

NOV 16 2012
(September 2004)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB No 1004-0135
Expires January 31, 2004**RECEIVED SUNDRY NOTICES AND REPORTS ON WELLS***Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

1 Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5 Lease Serial No LC062170-A BHL: LC069048
2 Name of Operator SandRidge Expl. & Prod., LLC		6 If Indian, Allottee or Tribe Name
3a Address 123 Robert S Kerr Ave., OKC, OK 73102	3b Phone No (include area code) 405-429-6518	7 If Unit or CA/Agreement, Name and/or No
4 Location of Well (Footage, Sec., T, R, M., or Survey Description) SHL: 1405' FSL & 1265' FEL of Sec 8 - 21S - 38E BHL: 330' FSL & 330' FEL		8 Well Name and No. Parcell Federal #7
		9 API Well No 30-02540775
		10 Field and Pool, or Exploratory Area Wantz; Abo
		11 County or Parish, State Lea, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input checked="" type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input checked="" type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Change the BHL
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

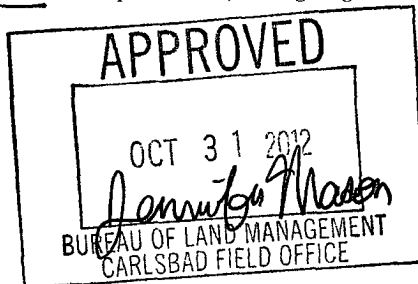
- 13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

SandRidge Expl. & Prod., LLC respectfully requests the right to move the bottom hole location (BHL) from the approved BHL (900' FSL & 765' FEL) on the APD signed 9/9/12 to a new location to be at 330' FSL & 330' FEL. An updated C102, Drilling Program & Directional Plan have been attached.

Thank you for your time.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

original OCD still stands



14 I hereby certify that the foregoing is true and correct Name (Printed/Typed) Spence Laird		Title Regulatory Analyst
Signature <i>Spence Laird</i>		Date 10/16/2012
THIS SPACE FOR FEDERAL OR STATE OFFICE USE		

Approved by <i>Spence Laird</i>	Title	Date
Conditions of approval, if any, are attached. Approval of this notice 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.	Office	

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

(Instructions on page 2)

NOV 05 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: 330' FSL, 330' 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	7650' TVD	
	7825' 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"	1648-7825'	5-1/2"	0-7825'	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	3.82	6.17
5-1/2"	1.58	1.95	2.60

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 ECONOCЕМ™ 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 EXTENDACЕМ™ System + 5 #/sk Gilsonite, 12.2 ppg, Yield 2.26 ft³/sk, Mixing fluid:12.07 gal/sk.

Tail: 700 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 – 1,648'	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' – 7,650'	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:

Gamma Ray / Neutron – Surface to TD (7825' MD)

Spectral Gamma Ray, Density / Resistivity – Surface casing to TD (7825' MD)

See
CSA

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.

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

HOBBS OCD

NOV 02 2012

RECEIVED

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

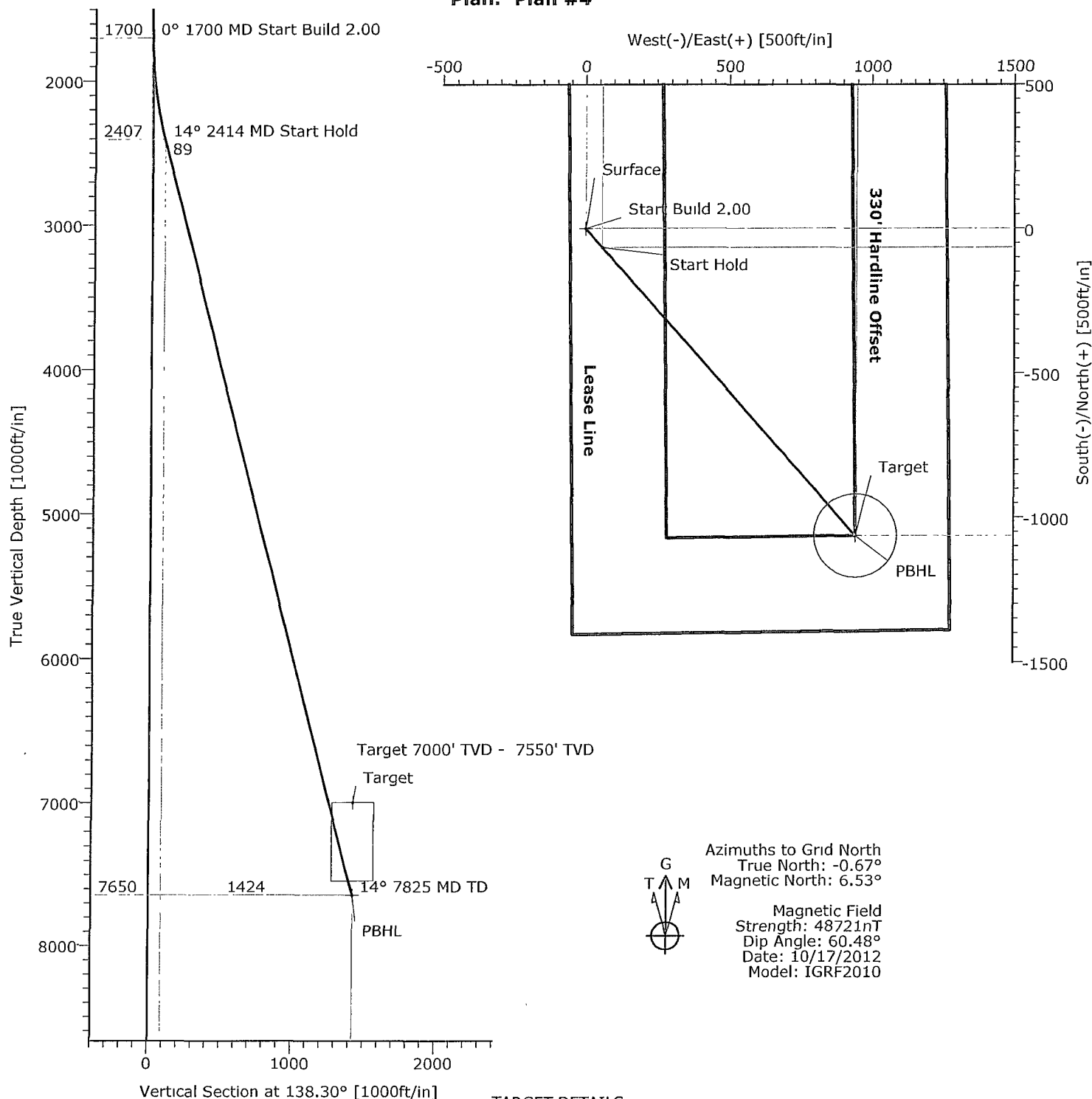
API Number 30-025 - 40775	Pool Code 62700	Pool Name Wantz; Abo
Property Code	Property Name PARCELL FEDERAL	Well Number 7
OGRID No. 270265	Operator Name SANDRIDGE E & P, LLC	Elevation 3563'

Surface Location									
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	8	21-S	38-E		1405	SOUTH	1265	EAST	LEA

Bottom Hole Location If Different From Surface									
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	8	21-S	38-E		330	SOUTH	330	EAST	LEA
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>CORNER COORDINATES TABLE</p> <p>(A) - Y=545498.5 N, X=887172.8 E</p> <p>(B) - Y=545514.1 N, X=888493.2 E</p> <p>(C) - Y=542858.0 N, X=887203.2 E</p> <p>(D) - Y=542874.5 N, X=888523.8 E</p>		<p>DETAIL</p>		<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Spence Laird</i> 10/16/12 Signature Date</p> <p>Spence Laird Printed Name</p> <p>slaird@sandridgeenergy.com E-mail Address</p>	
<p>GEODETIC COORDINATES NAD 27 NME</p> <p>SURFACE LOCATION Y=544263.5 N X=887242.7 E</p> <p>LAT.=32.490024' N LONG.=103.077459' W</p> <p>BOTTOM HOLE LOCATION Y=543200.3 N X=888190.0 E</p>		<p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>MAY 31, 2011</p> <p>Date of Survey</p> <p>Signature & Seal of Professional Surveyor.</p> <p><i>Ronald J. Eidson</i> 09/27/2012 Certificate Number 3239</p> <p>ACR Rel: 12.13.0011 JWSC W O: 12.13.1653</p>			



TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Surface	0.00	0.00	0.00	544263.50	887242.70	32°29'24.086N	103°04'38.855W	Point
Target	7000.00	-1063.20	947.30	543200.30	888190.00	32°29'13.457N	103°04'27.944W	Circle (Radius: 145)
PBHL	7650.00	-1062.93	947.06	543200.57	888189.76	32°29'13.459N	103°04'27.947W	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	138.30	0.00	0.00	0.00	0.00	0.00	0.00	
2	1700.00	0.00	138.30	1700.00	0.00	0.00	0.00	0.00	0.00	
3	2414.28	14.29	138.30	2406.91	-66.14	58.93	2.00	138.30	88.59	
4	7824.68	14.29	138.30	7650.00	-1062.93	947.06	0.00	0.00	1423.64	PBHL

Precision Directional Services, Inc

Planning Report

Company: SANDRIDGE ENERGY Field: Lea County NME'27 Site: Parcell Federal #7 Well: #7 Wellpath: Original Hole	Date: 10/17/2012 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,138.30Azi) Plan: Plan #4	Page: 1
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Field: Lea County NME'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: Parcell Federal #7 Section 8, Township 21-S, Range 38-E Lea County, New Mexico			
Site Position:	Northing:	Latitude:	32 29 24.086 N
From: Map	Easting:	Longitude:	103 4 38.855 W
Position Uncertainty: 0.00 ft		North Reference:	Grid
Ground Level: 3563.00 ft		Grid Convergence:	0.67 deg

Well: #7	Slot Name:
Well Position: +N/-S 0.00 ft	Northing: 544263.50 ft
+E/-W 0.00 ft	Easting: 887242.70 ft
Position Uncertainty: 0.00 ft	Latitude: 32 29 24.086 N
	Longitude: 103 4 38.855 W

Wellpath: Original Hole	Drilled From: Surface
Current Datum: 3563' GL + 13' KB	Tie-on Depth: 0.00 ft
Magnetic Data: 10/17/2012	Above System Datum: Mean Sea Level
Field Strength: 48721 nT	Declination: 7.21 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.48 deg
ft	+N/-S
	+E/-W
	Direction
	deg
0 00	0.00 0.00 138.30

Plan: Plan #4	Date Composed: 10/17/2012
Principal: No	Version: 1
	Tied-to: From Surface

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	138.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1700.00	0.00	138.30	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2414.28	14.29	138.30	2406.91	-66.14	58.93	2.00	2.00	0.00	138.30	
7824.68	14.29	138.30	7650.00	-1062.93	947.06	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
1700.00	0.00	138.30	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1800.00	2.00	138.30	1799.98	-1.30	1.16	1.75	2.00	2.00	0.00	
1900.00	4.00	138.30	1899.84	-5.21	4.64	6.98	2.00	2.00	0.00	
2000.00	6.00	138.30	1999.45	-11.72	10.44	15.69	2.00	2.00	0.00	
2100.00	8.00	138.30	2098.70	-20.82	18.55	27.88	2.00	2.00	0.00	
2200.00	10.00	138.30	2197.47	-32.50	28.95	43.52	2.00	2.00	0.00	
2300.00	12.00	138.30	2295.62	-46.74	41.65	62.60	2.00	2.00	0.00	
2400.00	14.00	138.30	2393.06	-63.54	56.61	85.10	2.00	2.00	0.00	
2414.28	14.29	138.30	2406.91	-66.14	58.93	88.59	2.00	2.00	0.00	
2500.00	14.29	138.30	2489.97	-81.93	73.00	109.74	0.00	0.00	0.00	
2600.00	14.29	138.30	2586.88	-100.36	89.42	134.41	0.00	0.00	0.00	
2700.00	14.29	138.30	2683.79	-118.78	105.83	159.09	0.00	0.00	0.00	
2800.00	14.29	138.30	2780.69	-137.20	122.25	183.76	0.00	0.00	0.00	
2900.00	14.29	138.30	2877.60	-155.63	138.66	208.44	0.00	0.00	0.00	
3000.00	14.29	138.30	2974.51	-174.05	155.08	233.12	0.00	0.00	0.00	
3100.00	14.29	138.30	3071.42	-192.47	171.49	257.79	0.00	0.00	0.00	
3200.00	14.29	138.30	3168.33	-210.90	187.91	282.47	0.00	0.00	0.00	

Precision Directional Services, Inc

Planning Report

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

Date: 10/17/2012
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,138.30Azi)
Plan: Plan #4

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
3300.00	14.29	138.30	3265.23	-229.32	204.32	307.14	0.00	0.00	0.00	
3400.00	14.29	138.30	3362.14	-247.75	220.74	331.82	0.00	0.00	0.00	
3500.00	14.29	138.30	3459.05	-266.17	237.15	356.49	0.00	0.00	0.00	
3600.00	14.29	138.30	3555.96	-284.59	253.57	381.17	0.00	0.00	0.00	
3700.00	14.29	138.30	3652.86	-303.02	269.98	405.85	0.00	0.00	0.00	
3800.00	14.29	138.30	3749.77	-321.44	286.40	430.52	0.00	0.00	0.00	
3900.00	14.29	138.30	3846.68	-339.86	302.81	455.20	0.00	0.00	0.00	
4000.00	14.29	138.30	3943.59	-358.29	319.23	479.87	0.00	0.00	0.00	
4100.00	14.29	138.30	4040.50	-376.71	335.65	504.55	0.00	0.00	0.00	
4200.00	14.29	138.30	4137.40	-395.13	352.06	529.22	0.00	0.00	0.00	
4300.00	14.29	138.30	4234.31	-413.56	368.48	553.90	0.00	0.00	0.00	
4400.00	14.29	138.30	4331.22	-431.98	384.89	578.57	0.00	0.00	0.00	
4500.00	14.29	138.30	4428.13	-450.40	401.31	603.25	0.00	0.00	0.00	
4600.00	14.29	138.30	4525.03	-468.83	417.72	627.93	0.00	0.00	0.00	
4700.00	14.29	138.30	4621.94	-487.25	434.14	652.60	0.00	0.00	0.00	
4800.00	14.29	138.30	4718.85	-505.68	450.55	677.28	0.00	0.00	0.00	
4900.00	14.29	138.30	4815.76	-524.10	466.97	701.95	0.00	0.00	0.00	
5000.00	14.29	138.30	4912.67	-542.52	483.38	726.63	0.00	0.00	0.00	
5100.00	14.29	138.30	5009.57	-560.95	499.80	751.30	0.00	0.00	0.00	
5200.00	14.29	138.30	5106.48	-579.37	516.21	775.98	0.00	0.00	0.00	
5300.00	14.29	138.30	5203.39	-597.79	532.63	800.66	0.00	0.00	0.00	
5400.00	14.29	138.30	5300.30	-616.22	549.04	825.33	0.00	0.00	0.00	
5500.00	14.29	138.30	5397.20	-634.64	565.46	850.01	0.00	0.00	0.00	
5600.00	14.29	138.30	5494.11	-653.06	581.87	874.68	0.00	0.00	0.00	
5700.00	14.29	138.30	5591.02	-671.49	598.29	899.36	0.00	0.00	0.00	
5800.00	14.29	138.30	5687.93	-689.91	614.70	924.03	0.00	0.00	0.00	
5900.00	14.29	138.30	5784.84	-708.33	631.12	948.71	0.00	0.00	0.00	
6000.00	14.29	138.30	5881.74	-726.76	647.53	973.39	0.00	0.00	0.00	
6100.00	14.29	138.30	5978.65	-745.18	663.95	998.06	0.00	0.00	0.00	
6200.00	14.29	138.30	6075.56	-763.61	680.37	1022.74	0.00	0.00	0.00	
6300.00	14.29	138.30	6172.47	-782.03	696.78	1047.41	0.00	0.00	0.00	
6400.00	14.29	138.30	6269.37	-800.45	713.20	1072.09	0.00	0.00	0.00	
6500.00	14.29	138.30	6366.28	-818.88	729.61	1096.76	0.00	0.00	0.00	
6600.00	14.29	138.30	6463.19	-837.30	746.03	1121.44	0.00	0.00	0.00	
6700.00	14.29	138.30	6560.10	-855.72	762.44	1146.11	0.00	0.00	0.00	
6800.00	14.29	138.30	6657.00	-874.15	778.86	1170.79	0.00	0.00	0.00	
6900.00	14.29	138.30	6753.91	-892.57	795.27	1195.47	0.00	0.00	0.00	
7000.00	14.29	138.30	6850.82	-910.99	811.69	1220.14	0.00	0.00	0.00	
7100.00	14.29	138.30	6947.73	-929.42	828.10	1244.82	0.00	0.00	0.00	
7153.94	14.29	138.30	7000.00	-939.36	836.96	1258.13	0.00	0.00	0.00	Target
7200.00	14.29	138.30	7044.64	-947.84	844.52	1269.49	0.00	0.00	0.00	
7300.00	14.29	138.30	7141.54	-966.27	860.93	1294.17	0.00	0.00	0.00	
7400.00	14.29	138.30	7238.45	-984.69	877.35	1318.84	0.00	0.00	0.00	
7500.00	14.29	138.30	7335.36	-1003.11	893.76	1343.52	0.00	0.00	0.00	
7600.00	14.29	138.30	7432.27	-1021.54	910.18	1368.20	0.00	0.00	0.00	
7700.00	14.29	138.30	7529.17	-1039.96	926.59	1392.87	0.00	0.00	0.00	
7800.00	14.29	138.30	7626.08	-1058.38	943.01	1417.55	0.00	0.00	0.00	
7824.68	14.29	138.30	7650.00	-1062.93	947.06	1423.64	0.00	0.00	0.00	PBHL

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Sandridge Explo & Prod
LEASE NO.:	LC069048
WELL NAME & NO.:	7 Parcell Federal
SURFACE HOLE FOOTAGE:	1405' FSL & 1265' FEL
BOTTOM HOLE FOOTAGE:	330' FSL & 330' FEL
LOCATION:	Section 8, T.21 S., R.38 E., NMPM
COUNTY:	Lea County, New Mexico

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

☒ **Lea County**

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 393-3612

1. A Hydrogen Sulfide (H₂S) Drilling Plan should be activated 500 feet prior to drilling into the **Blinberry** formation. **As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.**
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**
3. **The record of the drilling rate along with the GR/N well log run from TD to surface shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.**

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possible lost circulation in the San Andres and Glorietta formations.

1. **The 8-5/8 inch surface casing shall be set at approximately 1648 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **5-1/2** inch production casing is:

☒ Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Additional cement may be required – excess calculates to 23%.**

3. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.
3. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer.**
 - c. The results of the test shall be reported to the appropriate BLM office.
 - d. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
 - e. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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