



Weatherford[®]

Evaluation, Drilling & Intervention
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Devon Energy
333 W. Sherridan Ave
Oklahoma City, OK, 73102

Date: January 20, 2014

Attention: Art Alarcon

Re: Devon Energy
Well: Odie 4 State 1H
Eddy County, New Mexico

30-015-41311

NM OIL CONSERVATION
ARTESIA DISTRICT

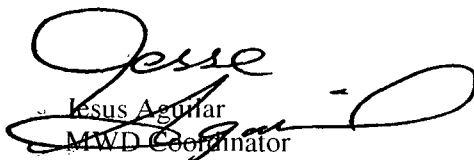
JUL 24 2014

RECEIVED

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

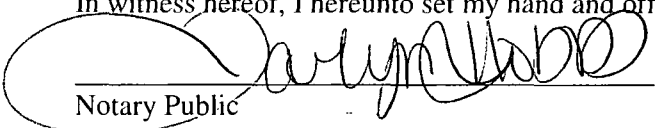
Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Jeremy Orona MWD Supervisor	1H	7396 MD 12548 MD	1/8/2014 1/20/2014	Measurement While Drilling

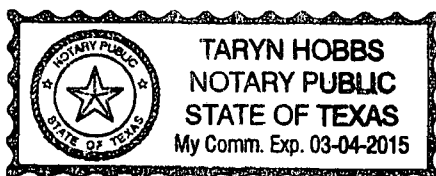
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Jesus Aguilar
MWD Coordinator

On this, the 5th day of February, 2014, before me a notary public, the undersigned officer, personally appeared Jesus Aguilar, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.


Notary Public



5D Survey Report

Devon Energy**Field Name:** *Eddy Co, NM (Nad 83 NME)***Site Name:** *Odie 4 State 1H***Well Name:** *Odie 4 State #1H***Survey:** *Wft Svy*

20 January 2014





Weatherford®

Odle 4 State #1H

Field Name
Eddy Co, NM
(Nad 83 NME)

Map Units : US ft

Company Name : Devon Energy

Vertical Reference Datum (VRD) : Mean Sea Level

Projected Coordinate System : NAD83 / New Mexico East (ftUS)

Comment :

Site Name
Odle 4 State 1H

Units : US ft

North Reference : Grid

Convergence Angle : 0.12

Position

Northing : 419277.97 US ft

Latitude : 32°9'8.84"

Easting : 613867.31 US ft

Longitude : -104°5'56.29"

Elevation above Mean Sea Level: 2964.00 US ft

Comment :

Slot Name
Odle 4 State 1H

Position (Offsets relative to Site Centre)

+N / -S : 0.00 US ft **Northing** : 419277.97 US ft

Latitude : 32°9'8.84"

+E / -W : 0.00 US ft **Easting** : 613867.31 US ft

Longitude : -104°5'56.29"

Elevation above Mean Sea Level : 2964.00 US ft

Comment :

Well Name
Odle 4 State #1H

Type : Main well

UWI :

Rig Height Well TVD Reference : 25.00

Comment :

US ft

Relative to Mean Sea Level: 2989.00 US ft

Closure Distance : 4781.48 US ft

Closure Azimuth : 0.16741°

Vertical Section (Position of Origin Relative to Slot)

+N / -S : 0.00 US ft **+E / -W** : 0.00 US ft **Az** : 0.16°

Target Set

Name : Odle 4 State #1H

Number of Targets : 1

Comment :

Target Name:
PBHL
Shape:
Cuboid

Position (Relative to Slot centre)

+N / -S : 4782.10 US ft

Northing : 424060.07 US ft

Latitude : 32°9'56.17"

+E / -W : 13.67 US ft

Easting : 613880.98 US ft

Longitude : -104°5'56.01"

TVD (Well TVD Reference) : 8025.00 US ft

Orientation Azimuth : 0.33°

Inclination : 0.34°

Dimensions Length : 8410.00 US ft

Breadth : 50.00 US ft

Height : 20.00 US ft

Survey Name : Wft Svy

Date : 13/Jan/2014

Survey Tool : MWD

Comment :

Company : Wft

Magnetic Model

Model Name: BGGM

Date: 05/Jan/2014

Field Strength:

Declination: 7.63°

Dip: 59.95°

48260.8 nT

Tie Point

MD: 7350

Inclination: 3.95 **Azimuth**: 264.92

TVD: 7343.87

North Offset: -2.21

East Offset: 34.98

5D Survey Report

Well path created using minimum curvature

Survey Points (Relative to Slot centre, TVD relative to Well TVD Reference)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	D.S. (%/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
7350.00	3.95	264.92	7343.87	-2.21	34.98	-2.11	0.00	419275.76	613902.29	Tie On VES
7396.00	4.13	266.51	7389.76	-2.45	31.75	-2.36	0.46	419275.52	613899.06	First Wft Svy
7428.00	4.14	270.30	7421.67	-2.52	29.44	-2.43	0.85	419275.45	613896.75	
7459.00	4.33	292.31	7452.59	-2.07	27.24	-1.99	5.25	419275.90	613894.55	
7491.00	5.63	312.82	7484.47	-0.54	24.97	-0.47	6.83	419277.43	613892.28	
7522.00	7.82	330.55	7515.26	2.33	22.82	2.39	9.66	419280.30	613890.13	
7554.00	9.50	336.21	7546.89	6.64	20.68	6.70	5.88	419284.61	613887.99	
7585.00	11.47	337.16	7577.38	11.83	18.46	11.88	6.38	419289.80	613885.77	
7617.00	13.53	338.07	7608.61	18.23	15.82	18.28	6.47	419296.20	613883.13	
7648.00	15.73	338.65	7638.61	25.51	12.94	25.55	7.11	419303.48	613880.25	
7680.00	17.81	338.97	7669.25	34.12	9.60	34.14	6.51	419312.09	613876.91	
7711.00	19.84	340.33	7698.59	43.50	6.13	43.51	6.70	419321.47	613873.44	
7743.00	22.10	341.91	7728.46	54.33	2.43	54.34	7.28	419332.30	613869.74	
7775.00	24.28	342.87	7757.88	66.35	-1.38	66.34	6.91	419344.32	613865.93	
7806.00	27.84	346.67	7785.72	79.49	-4.92	79.47	12.68	419357.46	613862.39	
7838.00	31.62	349.66	7813.51	95.01	-8.15	94.99	12.69	419372.98	613859.16	
7869.00	35.16	351.88	7839.39	111.85	-10.87	111.82	12.08	419389.82	613856.44	
7901.00	38.07	356.59	7865.08	130.83	-12.76	130.79	12.63	419408.80	613854.55	
7932.00	40.30	0.81	7889.11	150.40	-13.19	150.36	11.21	419428.37	613854.12	
7963.00	43.22	2.69	7912.23	171.03	-12.55	171.00	10.25	419449.00	613854.76	
7995.00	46.59	2.72	7934.89	193.59	-11.48	193.56	10.53	419471.56	613855.83	
8027.00	50.22	1.54	7956.13	217.50	-10.60	217.47	11.67	419495.47	613856.71	
8058.00	53.61	1.33	7975.25	241.89	-9.99	241.86	10.95	419519.86	613857.32	
8090.00	57.69	1.35	7993.30	268.30	-9.37	268.27	12.75	419546.27	613857.94	
8121.00	62.04	1.08	8008.86	295.10	-8.81	295.07	14.05	419573.07	613858.50	
8153.00	66.63	1.03	8022.72	323.93	-8.28	323.90	14.34	419601.90	613859.03	
8184.00	72.08	0.93	8033.64	352.92	-7.78	352.90	17.58	419630.89	613859.53	
8216.00	77.73	359.89	8041.97	383.80	-7.56	383.78	17.93	419661.77	613859.75	
8246.00	83.13	359.52	8046.96	413.38	-7.72	413.35	18.04	419691.35	613859.59	
8268.00	86.43	0.13	8048.96	435.28	-7.78	435.26	15.25	419713.25	613859.53	
8299.00	88.67	1.06	8050.29	466.25	-7.46	466.23	7.82	419744.22	613859.85	
8331.00	88.95	1.20	8050.95	498.24	-6.83	498.21	0.98	419776.21	613860.48	
8425.00	88.39	1.63	8053.13	592.18	-4.51	592.17	0.75	419870.15	613862.80	
8520.00	89.65	0.98	8054.76	687.14	-2.35	687.13	1.49	419965.11	613864.96	
8614.00	90.84	0.88	8054.36	781.12	-0.82	781.12	1.27	420059.09	613866.49	
8709.00	90.42	1.39	8053.31	876.10	1.06	876.10	0.70	420154.07	613868.37	
8803.00	90.14	2.01	8052.85	970.06	3.85	970.06	0.72	420248.03	613871.16	
8898.00	90.21	0.92	8052.56	1065.02	6.28	1065.04	1.15	420342.99	613873.59	
8992.00	90.56	358.36	8051.93	1159.01	5.69	1159.02	2.75	420436.98	613873.00	
9086.00	90.00	358.43	8051.47	1252.97	3.06	1252.98	0.60	420530.94	613870.37	
9181.00	90.91	358.84	8050.72	1347.94	0.79	1347.94	1.05	420625.91	613868.10	
9275.00	90.56	358.91	8049.51	1441.92	-1.05	1441.91	0.38	420719.89	613866.26	
9370.00	91.40	359.65	8047.88	1536.89	-2.25	1536.88	1.18	420814.86	613865.06	
9464.00	90.91	359.64	8045.99	1630.87	-2.83	1630.86	0.52	420908.84	613864.48	
9559.00	90.21	0.14	8045.06	1725.87	-3.01	1725.85	0.91	421003.84	613864.30	
9653.00	91.40	359.53	8043.74	1819.85	-3.28	1819.84	1.42	421097.82	613864.03	
9748.00	91.19	0.21	8041.59	1914.83	-3.50	1914.81	0.75	421192.80	613863.81	
9842.00	90.70	0.35	8040.04	2008.82	-3.04	2008.80	0.54	421286.79	613864.27	
9937.00	90.14	0.88	8039.35	2103.81	-2.02	2103.79	0.81	421381.78	613865.29	
10031.00	90.77	0.24	8038.60	2197.80	-1.10	2197.79	0.96	421475.77	613866.21	
10125.00	90.63	0.80	8037.45	2291.79	-0.25	2291.78	0.61	421569.76	613867.06	
10220.00	90.35	1.42	8036.64	2386.77	1.59	2386.76	0.72	421664.74	613868.90	
10315.00	90.77	0.28	8035.71	2481.75	3.00	2481.75	1.28	421759.72	613870.31	
10409.00	90.56	0.87	8034.62	2575.74	3.95	2575.74	0.67	421853.71	613871.26	
10503.00	90.00	0.80	8034.16	2669.73	5.32	2669.73	0.60	421947.70	613872.63	
10598.00	89.23	1.14	8034.80	2764.71	6.92	2764.72	0.89	422042.68	613874.23	

5D Survey Report

Survey Points (Relative to Slot centre, TVD relative to Well TVD Reference)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
10692.00	89.65	0.57	8035.72	2858.69	8.33	2858.71	0.75	422136.66	613875.64	
10786.00	90.63	359.32	8035.49	2952.69	8.24	2952.70	1.69	422230.66	613875.55	
10881.00	90.28	0.27	8034.73	3047.69	7.90	3047.70	1.07	422325.66	613875.21	
10975.00	89.65	0.28	8034.79	3141.68	8.35	3141.69	0.67	422419.65	613875.66	
11069.00	89.02	0.76	8035.88	3235.67	9.20	3235.69	0.84	422513.64	613876.51	
11164.00	90.21	0.20	8036.52	3330.66	10.00	3330.68	1.38	422608.63	613877.31	
11258.00	91.54	359.00	8035.09	3424.65	9.34	3424.66	1.91	422702.62	613876.65	
11353.00	91.19	359.55	8032.82	3519.61	8.14	3519.62	0.69	422797.58	613875.45	
11447.00	90.56	359.77	8031.39	3613.60	7.58	3613.61	0.71	422891.57	613874.89	
11541.00	90.14	359.96	8030.81	3707.60	7.36	3707.60	0.49	422985.57	613874.67	
11648.00	89.72	0.17	8030.94	3814.60	7.48	3814.60	0.44	423092.57	613874.79	
11742.00	90.56	359.80	8030.71	3908.60	7.46	3908.60	0.98	423186.57	613874.77	
11837.00	91.54	0.38	8028.97	4003.58	7.61	4003.58	1.20	423281.55	613874.92	
11931.00	91.12	0.67	8026.79	4097.55	8.47	4097.56	0.54	423375.52	613875.78	
12026.00	90.49	0.68	8025.46	4192.53	9.59	4192.54	0.66	423470.50	613876.90	
12121.00	89.86	0.60	8025.17	4287.53	10.65	4287.54	0.67	423565.50	613877.96	
12215.00	89.16	0.33	8025.97	4381.52	11.41	4381.53	0.80	423659.49	613878.72	
12310.00	88.46	0.98	8027.94	4476.49	12.50	4476.51	1.01	423754.46	613879.81	
12405.00	90.00	0.17	8029.22	4571.47	13.45	4571.49	1.83	423849.44	613880.76	
12500.00	90.84	0.14	8028.52	4666.47	13.71	4666.49	0.88	423944.44	613881.02	
12548.00	90.70	0.13	8027.88	4714.46	13.82	4714.49	0.29	423992.43	613881.13	Last Wft Svy
12615.00	90.70	0.13	8027.06	4781.46	13.97	4781.48	0.00	424059.43	613881.28	Proj. To Bit



Odie 4 State #1H
Eddy Co, NM



Weatherford

Plan Data for Odie 4 State #1H

Plan Point Information:

Dogleg Severity Unit: °/100.00ft										Position offsets from Slot centre	
MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS		
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)		
7901.00	38.07	356.59	7865.08	130.82	-12.81	419408.79	613854.50	130.79	12.63		
7964.00	45.23	1.84	7912.13	172.63	-13.25	419450.60	613854.06	172.59	12.63		
8338.18	90.34	0.29	8050.00	510.10	-7.76	419788.07	613859.55	510.07	12.06		
12610.31	90.34	0.29	8025.00	4782.10	13.67	424060.07	613880.98	4782.12	0.00		

Plan Data for Odie 4 State #1H

Target Set Information:

Name: Odie 4 State #1H

Position offsets from Slot centre

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape	Comment
	(USft)	(USft)	(USft)	(USft)	(USft)		
PBHL 8025.00	4782.10	13.67	424060.07	613880.98	Cuboid		

Plan Data for Odie 4 State #1H

Slot: Odie 4 State 1H

Position:

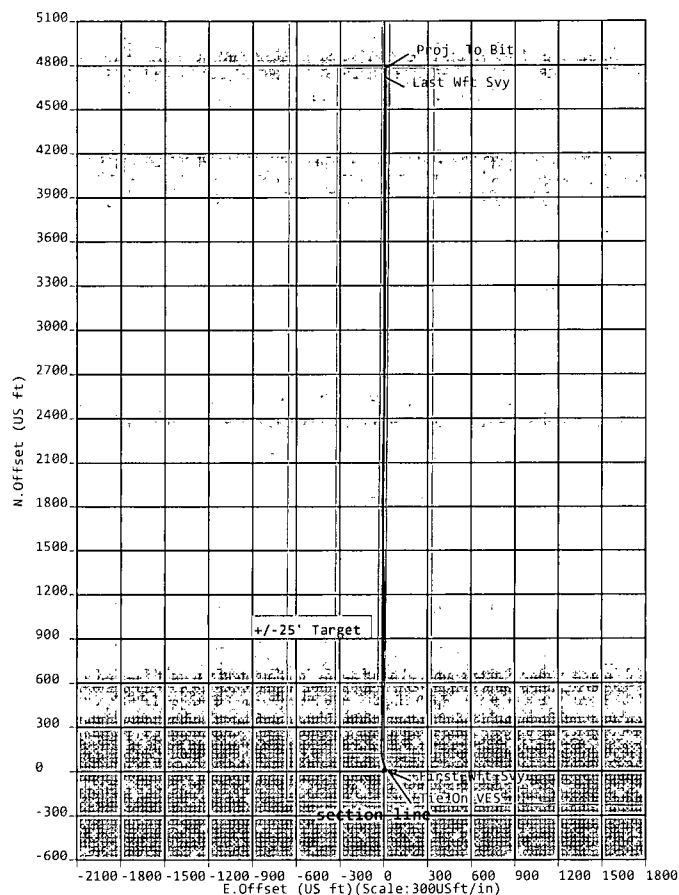
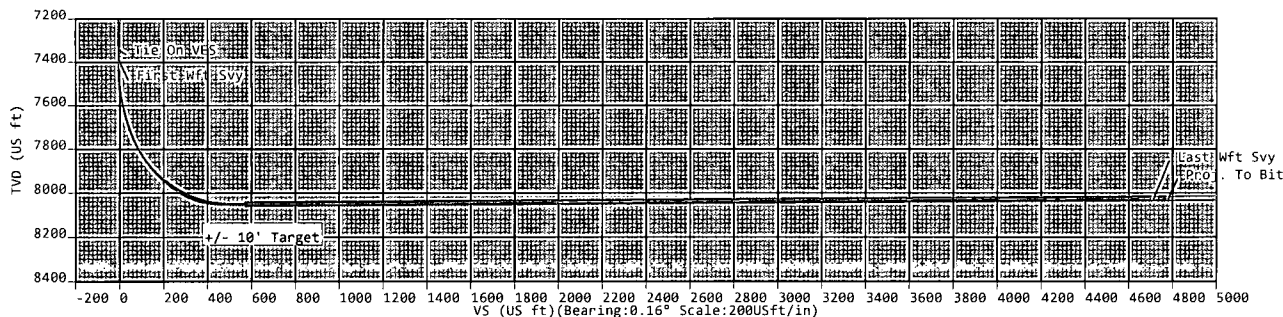
Offset is from Site centre

+N/-S: 0.00USft Northing: 419277.97USft Latitude: 32°9'8.8"
+E/-W: 0.00USft Easting: 613867.31USft Longitude: -104°5'56.3"
Elevation Above VRD: 2964.00USft

Odie 4 State #1H ———
Odie 4 State #1H ———



KB-2989
GL-2964



Sign Off: Russell Joyner