21S R38E, Lea County, New Mexico
Bottom Hole Location: 2000' FSL, 1168' FEL, Lot 3, Sec 9 T21S R38E, Lea County, New Mexico

1. Drilling nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
2. Wear ring will be properly installed in head.
3. Blowout preventer and all associated fittings will be in operable condition to withstand a minimum 3000 psi working pressure.
4. All fittings will be flanged.
5. A full bore safety valve tested to a minimum of 3000 psi WP with proper thread connections will be available on the rotary rig floor at all times.
6. All choke lines will be anchored to prevent movement.
7. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
8. Will maintain a Kelly cock attached to the Kelly.
9. Hand wheels and wrenches will be properly installed and tested for safe operations.
10. Hydraulic floor control for blowout preventer will be location as near in proximity to the driller's controls as practical.
11. All BOP equipment will meet API standards and include a minimum 40-gallon accumulator having two independent means of power to initiate closing operations.

Lariat 17 choke Manifold

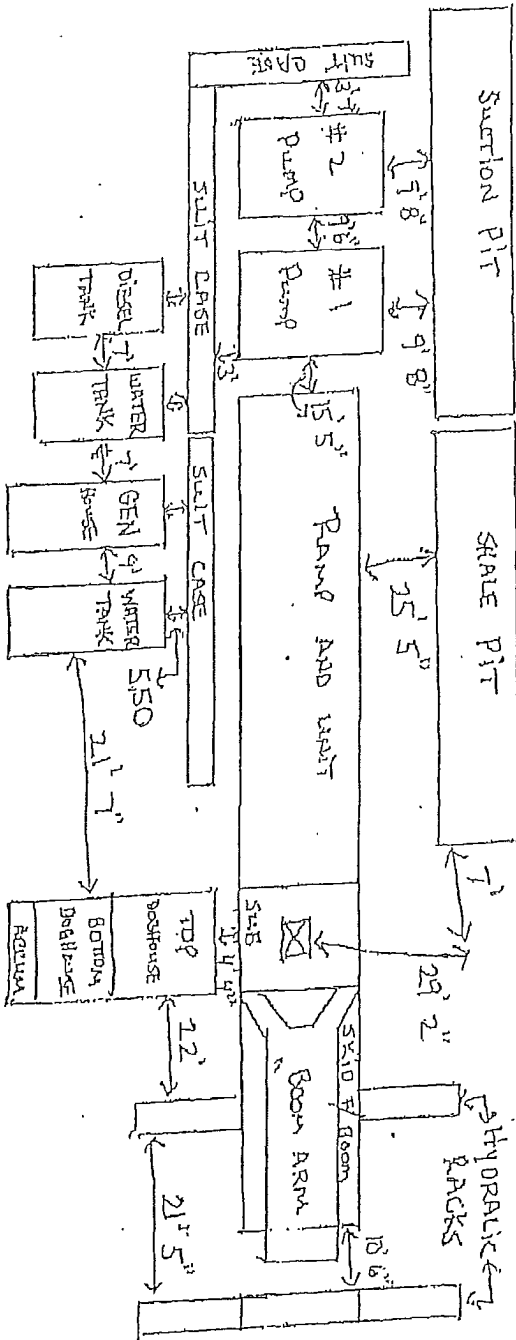


LARIAT SERVICES, INC.

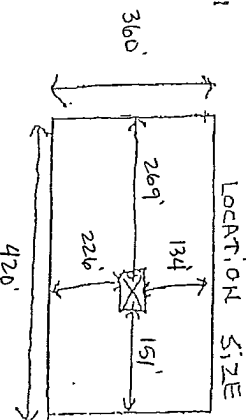
RIG #17

TYPICAL LOCATION FOOTPRINT

Reserve Pit should be added as needed



CENTER OF HOLE TO BACK OF STEEL PITS 40'
 CENTER OF HOLE TO END OF ACCUMULATOR 61'
 CENTER OF HOLE TO END OF UNIT RAMP 58'
 CENTER OF HOLE TO BACK OF LAST PIPE RACK-48'
 CENTER OF HOLE TO END OF BOOM-44'
 CENTER OF HOLE TO END OF SIDE FOR BOOM-34'



LOCATION SIZE
 FOR CLOSED
 LOOP SYSTEM



Lariat Services, Inc. – Rig #17 Inventory

APPROXIMATE AGE:
Built 2005

POWERED DRAW WORKS:
Rt 400 Single Drum Drawworks Lebus Grooved for 1 1/8" Line 42" x 10" Brakes with 424-400,000# Tension Torque Brake.

Powered by 630 HP Series 60 Detroit Engine with an Allison 6061 Transmission to 500 HP Right Angle Gear Box.

MAST & SUBSTRUCTURE:
International Derrick Service 67' 500,000 GNC Mast Mounted on a 3 Axle Carrier with Boatskid 12' Substructure with Pipe Handling Boom Arm.

POWERED PUMPS:
(1) RSF-1000 Powered by Detroit Series 2000 Diesel Engine.
(1) EMSCO DB-550 Powered by Caterpillar 3406 Diesel Engine.

TOP HEAD DRIVE AND POWER UNIT:
Top Drive system XK250-24K Powered by Detroit Series 60 / 350 HP @ 1200 RPM with Sunstrawn Hydraulic Pump.
Maximum Circulating Pressure 5000 PSI with Torque Capacity of 24,000 Ft. lbs. Max. RPM 150.

CROWN AND TRAVELING CARRIER FOR TOP HEAD DRIVE:
Crown Is Designed for 8 Line Strling Up. Consisting of (8) 20" x 1 1/8" Sheaves, Banjo Sheaves are 1 1/8" X 250 Ton.

WELL CONTROL EQUIPMENT:
Kookey 8 Bottle 5 Station Accumulator.
5000 # Choke Manifold.
11" x 3000 # Double Shaffer B.O.P.

GENERATOR HOUSE:
10' x 48' Skid Mounted House.
(2) 380 KW Marathon Generators Powered by (2) Detroit Series 60 550 HP Diesel Engines.
Sullivan Paletek Rotary Screw Compressor.

MUD SYSTEM:
(2) 10' W x 5' H x 40' L with 10' Porch on Each End 400 BBL Each with (4) 5" x 6" Centrifugal Pumps with 50 HP, Electric motors, Linear Shale Shaker, (2) Cone Desander (12) Cone Desilter and Mud Hopper.

TOOLPUSHER'S HOUSE:
8' W x 40' L Idle Time Trailer.

TOP DOGHOUSE:
8' W x 20' L with 4' Porch.

BOTTOM DOG HOUSE:
25' L x 8' W with 5 Station Accumulator Mounted on Front.

WATER TANK:
8' W x 8' H x 40' L with Lubster Mounted on One End with (2) 2" X 3" Centrifugal Pumps with 20 HP Electric Motors.
Water Tank 500 BBL Cap.

HANDLING TOOLS AND AUXILLARY EQUIPMENT:
OWI 1000 Hydraulic Wireline Machine.
U.S. Oil Tools,
Air Slips,
(2) Braden Hydraulic 3/8" Line Winches.

Lariat Services, Inc. - Rig #17 Inventory

- (1) 450 Gallon Day Tank on Unit.
- (1) 450 Gallon Hydraulic Tank.
- (3) Suitcases (1) 32' x 3' x 1" - (1) 40' x 3' x 1" - (1) 34' x 3' x 2".
- (1) Diesel Tank Skid Mounted 38' L x 7' (Tank Is 6' x 6' x 14').
- (1) Junk Box 5' x 8" x 20".
- (1) Auto-Drill Automatic Driller.
- Type "D" Weight Indicator with E-80 Sensor.
- Deadline Anchor Hercules Type HA 118T.
- Crown Protection System.
- (1) Pre-Mix Pit 7' W x 7' H x 28' L with 5" x 6" Mixing Pump 100 HP Electric Motor.
- (1) 500 BBL Storage Tank.