

HOBBS OCD

12-792

Form 3160-3
(August 2007)

SEP 21 2012

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

5 Lease Serial No. **BHL-10-069048**
NMLC 062170-A

6. If Indian, Allottee or Tribe Name

7 If Unit or CA Agreement, Name and No.

1a. Type of work: ☒ DRILL ☐ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2 Name of Operator SandRidge Expl. & Prod., LLC

8 Lease Name and Well No. **(309281)**
Parcell Federal #79 API Well No. **40775**
30-025-3a. Address 123 Robert S. Kerr Ave.
Oklahoma City, OK 731023b. Phone No. (include area code)
405-429-651810 Field and Pool, or Exploratory
Wantz; Abo **(62700)**

4 Location of Well (Report location clearly and in accordance with any State requirements *)

At surface 1405' FSL & 1265' FEL **Unit I**At proposed prod. zone 900' FSL & 765' FEL **Unit P**11 Sec., T R M. or Blk. and Survey or Area
Sec 8 T21S R38E14 Distance in miles and direction from nearest town or post office*
Approximately 5 miles NE of Eunice, NM12 County or Parish
Lea 13 State
NM15. Distance from proposed* location to nearest property or lease line, ft
(Also to nearest drig. unit line, if any) 1265'16 No. of acres in lease
170.6917 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: 8157'
TVD: 8100'20 BLM/BIA Bond No. on file
Nationwide: B005997
Statewide B00621121. Elevations (Show whether DF, KDB, RT, GL, etc.)
3563' GL22. Approximate date work will start*
09/01/201223. 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 LairdDate
07/20/2012

Title

Regulatory Analyst

Approved by (Signature)

/s/ Don Peterson

Name (Printed/Typed)

/s/ Don Peterson

Date

SEP 19 2012

Title

for 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.

APPROVAL FOR TWO YEARS

Title 18 USC Section 1001 and Title 43 USC 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

Parcell Federal #7

Surface Location: 1405' FSL, 1265' FEL, Unit I, Sec 8, T21S R38E, Lea County, New Mexico

Bottom Hole Location: 900' FSL, 765' FEL, Unit P, Sec 8, 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	1613'	Barren
c. Top of Salt	1678'	Barren
d. Base of Salt	2812'	Barren
e. Tansil	2813'	Barren
f. Yates	2936'	Oil/Gas
g. Seven Rivers	3168'	Barren
h. Queen	3533'	Barren
i. Grayburg	4135'	Oil
j. San Andres	4304'	Oil
k. Glorieta	5635'	Oil
l. Paddock	5675'	Barren
m. Blinbry	6103'	Oil
n. Tubb	6613'	Oil
o. Drinkard	6823'	Oil
p. Abo	7263'	Oil
q. Total Depth	8100' TVD 8157' 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 @ 1648' 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"	80-1648'	8-5/8"	0-1648'	24#	STC	J-55	New
7-7/8"	1648-8157'	5-1/2"	0-8157'	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>
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8-5/8"	1.78	3.82	6.17
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.

See
COA

6. MUD PROGRAM SUMMARY:

DEPTH (TVD)	HOLE SIZE	CASING SIZE	MUD WT. (ppg)	VISCOSITY (cp)	FLUID LOSS (cc)
0 – 1,648'	12-1/4"	8-5/8"	8.6 – 9.4 FW	31 – 33	NC
1,648' – 4,100'	7-7/8"	5-1/2"	10.0 Brine	28 – 29	NC
4,100' – 6,300'	7-7/8"	5-1/2"	10.0 Brine	30 – 31	15 – 10
6,300' – 8,100'	7- 7/8"	5-1/2"	10.0 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 (8157' MD)

Spectral Gamma Ray, Density / Resistivity – Surface casing to TD (8157' 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 181 degrees. H₂S monitoring equipment will be on location 24/7 during drilling operations.

10. Anticipated Starting Date and Duration of Operations:

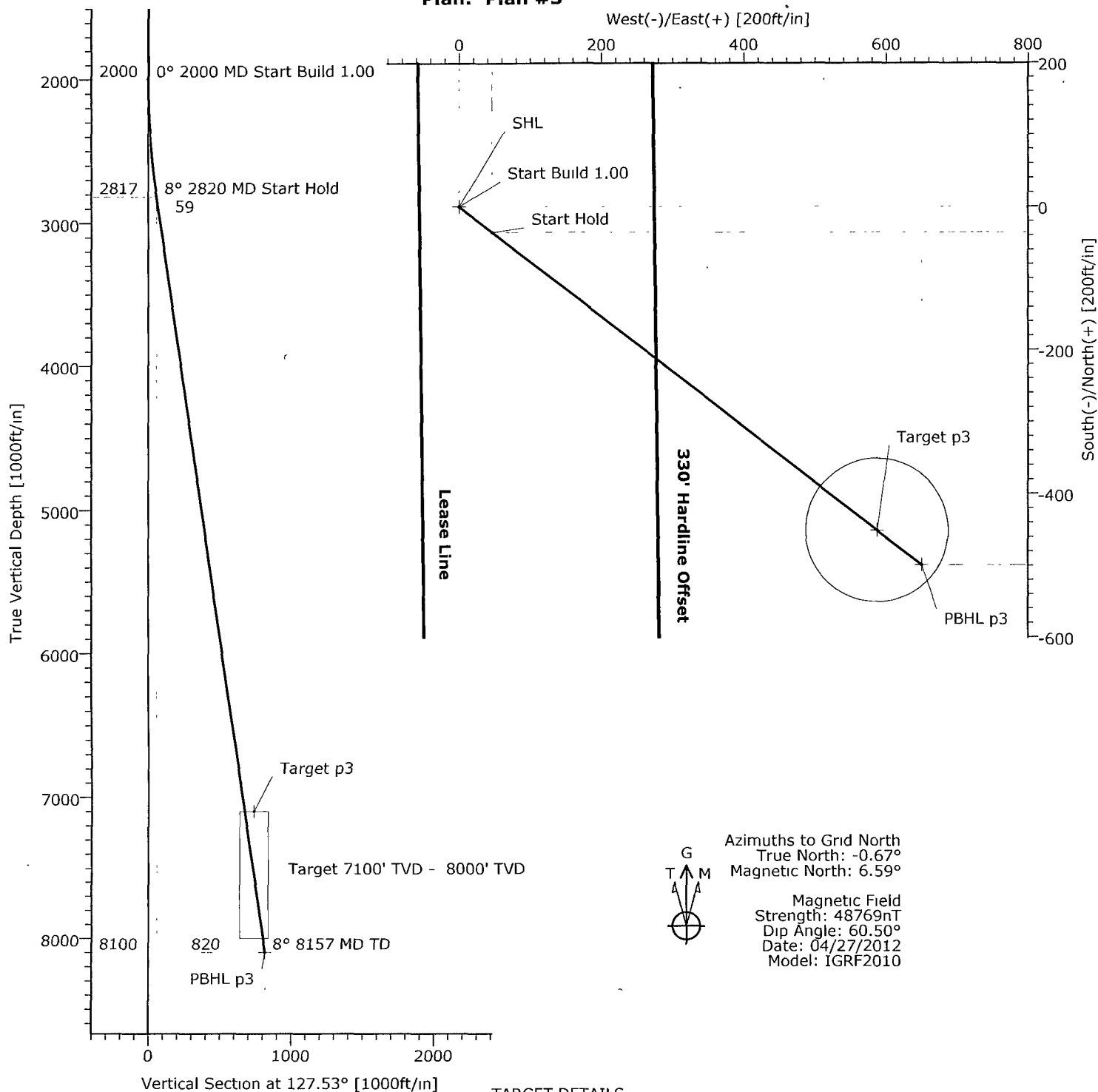
- Location construction will begin after the BLM and NMOCD have approved the APD. Anticipated spud date will be as soon after approval as rig is available. Move in operations and drilling is expected to take 15 days.
- If production casing is run, an additional 30 days will be required to complete well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



SANDRIDGE ENERGY
 Field: Lea County NME Nad 27
 Site: Parcel Federal #7
 Well: #7
 Wellpath: Original Hole
 Plan: Plan #3



Precision
 Directional Services



TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
SHL	0.00	0.00	0.00	544263.50	887242.70	32°29'24.086N103°04'38.855W		Point
Target p3	7100.00	-451.00	587.20	543812.50	887829.90	32°29'19.555N103°04'32.063W		Circle (Radius: 100)
PBHL p3	8100.00	-499.26	650.04	543764.24	887892.74	32°29'19.071N103°04'31.336W		Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	127.53	0.00	0.00	0.00	0.00	0.00	0.00	
2	2000.00	0.00	127.53	2000.00	0.00	0.00	0.00	0.00	0.00	
3	2819.79	8.20	127.53	2816.99	-35.66	46.43	1.00	127.53	58.55	
4	8157.34	8.20	127.53	8100.00	-499.26	650.04	0.00		819.64	PBHL p3

Plan Plan #3 (#7/Original Hole)

PRECISION DIRECTIONAL SERVICES, INC.

Precision Office: 713-435-6250

Created By: Michael Cabrera

Date: 06/19/2012

Precision Directional Services, Inc.

Planning Report

Company: SANDRIDGE ENERGY Field: Lea County NME Nad 27 Site: Parcell Federal #7 Well: #7 Wellpath: Original Hole	Date: 06/19/2012 Co-ordinate(NE) Reference: Well: #7, Grid North Vertical (TVD) Reference: 3563' GL + 13' KB 3576 0 Section (VS) Reference: Well (0.00N,0.00E,127.53Azi) Plan: Plan #3	Time: 10:35:16 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
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Site: Parcell Federal #7 Section 8, Township 21-S, Range 38-E Lea County, New Mexico			
Site Position: From: Map Position Uncertainty: 0.00 ft Ground Level: 3563.00 ft	Northing: 544263.50 ft Easting: 887242.70 ft	Latitude: 32 29 24.086 N Longitude: 103 4 38.855 W North Reference: Grid Grid Convergence: 0.67 deg	

Well: #7 Well Position: +N/-S 0.00 ft +E/-W 0.00 ft Position Uncertainty: 0.00 ft	Slot Name: Northing: 544263.50 ft Easting: 887242.70 ft Latitude: 32 29 24.086 N Longitude: 103 4 38.855 W
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Wellpath: Original Hole Current Datum: 3563' GL + 13' KB Magnetic Data: 04/27/2012 Field Strength: 48769 nT Vertical Section: Depth From (TVD) ft	Height 3576.00 ft +N/-S ft	Drilled From: Surface Tie-on Depth: 0.00 ft Above System Datum: Mean Sea Level Declination: 7.27 deg Mag Dip Angle: 60.50 deg +E/-W ft Direction deg
0.00	0.00	0.00 127.53

Plan: Plan #3 Principal: No	Date Composed: 06/19/2012 Version: 1 Tied-to: From Surface
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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	127.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	127.53	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2819.79	8.20	127.53	2816.99	-35.66	46.43	1.00	1.00	0.00	127.53	
8157.34	8.20	127.53	8100.00	-499.26	650.04	0.00	0.00	0.00	0.00	PBHL p3

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	127.53	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2100.00	1.00	127.53	2099.99	-0.53	0.69	0.87	1.00	1.00	0.00	
2200.00	2.00	127.53	2199.96	-2.13	2.77	3.49	1.00	1.00	0.00	
2300.00	3.00	127.53	2299.86	-4.78	6.23	7.85	1.00	1.00	0.00	
2400.00	4.00	127.53	2399.68	-8.50	11.07	13.96	1.00	1.00	0.00	
2500.00	5.00	127.53	2499.37	-13.28	17.29	21.80	1.00	1.00	0.00	
2600.00	6.00	127.53	2598.90	-19.12	24.89	31.39	1.00	1.00	0.00	
2700.00	7.00	127.53	2698.26	-26.01	33.87	42.71	1.00	1.00	0.00	
2800.00	8.00	127.53	2797.40	-33.96	44.22	55.76	1.00	1.00	0.00	
2819.79	8.20	127.53	2816.99	-35.66	46.43	58.55	1.00	1.00	0.00	
2900.00	8.20	127.53	2896.39	-42.63	55.50	69.99	0.00	0.00	0.00	
3000.00	8.20	127.53	2995.36	-51.32	66.81	84.24	0.00	0.00	0.00	
3100.00	8.20	127.53	3094.34	-60.00	78.12	98.50	0.00	0.00	0.00	
3200.00	8.20	127.53	3193.32	-68.69	89.43	112.76	0.00	0.00	0.00	
3300.00	8.20	127.53	3292.30	-77.37	100.74	127.02	0.00	0.00	0.00	
3400.00	8.20	127.53	3391.28	-86.06	112.05	141.28	0.00	0.00	0.00	
3500.00	8.20	127.53	3490.26	-94.74	123.36	155.54	0.00	0.00	0.00	

Precision Directional Services, Inc.

Planning Report

Company: SANDRIDGE ENERGY
Field: Lea County NME Nad 27
Site: Parcell Federal #7
Well: #7
Wellpath: Original Hole

Date: 06/19/2012 **Time:** 10:35:16
Co-ordinate(NE) Reference: Well: #7, Grid North
Vertical (TVD) Reference: 3563' GL + 13' KB 3576 0
Section (VS) Reference: Well (0.00N,0.00E,127.53Azi)
Plan: Plan #3

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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	8.20	127.53	3589.23	-103.43	134.66	169.80	0.00	0.00	0.00	
3700.00	8.20	127.53	3688.21	-112.11	145.97	184.06	0.00	0.00	0.00	
3800.00	8.20	127.53	3787.19	-120.80	157.28	198.32	0.00	0.00	0.00	
3900.00	8.20	127.53	3886.17	-129.49	168.59	212.58	0.00	0.00	0.00	
4000.00	8.20	127.53	3985.15	-138.17	179.90	226.84	0.00	0.00	0.00	
4100.00	8.20	127.53	4084.12	-146.86	191.21	241.10	0.00	0.00	0.00	
4200.00	8.20	127.53	4183.10	-155.54	202.52	255.36	0.00	0.00	0.00	
4300.00	8.20	127.53	4282.08	-164.23	213.83	269.61	0.00	0.00	0.00	
4400.00	8.20	127.53	4381.06	-172.91	225.13	283.87	0.00	0.00	0.00	
4500.00	8.20	127.53	4480.04	-181.60	236.44	298.13	0.00	0.00	0.00	
4600.00	8.20	127.53	4579.01	-190.28	247.75	312.39	0.00	0.00	0.00	
4700.00	8.20	127.53	4677.99	-198.97	259.06	326.65	0.00	0.00	0.00	
4800.00	8.20	127.53	4776.97	-207.66	270.37	340.91	0.00	0.00	0.00	
4900.00	8.20	127.53	4875.95	-216.34	281.68	355.17	0.00	0.00	0.00	
5000.00	8.20	127.53	4974.93	-225.03	292.99	369.43	0.00	0.00	0.00	
5100.00	8.20	127.53	5073.91	-233.71	304.30	383.69	0.00	0.00	0.00	
5200.00	8.20	127.53	5172.88	-242.40	315.60	397.95	0.00	0.00	0.00	
5300.00	8.20	127.53	5271.86	-251.08	326.91	412.21	0.00	0.00	0.00	
5400.00	8.20	127.53	5370.84	-259.77	338.22	426.47	0.00	0.00	0.00	
5500.00	8.20	127.53	5469.82	-268.45	349.53	440.73	0.00	0.00	0.00	
5600.00	8.20	127.53	5568.80	-277.14	360.84	454.98	0.00	0.00	0.00	
5700.00	8.20	127.53	5667.77	-285.83	372.15	469.24	0.00	0.00	0.00	
5800.00	8.20	127.53	5766.75	-294.51	383.46	483.50	0.00	0.00	0.00	
5900.00	8.20	127.53	5865.73	-303.20	394.76	497.76	0.00	0.00	0.00	
6000.00	8.20	127.53	5964.71	-311.88	406.07	512.02	0.00	0.00	0.00	
6100.00	8.20	127.53	6063.69	-320.57	417.38	526.28	0.00	0.00	0.00	
6200.00	8.20	127.53	6162.67	-329.25	428.69	540.54	0.00	0.00	0.00	
6300.00	8.20	127.53	6261.64	-337.94	440.00	554.80	0.00	0.00	0.00	
6400.00	8.20	127.53	6360.62	-346.63	451.31	569.06	0.00	0.00	0.00	
6500.00	8.20	127.53	6459.60	-355.31	462.62	583.32	0.00	0.00	0.00	
6600.00	8.20	127.53	6558.58	-364.00	473.93	597.58	0.00	0.00	0.00	
6700.00	8.20	127.53	6657.56	-372.68	485.23	611.84	0.00	0.00	0.00	
6800.00	8.20	127.53	6756.53	-381.37	496.54	626.10	0.00	0.00	0.00	
6900.00	8.20	127.53	6855.51	-390.05	507.85	640.36	0.00	0.00	0.00	
7000.00	8.20	127.53	6954.49	-398.74	519.16	654.61	0.00	0.00	0.00	
7100.00	8.20	127.53	7053.47	-407.42	530.47	668.87	0.00	0.00	0.00	
7147.01	8.20	127.53	7100.00	-411.51	535.79	675.58	0.00	0.00	0.00	Target p3
7200.00	8.20	127.53	7152.45	-416.11	541.78	683.13	0.00	0.00	0.00	
7300.00	8.20	127.53	7251.42	-424.80	553.09	697.39	0.00	0.00	0.00	
7400.00	8.20	127.53	7350.40	-433.48	564.40	711.65	0.00	0.00	0.00	
7500.00	8.20	127.53	7449.38	-442.17	575.70	725.91	0.00	0.00	0.00	
7600.00	8.20	127.53	7548.36	-450.85	587.01	740.17	0.00	0.00	0.00	
7700.00	8.20	127.53	7647.34	-459.54	598.32	754.43	0.00	0.00	0.00	
7800.00	8.20	127.53	7746.32	-468.22	609.63	768.69	0.00	0.00	0.00	
7900.00	8.20	127.53	7845.29	-476.91	620.94	782.95	0.00	0.00	0.00	
8000.00	8.20	127.53	7944.27	-485.59	632.25	797.21	0.00	0.00	0.00	
8100.00	8.20	127.53	8043.25	-494.28	643.56	811.47	0.00	0.00	0.00	
8157.34	8.20	127.53	8100.00	-499.26	650.04	819.64	0.00	0.00	0.00	PBHL p3

Precision Directional Services, Inc.

Planning Report

Company: SANDRIDGE ENERGY
Field: Lea County NME Nad 27
Site: Parcell Federal #7
Well: #7
Wellpath: Original Hole

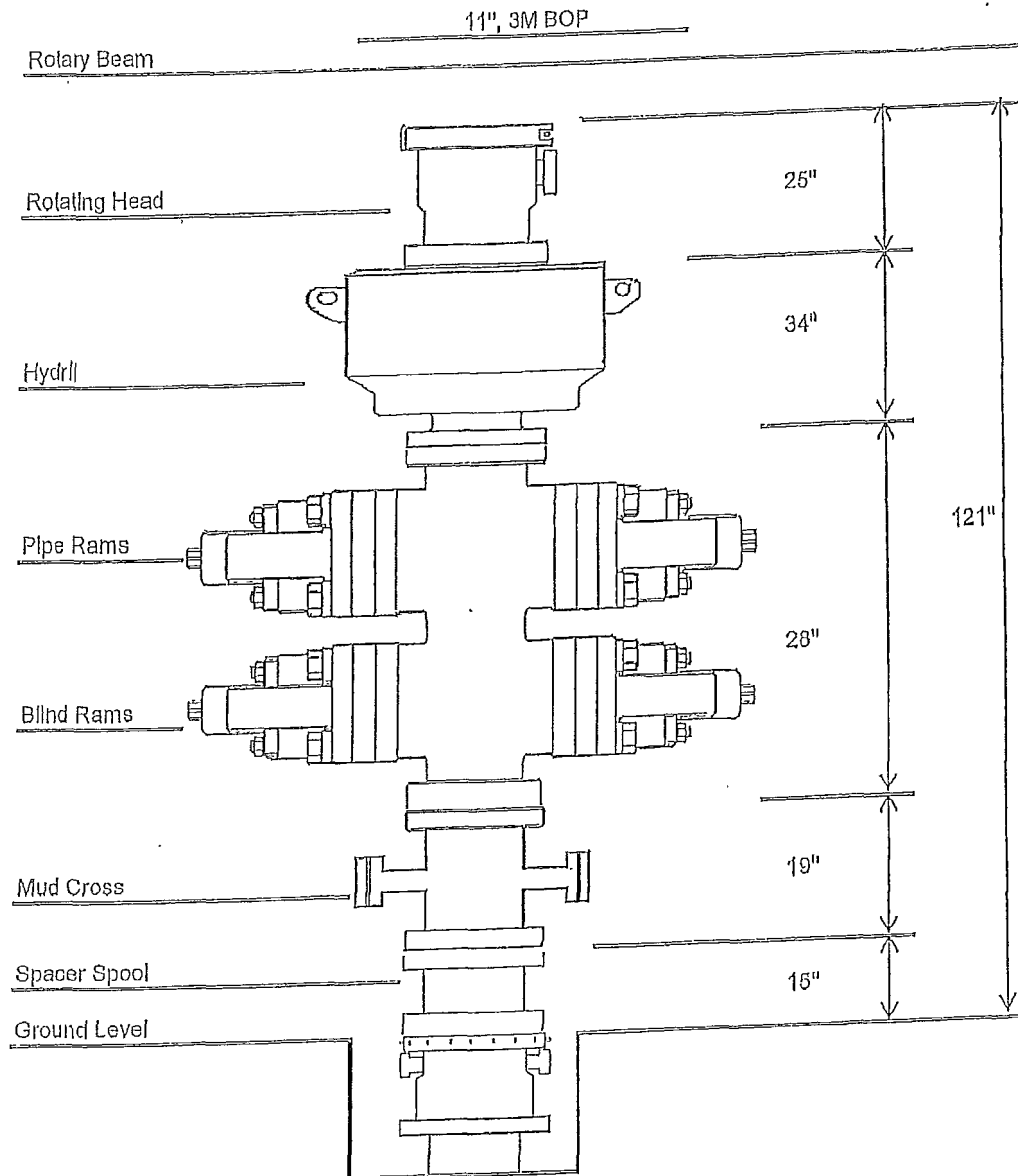
Date: 06/19/2012 **Time:** 10:35:16
Co-ordinate(NE) Reference: Well: #7, Grid North
Vertical (TVD) Reference: 3563' GL + 13' KB 3576.0
Section (VS) Reference: Well (0.00N,0.00E,127.53Azi)
Plan: Plan #3

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Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec	<--- Longitude ---> Deg Min Sec
SHL			0.00	0.00	0.00	544263.50	887242.70	32 29 24.086 N	103 4 38.855 W
Target p3	-Circle (Radius: 100)		7100.00	-451.00	587.20	543812.50	887829.90	32 29 19.555 N	103 4 32.063 W
	-Plan out by 64 83 at		7100.00	-411.51	535.79	543851.99	887778.49	32 29 19.952 N	103 4 32.658 W
PBHL p3	-Plan hit target		8100.00	-499.26	650.04	543764.24	887892.74	32 29 19.071 N	103 4 31.336 W

Lariat 17 BOP



Attachment to Exhibit #1
NOTES REGARDING BLOWOUT PREVENTERS
SandRidge Exploration and Production, LLC
Parcell Federal #7

Surface Location: 1405' FSL, 1265' FEL, Unit I, Sec 8, T21S, R38E, Lea Coutny, New Mexico
Bottom Hole Location: 900' FSL, 765' FEL, Unit P, Sec 8, 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

