RECEIVEDSUNDRY	UNITED STATE DEPARTMENT OF THE BUREAU OF LAND MAN NOTICES AND RE his form for proposals ell. Use Form 3160-3 (	EINTERIOR NAGEMENT PORTS ON WE to drill or to re-	enter an	FORM APPROVED OMB No 1004-0135 Expires January 31, 2004  5 Lease Serial No LC062170-A  6 If Indian, Allottee or Tribe Name
SUBMIT IN TR	IPLICATE- Other inst	ructions on reve	rse side.	7 If Unit or CA/Agreement, Name and/or No
l Type of Well  ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	Gas Well□□ Other		······································	8 Well Name and No
2 Name of Operator SandRidge F	Expl. & Prod., LLC	/	***	Parcell Federal #5  9 API Well No
3a Address 123 Robert S Kerr Ave., OKC		3b Phone No (included 405-429-6518	le area code)	30-025-40759  10 Field and Pool, or Exploratory Area
4 Location of Well (Footage, Sec.,	· · · · · · · · · · · · · · · · · · ·			Wantz; Abo
SHL: 1515' FSL & 1275' FEI BHL: 2310' FSL & 330' FEL	• •		:	11 County or Parish, State  Lea, NM
12. CHECK A	PPROPRIATE BOX(ES) TO	INDICATE NATU	RE OF NOTICE, R	REPORT, OR OTHER DATA
TYPE OF SUBMISSION		TY	PE OF ACTION	
If the proposal is to deepen dire Attach the Bond under which it following completion of the invitesting has been completed. Fit determined that the site is ready SandRidge Expl. & Prod., 990' FEL) on the APD signare been attached.  Thank you for your time.  SEE ATTACH CONDITION:	ectionally or recomplete horizontal the work will be performed or proviously of perations. If the operation half Abandonment Notices shall be for final inspection.)  LLC respectfully requests the ned 9/18/12 to a new location of the period	ly, give subsurface location de the Bond No. on file results in a multiple comfiled only after all require eright to move the both to be at 2310' FSL & 3	ons and measured and trubuth BLM/BIA Required pletion or recompletion rements, including reclamite them hole location (B. 130' FEL. An updated	Well Integrity  ✓ Other Change the BHL  bandon
14 I hereby certify that the fore Name (Printed/Typed) Spence Laird	off Stil Star		CARLSBAD F	FIELD OFFICE
Signature Sha	16.	Date	1	10/16/2012
- m	THIS SPACE FOR		- <del>11-</del>	
Approved by  Conditions of approval, if any, are a certify that the applicant holds legal which would entitle the applicant to	or equitable title to these rights one one or conduct operations thereon	does not warrant or the subject lease	Office	Date
States any false, fictitious or fraudul	ent statements or representations	crime for any person ki as to any matter within it	nowingly and willfully t s jurisdiction	to make to any department or agency of the United

(Instructions on page 2)

### DRILLING PROGRAM

# SandRidge Exploration and Production, LLC Parcell Federal #5

Surface Location: 1515' FSL, 1275' FEL, Unit I, Sec 8, T21S R38E, Lea County, New Mexico Bottom Hole Location: 2310' FSL, 330' FEL, Unit I, 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	1609'	Barren
c.	Top of Salt	1674'	Barren
d.	Base of Salt	2791'	Barren
e.	Tansil	2790'	Barren
f.	Yates	2922'	Oil/Gas
g.	Seven Rivers	3165'	Barren
h.	Queen	3496'	Barren
i.	Grayburg	4135'	Oil
j.	San Andres	4305'	Oil
k.	Glorieta	5566'	Oil
1.	Paddock	5675'	Barren
m.	Blinebry	6025'	Oil
n.	Tubb	6618'	Oil
0.	Drinkard	6821'	Oil
p.	Abo	7237'	Oil
q.	Total Depth	7650' TVD	
		7781' 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>	OD Csg	Casing Interval	<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"	1644-7781'	5-1/2"	0-7781'	17#	LTC	L-80	New

### **Design Parameter Factors:**

<u>Casing Size</u>	Collapse Design Factor	Burst Design Factor	Tension Design Factor
8-5/8"	1.78	3.83	6.18
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 ½" 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 ft^3/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 ft^3/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 ft^3/sk, Mixing fluid:12.07 gal/sk.

Tail: 700 sacks (25% excess) Class H (50:50) Poz Versacem <sup>™</sup> System + 0.3% Halad <sup>®</sup>-9 + 3% Salt + 5 lbm/sk Gilsonite, 14.4 ppg, Yield: 1.25 ft<sup>3</sup>/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"	10.0 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. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- c. 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 (7781' MD)
Spectral Gamma Ray, Density / Resistivity – Surface casing to TD (8163' 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 degrees. H2S monitoring equipment will be on location 24/7 during drilling operations.

### 10. Anticipated Starting Date and Duration of Operations:

- a. 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.
- b. 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 Rto 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. NOV 02 2012 Santa Fe, New Mexico 87505

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

XAMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name	
30-025-40	759 62700	Wantz; A	460
Property Code		Property Name	Well Number
	PARC	CELL FEDERAL	5
OGRID No.		Operator Name	Elevation
270265	SANDR	CIDGE E & P, LLC	3564'

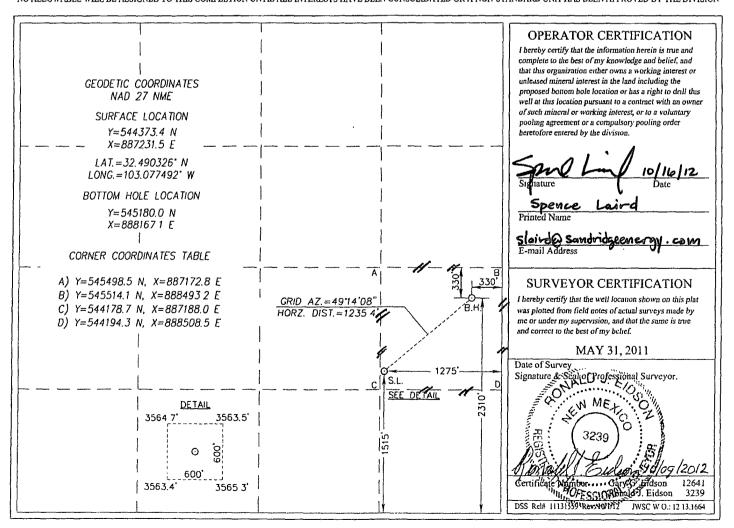
#### Surface Location

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		1515	SOUTH	1275	EAST	LEA

### Bottom Hole Location If Different From Surface

*	UL or lot No.	Section 8	Township 21-S	Range 38-E	Lot Idn	Feet from the 2310	North/South line SOUTH	Feet from the 330	East/West line EAST	County LEA	X
	Dedicated Acres	Joint or	Infill	Consolidation C	ode Ord	er 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



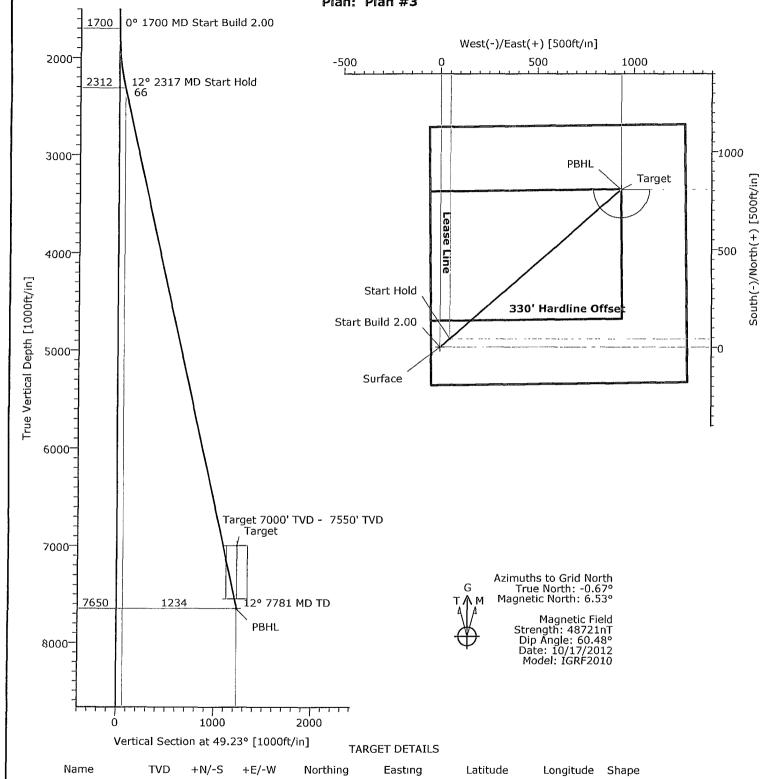
# THE POWER OF US

### SANDRIDGE ENERGY

Field: Lea County NME'27 Site: Parcell Federal #5

Well: #5
Wellpath: Original Hole
Plan: Plan #3





### SECTION DETAILS

887231.50 32°29'25.175N103°04'38.971W 888167.10 32°29'33.046N103°04'27.938W 888166.35 32°29'33.039N103°04'27.947W

Sec	c MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1 2 3	0.00 1700.00 2317.20	0.00 0.00 12.34	49.23 49.23 49.23	0.00 1700.00 2312.44	0.00 0.00 43.25	0.00 0.00 50.16	0.00 0.00 2.00	0.00 0.00 49.23	0.00 0.00 66.23	
4	7781.08	12.34	49.23	7650.00	805.95	934.85	0.00	0.00	1234.30	PBHL

Plan Plan #3 (#5/Original Hole) reated By Andrew Pigford Date 10/17/2012

Surface

Target PBHL

0.00 7000.00

7650.00

0.00

806.60

805.95

0.00

935.60 934.85

544373.40

545180.00

545179.35

PRECISION DIRECTIONAL SERVICES, INC.

Precision Office: 713-435-6250

Circle (Radius: 145)

Point

## Precision Directional Services, Inc Planning Report

Field:   Lea County   MME'27   Lea County   New Mexico	Field: Site: Well:	SANDRIDGE Lea County Ni Parcell Federa #5 Original Hole	IME'27				Date: 10/17/ Co-ordinate(N. Vertical (TVD) Section (VS) Re Plan:	E) Reference:	: 3564' G	5, Grid Noi L + 13' KE 00N,0.00E		Page:	1
Site:   Parcell Federal #5   Section 8, Township 21-S, Range 38-E   Lea Courty, New Mexico   Site Position:   Northing:   544373.40   ft   Latitude:   32   29   25.175   N	Map Systen Geo Datum	Lea County, m: US State Pla i: NAD27 (Cla	, New Mexic ane Coordi arke 1866)		1927		Coordinate	e System:	Well C	Centre	stern Zone		
Well: #5   Slot Name:     Well Position: +N/-S   0.00 ft   Northing: 544373.40 ft   Latitude: 32 29 25.175 N   Position Uncertainty: 0.00 ft   Easting: 887231.50 ft   Longitude: 103 4 38.971 W   Position Uncertainty: 0.00 ft   Easting: 887231.50 ft   Longitude: 103 4 38.971 W   Position Uncertainty: 0.00 ft   Wellpath: Original Hole	Site: Site Position From: Position Un	Parcell Fede Section 8, To Lea County, n: Map accrtainty:	eral #5 ownship 2 New Mexid	co North Eastin O ft	ning: 544		t Latitude: t Longitude: North Refe	: : 10	32 29 2	25.175 N 38.971 W Grid	<b>9</b> 9		
Current Datum:   3564 GL + 13 KB   Height   3577.00   ft   Above System Datum:   Mean Sea Level   Mean Sea	Well Positio	on: +N/-5 +E/-\	W 0.00	0 ft Eastin			Slot Name:	:		25.175 N	5		
Plan #3   Date Composed: 10/17/2012   Version: 1   Tied-to: From Surface	Current Dat Magnetic Da Field Streng	itum: 3564 lata: gth: ction: Depth	F GL + 13'   10/17/2012 4872' I From (TV	2 1 nT	+N/-S		Tie-on Dep Above Syst Declination Mag Dip A +E/-W	oth: em Datum: 1:	Mean S Directi	0.00 ft Sea Level 7.21 de 60.48 de	J		
Principal: No     Version: Tied-to:   Tied-to:   From Surface		<del>-</del>					0.00	<del></del>					
MD         Incl deg         Azim deg         TVD ft         +N/-S ft         +E/-W deg/100ft         DLS deg/100ft         Build deg/100ft         Turn deg/100ft         TFO deg/100ft         Target deg/100ft           0.00         0.00         49.23         0.00					1000		Version:	osed:	1		.,,,		
ft         deg         deg         ft         ft         ft         deg/100ft         deg/100ft         deg/100ft         deg           0.00 <t< td=""><td>Plan Section</td><td>ı Information</td><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Plan Section	ı Information				_							
1700.00 0.00 49.23 1700.00 0.00 0.00 0.00 0.00 0.00 0.00 0											Target		
•	1700.00 2317.20	0.00 12 34	49.23 49.23	1700.00 2312.44	0.00 43.25	0.00 50.16	0.00 2 00	0.00 2.00	0.00 0.00	0.00 49.23	PBHL		_
	Survey	Y1	A -d,	7577)	- N1/ Q	· F/ W	770	DIC	2-34	T	Tool/Co		_

MD ft	Incl deg	<b>Azim</b> 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	49.23	1700.00	0 00	0.00	0.00	0.00	0.00	0.00	
1800.00	2.00	49.23	1799.98	1.14	1.32	1.75	2.00	2.00	0.00	
1900 00	4.00	49.23	1899 84	4 56	5.29	6.98	2.00	2.00	0.00	
2000.00	6.00	49.23	1999.45	10.25	11.89	15.69	2.00	2.00	0.00	
2100.00	8.00	49.23	2098.70	18.20	21.12	27.88	2.00	2.00	0.00	
2200.00	10 00	49.23	2197.47	28.42	32 96	43.52	2.00	2.00	0 00	
2300.00	12 00	49.23	2295.62	40.88	47.41	62.60	2.00	2.00	0.00	
2317 20	12.34	49.23	2312.44	43.25	50.16	66.23	2.00	2.00	0.00	
2400.00	12.34	49.23	2393.32	54.80	63.57	83.93	0.00	0.00	0.00	
2500.00	12.34	49.23	2491.01	68.76	79.76	105.31	0.00	0.00	0.00	
2600.00	12.34	49.23	2588.70	82.72	95.95	126.69	0.00	0.00	0.00	
2700.00	12 34	49.23	2686.39	96.68	112.14	148.06	0.00	0.00	0.00	
2800.00	12.34	49.23	2784 07	110.64	128.33	169.44	0 00	0.00	0.00	
2900 00	12.34	49.23	2881.76	124.60	144 53	190.82	0 00	0.00	0.00	
3000.00	12.34	49.23	2979.45	<sup>1</sup> 38.56	160.72	212.20	0.00	0.00	0.00	
3100.00	12 34	49.23	3077.14	152.52	176.91	233.58	0.00	0.00	0.00	
3200.00	12.34	49 23	3174.83	166 48	193.10	254.95	0.00	0.00	0.00	

### Precision Directional Services, Inc **Planning Report**

Company: SANDRIDGE ENERGY Lea County NME'27 Parcell Federal #5 #5

Wellpath: Original Hole

Date: 10/17/2012 Time: 15:19:15 Co-ordinate(NE) Reference: Well: #5, Grid North

Page:

Field: Site: Well:

Vertical (TVD) Reference: Section (VS) Reference:

weii: #5, Grid North 3564' GL + 13' KB 3577.0 Well (0.00N,0.00E,49 23Azi) Plan #3

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	12.34	49.23	3272 52	180.43	209.29	276 33	0.00	0.00	0.00	
3400.00	12.34	49.23	3370 20	194.39	225.48	297.71	0.00	0.00	0.00	
3500.00	12.34	49.23	3467.89	208.35	241.68	319.09	0.00	0.00	0.00	
3600.00	12.34	49.23	3565.58	222.31	257.87	340.47	0.00	0.00	0.00	
3700.00	12.34	49.23	3663,27	236.27	274.06	361.85	0.00	0.00	0.00	
3800.00	12.34	49.23	3760.96	250 23	290 25	383.22	0.00	0.00	0.00	
3900.00	12.34	49.23	3858 64	264.19	306.44	404.60	0.00	0.00	0.00	
4000.00	12.34	49.23	3956.33	278.15	322.63	425.98	0.00	0.00	0.00	
4000.00	12.34	43.20	3930.33	270.13	322.00	420.00	0.00	0.00	0.00	
4100.00	12.34	49.23	4054.02	292.11	338.82	447.36	0.00	0 00	0.00	
4200.00	12.34	49 23	4151.71	306 07	355 02	468.74	0.00	0.00	0.00	
4300.00	12.34	49.23	4249.40	320.02	371.21	490.11	0.00	0.00	0.00	
4400.00	12.34	49 23	4347 09	333 98	387.40	511 49	0.00	0.00	0.00	
4500.00	12.34	49.23	4444.77	347.94	403.59	532.87	0.00	0.00	0.00	
4600.00	12.34	49.23	4542.46	361.90	419.78	554.25	0.00	0.00	0.00	
4700.00	12.34	49.23	4640.15	375.86	435.97	575.63	0.00	0.00	0.00	
4800.00	12.34	49.23	4737.84	389.82	452.17	597.00	0.00	0.00	0.00	
4900.00	12.34	49.23	4835.53	403.78	468.36	618.38	0.00	0.00	0.00	,
5000.00	12.34	49.23	4933.21	417.74	484.55	639.76	0.00	0.00	0.00	
E100.00				101.76	500.71	004.44	0.00	0.00		
5100.00	12.34	49.23	5030.90	431.70	500.74	661.14	0.00	0.00	0.00	
5200.00	12.34	49 23	5128.59	445.66	516.93	682.52	0.00	0.00	0.00	
5300.00	12.34	49.23	5226 28	459.62	533 12	703.89	0.00	0.00	0.00	
5400.00	12.34	49.23	5323 97	473 57	549.32	725.27	0.00	0.00	0.00	
5500 00	12.34	49.23	5421.66	487.53	565.51	746.65	0.00	0.00	0.00	
5600.00	12.34	49.23	5519.34	501.49	581.70	768.03	0.00	0.00	0.00	
5700.00	12.34	49.23	5617.03	515.45	597.89	789.41	0.00	0.00	0.00	
5800.00	12.34	49.23	5714.72	529.41	614.08	810.78	0.00	0.00	0.00	
5900.00	12.34	49.23	5812.41	543.37	630.27	832.16	0.00	0.00	0.00	
6000.00	12.34	49.23	5910.10	557 33	646.47	853.54	0.00	0.00	0.00	
6100.00	10.04	40.00	6007.70	E74 00	660.06	074.00	0.00	0.00	0.00	
6100 00	12.34	49.23	6007.78	571.29	662.66	874.92	0.00	0.00		
6200.00	12.34	49.23	6105.47	585.25	678.85	896 30	0.00	0.00	0.00	
6300 00	12.34	49.23	6203 16	599 21	695.04	917.68	0.00	0.00	0.00	
6400.00	12 34	49.23	6300 85	613 16	711.23	939.05	0 00	0.00	0.00	
6500.00	12.34	49.23	6398.54	627.12	727.42	960.43	0.00	0.00	0.00	
6600.00	12.34	49.23	6496.23	641.08	743.61	981.81	0.00	0 00	0.00	
6700.00	12.34	49.23	6593.91	655.04	759.81	1003.19	0.00	0.00	0.00	
6800.00	12.34	49.23	6691 60	669.00	776.00	1024.57	0.00	0.00	0 00	
6900.00	12.34	49.23	6789.29	682.96	792.19	1045.94	0.00	0 00	0.00	
7000.00	12.34	49.23	6886.98	696.92	808.38	1067.32	0.00	0.00	0.00	
7100.00	12.34	49 23	6984.67	710.88	824.57	1088.70	0.00	0.00	0.00	
7115.70	12.34	49.23 49.23	7000.00	710.88	824.57 827.11	1088.70	0.00	0.00	0.00	Target
7200.00	12.34			713.07 724.84	827.11 840 76	1110.08	0.00	0.00	0.00	raigei
7300.00	12.34	49 23 49.23	7082.35 7180.04	724.84 738.80	856 96	1131.46	0.00	0.00	0.00	
7400.00	12.34	49.23	7277.73	750.00 752.75	873 15	1151.46	0.00	0.00	0.00	
7500.00	12.34	49.23	7375.42	766.71	889.34	1174.21	0.00	0.00	0.00	
7600.00	12.34	49.23	7473.11	780.67	905.53	1195.59	0.00	0.00	0.00	
7700.00	12.34	49.23	7570.80	794.63	921.72	1216.97	0.00	0.00	0.00	
7781.08	12.34	49.23	7650.00	805.95	934.85	1234.30	0.00	0.00	0.00	PBHL

### Precision Directional Services, Inc **Planning Report**

Company: SANDRIDGE ENERGY Field: Lea County NME'27 Site: Parcell Federal #5

Well: #5
Wellpath: Original Hole

 Date:
 10/17/2012
 Time:
 15:19.15

 Co-ordinate(NE) Reference:
 Well: #5, Grid North

 Vertical (TVD) Reference:
 3564' GL + 13' KB 3577.0

 Section (VS) Reference:
 Well (0 00N,0.00E,49.23Azi)

 Plan:
 Plan #3

3

Page:

Name	Description Dip.	TVD Dir. ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	< Latitude> Deg Min Sec	< Longitude> Deg Min Sec
Surface		0.00	0.00	0 00	544373.40	887231.50	32 29 25.175 N	103 4 38.971 W
Target -Circle (Ra	edius: 145)	7000.00	806.60	935.60	545180.00	888167.10	32 29 33 046 N	103 4 27.938 W
-Plan out by 143 24 at		7000.00	713.07	827.11	545086.47	888058.61	32 29 32.133 N	103 4 29.218 W
PBHL -Plan hit target		7650.00	805.95	934.85	545179.35	888166.35	32 29 33.039 N	103 4 27.947 W

# PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: SANDRIDGE EXPL & PROD, LLC

LEASE NO.: | NMLC062170A

WELL NAME & NO.: | 5-PARCELL FEDERAL

SURFACE HOLE FOOTAGE: 1515'/S. & 1275'/E. BOTTOM HOLE FOOTAGE 2310'/S. & 330'/E.

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

### **\times** 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 Blinebry 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 1644 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.

**JAM 103112**