

Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		WELL API NO. 30-015-41311 5. Indicate Type of Lease STATE ☒ FEE ☐ 6. State Oil & Gas Lease No.
2. Name of Operator Devon Energy Production Company, LP 405-228-7203		7. Lease Name or Unit Agreement Name Odie 4 State
3. Address of Operator 333 West. Sheridan Avenue Oklahoma City, OK 73102-5015 405-228-7203		8. Well Number 1H
4. Well Location Unit Letter <u>M</u> : <u>210</u> feet from the <u>SOUTH</u> line and <u>660</u> feet from the <u>WEST</u> line Section <u>4</u> Township <u>25S</u> Range <u>28E</u> NMPM Eddy County		9. OGRID Number 6137
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 2964		10. Pool name or Wildcat Willow Lake; Bone Spring

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

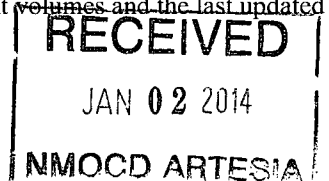
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
DOWNHOLE COMMINGLE ☐	P AND A ☐
CLOSED-LOOP SYSTEM ☐	CASING/CEMENT JOB ☐
OTHER: Casing and Cement Change ☒	OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Verbal approval given by Randy Dade*

Devon Energy Production Company, L.P. respectfully requests to alter the 13-3/8" surface casing to a depth of 200'. This is to ensure that surface is set above the salt section as evidenced in the offset wells recently drilled. The approved permit currently has surface set at 400'.

Devon Energy Production Company, L.P. also requests changing the 5-1/2", 17 lb/ft, HCP-110 as currently stated on the permit to 5-1/2", 17 lb/ft, P-110, BTC. Attached, please find an updated Well Plan with corrected cement volumes and the last updated directional plan.



I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Trina C. Couch TITLE: Regulatory Associate DATE 12/30/2013

Type or print name: Trina C. Couch E-mail address: trina.couch@dvni.com PHONE: 405-228-7203

For State Use Only

APPROVED BY: Randy Dade TITLE: Dist. H. Supervisor DATE 1/2/2014

Conditions of Approval (if any):

Odie 4 State 1H – APD DRILLING PLAN

SKS 4-19-2013

AAA 12-30-2013: Sundry to change surface from 400'(APD) to 200'

Casing Program:

Hole Size	Hole Interval	OD Csg	Casing Interval	Weight	Collar	Grade	Collapse Design Factor	Burst Design Factor	Tension Design Factor
17-1/2"	0 - 200	13-3/8"	0 - 200	48#	BTC	H-40	8.23	18.48	33.54
12-1/4"	200 - 2400	9-5/8"	0 - 2400	36#	LTC	J-55	1.62	2.82	5.24
8-3/4"	0 - 12590	5-1/2"	0 - 12613	17#	BTC	P-110	1.99	2.83	2.55

Mud Program:

Depth	Mud Wt.	Visc.	Fluid Loss	Type System (Fluid)
0 - 200	8.4 – 9.0	30 – 34	N/C	FW
200 - 2400	9.8 – 10.0	28 – 32	N/C	Brine
2400 - 12590	8.6 – 9.0	28 – 32	N/C	FW

Pressure Control Equipment:

The BOP system used to drill the intermediate hole will consist of a 13-5/8" Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order 2. A 3M system will be installed and tested prior to drilling out the surface casing shoe.

The BOP system used to drill the production hole will consist of a 13-5/8" Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order 2. A 3M system will be installed prior to drilling out the intermediate 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 in 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 5,000 psi WP.

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line); The line will be kept as straight as possible with minimal turns.

Odie 4 State 1H

Cementing Program (cement volumes based on 100% excess Surface, 50% excess Intermediate and at least 25% excess Production.)

String	Number of sx	Weight lbs/gal	Water Volume g/sx	Yield cf/sx	Stage; Lead/Tail	Slurry Description
13-3/8" Surface	240	14.8	6.32	1.33	Tail	Class C Cement + 63.5% Fresh Water
9-5/8" Intermediate	480	12.9	9.81	1.85	Lead	(65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.9 % Fresh Water
	330	14.8	6.32	1.33	Tail	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water
5-1/2" Production Casing	430	11.9	12.89	2.26	Lead	(50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000 + 76.4% Fresh Water
	330	12.5	10.86	1.96	Lead	(65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake + 74.1 % Fresh Water
	1440	14.5	5.38	1.22	Tail	(50:50) Class H Cement: Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water

TOC for All Strings:

Surface: 0
Intermediate: 0
Production: 1900 ft

Notes:

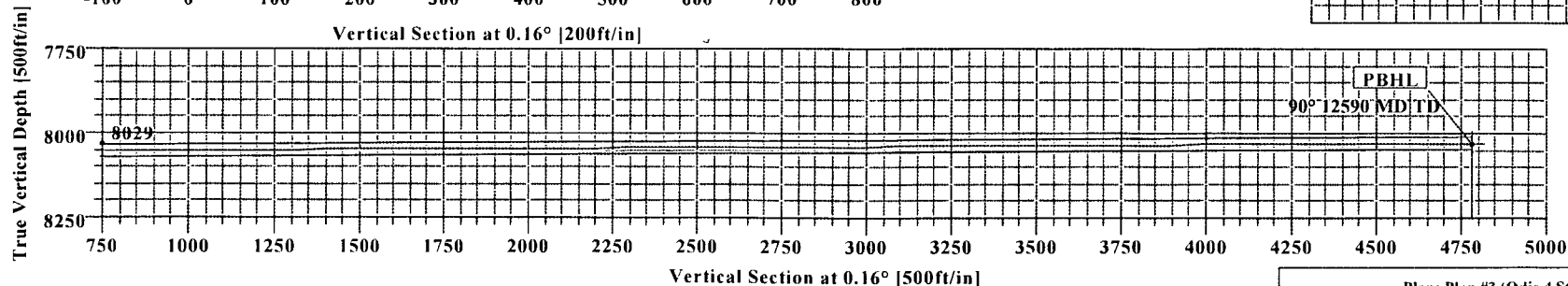
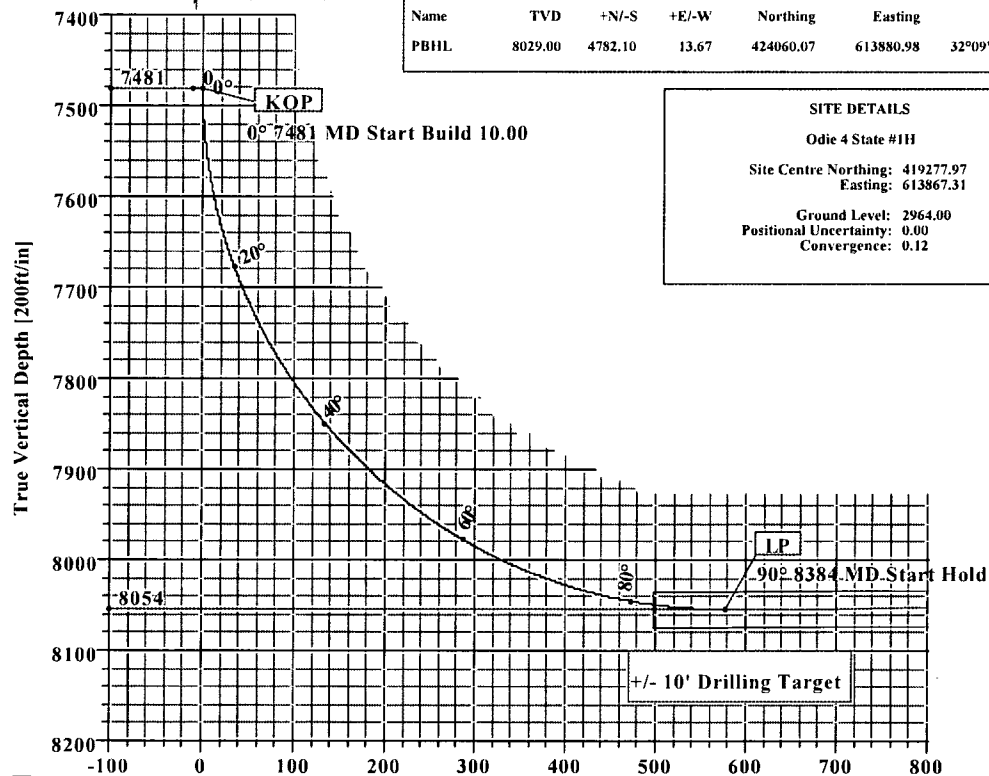
- Cement volumes Surface 100%, Intermediate 75% and Production based on at least 25% excess
- Actual cement volumes will be adjusted based on fluid caliper and caliper log data



Odie 4 State #1H
Eddy Co., New Mexico



KB ELEV: 2989
GL ELEV: 2964

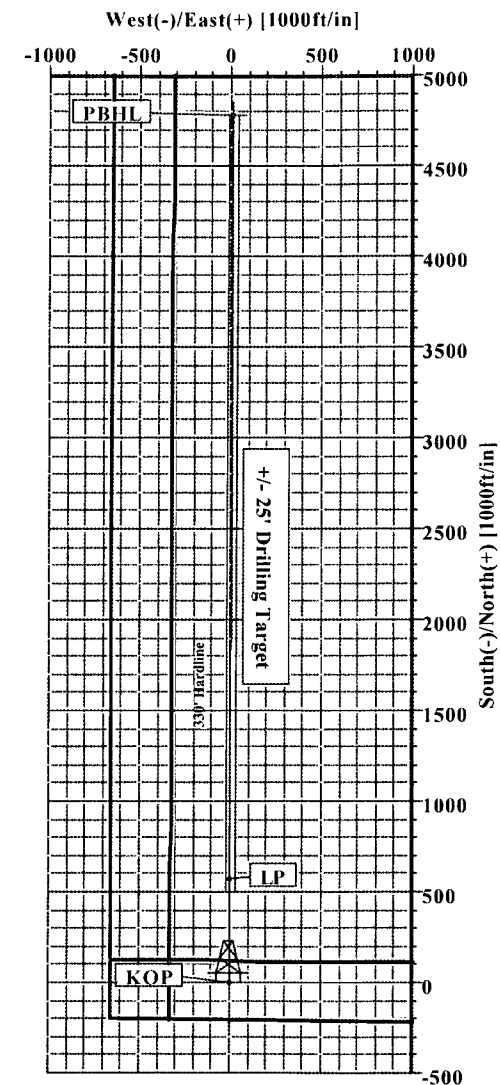


SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	
2	7481.05	0.00	0.16	7481.05	0.00	0.00	0.00	0.00	0.00	
3	8384.46	90.34	0.16	8054.00	576.36	1.65	10.00	0.16	576.36	
4	12590.29	90.34	0.16	8029.00	4782.10	13.67	0.00	0.00	4782.12	PBHL

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Odie 4 State #1H	0.00	0.00	419277.97	613867.31	32°09'08.835N	104°05'S6.302W	N/A

TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8029.00	4782.10	13.67	424060.07	613880.98	32°09'56.159N	104°05'56.022W	Rectangle (4284x50)

SITE DETAILS	
Odie 4 State #1H	
Site Centre Northing:	419277.97
Easting:	613867.31
Ground Level:	2964.00
Positional Uncertainty:	0.00
Convergence:	0.12



Plan: Plan #3 (Odie 4 State #1H/1)
Created By: Russell W. Joyner Date: 12/20/2013



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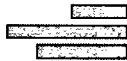
Drilling Services

RECEIVED

JAN 02 2014

WOOD ARTESIA

Proposal



devon

ODIE 4 STATE #1H

EDDY COUNTY, NM

WELL FILE: PLAN 3

DECEMBER 20, 2013

Weatherford International, Ltd.

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Midland, TX 79711 USA

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Wft Plan Report X Y's.



Company: Devon Energy	Date: 12/20/2013	Time: 11:47:59	Page: 1
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: Odie 4 State #1H, Grid North		
Site: Odie 4 State #1H	Vertical (TVD) Reference: SITE 2989.0		
Well: Odie 4 State #1H	Section (VS) Reference: Well (0.00N,0.00E,0.16Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature Db: Sybase		

Plan: Plan #3	Date Composed: 4/19/2013
Principal: Yes	Version: 1
	Tied-to: From Surface

Site: Odie 4 State #1H

Site Position:	Northing: 419277.97 ft	Latitude: 32 9 8.835 N
From: Map	Easting: 613867.31 ft	Longitude: 104 5 56.302 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 2964.00 ft		Grid Convergence: 0.12 deg

Well: Odie 4 State #1H	Slot Name:	
Well Position: +N/-S 0.00 ft	Northing: 419277.97 ft	Latitude: 32 9 8.835 N
+E/-W 0.00 ft	Easting: 613867.31 ft	Longitude: 104 5 56.302 W
Position Uncertainty: 0.00 ft		

Wellpath: 1	Drilled From: Surface		
Current Datum: SITE	Tie-on Depth: 0.00 ft		
Magnetic Data: 12/15/2013	Above System Datum: Mean Sea Level		
Field Strength: 48291 nT	Declination: 7.52 deg		
Vertical Section: Depth From (TVD)	Mag Dip Angle: 59.97 deg		
ft	+N/-S ft	+E/-W ft	Direction deg
0.00	0.00	0.00	0.16

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	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7481.05	0.00	0.16	7481.05	0.00	0.00	0.00	0.00	0.00	0.00	
8384.46	90.34	0.16	8054.00	576.36	1.65	10.00	10.00	0.00	0.16	
12590.29	90.34	0.16	8029.00	4782.10	13.67	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	MapN ft	MapE ft	Comment
7400.00	0.00	0.16	7400.00	0.00	0.00	0.00	0.00	419277.97	613867.31	
7481.05	0.00	0.16	7481.05	0.00	0.00	0.00	0.00	419277.97	613867.31	KOP
7500.00	1.90	0.16	7500.00	0.31	0.00	0.31	10.00	419278.28	613867.31	
7600.00	11.90	0.16	7599.15	12.30	0.04	12.30	10.00	419290.27	613867.35	
7700.00	21.90	0.16	7694.71	41.33	0.12	41.33	10.00	419319.30	613867.43	
7800.00	31.90	0.16	7783.78	86.51	0.25	86.51	10.00	419364.48	613867.56	
7900.00	41.90	0.16	7863.65	146.46	0.42	146.47	10.00	419424.43	613867.73	
8000.00	51.90	0.16	7931.90	219.38	0.63	219.38	10.00	419497.35	613867.94	
8100.00	61.90	0.16	7986.45	303.04	0.87	303.04	10.00	419581.01	613868.18	
8200.00	71.90	0.16	8025.64	394.90	1.13	394.91	10.00	419672.87	613868.44	
8300.00	81.90	0.16	8048.28	492.18	1.41	492.18	10.00	419770.15	613868.72	
8384.46	90.34	0.16	8054.00	576.36	1.65	576.36	10.00	419854.33	613868.96	LP
8400.00	90.34	0.16	8053.91	591.91	1.69	591.91	0.00	419869.88	613869.00	
8500.00	90.34	0.16	8053.31	691.90	1.98	691.91	0.00	419969.87	613869.29	
8600.00	90.34	0.16	8052.72	791.90	2.26	791.90	0.00	420069.87	613869.57	
8700.00	90.34	0.16	8052.12	891.90	2.55	891.90	0.00	420169.87	613869.86	
8800.00	90.34	0.16	8051.53	991.90	2.84	991.90	0.00	420269.87	613870.15	
8900.00	90.34	0.16	8050.93	1091.89	3.12	1091.90	0.00	420369.86	613870.43	
9000.00	90.34	0.16	8050.34	1191.89	3.41	1191.90	0.00	420469.86	613870.72	
9100.00	90.34	0.16	8049.74	1291.89	3.69	1291.90	0.00	420569.86	613871.00	
9200.00	90.34	0.16	8049.15	1391.89	3.98	1391.89	0.00	420669.86	613871.29	
9300.00	90.34	0.16	8048.56	1491.89	4.26	1491.89	0.00	420769.86	613871.57	
9400.00	90.34	0.16	8047.96	1591.88	4.55	1591.89	0.00	420869.85	613871.86	



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Wft Plan Report X Y's.

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Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Odie 4 State #1H
Well: Odie 4 State #1H
Wellpath: 1

Date: 12/20/2013 Time: 11:47:59 Page: 2
Co-ordinate(NE) Reference: Well: Odie 4 State #1H, Grid North
Vertical (TVD) Reference: SITE 2989.0
Section (VS) Reference: Well (0.00N,0.00E,0.16Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
9500.00	90.34	0.16	8047.37	1691.88	4.84	1691.89	0.00	420969.85	613872.15	
9600.00	90.34	0.16	8046.77	1791.88	5.12	1791.89	0.00	421069.85	613872.43	
9700.00	90.34	0.16	8046.18	1891.88	5.41	1891.88	0.00	421169.85	613872.72	
9800.00	90.34	0.16	8045.58	1991.87	5.69	1991.88	0.00	421269.84	613873.00	
9900.00	90.34	0.16	8044.99	2091.87	5.98	2091.88	0.00	421369.84	613873.29	
10000.00	90.34	0.16	8044.40	2191.87	6.27	2191.88	0.00	421469.84	613873.58	
10100.00	90.34	0.16	8043.80	2291.87	6.55	2291.88	0.00	421569.84	613873.86	
10200.00	90.34	0.16	8043.21	2391.87	6.84	2391.88	0.00	421669.84	613874.15	
10300.00	90.34	0.16	8042.61	2491.86	7.12	2491.87	0.00	421769.83	613874.43	
10400.00	90.34	0.16	8042.02	2591.86	7.41	2591.87	0.00	421869.83	613874.72	
10500.00	90.34	0.16	8041.42	2691.86	7.69	2691.87	0.00	421969.83	613875.00	
10600.00	90.34	0.16	8040.83	2791.86	7.98	2791.87	0.00	422069.83	613875.29	
10700.00	90.34	0.16	8040.24	2891.86	8.27	2891.87	0.00	422169.83	613875.58	
10800.00	90.34	0.16	8039.64	2991.85	8.55	2991.87	0.00	422269.82	613875.86	
10900.00	90.34	0.16	8039.05	3091.85	8.84	3091.86	0.00	422369.82	613876.15	
11000.00	90.34	0.16	8038.45	3191.85	9.12	3191.86	0.00	422469.82	613876.43	
11100.00	90.34	0.16	8037.86	3291.85	9.41	3291.86	0.00	422569.82	613876.72	
11200.00	90.34	0.16	8037.26	3391.84	9.70	3391.86	0.00	422669.81	613877.01	
11300.00	90.34	0.16	8036.67	3491.84	9.98	3491.86	0.00	422769.81	613877.29	
11400.00	90.34	0.16	8036.07	3591.84	10.27	3591.85	0.00	422869.81	613877.58	
11500.00	90.34	0.16	8035.48	3691.84	10.55	3691.85	0.00	422969.81	613877.86	
11600.00	90.34	0.16	8034.89	3791.84	10.84	3791.85	0.00	423069.81	613878.15	
11700.00	90.34	0.16	8034.29	3891.83	11.13	3891.85	0.00	423169.80	613878.44	
11800.00	90.34	0.16	8033.70	3991.83	11.41	3991.85	0.00	423269.80	613878.72	
11900.00	90.34	0.16	8033.10	4091.83	11.70	4091.85	0.00	423369.80	613879.01	
12000.00	90.34	0.16	8032.51	4191.83	11.98	4191.84	0.00	423469.80	613879.29	
12100.00	90.34	0.16	8031.91	4291.82	12.27	4291.84	0.00	423569.79	613879.58	
12200.00	90.34	0.16	8031.32	4391.82	12.55	4391.84	0.00	423669.79	613879.86	
12300.00	90.34	0.16	8030.73	4491.82	12.84	4491.84	0.00	423769.79	613880.15	
12400.00	90.34	0.16	8030.13	4591.82	13.13	4591.84	0.00	423869.79	613880.44	
12500.00	90.34	0.16	8029.54	4691.82	13.41	4691.84	0.00	423969.79	613880.72	
12590.29	90.34	0.16	8029.00	4782.10	13.67	4782.12	0.00	424060.07	613880.98	PBHL

Targets

Name	Description Dip.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ---->			<---- Longitude ---->		
PBHL		8029.00	4782.10	13.67	424060.07	613880.98	32	9	56.159 N	104	5	56.022 W
-Rectangle (4284x50)												

Casing Points

MD	TVD	Diameter	Hole Size	Name

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction



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Wft Plan Report X Y's.



Company: Devon Energy	Date: 12/20/2013	Time: 11:47:59	Page: 3
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: Odie 4 State #1H, Grid North		
Site: Odie 4 State #1H	Vertical (TVD) Reference: SITE 2989.0		
Well: Odie 4 State #1H	Section (VS) Reference: Well (0.00N,0.00E,0.16Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature		Db: Sybase

Annotation

MD ft	TVD ft	
7481.05	7481.05	KOP
8384.46	8054.00	LP
12590.28	8029.00	PBHL

**Weatherford®****Weatherford Drilling Services**

GeoDec v5.03

Report Date: December 19, 2013
Job Number: _____
Customer: Devon Energy
Well Name: Odie 4 State #1H
API Number: _____
Rig Name: _____
Location: Eddy Co., NM (NAD 83)
Block: _____
Engineer: RWJ

US State Plane 1983	Geodetic Latitude / Longitude
System: New Mexico Eastern Zone	System: Latitude / Longitude
Projection: Transverse Mercator/Gauss Kruger	Projection: Geodetic Latitude and Longitude
Datum: North American Datum 1983	Datum: North American Datum 1983
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
North/South 419277.970 USFT	Latitude 32.1524566 DEG
East/West 613867.310 USFT	Longitude -104.0989689 DEG
Grid Convergence: .12°	
Total Correction: +7.49°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.15246° N	32° 9 min 8.844 sec
Longitude =	104.09897° W	104° 5 min 56.288 sec

Magnetic Declination =	7.61°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6851
Local Field Strength =	48246 nT	Magnetic Vector X = 23950 nT
Magnetic Dip =	59.95°	Magnetic Vector Y = 3201 nT
Magnetic Model =	bggm2013	Magnetic Vector Z = 41759 nT
Spud Date =	Feb 20, 2014	Magnetic Vector H = 24163 nT

Signed: _____

Date: _____