



A GYRO TECHNOLOGIES INC. COMPANY

P.O. Box 261021
Corpus Christi, Texas 78426
(361) 767-0602 • (800) 606-GYRO • Fax (361) 767-0612

30-015-41761

March 6, 2014

Devon Energy Production Co. LP
333 West Sheridan Ave
Oklahoma City, Oklahoma 73102-5010

Attn: David Cook

Re: **Sirius 17 Federal No 006H**

Please find enclosed a copy of the survey from 0' to 7,375' 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

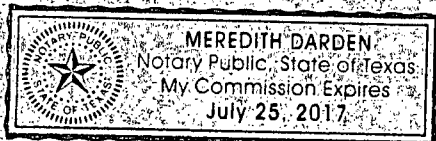
NM OIL CONSERVATION
ARTESIA DISTRICT

JUL 29 2014

RECEIVED

STATE OF TEXAS §
§
COUNTY OF NUECES §

This instrument was acknowledged before me on the 6th day of March
A.D. 2014, by Keith Havelka.




Meredith Darden
Notary Public, State of Texas



Company: Devon Energy
Lease/Well: Sirius 17 Federal/No 006H

Rig Name: McVay 10
State/County: New Mexico/Eddy
Latitude: 32.66, Longitude: -103.88
GRID North is 0.24 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB: 20'

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: gyro survey.ut
Minimum Curvature Method
Report Date/Time: 3/6/2014 / 14:16

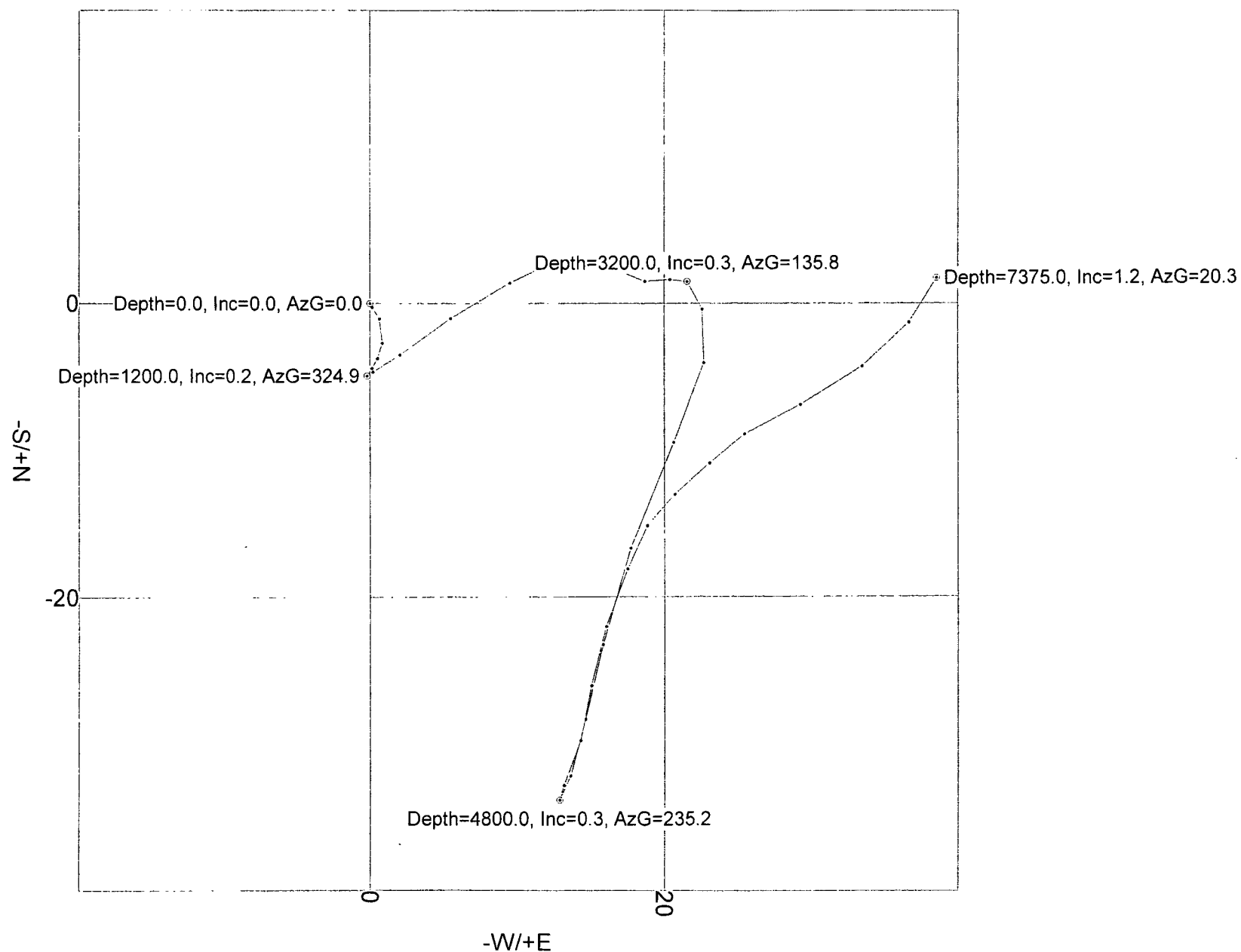
Vaughn Energy Services
Midland, TX
(432)-563-5444
Surveyor: Tim Dillon
Sirius 17 Federal No 006H / API 30-015-41761

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	****
200.00	0.17	148.77	200.00	-0.26	0.16	-0.26	0.30	148.77	0.09
400.00	0.35	148.18	400.00	-1.04	0.64	-1.04	1.22	148.47	0.09
600.00	0.64	186.49	599.99	-2.68	0.84	-2.68	2.80	162.63	0.21
800.00	0.12	286.80	799.99	-3.73	0.51	-3.73	3.76	172.25	0.34
1000.00	0.44	192.40	999.98	-4.42	0.14	-4.42	4.42	178.22	0.23
1200.00	0.17	324.94	1199.98	-4.93	-0.20	-4.93	4.94	182.34	0.29
1400.00	0.34	88.36	1399.98	-4.67	0.21	-4.67	4.67	177.40	0.23
1600.00	0.97	46.44	1599.97	-3.49	2.02	-3.49	4.03	149.87	0.38
1800.00	1.46	59.22	1799.92	-1.02	5.44	-1.02	5.53	100.60	0.28
2000.00	1.24	59.14	1999.87	1.40	9.49	1.40	9.59	81.61	0.11
2200.00	0.76	72.08	2199.84	2.92	12.61	2.92	12.95	76.97	0.27
2400.00	0.62	103.36	2399.82	3.08	14.92	3.08	15.24	78.35	0.20
2600.00	0.62	123.34	2599.81	2.23	16.88	2.23	17.03	82.47	0.11
2800.00	0.52	97.84	2799.80	1.51	18.69	1.51	18.75	85.38	0.13
3000.00	0.47	72.79	2999.79	1.63	20.39	1.63	20.45	85.42	0.11
3200.00	0.31	135.78	3199.79	1.49	21.55	1.49	21.60	86.05	0.22
3400.00	0.93	156.66	3399.78	-0.38	22.57	-0.38	22.57	90.97	0.32
3600.00	1.28	193.46	3599.74	-4.04	22.69	-4.04	23.05	100.09	0.39

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
3800.00	2.06	205.35	3799.66	-9.45	20.64	-9.45	22.70	114.61	0.42
4000.00	2.41	199.18	3999.50	-16.67	17.72	-16.67	24.33	133.26	0.21
4200.00	1.52	191.07	4199.39	-23.26	15.82	-23.26	28.13	145.77	0.47
4400.00	1.49	195.20	4399.32	-28.37	14.63	-28.37	31.92	152.72	0.06
4600.00	0.81	194.39	4599.27	-32.25	13.60	-32.25	35.00	157.14	0.34
4800.00	0.28	235.22	4799.27	-33.89	12.84	-33.89	36.25	159.25	0.31
5000.00	0.84	28.59	4999.26	-32.89	13.14	-32.89	35.42	158.22	0.55
5200.00	1.05	13.85	5199.23	-29.83	14.28	-29.83	33.07	154.42	0.16
5400.00	1.14	8.81	5399.20	-26.08	15.02	-26.08	30.10	150.06	0.07
5600.00	1.27	18.51	5599.15	-22.01	16.03	-22.01	27.23	143.94	0.12
5800.00	1.13	22.92	5799.11	-18.10	17.50	-18.10	25.18	135.96	0.08
6000.00	0.73	26.35	5999.08	-15.14	18.84	-15.14	24.17	128.79	0.20
6200.00	0.94	52.58	6199.06	-13.00	20.71	-13.00	24.45	122.12	0.22
6400.00	0.89	43.69	6399.04	-10.88	23.08	-10.88	25.52	115.24	0.08
6600.00	0.90	56.44	6599.01	-8.90	25.45	-8.90	26.96	109.27	0.10
6800.00	1.56	65.34	6798.96	-6.89	29.24	-6.89	30.04	103.27	0.35
7000.00	1.30	50.04	6998.90	-4.29	33.46	-4.29	33.74	97.31	0.23
7200.00	1.21	43.10	7198.85	-1.29	36.65	-1.29	36.68	92.01	0.09
7375.00	1.16	20.34	7373.82	1.72	38.53	1.72	38.57	87.44	0.27



Vaughn Energy Services
Midland, TX
(432)-563-5444
Surveyor: Tim Dillon
Sirius 17 Federal No 006H / API 30-015-41761



VES Survey Date: 02/17/2014

Directional SIRIUS 17 FED COM 6H P1 SVY.TXT

Weatherford
wft Plan Report X Y's.

Company: Devon Energy
Time: 12:26:12 Page: 1
Field: Eddy Co., NM (NAD 83)
Reference: Well: Sirius 17 Fed Com 6H, Grid North
Site: Sirius 17 Fed Com 6H
Reference: SITE 3488.0
Well: Sirius 17 Fed Com 6H
Reference: Well (0.00N,0.00E,270.14Azi)
Wellpath: 1
Method: Minimum Curvature Db: Sybase

Date: 3/8/2013
Co-ordinate(NE)
Vertical (TVD)
Section (VS)
Survey Calculation

Plan: Plan #1
3/8/2013

Date Composed:

1
Principal: Yes
From Surface

Version:

Tied-to:

Site: Sirius 17 Fed Com 6H

Site Position:
32 39 46.829 N
From: Map
103 53 1.276 W
Position Uncertainty: 0.00 ft
Grid
Ground Level: 3468.00 ft
0.24 deg

Northing: 605227.64 ft Latitude:
Easting: 679711.92 ft Longitude:
North Reference:
Grid Convergence:

Well: Sirius 17 Fed Com 6H

Slot Name:

Well Position: +N/-S 0.00 ft
32 39 46.829 N
+E/-W 0.00 ft
103 53 1.276 W
Position Uncertainty: 0.00 ft

Northing: 605227.64 ft Latitude:
Easting : 679711.92 ft Longitude:

Wellpath: 1
Surface

Drilled From:

Tie-on Depth:

0.00 ft
Current Datum: SITE
Datum: Mean Sea Level
Magnetic Data: 10/15/2013
7.48 deg
Field Strength: 48638 nT
60.48 deg

Height 3488.00 ft Above System

Declination:

Mag Dip Angle:

Vertical Section:Depth From (TVD)
Direction

+N/-S +E/-W

deg ft ft ft

270.14 0.00 0.00 0.00

Directional SIRIUS 17 FED COM 6H P1 SVY.TXT

Plan Section Information								
Turn	MD	Incl	Azim	TVD	+N/-S	+E/-W	DLS	Build
deg/100ft	ft	deg	deg	ft	ft	ft		
0.00	0.00	0.00	270.14	0.00	0.00	0.00	0.00	0.00
0.00	7537.54	0.00	270.14	7537.54	0.00	0.00	0.00	0.00
0.00	0.00	0.00						
0.00	8287.54	90.00	270.14	8015.00	1.20	-477.46	12.00	12.00
0.00	270.14							
0.00	12509.60	90.00	270.14	8015.00	11.84	-4699.51	0.00	0.00
0.00	0.00	PBHL						
Survey								

MD	Incl	Azim	TVD	N/S	E/W	VS	DLS
MapN		MapE		Comment			
ft	deg	ft	ft	ft	ft	ft	deg/100ft
7500.00	0.00	270.14	7500.00	0.00	0.00	0.00	0.00
605227.64		679711.92					
7537.54	0.00	270.14	7537.54	0.00	0.00	0.00	0.00
605227.64		679711.92	KOP				
7550.00	1.50	270.14	7550.00	0.00	-0.16	0.16	12.00
605227.64		679711.76					
7575.00	4.50	270.14	7574.96	0.00	-1.47	1.47	12.00
605227.64		679710.45					
7600.00	7.50	270.14	7599.82	0.01	-4.08	4.08	12.00
605227.65		679707.84					
7625.00	10.50	270.14	7624.51	0.02	-7.99	7.99	12.00
605227.66		679703.93					
7650.00	13.50	270.14	7648.96	0.03	-13.18	13.18	12.00
605227.67		679698.74					
7675.00	16.50	270.14	7673.11	0.05	-19.65	19.65	12.00
605227.69		679692.27					
7700.00	19.50	270.14	7696.88	0.07	-27.37	27.37	12.00
605227.71		679684.55					
7725.00	22.50	270.14	7720.22	0.09	-36.33	36.33	12.00
605227.73		679675.59					
7750.00	25.50	270.14	7743.06	0.12	-46.50	46.50	12.00
605227.76		679665.42					
7775.00	28.50	270.14	7765.33	0.15	-57.84	57.84	12.00
605227.79		679654.08					
7800.00	31.50	270.14	7786.98	0.18	-70.34	70.34	12.00
605227.82		679641.58					
7825.00	34.50	270.14	7807.95	0.21	-83.95	83.95	12.00
605227.85		679627.97					
7850.00	37.50	270.14	7828.17	0.25	-98.64	98.65	12.00
605227.89		679613.28					
7875.00	40.50	270.14	7847.60	0.29	-114.37	114.37	12.00
605227.93		679597.55					
7900.00	43.50	270.14	7866.17	0.33	-131.10	131.10	12.00
605227.97		679580.82					
7925.00	46.50	270.14	7883.85	0.37	-148.77	148.77	12.00
605228.01		679563.15					
7950.00	49.50	270.14	7900.58	0.42	-167.35	167.35	12.00
605228.06		679544.57					
7975.00	52.50	270.14	7916.31	0.47	-186.77	186.77	12.00

Directional SIRIUS 17 FED COM 6H P1 SVY.TXT							
605228.11	679525.15						
8000.00	55.50 270.14	7931.01	0.52	-207.00	207.00	12.00	
605228.16	679504.92						
8025.00	58.50 270.14	7944.62	0.57	-227.96	227.96	12.00	
605228.21	679483.96						
8050.00	61.50 270.14	7957.12	0.63	-249.61	249.61	12.00	
605228.27	679462.31						
8075.00	64.50 270.14	7968.47	0.68	-271.88	271.88	12.00	
605228.32	679440.04						
8100.00	67.50 270.14	7978.64	0.74	-294.71	294.71	12.00	
605228.38	679417.21						
8125.00	70.50 270.14	7987.60	0.80	-318.05	318.05	12.00	
605228.44	679393.87						
8150.00	73.50 270.14	7995.33	0.86	-341.82	341.82	12.00	
605228.50	679370.10						
8175.00	76.50 270.14	8001.80	0.92	-365.97	365.97	12.00	
605228.56	679345.95						
8200.00	79.50 270.14	8007.00	0.98	-390.42	390.42	12.00	
605228.62	679321.50						
8225.00	82.50 270.14	8010.91	1.05	-415.11	415.11	12.00	
605228.69	679296.81						
8250.00	85.50 270.14	8013.53	1.11	-439.97	439.97	12.00	
605228.75	679271.95						
8275.00	88.50 270.14	8014.84	1.17	-464.93	464.93	12.00	
605228.81	679246.99						
8287.54	90.00 270.14	8015.00	1.20	-477.46	477.46	12.00	
605228.84	679234.46						
8300.00	90.00 270.14	8015.00	1.23	-489.93	489.93	0.00	
605228.87	679221.99						
8400.00	90.00 270.14	8015.00	1.49	-589.93	589.93	0.00	
605229.13	679121.99						
8500.00	90.00 270.14	8015.00	1.74	-689.93	689.93	0.00	
605229.38	679021.99						
8600.00	90.00 270.14	8015.00	1.99	-789.93	789.93	0.00	
605229.63	678921.99						
8700.00	90.00 270.14	8015.00	2.24	-889.93	889.93	0.00	
605229.88	678821.99						
8800.00	90.00 270.14	8015.00	2.49	-989.93	989.93	0.00	
605230.13	678721.99						
8900.00	90.00 270.14	8015.00	2.75	-1089.93	1089.93	0.00	
605230.39	678621.99						
9000.00	90.00 270.14	8015.00	3.00	-1189.93	1189.93	0.00	
605230.64	678521.99						
9100.00	90.00 270.14	8015.00	3.25	-1289.93	1289.93	0.00	
605230.89	678421.99						
9200.00	90.00 270.14	8015.00	3.50	-1389.93	1389.93	0.00	
605231.14	678321.99						
9300.00	90.00 270.14	8015.00	3.75	-1489.92	1489.93	0.00	
605231.39	678222.00						
9400.00	90.00 270.14	8015.00	4.01	-1589.92	1589.93	0.00	
605231.65	678122.00						
9500.00	90.00 270.14	8015.00	4.26	-1689.92	1689.93	0.00	
605231.90	678022.00						
9600.00	90.00 270.14	8015.00	4.51	-1789.92	1789.93	0.00	
605232.15	677922.00						
9700.00	90.00 270.14	8015.00	4.76	-1889.92	1889.93	0.00	
605232.40	677822.00						

	Directional	SIRIUS 17	FED	COM 6H	P1 SVY.TXT		
9800.00	90.00 270.14	8015.00	5.01	-1989.92	1989.93	0.00	
605232.65	677722.00						
9900.00	90.00 270.14	8015.00	5.27	-2089.92	2089.93	0.00	
605232.91	677622.00						
10000.00	90.00 270.14	8015.00	5.52	-2189.92	2189.93	0.00	
605233.16	677522.00						
10100.00	90.00 270.14	8015.00	5.77	-2289.92	2289.93	0.00	
605233.41	677422.00						
10200.00	90.00 270.14	8015.00	6.02	-2389.92	2389.93	0.00	
605233.66	677322.00						
10300.00	90.00 270.14	8015.00	6.27	-2489.92	2489.93	0.00	
605233.91	677222.00						
10400.00	90.00 270.14	8015.00	6.53	-2589.92	2589.93	0.00	
605234.17	677122.00						
10500.00	90.00 270.14	8015.00	6.78	-2689.92	2689.93	0.00	
605234.42	677022.00						
10600.00	90.00 270.14	8015.00	7.03	-2789.92	2789.93	0.00	
605234.67	676922.00						
10700.00	90.00 270.14	8015.00	7.28	-2889.92	2889.93	0.00	
605234.92	676822.00						
10800.00	90.00 270.14	8015.00	7.53	-2989.92	2989.93	0.00	
605235.17	676722.00						
10900.00	90.00 270.14	8015.00	7.78	-3089.92	3089.93	0.00	
605235.42	676622.00						
11000.00	90.00 270.14	8015.00	8.04	-3189.92	3189.93	0.00	
605235.68	676522.00						
11100.00	90.00 270.14	8015.00	8.29	-3289.92	3289.93	0.00	
605235.93	676422.00						
11200.00	90.00 270.14	8015.00	8.54	-3389.92	3389.93	0.00	
605236.18	676322.00						
11300.00	90.00 270.14	8015.00	8.79	-3489.92	3489.93	0.00	
605236.43	676222.00						
11400.00	90.00 270.14	8015.00	9.04	-3589.92	3589.93	0.00	
605236.68	676122.00						
11500.00	90.00 270.14	8015.00	9.30	-3689.92	3689.93	0.00	
605236.94	676022.00						
11600.00	90.00 270.14	8015.00	9.55	-3789.92	3789.93	0.00	
605237.19	675922.00						
11700.00	90.00 270.14	8015.00	9.80	-3889.92	3889.93	0.00	
605237.44	675822.00						
11800.00	90.00 270.14	8015.00	10.05	-3989.92	3989.93	0.00	
605237.69	675722.00						
11900.00	90.00 270.14	8015.00	10.30	-4089.92	4089.93	0.00	
605237.94	675622.00						
12000.00	90.00 270.14	8015.00	10.56	-4189.92	4189.93	0.00	
605238.20	675522.00						
12100.00	90.00 270.14	8015.00	10.81	-4289.92	4289.93	0.00	
605238.45	675422.00						
12200.00	90.00 270.14	8015.00	11.06	-4389.92	4389.93	0.00	
605238.70	675322.00						
12300.00	90.00 270.14	8015.00	11.31	-4489.92	4489.93	0.00	
605238.95	675222.00						
12400.00	90.00 270.14	8015.00	11.56	-4589.92	4589.93	0.00	
605239.20	675122.00						
12509.60	90.00 270.14	8015.00	11.84	-4699.51	4699.52	0.00	
605239.48	675012.41	PBHL					

Directional SIRIUS 17 FED COM 6H P1 SVY.TXT

weatherford
wft Plan Report X Y's.

Company: Devon Energy
Time: 12:26:12 Page: 3
Field: Eddy Co., NM (NAD 83)
Reference: Well: Sirius 17 Fed Com 6H, Grid North
Site: Sirius 17 Fed Com 6H
Reference: SITE 3488.0
Well: Sirius 17 Fed Com 6H
Reference: well (0.00N,0.00E,270.14Azi)
wellpath: 1
Method: Minimum Curvature Db: Sybase

Date: 3/8/2013
Co-ordinate(NE)
Vertical (TVD)
Section (VS)
Survey Calculation

Survey	MD	Incl	Azim	TVD	N/S	E/W	VS	DLS
MapN	ft	deg	deg	ft	ft	ft	ft	deg/100ft

Targets

Map	Name	Description	TVD	+N/-S	+E/-W	Map
Easting	Deg	Min	Sec	Deg	Min	Sec
ft	Dip.	Dir.	ft	ft	ft	ft
PBHL	8015.00	11.84	-4699.51	605239.48		
675012.41	32 39 47.140 N	103 53 56.250 W				

Casing Points	MD	TVD	Diameter	Hole Size	Name
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Annotation

MD	TVD	
ft	ft	
7537.54	7537.54	KOP
8287.54	8015.00	LP
12509.59	8015.00	PBHL