



January 15, 2015

30 015 42625

Devon Energy
333 West Sheridan Ave
Oklahoma City, Oklahoma 73102-5010

NM OIL CONSERVATION
ARTESIA DISTRICT

APR 21 2015

RECEIVED

Attn: David Cook

Re: **Cletus 28 State Com No 004H**

Please find enclosed a copy of the survey from 0.00' to 9119.00' ran on the above referenced well.

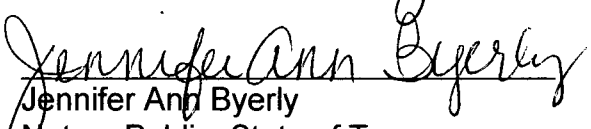
If I can be of any further service please do not hesitate to call me at 800-606-4976.

Sincerely, 

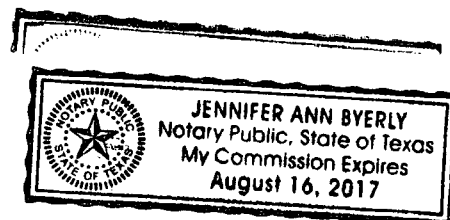
Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 15 day of January A.D., 2015, by Keith Havelka.


Jennifer Ann Byerly
Notary Public, State of Texas

VES Survey International
P.O. Box 261021 Corpus Christi, TX 78426
T (361) 767-0602 F (361) 767-0612
www.vessurvey.com





Company: Devon Energy
 Lease/Well: Cletus 28 State Com/No 004H
 Location: S28 T23S R26E
 Rig Name: HP 251
 State/County: New Mexico/Eddy
 Latitude: 32.27, Longitude: -104.29
 GRID North is 0.02 Degrees East of True North
 VS-Azi: 0.00 Degrees



Depth Reference : RKB = 25.1 Feet

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: gyro survey.ut
 Minimum Curvature Method
 Report Date/Time: 1/15/2015 / 08:38

VES Survey International
 Midland, TX
 432-563-5444
 Surveyor: Andrew Askew
 Cletus 28 State Com No 004H / API 30-015-42625

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
141.25	0.53	55.10	141.25	0.38	0.54	0.38	0.66	55.10	0.38
235.38	0.69	344.06	235.37	1.17	0.74	1.17	1.38	32.45	0.76
329.51	0.98	326.13	329.49	2.37	0.14	2.37	2.38	3.37	0.41
423.64	0.93	319.31	423.61	3.62	-0.81	3.62	3.71	347.42	0.13
517.77	0.67	255.14	517.73	4.07	-1.84	4.07	4.46	335.68	0.93
611.90	0.36	162.71	611.86	3.65	-2.28	3.65	4.30	328.00	0.82
706.03	0.59	152.19	705.99	2.94	-1.96	2.94	3.53	326.22	0.27
800.16	0.63	135.12	800.11	2.14	-1.37	2.14	2.54	327.34	0.20
894.29	0.86	99.81	894.23	1.65	-0.30	1.65	1.67	349.58	0.54
988.42	0.64	119.49	988.36	1.27	0.85	1.27	1.53	33.84	0.36
1082.55	0.70	103.92	1082.48	0.87	1.86	0.87	2.06	64.83	0.20
1176.68	0.44	130.38	1176.61	0.51	2.69	0.51	2.74	79.37	0.39
1270.81	0.74	81.86	1270.73	0.36	3.57	0.36	3.59	84.24	0.60
1364.94	1.20	88.71	1364.85	0.47	5.16	0.47	5.18	84.81	0.50
1459.07	1.01	110.14	1458.96	0.20	6.92	0.20	6.93	88.31	0.48
1553.20	0.79	97.71	1553.08	-0.17	8.35	-0.17	8.35	91.16	0.31
1647.33	0.78	67.95	1647.20	-0.02	9.58	-0.02	9.58	90.10	0.43
1741.46	0.55	80.91	1741.32	0.29	10.62	0.29	10.63	88.41	0.29

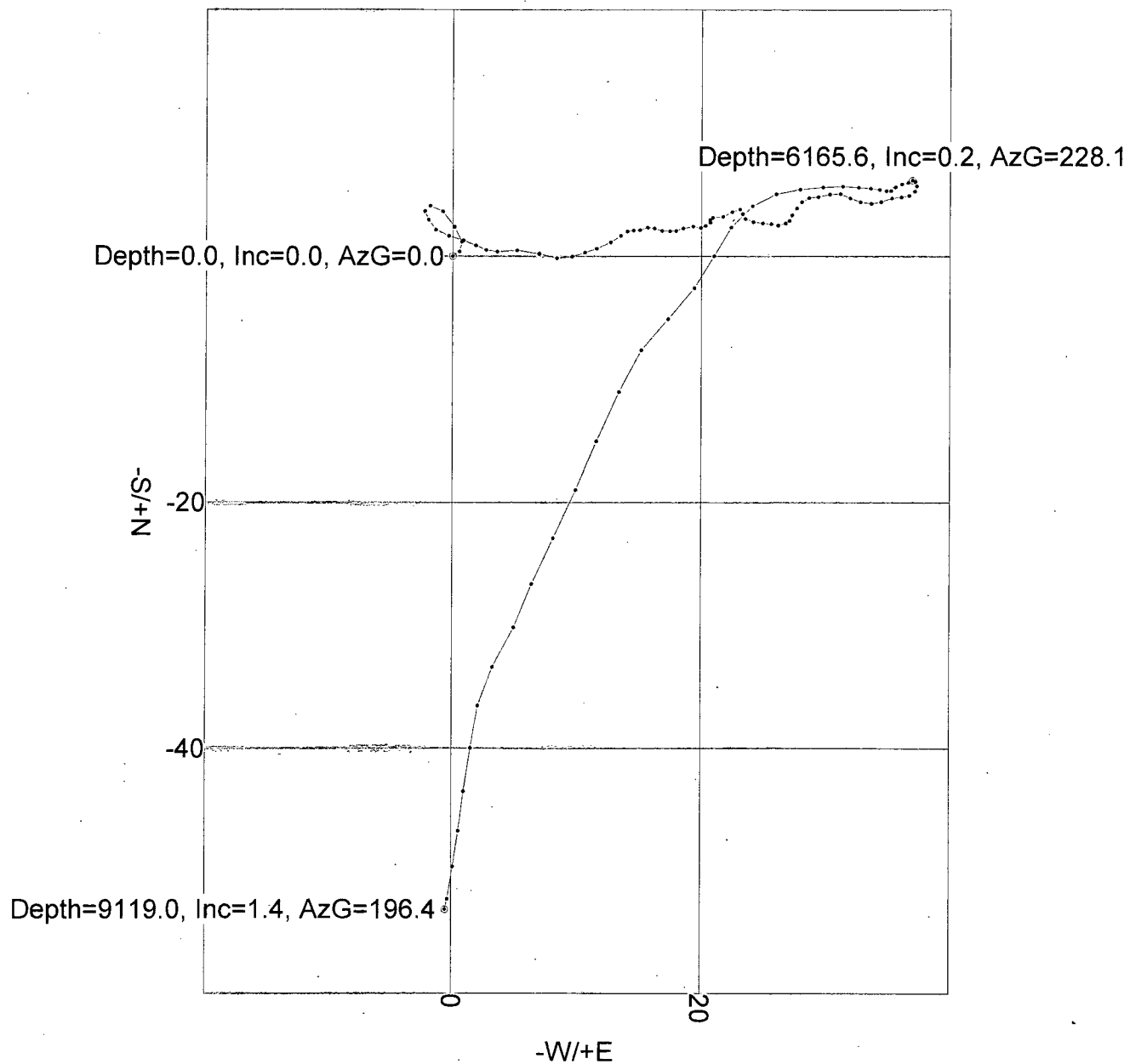
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1835.59	0.67	64.21	1835.45	0.61	11.56	0.61	11.58	87.00	0.23
1929.72	0.81	64.51	1929.57	1.13	12.66	1.13	12.71	84.88	0.14
2023.85	0.40	42.42	2023.70	1.66	13.48	1.66	13.59	82.97	0.49
2117.98	0.39	69.48	2117.82	2.02	14.01	2.02	14.15	81.80	0.20
2212.11	0.24	102.53	2211.95	2.09	14.50	2.09	14.65	81.81	0.25
2306.24	0.40	74.85	2306.08	2.13	15.02	2.13	15.17	81.92	0.23
2400.37	0.41	70.34	2400.21	2.33	15.65	2.33	15.82	81.53	0.03
2494.50	0.36	126.44	2494.34	2.27	16.21	2.27	16.36	82.04	0.39
2588.63	0.44	95.80	2588.46	2.05	16.80	2.05	16.93	83.03	0.24
2682.76	0.32	85.92	2682.59	2.04	17.43	2.04	17.55	83.34	0.14
2776.89	0.28	89.60	2776.72	2.06	17.92	2.06	18.04	83.46	0.05
2871.02	0.52	62.05	2870.85	2.26	18.52	2.26	18.66	83.05	0.32
2965.15	0.52	94.58	2964.97	2.42	19.32	2.42	19.47	82.85	0.31
3059.28	0.26	116.06	3059.10	2.30	19.93	2.30	20.07	83.43	0.31
3153.41	0.42	36.93	3153.23	2.48	20.33	2.48	20.48	83.05	0.47
3247.54	0.24	93.79	3247.36	2.74	20.73	2.74	20.91	82.47	0.37
3341.67	0.39	312.71	3341.49	2.95	20.69	2.95	20.89	81.89	0.63
3435.80	0.57	94.60	3435.62	3.13	20.92	3.13	21.15	81.50	0.97
3529.93	0.47	71.86	3529.74	3.21	21.75	3.21	21.99	81.60	0.24
3624.06	0.54	54.66	3623.87	3.59	22.48	3.59	22.77	80.94	0.17
3718.19	0.34	98.72	3718.00	3.80	23.12	3.80	23.43	80.67	0.40
3812.32	0.41	193.80	3812.13	3.43	23.32	3.43	23.57	81.63	0.59
3906.45	0.38	102.95	3906.25	3.03	23.55	3.03	23.74	82.66	0.60
4000.58	0.47	118.05	4000.38	2.78	24.20	2.78	24.35	83.45	0.15
4094.71	0.51	77.38	4094.51	2.69	24.94	2.69	25.09	83.85	0.36
4188.84	0.39	120.56	4188.64	2.62	25.62	2.62	25.76	84.17	0.37
4282.97	0.35	81.23	4282.76	2.50	26.18	2.50	26.30	84.55	0.27
4377.10	0.41	69.52	4376.89	2.66	26.78	2.66	26.91	84.33	0.10
4471.23	0.11	355.72	4471.02	2.87	27.09	2.87	27.24	83.95	0.42
4565.36	0.52	33.25	4565.15	3.32	27.31	3.32	27.51	83.07	0.46
4659.49	0.31	36.66	4659.28	3.88	27.70	3.88	27.97	82.03	0.23
4753.62	0.51	38.94	4753.41	4.40	28.11	4.40	28.45	81.10	0.21
4847.75	0.36	87.59	4847.53	4.74	28.67	4.74	29.06	80.61	0.41
4941.88	0.57	83.19	4941.66	4.81	29.43	4.81	29.82	80.72	0.22
5036.01	0.57	72.04	5035.78	5.01	30.34	5.01	30.75	80.63	0.12
5130.14	0.53	104.22	5129.91	5.05	31.22	5.05	31.62	80.82	0.33
5224.27	0.52	125.24	5224.04	4.69	31.99	4.69	32.33	81.66	0.20
5318.40	0.58	94.31	5318.16	4.41	32.82	4.41	33.11	82.35	0.32
5412.53	0.50	104.44	5412.29	4.27	33.69	4.27	33.96	82.78	0.13

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5506.66	0.55	57.99	5506.41	4.41	34.47	4.41	34.75	82.71	0.44
5600.79	0.58	83.76	5600.54	4.70	35.33	4.70	35.64	82.42	0.27
5694.92	0.34	84.07	5694.67	4.78	36.08	4.78	36.40	82.45	0.26
5789.05	0.43	73.72	5788.80	4.91	36.70	4.91	37.03	82.38	0.13
5883.18	0.34	25.13	5882.92	5.26	37.16	5.26	37.53	81.94	0.35
5977.31	0.19	12.29	5977.05	5.67	37.31	5.67	37.74	81.37	0.17
6071.44	0.31	328.42	6071.18	6.03	37.21	6.03	37.70	80.79	0.23
6165.57	0.16	228.05	6165.31	6.16	36.98	6.16	37.49	80.54	0.40
6259.70	0.33	248.52	6259.44	5.97	36.63	5.97	37.11	80.74	0.20
6353.83	0.31	265.08	6353.57	5.85	36.12	5.85	36.59	80.80	0.10
6447.96	0.40	229.35	6447.70	5.61	35.62	5.61	36.06	81.04	0.25
6542.09	0.17	233.80	6541.83	5.32	35.26	5.32	35.65	81.43	0.24
6636.22	0.31	282.02	6635.95	5.29	34.89	5.29	35.29	81.39	0.25
6730.35	0.37	281.12	6730.08	5.40	34.34	5.40	34.77	81.07	0.07
6824.48	0.50	276.11	6824.21	5.50	33.64	5.50	34.09	80.71	0.14
6918.61	0.68	273.06	6918.34	5.57	32.68	5.57	33.15	80.32	0.20
7012.74	0.88	274.87	7012.46	5.66	31.40	5.66	31.91	79.78	0.22
7106.87	1.07	260.47	7106.57	5.58	29.81	5.58	30.33	79.40	0.33
7201.00	1.20	269.15	7200.68	5.42	27.95	5.42	28.47	79.03	0.23
7295.13	1.21	248.28	7294.79	5.04	26.05	5.04	26.53	79.06	0.46
7389.26	1.43	239.37	7388.90	4.07	24.11	4.07	24.46	80.42	0.32
7483.39	1.61	211.19	7483.00	2.34	22.42	2.34	22.54	84.04	0.81
7577.52	1.67	210.11	7577.09	0.02	21.04	0.02	21.04	89.95	0.07
7671.65	2.04	212.93	7671.17	-2.57	19.44	-2.57	19.61	97.54	0.41
7765.78	2.01	227.42	7765.24	-5.09	17.32	-5.09	18.05	106.39	0.54
7859.91	2.07	213.87	7859.31	-7.62	15.16	-7.62	16.97	116.70	0.52
7954.04	2.62	203.17	7953.36	-11.01	13.36	-11.01	17.32	129.49	0.75
8048.17	2.71	205.25	8047.39	-15.00	11.57	-15.00	18.94	142.36	0.14
8142.30	2.55	199.93	8141.42	-18.98	9.91	-18.98	21.41	152.44	0.31
8236.43	2.71	208.89	8235.45	-22.90	8.12	-22.90	24.30	160.49	0.47
8330.56	2.30	200.40	8329.49	-26.62	6.38	-26.62	27.37	166.52	0.59
8424.69	2.32	203.38	8423.55	-30.13	4.97	-30.13	30.54	170.63	0.13
8518.82	2.12	212.30	8517.61	-33.35	3.29	-33.35	33.51	174.37	0.42
8612.95	2.09	188.45	8611.68	-36.52	2.10	-36.52	36.58	176.70	0.92
8707.08	2.21	190.29	8705.74	-39.99	1.53	-39.99	40.02	177.81	0.15
8801.21	2.17	187.18	8799.80	-43.55	0.98	-43.55	43.56	178.71	0.13
8895.34	1.78	187.62	8893.88	-46.76	0.57	-46.76	46.76	179.31	0.42
8989.47	1.79	189.71	8987.96	-49.66	0.12	-49.66	49.66	179.86	0.07
9083.60	1.48	188.60	9082.05	-52.30	-0.31	-52.30	52.30	180.33	0.33

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
9119.00	1.37	196.39	9117.44	-53.16	-0.49	-53.16	53.16	180.53	0.62



VES Survey International
Midland, TX
432-563-5444
Surveyor: Andrew Askew
Cletus 28 State Com No 004H / API 30-015-42625



VES Survey Date: 12/27/2014



Weatherford

Evaluation, Drilling & Intervention
10000 West County Rd. 116
P.O. Box 61028
Midland, TX USA 79711
Tel. (432) 561-8892 Fax (432) 561-8895

Devon Energy
333 W. Sherridan Ave
Oklahoma City, OK, 73102

Date: January 15, 2015

Attention: Scott Schmidt

Re: Devon Energy
Well: Cletus 28 State Com 4H
Eddy County, New Mexico

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:

<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Jesus Lopez	4H	6228 MD	12/29/2014	Measurement
MWD Supervisor		11111 MD	1/14/2015	While Drilling

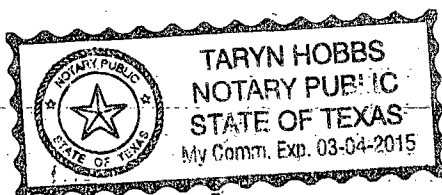
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesus Aguilar
MWD Coordinator

On this, the 21st day of January, 2015, 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:** *Cletus 28 State Com 4H***Well Name:** *Cletus 28 State Com 4H Lateral***Survey:** *Wft MWD Svy*

14 January 2015

**Weatherford®**

Cletus 28 State Com 4H Lateral

Field Name Eddy Co, NM (Nad 83 NME)	Map Units : US ft Vertical Reference Datum (VRD) : Mean Sea Level Projected Coordinate System : NAD83 / New Mexico East (ftUS) Comment :	Company Name : Devon Energy
Site Name Cletus 28 State Com 4H	Units : US ft North Reference : Grid Convergence Angle : 0.02 Position Northing : 461385.85 US ft Latitude : 32° 16' 6.30" Easting : 554176.73 US ft Longitude : -104° 17' 30.46" Elevation above Mean Sea Level: 3338.00 US ft Comment :	
Slot Name Cletus 28 State Com 4H	Position (Offsets relative to Site Centre) +N / -S : 0.00 US ft Northing : 461385.85 US ft Latitude : 32° 16' 6.30" +E / -W : 0.00 US ft Easting : 554176.73 US ft Longitude : -104° 17' 30.46" Elevation above Mean Sea Level : 3338.00 US ft Comment :	
Well Name Cletus 28 State Com 4H Lateral	Type : Sidetrack UWI : Parent : Cletus 28 State Com 4H Pilot Tie Point Method : MD Tie Point : 6071.44 US ft Rig Height Well TVD Reference : 25.00 US ft Comment : Relative to Mean Sea Level: 3363.00 US ft Closure Distance : 4766.97 US ft Closure Azimuth : 0.263124° Vertical Section (Position of Origin Relative to Slot) +N / -S : 0.00 US ft +E / -W : 0.00 US ft Az : 0.02°	

Survey Name: Wft MWD Svy

Date : 07/Jan/2015

Survey Tool : MWD

Comment :

Company :

Magnetic Model

Model Name: BGGM

Date: 23/Dec/2014

Field Strength:
48182.1 nT

Declination: 7.66°

Dip: 60.00°

Tie Point

MD: 6071.44

Inclination: 0.31 Azimuth: 328.42

TVD: 6071.18

North Offset: 6.03644

East Offset: 37.1932

Well path created using minimum curvature

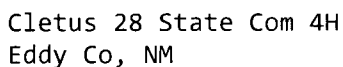
Survey Points (Relative to Slot centre, TVD relative to Well TVD Reference)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Comment	
6228.00	13.91	23.96	6226.19	23.68	44.65	23.69	0.00	461409.53	554221.38	First Wft Svy	
6259.00	18.29	24.12	6255.97	31.53	48.15	31.54	14.13	461417.38	554224.88		
6291.00	22.05	24.60	6286.00	41.57	52.71	41.59	11.76	461427.42	554229.44		
6322.00	25.83	25.35	6314.33	52.97	58.02	52.99	12.23	461438.82	554234.75		
6353.00	28.56	24.27	6341.90	65.83	63.96	65.86	8.95	461451.68	554240.69		
6385.00	29.97	19.88	6369.81	80.33	69.82	80.35	8.02	461466.18	554246.55		
6417.00	31.68	16.17	6397.30	95.92	74.88	95.94	7.99	461481.77	554251.61		
6448.00	34.86	12.76	6423.21	112.38	79.11	112.41	11.90	461498.23	554255.84		
6479.00	37.47	10.80	6448.24	130.29	82.83	130.32	9.21	461516.14	554259.56		
6511.00	40.46	9.49	6473.12	150.09	86.37	150.12	9.69	461535.94	554263.10		
6542.00	44.20	7.97	6496.03	170.72	89.53	170.75	12.51	461556.57	554266.26		
6574.00	48.25	6.96	6518.17	193.63	92.52	193.66	12.86	461579.48	554269.25		

5D Survey Report

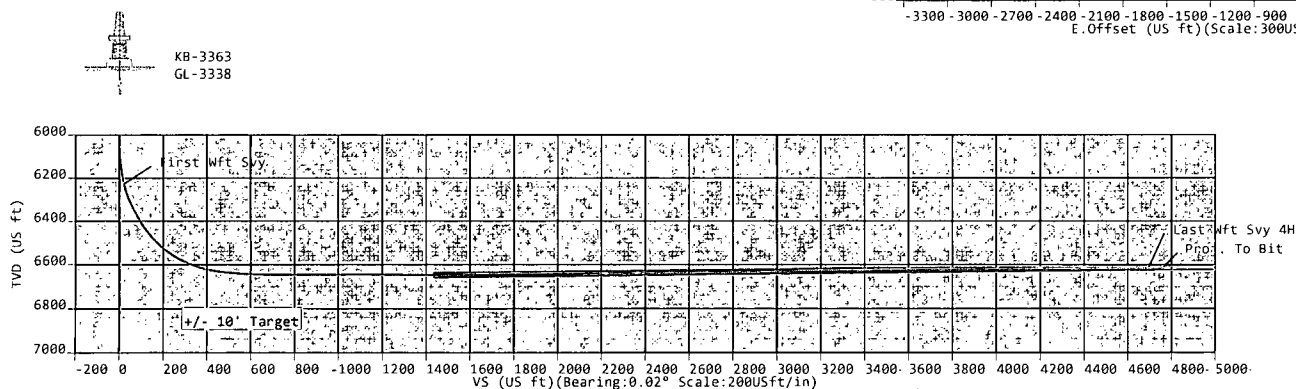
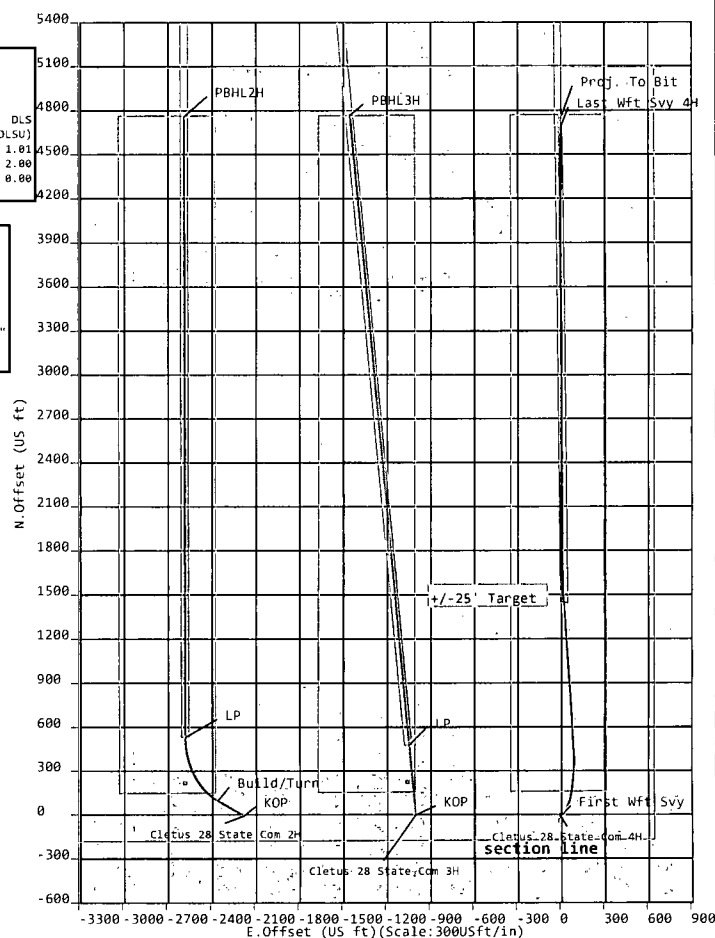
Survey Points (Relative to Slot centre, TVD relative to Well TVD Reference)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
6605.00	52.09	6.88	6538.02	217.26	95.39	217.29	12.39	461603.11	554272.12	
6636.00	56.76	6.32	6556.05	242.30	98.28	242.33	15.14	461628.15	554275.01	
6668.00	61.08	5.55	6572.56	269.55	101.11	269.59	13.66	461655.40	554277.84	
6699.00	64.64	4.31	6586.70	297.03	103.48	297.07	12.02	461682.88	554280.21	
6731.00	68.29	2.41	6599.48	326.31	105.19	326.35	12.64	461712.16	554281.92	
6763.00	72.08	0.52	6610.33	356.40	105.95	356.44	13.08	461742.25	554282.68	
6794.00	75.29	358.02	6619.03	386.14	105.57	386.18	12.93	461771.99	554282.30	
6826.00	79.02	356.20	6626.15	417.30	103.99	417.33	12.91	461803.15	554280.72	
6857.00	81.92	356.23	6631.28	447.80	101.97	447.83	9.36	461833.65	554278.70	
6882.00	83.06	355.91	6634.55	472.52	100.27	472.56	4.73	461858.37	554277.00	
6914.00	84.47	356.14	6638.02	504.26	98.07	504.29	4.46	461890.11	554274.80	
6945.00	85.38	356.39	6640.76	535.07	96.06	535.10	3.04	461920.92	554272.79	
6976.00	86.36	357.00	6643.00	565.94	94.28	565.97	3.72	461951.79	554271.01	
7008.00	87.27	357.11	6644.78	597.85	92.63	597.88	2.86	461983.70	554269.36	
7039.00	88.04	357.06	6646.04	628.78	91.06	628.81	2.49	462014.63	554267.79	
7071.00	88.81	357.05	6646.92	660.73	89.42	660.76	2.41	462046.58	554266.15	
7102.00	89.30	356.90	6647.43	691.68	87.78	691.71	1.65	462077.53	554264.51	
7133.00	89.93	356.32	6647.64	722.62	85.95	722.65	2.76	462108.47	554262.68	
7165.00	90.00	356.35	6647.66	754.56	83.90	754.59	0.24	462140.41	554260.63	
7196.00	90.07	355.27	6647.64	785.47	81.64	785.50	3.49	462171.32	554258.37	
7290.00	90.14	356.28	6647.47	879.22	74.71	879.24	1.08	462265.07	554251.44	
7384.00	90.21	356.02	6647.18	973.00	68.40	973.03	0.29	462358.85	554245.13	
7478.00	90.21	355.42	6646.84	1066.74	61.38	1066.76	0.64	462452.59	554238.11	
7572.00	89.58	356.36	6647.01	1160.50	54.65	1160.52	1.20	462546.35	554231.38	
7666.00	89.72	356.27	6647.59	1254.30	48.61	1254.32	0.18	462640.15	554225.34	
7760.00	89.09	355.61	6648.56	1348.06	41.95	1348.07	0.97	462733.91	554218.68	
7854.00	89.86	356.17	6649.42	1441.81	35.21	1441.82	1.01	462827.66	554211.94	
7949.00	90.07	356.93	6649.48	1536.64	29.50	1536.65	0.83	462922.49	554206.23	
8042.00	89.79	357.38	6649.60	1629.52	24.88	1629.53	0.57	463015.37	554201.61	
8137.00	90.07	358.66	6649.71	1724.47	21.60	1724.47	1.38	463110.32	554198.33	
8231.00	90.28	359.37	6649.42	1818.45	19.98	1818.46	0.79	463204.30	554196.71	
8325.00	91.19	359.46	6648.22	1912.44	19.02	1912.44	0.97	463298.29	554195.75	
8419.00	91.26	359.78	6646.21	2006.41	18.40	2006.42	0.35	463392.26	554195.13	
8513.00	91.26	359.79	6644.14	2100.39	18.05	2100.40	0.01	463486.24	554194.78	
8607.00	91.26	0.00	6642.07	2194.37	17.88	2194.37	0.22	463580.22	554194.61	
8701.00	91.12	359.94	6640.12	2288.35	17.83	2288.35	0.16	463674.20	554194.56	
8795.00	91.05	0.03	6638.34	2382.33	17.80	2382.34	0.12	463768.18	554194.53	
8889.00	90.84	359.96	6636.79	2476.32	17.79	2476.32	0.24	463862.17	554194.52	
8984.00	90.56	0.06	6635.63	2571.31	17.81	2571.32	0.31	463957.16	554194.54	
9078.00	90.42	0.10	6634.83	2665.31	17.94	2665.31	0.15	464051.16	554194.67	
9172.00	90.91	0.13	6633.74	2759.30	18.13	2759.31	0.52	464145.15	554194.86	
9266.00	91.82	0.17	6631.50	2853.27	18.38	2853.28	0.97	464239.12	554195.11	
9361.00	91.75	0.31	6628.54	2948.22	18.77	2948.23	0.16	464334.07	554195.50	
9455.00	91.96	0.43	6625.50	3042.17	19.38	3042.18	0.26	464428.02	554196.11	
9549.00	91.82	359.67	6622.40	3136.12	19.46	3136.13	0.82	464521.97	554196.19	
9643.00	90.63	359.23	6620.39	3230.09	18.56	3230.10	1.35	464615.94	554195.29	
9737.00	90.49	359.40	6619.47	3324.08	17.44	3324.09	0.23	464709.93	554194.17	
9831.00	90.42	359.38	6618.72	3418.07	16.44	3418.08	0.08	464803.92	554193.17	
9925.00	90.35	359.44	6618.09	3512.07	15.47	3512.07	0.10	464897.92	554192.20	
10019.00	90.28	359.65	6617.57	3606.06	14.72	3606.07	0.24	464991.91	554191.45	
10113.00	90.14	359.56	6617.23	3700.06	14.07	3700.06	0.18	465085.91	554190.80	
10208.00	90.00	359.46	6617.11	3795.06	13.26	3795.06	0.18	465180.91	554189.99	
10302.00	89.72	359.88	6617.34	3889.05	12.72	3889.06	0.54	465274.90	554189.45	
10396.00	90.56	0.45	6617.11	3983.05	12.99	3983.06	1.08	465368.90	554189.72	
10490.00	90.42	0.47	6616.31	4077.05	13.75	4077.05	0.15	465462.90	554190.48	
10584.00	90.28	0.26	6615.73	4171.04	14.34	4171.05	0.27	465556.89	554191.07	
10677.00	90.00	0.41	6615.51	4264.04	14.89	4264.04	0.34	465649.89	554191.62	
10772.00	90.21	0.80	6615.33	4359.03	15.89	4359.04	0.47	465744.88	554192.62	
10866.00	90.35	1.45	6614.87	4453.01	17.74	4453.02	0.71	465838.86	554194.47	

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
10960.00	91.26	0.67	6613.55	4546.99	19.48	4546.99	1.27	465932.84	554196.21	
11054.00	91.40	0.72	6611.37	4640.96	20.61	4640.96	0.16	466026.81	554197.34	
11111.00	91.26	0.54	6610.05	4697.94	21.24	4697.94	0.40	466083.79	554197.97	Last Wft Svy 4H
11180.00	91.26	0.54	6608.53	4766.92	21.89	4766.92	0.00	466152.77	554198.62	Proj. To Bit



Cletus	28	State	Com	4H	Lateral	_____
Cletus	28	State	Com	3H	Lateral	_____
Cletus	28	State	Com	2H		_____
Cletus	28	State	Com	3H	Pilot	_____
Cletus	28	State	Com	4H	Pilot	_____
Cletus	28	State	Com	4H	Lateral	_____



Sign Off: Russell Joyner



Directional Survey

Sub-Division DELAWARE BASIN	County EDDY	Field Name HAPPY VALLEY	Region DELAWARE SLOPE WEST	State/Province NM
Surface Legal Location SEC28-23S 26E	API/UWI 3001542625	Latitude (°) 32° 16' 6.303" N	Longitude (°) 104° 17' 30.456" W	Ground Elev M 3,337.70
				Orig KB Elev (ft) 3,362.70
				Tubing Head Elevation (ft)

Wellbore Name OH	Parent Wellbore OH	SAP Well ID 37563	Vertical Section Direction (°) 0.02
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Kick Offs & Key Depths	
Date	Type
Actual Deviation Survey	Definitive?
Proposed?	Proposed Deviation Survey

Deviation Survey	
Date	Description
MD Tie In (ftKB)	TVD Tie In (ftKB)
Inclination Tie In (°)	Azimuth Tie In (°)
NSTie In (ft)	EWTie In (ft)

Survey Data										
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
Wellbore Name ST01				Parent Wellbore OH		SAP Well ID			Vertical Section Direction (°) 359.59	

Kick Offs & Key Depths	
Date	Type
Actual Deviation Survey MWD, Proposed? No	Definitive? Yes
Proposed? No	Proposed Deviation Survey

Deviation Survey	
Date 1/5/2015	Description MWD
MD Tie In (ftKB)	TVD Tie In (ftKB)
Inclination Tie In (°)	Azimuth Tie In (°)
NSTie In (ft)	EWTie In (ft)

Survey Data										
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
12/29/2...	0.00	0.00	0.00	0.00	0.00	0.00	0.00		GYRO	VAUHGN ENERGY SERVICES
12/29/2...	141.25	0.53	55.10	141.25	0.37	0.37	0.54	0.38	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	235.38	0.69	344.06	235.37	1.16	1.17	0.74	0.77	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	329.51	0.98	326.13	329.49	2.38	2.38	0.13	0.41	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	423.64	0.93	319.31	423.61	3.63	3.63	-0.81	0.13	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	517.77	0.67	255.14	517.73	4.08	4.07	-1.84	0.93	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	611.90	0.36	162.71	611.86	3.66	3.64	-2.29	0.82	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	706.03	0.59	152.19	705.99	2.95	2.93	-1.97	0.26	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	800.16	0.63	135.12	800.11	2.15	2.14	-1.38	0.20	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	894.29	0.86	99.81	894.23	1.65	1.65	-0.32	0.53	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	988.42	0.64	119.49	988.36	1.26	1.27	0.83	0.36	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	1,082.55	0.70	103.92	1,082.48	0.86	0.87	1.85	0.20	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	1,176.68	0.44	130.38	1,176.61	0.48	0.50	2.68	0.39	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	1,270.81	0.74	81.86	1,270.73	0.33	0.35	3.56	0.59	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	1,364.94	1.20	88.71	1,364.85	0.42	0.46	5.15	0.50	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	1,459.07	1.01	110.14	1,458.96	0.15	0.20	6.91	0.48	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	1,553.20	0.79	97.71	1,553.08	-0.23	-0.17	8.33	0.31	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	1,647.33	0.78	67.95	1,647.20	-0.09	-0.02	9.57	0.43	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	1,741.46	0.55	80.91	1,741.32	0.21	0.29	10.61	0.29	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	1,835.59	0.67	64.21	1,835.45	0.52	0.60	11.55	0.23	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	1,929.72	0.81	64.51	1,929.57	1.04	1.13	12.65	0.15	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	2,023.85	0.40	42.42	2,023.70	1.56	1.66	13.47	0.49	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	2,117.98	0.39	69.48	2,117.82	1.91	2.01	13.99	0.20	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	2,212.11	0.24	102.53	2,211.95	1.98	2.08	14.48	0.24	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	2,306.24	0.40	74.85	2,306.08	2.02	2.12	14.99	0.23	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	2,400.37	0.41	70.34	2,400.21	2.21	2.32	15.63	0.04	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	2,494.50	0.36	126.44	2,494.34	2.14	2.26	16.18	0.39	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	2,588.63	0.44	95.80	2,588.46	1.93	2.05	16.78	0.24	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	2,682.76	0.32	85.92	2,682.59	1.91	2.03	17.40	0.14	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	2,776.89	0.28	89.60	2,776.72	1.92	2.05	17.89	0.05	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	2,871.02	0.52	62.05	2,870.85	2.12	2.25	18.50	0.32	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	2,965.15	0.52	94.58	2,964.97	2.28	2.42	19.30	0.31	GYRO	VAUHGN ENERGY SERVICES



CLETUS 28 STATE COM 4H

DELAWARE BASIN UNRESTRICTED

Directional Survey

Sub-Division DELAWARE BASIN	County EDDY	Field Name HAPPY VALLEY	Region DELAWARE SLOPE WEST	State/Province NM
Surface Legal Location SEC28 23S 26E	API/UWI 3001542625	Latitude (°) 32° 16' 6" 303" N	Longitude (°) 104° 17' 30.456" W	Ground Elev M. 3,337.70
				Orig KB Elev (ft) 3,362.70
				Tubing Head Elevation (ft)

Survey Data

Date	MD (ft/KB)	Incl (°)	Azm (°)	TVD (ft/KB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
12/29/2...	3,059.28	0.26	116.06	3,059.10	2.15	2.29	19.92	0.31	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	3,153.41	0.42	36.93	3,153.23	2.33	2.47	20.32	0.48	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	3,247.54	0.24	93.79	3,247.36	2.59	2.74	20.72	0.37	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	3,341.67	0.39	312.71	3,341.49	2.79	2.94	20.69	0.63	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	3,435.80	0.57	94.60	3,435.62	2.97	3.12	20.92	0.97	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	3,529.93	0.47	71.86	3,529.74	3.05	3.20	21.75	0.24	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	3,624.06	0.54	54.66	3,623.87	3.42	3.58	22.48	0.18	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	3,718.19	0.34	98.72	3,718.00	3.63	3.79	23.12	0.40	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	3,812.32	0.41	193.80	3,812.13	3.26	3.42	23.31	0.59	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	3,906.45	0.38	102.95	3,906.25	2.86	3.03	23.54	0.60	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	4,000.58	0.47	118.05	4,000.38	2.60	2.78	24.18	0.15	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	4,094.71	0.51	77.38	4,094.51	2.51	2.69	24.93	0.36	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	4,188.84	0.39	120.56	4,188.64	2.43	2.61	25.62	0.37	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	4,282.97	0.35	81.23	4,282.76	2.31	2.49	26.18	0.27	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	4,377.10	0.41	69.52	4,376.89	2.46	2.66	26.78	0.10	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	4,471.23	0.11	355.72	4,471.02	2.67	2.86	27.08	0.42	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	4,565.36	0.52	33.25	4,565.15	3.12	3.31	27.31	0.47	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	4,659.49	0.31	36.66	4,659.28	3.67	3.87	27.70	0.22	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	4,753.62	0.51	38.94	4,753.41	4.20	4.40	28.11	0.21	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	4,847.75	0.36	87.59	4,847.53	4.54	4.74	28.67	0.41	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	4,941.88	0.57	83.19	4,941.66	4.60	4.81	29.43	0.23	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	5,036.01	0.57	72.04	5,035.78	4.79	5.01	30.34	0.12	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	5,130.14	0.53	104.22	5,129.91	4.82	5.05	31.21	0.33	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	5,224.27	0.52	125.24	5,224.04	4.46	4.69	31.98	0.20	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	5,318.40	0.58	94.31	5,318.16	4.18	4.41	32.81	0.32	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	5,412.53	0.50	104.44	5,412.29	4.03	4.27	33.68	0.13	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	5,506.66	0.55	57.99	5,506.42	4.16	4.41	34.46	0.44	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	5,600.79	0.58	83.76	5,600.54	4.45	4.70	35.32	0.27	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	5,694.92	0.34	84.07	5,694.67	4.52	4.78	36.07	0.25	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	5,789.05	0.43	73.72	5,788.80	4.65	4.91	36.68	0.12	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	5,883.18	0.34	25.13	5,882.92	5.00	5.26	37.14	0.35	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	5,977.31	0.19	12.29	5,977.05	5.40	5.67	37.29	0.17	GYRO	VAUHGN ENERGY SERVICES
12/29/2...	6,071.44	0.31	328.42	6,071.18	5.77	6.04	37.19	0.23	GYRO	VAUHGN ENERGY SERVICES
1/6/2015	6,228.00	13.91	23.96	6,226.19	23.36	23.68	44.65	8.77	MWD	WEATHERFORD
1/6/2015	6,259.00	18.29	24.12	6,255.97	31.18	31.53	48.15	14.13	MWD	WEATHERFORD
1/7/2015	6,291.00	22.05	24.60	6,286.00	41.20	41.57	52.71	11.76	MWD	WEATHERFORD
1/7/2015	6,322.00	25.83	25.35	6,314.33	52.56	52.97	58.02	12.23	MWD	WEATHERFORD
1/7/2015	6,353.00	28.56	24.27	6,341.90	65.37	65.83	63.96	8.95	MWD	WEATHERFORD
1/7/2015	6,385.00	29.97	19.88	6,369.81	79.82	80.33	69.82	8.02	MWD	WEATHERFORD
1/7/2015	6,417.00	31.68	16.17	6,397.30	95.38	95.92	74.88	7.99	MWD	WEATHERFORD
1/7/2015	6,448.00	34.86	12.76	6,423.21	111.81	112.38	79.11	11.90	MWD	WEATHERFORD
1/7/2015	6,479.00	37.47	10.80	6,448.24	129.69	130.29	82.83	9.21	MWD	WEATHERFORD
1/7/2015	6,511.00	40.46	9.49	6,473.12	149.47	150.09	86.37	9.69	MWD	WEATHERFORD
1/7/2015	6,542.00	44.20	7.97	6,496.03	170.08	170.72	89.53	12.51	MWD	WEATHERFORD
1/7/2015	6,574.00	48.25	6.96	6,518.17	192.96	193.63	92.52	12.86	MWD	WEATHERFORD
1/7/2015	6,605.00	52.09	6.88	6,538.02	216.57	217.26	95.39	12.39	MWD	WEATHERFORD
1/7/2015	6,636.00	56.76	6.32	6,556.05	241.59	242.30	98.28	15.14	MWD	WEATHERFORD
1/7/2015	6,668.00	61.08	5.55	6,572.56	268.82	269.55	101.11	13.66	MWD	WEATHERFORD
1/7/2015	6,699.00	64.64	4.31	6,586.70	296.28	297.03	103.48	12.02	MWD	WEATHERFORD
1/7/2015	6,731.00	68.29	2.41	6,599.48	325.55	326.31	105.19	12.64	MWD	WEATHERFORD
1/7/2015	6,763.00	72.08	0.52	6,610.33	355.63	356.40	105.95	13.08	MWD	WEATHERFORD
1/8/2015	6,794.00	75.29	358.02	6,619.03	385.38	386.14	105.57	12.93	MWD	WEATHERFORD
1/8/2015	6,826.00	79.02	356.20	6,626.15	416.54	417.30	103.99	12.91	MWD	WEATHERFORD
1/8/2015	6,857.00	81.92	356.23	6,631.28	447.06	447.80	101.97	9.36	MWD	WEATHERFORD
1/8/2015	6,882.00	83.06	355.91	6,634.55	471.79	472.52	100.27	4.73	MWD	WEATHERFORD
1/9/2015	6,914.00	84.47	356.14	6,638.02	503.54	504.26	98.07	4.46	MWD	WEATHERFORD



Directional Survey

Sub-Division DELAWARE BASIN	County EDDY	Field Name HAPPY VALLEY	Region DELAWARE SLOPE WEST	State/Province NM
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Surface Legal Location SEC28 23S 26E	API/UWI 3001542625	Latitude (°) 32° 16' 6.303" N	Longitude (°) 104° 17' 30.456" W	Ground Elev. M. 3,337.70	Orig KB Elev (ft) 3,362.70	Tubing Head Elevation (ft)
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Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
1/9/2015	6,945.00	85.38	356.39	6,640.76	534.37	535.07	96.06	3.04	MWD	WEATHERFORD
1/9/2015	6,976.00	86.36	357.00	6,643.00	565.25	565.94	94.28	3.72	MWD	WEATHERFORD
1/9/2015	7,008.00	87.27	357.11	6,644.78	597.17	597.85	92.63	2.86	MWD	WEATHERFORD
1/9/2015	7,039.00	88.04	357.06	6,646.04	628.11	628.78	91.06	2.49	MWD	WEATHERFORD
1/9/2015	7,071.00	88.81	357.05	6,646.92	660.07	660.73	89.42	2.41	MWD	WEATHERFORD
1/9/2015	7,102.00	89.30	356.90	6,647.43	691.03	691.68	87.78	1.65	MWD	WEATHERFORD
1/9/2015	7,133.00	89.93	356.32	6,647.64	721.99	722.62	85.95	2.76	MWD	WEATHERFORD
1/9/2015	7,165.00	90.00	356.35	6,647.66	753.94	754.56	83.90	0.24	MWD	WEATHERFORD
1/9/2015	7,196.00	90.07	355.27	6,647.64	784.87	785.47	81.64	3.49	MWD	WEATHERFORD
1/9/2015	7,290.00	90.14	356.28	6,647.47	878.66	879.22	74.71	1.08	MWD	WEATHERFORD
1/9/2015	7,384.00	90.21	356.02	6,647.18	972.49	973.00	68.40	0.29	MWD	WEATHERFORD
1/9/2015	7,478.00	90.21	355.42	6,646.84	1,066.27	1,066.74	61.38	0.64	MWD	WEATHERFORD
1/10/2015	7,572.00	89.58	356.36	6,647.01	1,160.08	1,160.50	54.65	1.20	MWD	WEATHERFORD
1/10/2015	7,666.00	89.72	356.27	6,647.59	1,253.92	1,254.30	48.61	0.18	MWD	WEATHERFORD
1/10/2015	7,760.00	89.09	355.61	6,648.56	1,347.72	1,348.06	41.95	0.97	MWD	WEATHERFORD
1/10/2015	7,854.00	89.86	356.17	6,649.42	1,441.52	1,441.81	35.21	1.01	MWD	WEATHERFORD
1/10/2015	7,949.00	90.07	356.93	6,649.48	1,536.39	1,536.64	29.50	0.83	MWD	WEATHERFORD
1/10/2015	8,042.00	89.79	357.38	6,649.60	1,629.31	1,629.52	24.88	0.57	MWD	WEATHERFORD
1/10/2015	8,137.00	90.07	358.66	6,649.71	1,724.27	1,724.47	21.60	1.38	MWD	WEATHERFORD
1/10/2015	8,231.00	90.28	359.37	6,649.42	1,818.26	1,818.45	19.98	0.79	MWD	WEATHERFORD
1/11/2015	8,325.00	91.19	359.46	6,648.22	1,912.25	1,912.44	19.02	0.97	MWD	WEATHERFORD
1/11/2015	8,419.00	91.26	359.78	6,646.21	2,006.23	2,006.41	18.40	0.35	MWD	WEATHERFORD
1/11/2015	8,513.00	91.26	359.79	6,644.14	2,100.21	2,100.39	18.05	0.01	MWD	WEATHERFORD
1/11/2015	8,607.00	91.26	0.00	6,642.07	2,194.18	2,194.37	17.88	0.22	MWD	WEATHERFORD
1/11/2015	8,704.00	91.12	359.94	6,640.06	2,291.16	2,291.35	17.82	0.16	MWD	WEATHERFORD
1/11/2015	8,795.00	91.05	0.03	6,638.34	2,382.14	2,382.33	17.80	0.13	MWD	WEATHERFORD
1/11/2015	8,889.00	90.84	359.96	6,636.79	2,476.13	2,476.32	17.79	0.24	MWD	WEATHERFORD
1/11/2015	8,984.00	90.56	0.06	6,635.63	2,571.12	2,571.31	17.81	0.31	MWD	WEATHERFORD
1/11/2015	9,078.00	90.42	0.10	6,634.82	2,665.11	2,665.31	17.94	0.15	MWD	WEATHERFORD
1/11/2015	9,172.00	90.91	0.13	6,633.73	2,759.10	2,759.30	18.13	0.52	MWD	WEATHERFORD
1/11/2015	9,266.00	91.82	0.17	6,631.49	2,853.07	2,853.27	18.38	0.97	MWD	WEATHERFORD
1/11/2015	9,361.00	91.75	0.31	6,628.53	2,948.01	2,948.22	18.77	0.16	MWD	WEATHERFORD
1/11/2015	9,455.00	91.96	0.43	6,625.49	3,041.96	3,042.17	19.38	0.26	MWD	WEATHERFORD
1/11/2015	9,549.00	91.82	359.67	6,622.39	3,135.90	3,136.12	19.46	0.82	MWD	WEATHERFORD
1/12/2015	9,643.00	90.63	359.23	6,620.38	3,229.88	3,230.09	18.56	1.35	MWD	WEATHERFORD
1/12/2015	9,737.00	90.49	359.40	6,619.46	3,323.87	3,324.08	17.44	0.23	MWD	WEATHERFORD
1/12/2015	9,831.00	90.42	359.38	6,618.72	3,417.87	3,418.07	16.44	0.08	MWD	WEATHERFORD
1/12/2015	9,925.00	90.35	359.44	6,618.08	3,511.87	3,512.07	15.47	0.10	MWD	WEATHERFORD
1/12/2015	10,019.00	90.28	359.65	6,617.57	3,605.86	3,606.06	14.72	0.24	MWD	WEATHERFORD
1/12/2015	10,113.00	90.14	359.56	6,617.22	3,699.86	3,700.06	14.07	0.18	MWD	WEATHERFORD
1/12/2015	10,208.00	90.00	359.46	6,617.11	3,794.86	3,795.06	13.26	0.18	MWD	WEATHERFORD
1/12/2015	10,302.00	89.72	359.88	6,617.34	3,888.86	3,889.05	12.72	0.54	MWD	WEATHERFORD
1/12/2015	10,396.00	90.56	0.45	6,617.11	3,982.86	3,983.05	12.99	1.08	MWD	WEATHERFORD
1/12/2015	10,490.00	90.42	0.47	6,616.30	4,076.84	4,077.05	13.74	0.15	MWD	WEATHERFORD
1/13/2015	10,584.00	90.28	0.26	6,615.73	4,170.83	4,171.04	14.34	0.27	MWD	WEATHERFORD
1/13/2015	10,677.00	90.00	0.41	6,615.50	4,263.82	4,264.04	14.89	0.34	MWD	WEATHERFORD
1/13/2015	10,772.00	90.21	0.80	6,615.33	4,358.81	4,359.03	15.89	0.47	MWD	WEATHERFORD
1/13/2015	10,866.00	90.35	1.45	6,614.87	4,452.77	4,453.01	17.74	0.71	MWD	WEATHERFORD
1/13/2015	10,960.00	91.26	0.67	6,613.55	4,546.73	4,546.99	19.47	1.27	MWD	WEATHERFORD
1/13/2015	11,054.00	91.40	0.72	6,611.36	4,640.69	4,640.96	20.61	0.16	MWD	WEATHERFORD
1/13/2015	11,111.00	91.26	0.54	6,610.04	4,697.66	4,697.94	21.24	0.40	MWD	WEATHERFORD
1/13/2015	11,180.00	91.26	0.54	6,608.52	4,766.64	4,766.92	21.89	0.00	BIT	WEATHERFORD