

Results of Directional Survey

API number:	30-025-40642		
OGRID:		Operator:	DEVON ENERGY PRODUCTION COMPANY, LP
		Property:	BUTTER CUP 35 STATE COM # 2H

surface	ULSTR:	I	35	T 18S	R 34E
				1550 FSL	250 FEL

BH Loc	ULSTR:	L	35	T 18S	R 34E
15177 MD		10604.7	TVD	1970 FSL	323 FWL
					4957 FEL

Top Perf/OH	ULSTR:	I	35	T 18S	R 34E
10600 MD		10532.1	TVD	1597 FSL	439 FEL

Bot Perf/OH	ULSTR:	L	35	T 18S	R 34E
15104 MD		10609.7	TVD	1963 FSL	406 FWL
					4884 FEL

	MD	N/S	E/W	VD
	10589	45.21	-180.45	10524.93
TOP PERFS/OH	10600	46.91	-188.60	10532.12
	10620	50.01	-203.42	10545.18
	15083	411.31	-4613.58	10611.12
BOT PERFS/OH	15104	413.27	-4634.44	10609.69
	15177	420.07	-4706.95	10604.71

NEXT TO LAST	15083	411.31	-4613.58	10611.12
LAST READING	15177	420.07	-4706.95	10604.71
TD	15177	420.07	-4706.95	10604.71

Surface Location	1550 FS	250 FE
Projected BHL	1970 FS	4957 FE
Location of		
Top Perfs/OH	1597 FS	439 FE
Bottom Perfs/OH	1963 FS	4884 FE

SUMMARY of Subsurface Locations

Surface Location	I-35-18S-34E	1550 FS	250 FE	Vert. Depth
Top Perfs/OH	I-35-18S-34E	1597 FS	439 FE	10532.12
Bottom Perfs/OH	L-35-18S-34E	1963 FS	4884 FE	10609.69
Projected TD	L-35-18S-34E	1970 FS	4957 FE	10604.71

AUG 15 2013



A GYRO TECHNOLOGIES INC. COMPANY

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

April 8, 2013

HOBBS OCD

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

JUL 10 2013

RECEIVED

Attn: Patti Riechers

Re: **Butter Cup 35 State Com No 002H**

Please find enclosed a copy of the survey from 0' to 10,067.20' ran on the above referenced well.

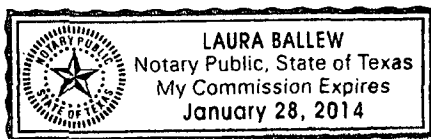
If I can be of any further service, please do not hesitate to call me at 800-606-4976.

Sincerely,

Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 8th day of April, A.D., 2013, by Keith Havelka.



Laura Ballew
Notary Public, State of Texas



Company: Devon Energy Production Co., LP
Lease/Well: Butter Cup 35 State Com/No 002H

Rig Name: McVay #8
State/County: New Mexico/Lea
Latitude: 32.70, Longitude: -103.52
GRID North is 0.44 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB=21 Feet

HOBBS OCD

JUL 10 2013

RECEIVED

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: ...35 st com #2h gyro survey1.ut

Minimum Curvature Method

Report Date/Time: 4/8/2013 / 10:15

Vaughn Energy Services

Midland, Texas

432-563-5444

Surveyor: Logan Henry

Butter Cup 35 State Com No 002H / API 30-025-40642

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	****
44.90	0.35	337.28	44.90	0.12	-0.05	0.12	0.14	337.28	0.77
139.45	0.38	314.35	139.45	0.61	-0.39	0.61	0.72	327.54	0.16
234.00	0.35	306.67	234.00	0.99	-0.84	0.99	1.30	319.90	0.06
328.55	0.45	280.41	328.54	1.23	-1.43	1.23	1.89	310.67	0.22
423.10	0.37	248.38	423.09	1.19	-2.09	1.19	2.40	299.58	0.25
517.65	0.46	238.36	517.64	0.87	-2.70	0.87	2.84	287.87	0.12
612.20	0.55	228.34	612.19	0.37	-3.37	0.37	3.39	276.21	0.13
706.75	0.64	218.32	706.73	-0.35	-4.04	-0.35	4.05	265.01	0.15
801.30	0.55	201.84	801.28	-1.19	-4.53	-1.19	4.69	255.31	0.21
895.85	0.23	168.49	895.82	-1.80	-4.66	-1.80	5.00	248.93	0.40
990.40	0.27	161.51	990.37	-2.20	-4.55	-2.20	5.06	244.24	0.05
1084.95	0.49	187.23	1084.92	-2.81	-4.53	-2.81	5.34	238.17	0.29
1179.50	0.29	182.88	1179.47	-3.46	-4.60	-3.46	5.75	233.06	0.22
1274.05	0.42	183.21	1274.02	-4.04	-4.63	-4.04	6.15	228.87	0.14
1368.60	0.42	169.38	1368.56	-4.73	-4.58	-4.73	6.59	224.10	0.11
1463.15	0.39	205.07	1463.11	-5.37	-4.66	-5.37	7.11	220.95	0.27
1557.70	0.43	147.86	1557.66	-5.96	-4.61	-5.96	7.54	217.72	0.42
1652.25	0.37	129.32	1652.21	-6.45	-4.19	-6.45	7.69	213.01	0.15

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
1746.80	0.31	194.45	1746.76	-6.89	-4.02	-6.89	7.98	210.26	0.39
1841.35	0.28	262.57	1841.30	-7.17	-4.32	-7.17	8.37	211.04	0.35
1935.90	0.35	230.22	1935.85	-7.39	-4.77	-7.39	8.79	212.85	0.20
2030.45	0.23	184.03	2030.40	-7.76	-5.00	-7.76	9.24	212.80	0.27
2125.00	0.51	137.40	2124.95	-8.26	-4.74	-8.26	9.52	209.81	0.41
2219.55	0.31	191.82	2219.50	-8.82	-4.51	-8.82	9.91	207.05	0.44
2314.10	0.38	103.28	2314.05	-9.15	-4.26	-9.15	10.09	204.96	0.51
2408.65	0.38	76.06	2408.59	-9.14	-3.65	-9.14	9.84	201.76	0.19
2503.20	0.53	46.86	2503.14	-8.77	-3.02	-8.77	9.27	199.02	0.29
2597.75	0.82	50.47	2597.69	-8.04	-2.18	-8.04	8.33	195.19	0.30
2692.30	1.07	62.06	2692.22	-7.19	-0.88	-7.19	7.25	186.99	0.33
2786.85	1.50	68.99	2786.75	-6.34	1.05	-6.34	6.42	170.59	0.48
2881.40	2.12	57.44	2881.25	-4.95	3.68	-4.95	6.17	143.42	0.76
2975.95	2.27	58.39	2975.73	-3.03	6.74	-3.03	7.39	114.20	0.16
3070.50	2.39	56.66	3070.20	-0.97	9.99	-0.97	10.03	95.53	0.15
3165.05	2.09	57.69	3164.68	1.04	13.09	1.04	13.13	85.47	0.33
3259.60	2.05	62.78	3259.17	2.73	16.05	2.73	16.28	80.34	0.20
3354.15	2.00	63.95	3353.66	4.23	19.03	4.23	19.50	77.47	0.07
3448.70	1.52	44.25	3448.17	5.85	21.39	5.85	22.18	74.70	0.81
3543.25	1.10	56.91	3542.69	7.24	23.02	7.24	24.14	72.53	0.54
3637.80	0.59	56.60	3637.23	8.01	24.19	8.01	25.48	71.69	0.54
3732.35	0.43	52.45	3731.78	8.49	24.88	8.49	26.29	71.15	0.17
3826.90	0.33	74.49	3826.33	8.78	25.42	8.78	26.90	70.94	0.19
3921.45	0.08	35.90	3920.88	8.91	25.72	8.91	27.22	70.90	0.29
4016.00	0.26	38.08	4015.42	9.13	25.89	9.13	27.45	70.58	0.20
4110.55	0.14	40.70	4109.97	9.38	26.10	9.38	27.74	70.22	0.13
4205.10	0.31	50.45	4204.52	9.64	26.37	9.64	28.08	69.93	0.19
4299.65	0.22	33.69	4299.07	9.95	26.67	9.95	28.47	69.54	0.13
4394.20	0.24	25.83	4393.62	10.28	26.86	10.28	28.76	69.06	0.04
4488.75	0.24	11.07	4488.17	10.65	26.98	10.65	29.01	68.47	0.06
4583.30	0.41	357.76	4582.72	11.18	27.01	11.18	29.23	67.52	0.19
4677.85	0.36	26.30	4677.27	11.78	27.13	11.78	29.57	66.53	0.21
4772.40	0.26	89.56	4771.82	12.04	27.47	12.04	30.00	66.33	0.36
4866.95	0.26	69.75	4866.36	12.12	27.89	12.12	30.41	66.51	0.10
4961.50	0.39	53.05	4960.91	12.39	28.35	12.39	30.94	66.40	0.17
5056.05	0.44	38.48	5055.46	12.86	28.83	12.86	31.57	65.95	0.12
5150.60	0.20	21.63	5150.01	13.31	29.12	13.31	32.02	65.44	0.27
5245.15	0.13	21.12	5244.56	13.57	29.22	13.57	32.22	65.10	0.07
5339.70	0.14	28.50	5339.11	13.77	29.32	13.77	32.39	64.84	0.02

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
5434.25	0.32	43.18	5433.66	14.07	29.55	14.07	32.73	64.55	0.20
5528.80	0.15	355.20	5528.21	14.38	29.72	14.38	33.02	64.18	0.26
5623.35	0.09	285.45	5622.76	14.52	29.65	14.52	33.01	63.90	0.15
5717.90	0.06	264.18	5717.31	14.53	29.53	14.53	32.91	63.79	0.04
5812.45	0.18	275.17	5811.86	14.54	29.33	14.54	32.74	63.63	0.14
5907.00	0.14	311.64	5906.41	14.63	29.10	14.63	32.57	63.30	0.12
6001.55	0.31	331.42	6000.96	14.93	28.89	14.93	32.52	62.67	0.19
6096.10	0.53	323.29	6095.50	15.50	28.51	15.50	32.45	61.47	0.24
6190.65	0.61	347.85	6190.05	16.34	28.15	16.34	32.54	59.87	0.27
6285.20	0.15	345.05	6284.60	16.95	28.01	16.95	32.74	58.83	0.48
6379.75	0.25	353.55	6379.15	17.27	27.95	17.27	32.86	58.30	0.11
6474.30	0.14	10.41	6473.70	17.58	27.95	17.58	33.02	57.83	0.13
6568.85	0.31	15.63	6568.24	17.93	28.04	17.93	33.28	57.40	0.18
6663.40	0.29	71.11	6662.79	18.25	28.33	18.25	33.70	57.21	0.29
6757.95	0.60	158.15	6757.34	17.87	28.74	17.87	33.84	58.13	0.69
6852.50	0.77	160.74	6851.88	16.81	29.13	16.81	33.63	60.02	0.18
6947.05	0.55	133.66	6946.43	15.89	29.67	15.89	33.66	61.82	0.40
7041.60	0.47	72.64	7040.98	15.70	30.37	15.70	34.18	62.66	0.55
7136.15	0.37	64.80	7135.52	15.94	31.02	15.94	34.87	62.79	0.12
7230.70	0.65	43.94	7230.07	16.46	31.67	16.46	35.69	62.53	0.35
7325.25	0.40	44.03	7324.61	17.09	32.27	17.09	36.52	62.09	0.26
7419.80	0.75	45.30	7419.16	17.77	32.95	17.77	37.43	61.66	0.37
7514.35	1.04	46.15	7513.70	18.80	34.00	18.80	38.85	61.07	0.30
7608.90	1.02	20.05	7608.23	20.18	34.91	20.18	40.32	59.97	0.49
7703.45	0.66	342.70	7702.77	21.48	35.04	21.48	41.10	58.48	0.67
7798.00	1.23	323.48	7797.31	22.81	34.27	22.81	41.17	56.35	0.68
7892.55	1.07	289.08	7891.84	23.91	32.84	23.91	40.62	53.94	0.73
7987.10	1.15	267.69	7986.38	24.17	31.05	24.17	39.35	52.11	0.44
8081.65	1.32	257.12	8080.90	23.88	29.04	23.88	37.60	50.57	0.30
8176.20	1.08	256.50	8175.43	23.43	27.11	23.43	35.83	49.16	0.25
8270.75	1.08	264.69	8269.97	23.14	25.35	23.14	34.33	47.61	0.16
8365.30	0.94	243.16	8364.50	22.71	23.77	22.71	32.88	46.31	0.42
8459.85	1.23	231.64	8459.03	21.72	22.28	21.72	31.12	45.72	0.38
8554.40	0.38	198.63	8553.57	20.80	21.38	20.80	29.83	45.80	0.99
8648.95	1.05	171.28	8648.12	19.65	21.42	19.65	29.06	47.47	0.78
8743.50	1.23	174.35	8742.65	17.78	21.65	17.78	28.01	50.59	0.20
8838.05	1.18	178.96	8837.18	15.81	21.76	15.81	26.90	54.01	0.11
8932.60	1.06	165.14	8931.71	13.99	22.01	13.99	26.08	57.55	0.31
9027.15	0.69	182.84	9026.25	12.58	22.20	12.58	25.52	60.46	0.48

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
9121.70	0.52	205.91	9120.79	11.63	21.98	11.63	24.87	62.13	0.31
9216.25	0.15	245.13	9215.34	11.19	21.68	11.19	24.40	62.71	0.44
9310.80	0.29	286.12	9309.89	11.20	21.34	11.20	24.10	62.30	0.22
9405.35	0.66	298.79	9404.44	11.53	20.63	11.53	23.63	60.79	0.41
9499.90	0.71	327.64	9498.98	12.29	19.83	12.29	23.33	58.20	0.37
9594.45	0.62	305.13	9593.53	13.09	19.10	13.09	23.15	55.58	0.29
9689.00	0.61	333.38	9688.07	13.83	18.46	13.83	23.06	53.16	0.32
9783.55	0.98	307.92	9782.61	14.77	17.59	14.77	22.97	49.98	0.53
9878.10	1.10	302.81	9877.15	15.76	16.19	15.76	22.60	45.78	0.16
9972.65	1.05	326.52	9971.68	16.97	14.96	16.97	22.62	41.39	0.47
10067.20	0.96	329.04	10066.21	18.37	14.07	18.37	23.14	37.45	0.10



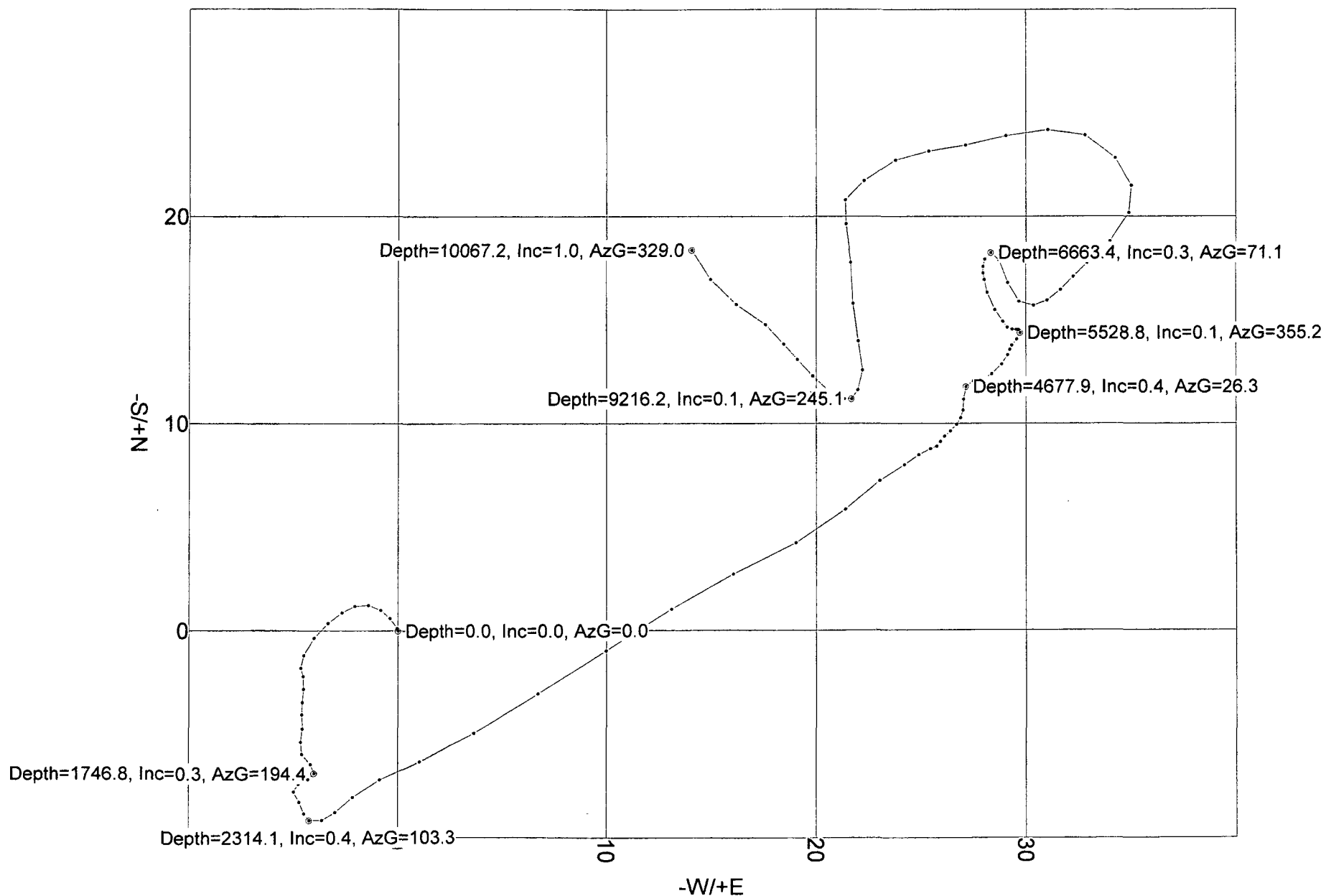
Vaughn Energy Services

Midland, Texas

432-563-5444

Surveyor: Logan Henry

Butter Cup 35 State Com No 002H / API 30-025-40642



VES Survey Date: 04/04/2013



BUTTER CUP 35 STATE COM 2H

WEST UNRESTRICTED

Directional Survey Data

District	County	Field Name	Project Group	State/Province			
PERMIAN BASIN	LEA	CORBIN	DELAWARE BASIN	NM			
Surface Legal Location	API/UWI	Latitude (°)	Longitude (°)	Ground Elev...	KB - GL (ft)	Orig KB Elev (ft)	Tubing Head Elevation (ft)
SEC35 T18S R34E	3002540642	32° 42' 4.42" N	103° 31' 23.49" W	3,971.20	18.00	3,989.20	
Wellbore Name	Parent Wellbore	Kick Off Depth (ftKB)				Vertical Section Direction (°)	
OH	OH					274.75	
Date	Definitive?	Description				Proposed?	
4/5/2013	Yes	MWD				No	
MD Tie In (ftKB)	TVD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NSTie In (ft)		EWTie In (ft)	
10,067.20	10,066.21	0.96	329.04	18.37		14.07	

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	EW (ft)	DLS (°/100ft)	Survey Tool	Survey Company
4/5/2013	10,148.00	0.70	298.47	10,147.00	-11.65	19.19	13.29	0.62	MWD	PATHFINDER E...
4/5/2013	10,180.00	2.37	281.42	10,178.99	-10.82	19.41	12.47	5.35	MWD	PATHFINDER E...
4/5/2013	10,211.00	6.42	275.62	10,209.89	-8.45	19.71	10.11	13.13	MWD	PATHFINDER E...
4/5/2013	10,243.00	10.90	273.16	10,241.52	-3.63	20.05	5.31	14.04	MWD	PATHFINDER E...
4/5/2013	10,274.00	15.83	271.49	10,271.67	3.52	20.32	-1.85	15.95	MWD	PATHFINDER E...
4/5/2013	10,306.00	21.19	271.05	10,302.00	13.66	20.54	-12.00	16.76	MWD	PATHFINDER E...
4/5/2013	10,337.00	26.29	270.52	10,330.37	26.11	20.71	-24.48	16.47	MWD	PATHFINDER E...
4/5/2013	10,369.00	30.78	271.84	10,358.48	41.36	21.03	-39.75	14.17	MWD	PATHFINDER E...
4/5/2013	10,401.00	35.53	274.57	10,385.26	58.85	22.04	-57.22	15.56	MWD	PATHFINDER E...
4/5/2013	10,432.00	39.22	277.64	10,409.89	77.65	24.06	-75.92	13.33	MWD	PATHFINDER E...
4/5/2013	10,464.00	41.24	279.75	10,434.32	98.26	27.19	-96.34	7.61	MWD	PATHFINDER E...
4/5/2013	10,493.00	42.03	281.69	10,456.00	117.42	30.78	-115.27	5.21	MWD	PATHFINDER E...
4/5/2013	10,525.00	42.56	282.57	10,479.67	138.78	35.30	-136.32	2.48	MWD	PATHFINDER E...
4/5/2013	10,557.00	44.85	282.92	10,502.80	160.67	40.18	-157.89	7.20	MWD	PATHFINDER E...
4/5/2013	10,589.00	47.66	282.21	10,524.93	183.57	45.21	-180.45	8.93	MWD	PATHFINDER E...
4/5/2013	10,620.00	50.74	281.42	10,545.18	206.86	50.01	-203.42	10.12	MWD	PATHFINDER E...
4/5/2013	10,652.00	53.82	281.16	10,564.76	232.00	54.96	-228.24	9.65	MWD	PATHFINDER E...
4/5/2013	10,681.00	56.81	281.07	10,581.26	255.70	59.56	-251.63	10.31	MWD	PATHFINDER E...
4/5/2013	10,712.00	59.44	280.28	10,597.63	281.88	64.43	-277.50	8.76	MWD	PATHFINDER E...
4/5/2013	10,744.00	61.73	278.43	10,613.34	309.66	68.96	-305.00	8.75	MWD	PATHFINDER E...
4/5/2013	10,775.00	63.58	277.20	10,627.58	337.16	72.70	-332.28	6.93	MWD	PATHFINDER E...
4/5/2013	10,807.00	65.33	275.27	10,641.38	366.02	75.83	-360.98	7.71	MWD	PATHFINDER E...
4/5/2013	10,838.00	68.06	273.60	10,653.64	394.49	78.03	-389.36	10.10	MWD	PATHFINDER E...
4/5/2013	10,870.00	71.84	272.90	10,664.61	424.53	79.73	-419.37	11.99	MWD	PATHFINDER E...
4/5/2013	10,933.00	80.20	274.30	10,679.82	485.60	83.58	-480.32	13.44	MWD	PATHFINDER E...
4/5/2013	11,028.00	92.42	272.02	10,685.92	580.18	88.78	-574.80	13.08	MWD	PATHFINDER E...
4/5/2013	11,123.00	93.12	272.81	10,681.33	674.98	92.78	-669.60	1.11	MWD	PATHFINDER E...
4/5/2013	11,218.00	93.74	272.81	10,675.65	769.76	97.43	-764.32	0.65	MWD	PATHFINDER E...
4/5/2013	11,312.00	94.44	272.63	10,668.94	863.46	101.88	-857.97	0.77	MWD	PATHFINDER E...
4/5/2013	11,407.00	94.18	272.99	10,661.80	958.14	106.52	-952.59	0.47	MWD	PATHFINDER E...
4/5/2013	11,502.00	93.65	273.78	10,655.32	1,052.89	112.12	-1,047.20	1.00	MWD	PATHFINDER E...
4/5/2013	11,597.00	92.07	274.92	10,650.58	1,147.76	119.31	-1,141.80	2.05	MWD	PATHFINDER E...
4/5/2013	11,692.00	92.42	275.41	10,646.86	1,242.69	127.86	-1,236.35	0.63	MWD	PATHFINDER E...
4/5/2013	11,786.00	91.71	275.27	10,643.47	1,336.62	136.60	-1,329.88	0.77	MWD	PATHFINDER E...
4/5/2013	11,881.00	91.36	275.36	10,640.93	1,431.58	145.40	-1,424.43	0.38	MWD	PATHFINDER E...
4/5/2013	11,976.00	90.13	275.36	10,639.69	1,526.57	154.27	-1,519.01	1.29	MWD	PATHFINDER E...
4/5/2013	12,071.00	90.22	275.45	10,639.40	1,621.56	163.22	-1,613.59	0.13	MWD	PATHFINDER E...
4/5/2013	12,166.00	88.11	274.92	10,640.78	1,716.54	171.80	-1,708.18	2.29	MWD	PATHFINDER E...
4/5/2013	12,261.00	87.85	274.83	10,644.13	1,811.48	179.87	-1,802.78	0.29	MWD	PATHFINDER E...
4/5/2013	12,356.00	90.31	275.18	10,645.66	1,906.46	188.16	-1,897.40	2.62	MWD	PATHFINDER E...
4/5/2013	12,451.00	91.45	277.47	10,644.20	2,001.41	198.62	-1,991.80	2.69	MWD	PATHFINDER E...
4/5/2013	12,546.00	90.57	277.12	10,642.52	2,096.30	210.68	-2,086.01	1.00	MWD	PATHFINDER E...
4/5/2013	12,641.00	91.01	277.29	10,641.21	2,191.20	222.60	-2,180.26	0.50	MWD	PATHFINDER E...
4/5/2013	12,736.00	91.89	277.47	10,638.81	2,286.07	234.80	-2,274.44	0.95	MWD	PATHFINDER E...
4/5/2013	12,830.00	91.36	276.85	10,636.14	2,379.95	246.51	-2,367.67	0.87	MWD	PATHFINDER E...
4/5/2013	12,925.00	91.71	276.24	10,633.60	2,474.87	257.33	-2,462.01	0.74	MWD	PATHFINDER E...
4/5/2013	13,020.00	90.31	277.20	10,631.93	2,569.79	268.45	-2,556.34	1.79	MWD	PATHFINDER E...
4/5/2013	13,114.00	89.16	277.29	10,632.36	2,663.70	280.30	-2,649.59	1.23	MWD	PATHFINDER E...
4/5/2013	13,209.00	89.16	274.83	10,633.75	2,758.66	290.33	-2,744.04	2.59	MWD	PATHFINDER E...
4/5/2013	13,303.00	90.48	274.13	10,634.05	2,852.65	297.67	-2,837.75	1.59	MWD	PATHFINDER E...
4/5/2013	13,398.00	89.69	274.04	10,633.91	2,947.65	304.44	-2,932.51	0.84	MWD	PATHFINDER E...



Directional Survey Data

District	County	Field Name	Project Group	State/Province			
PERMIAN BASIN	LEA	CORBIN	DELAWARE BASIN	NM			
Surface Legal Location	API/UWI	Latitude (°)	Longitude (°)	Ground Elev...	KB - GL (ft)	Orig KB Elev (ft)	Tubing Head Elevation (ft)
SEC35 T18S R34E	3002540642	32° 42' 4.42" N	103° 31' 23.49" W	3,971.20	18.00	3,989.20	

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
4/5/2013	13,492.00	89.60	272.90	10,634.49	3,041.62	310.13	-3,026.33	1.22	MWD	PATHFINDER E...
4/5/2013	13,587.00	90.22	272.46	10,634.64	3,136.56	314.57	-3,121.23	0.80	MWD	PATHFINDER E...
4/5/2013	13,681.00	90.84	272.99	10,633.77	3,230.49	319.04	-3,215.12	0.87	MWD	PATHFINDER E...
4/5/2013	13,776.00	91.54	273.34	10,631.80	3,325.44	324.28	-3,309.95	0.82	MWD	PATHFINDER E...
4/5/2013	13,871.00	90.75	273.16	10,629.90	3,420.38	329.67	-3,404.78	0.85	MWD	PATHFINDER E...
4/5/2013	13,966.00	91.28	273.34	10,628.22	3,515.34	335.05	-3,499.61	0.59	MWD	PATHFINDER E...
4/5/2013	14,060.00	90.48	272.55	10,626.77	3,609.28	339.88	-3,593.47	1.20	MWD	PATHFINDER E...
4/5/2013	14,155.00	89.25	273.07	10,627.00	3,704.22	344.54	-3,688.36	1.41	MWD	PATHFINDER E...
4/5/2013	14,249.00	89.52	273.25	10,628.00	3,798.18	349.72	-3,782.21	0.35	MWD	PATHFINDER E...
4/5/2013	14,344.00	90.40	273.34	10,628.07	3,893.15	355.18	-3,877.05	0.93	MWD	PATHFINDER E...
4/5/2013	14,438.00	90.75	273.60	10,627.13	3,987.12	360.87	-3,970.87	0.46	MWD	PATHFINDER E...
4/5/2013	14,533.00	90.48	274.04	10,626.11	4,082.10	367.20	-4,065.66	0.54	MWD	PATHFINDER E...
4/5/2013	14,628.00	91.28	274.30	10,624.65	4,177.08	374.10	-4,160.39	0.89	MWD	PATHFINDER E...
4/5/2013	14,722.00	90.48	273.95	10,623.21	4,271.06	380.86	-4,254.14	0.93	MWD	PATHFINDER E...
4/5/2013	14,817.00	90.84	275.01	10,622.11	4,366.06	388.28	-4,348.84	1.18	MWD	PATHFINDER E...
4/5/2013	14,912.00	91.98	274.92	10,619.77	4,461.02	396.50	-4,443.45	1.20	MWD	PATHFINDER E...
4/5/2013	15,006.00	92.95	274.83	10,615.73	4,554.94	404.48	-4,537.02	1.04	MWD	PATHFINDER E...
4/5/2013	15,083.00	93.91	275.36	10,611.12	4,631.80	411.31	-4,613.58	1.42	MWD	PATHFINDER E...
4/5/2013	15,177.00	93.91	275.36	10,604.71	4,725.57	420.07	-4,706.95	0.00	BIT	PATHFINDER E...



Stimulations Summary

District PERMIAN BASIN		County LEA		Field Name CORBIN		Project Group DELAWARE BASIN			State/Province NM		
Surface Legal Location SEC35 T18S R34E		API/UWI 3002540642		Latitude (°) 32° 42' 4.42" N		Longitude (°) 103° 31' 23.49" W		Ground Elev... 3,971.20	KB - GL (ft) 18.00	Orig KB Elev (ft) 3,989.20	Tubing Head Elevation (ft)
HYDRAULIC FRAC , 5/7/2013 12:17 , BONE SPRING, OH , 14,711.0 ftKB - 15,104.0 ftKB, HALLIBURTON , CRC Bulk Sand 111196 LB; OTTAWA Bul											
Proppant De...	Total Clean Volu...	Pre Trt S/I Prs (psi)	Pst Trt S/I Prs (psi)	P Break (psi)	ISIP (psi)	Avg Treat Pressur...	Q Treat Avg (bbl/...	P Max (psi)	Q Treat Max (bbl/...	Conc Max...	
301,500.0	6081.31		4,300.0		4,500.0	6,664.0	57	8,856.0	74	4.00	
HYDRAULIC FRAC , 5/8/2013 08:29 , BONE SPRING, OH , 14,123.0 ftKB - 14,517.0 ftKB, HALLIBURTON , CRC Bulk Sand 118973 LB; OTTAWA Bul											
Proppant De...	Total Clean Volu...	Pre Trt S/I Prs (psi)	Pst Trt S/I Prs (psi)	P Break (psi)	ISIP (psi)	Avg Treat Pressur...	Q Treat Avg (bbl/...	P Max (psi)	Q Treat Max (bbl/...	Conc Max...	
301,500.0	6456.57		4,300.0		4,069.0	6,664.0	69	8,856.0	75	4.00	
HYDRAULIC FRAC , 5/8/2013 14:47 , BONE SPRING, OH , 13,536.0 ftKB - 13,930.0 ftKB, HALLIBURTON , CRC Bulk Sand 122221 LB; OTTAWA Bul											
Proppant De...	Total Clean Volu...	Pre Trt S/I Prs (psi)	Pst Trt S/I Prs (psi)	P Break (psi)	ISIP (psi)	Avg Treat Pressur...	Q Treat Avg (bbl/...	P Max (psi)	Q Treat Max (bbl/...	Conc Max...	
301,500.0	5571.52		4,200.0		4,053.0	6,284.0	70	8,710.0	75	4.00	
HYDRAULIC FRAC , 5/9/2013 09:13 , BONE SPRING, OH , 12,949.0 ftKB - 13,342.0 ftKB, HALLIBURTON , CRC Bulk Sand 120941 LB; OTTAWA Bul											
Proppant De...	Total Clean Volu...	Pre Trt S/I Prs (psi)	Pst Trt S/I Prs (psi)	P Break (psi)	ISIP (psi)	Avg Treat Pressur...	Q Treat Avg (bbl/...	P Max (psi)	Q Treat Max (bbl/...	Conc Max...	
301,500.0	5716.43		3,950.0		4,136.0	5,603.0	70	6,188.0	74	4.00	
HYDRAULIC FRAC , 5/9/2013 11:49 , BONE SPRING, OH , 12,362.0 ftKB - 12,775.0 ftKB, HALLIBURTON , CRC Bulk Sand 124124 LB; OTTAWA Bul											
Proppant De...	Total Clean Volu...	Pre Trt S/I Prs (psi)	Pst Trt S/I Prs (psi)	P Break (psi)	ISIP (psi)	Avg Treat Pressur...	Q Treat Avg (bbl/...	P Max (psi)	Q Treat Max (bbl/...	Conc Max...	
301,500.0	5956.67		3,950.0		4,139.0	5,845.0	68	8,201.0	73	4.00	
HYDRAULIC FRAC , 5/9/2013 17:08 , BONE SPRING, OH , 11,774.0 ftKB - 12,168.0 ftKB, HALLIBURTON , CRC Bulk Sand 123533 LB; OTTAWA Bul											
Proppant De...	Total Clean Volu...	Pre Trt S/I Prs (psi)	Pst Trt S/I Prs (psi)	P Break (psi)	ISIP (psi)	Avg Treat Pressur...	Q Treat Avg (bbl/...	P Max (psi)	Q Treat Max (bbl/...	Conc Max...	
301,500.0	5719.95		3,950.0		4,109.0	5,756.0	68	8,383.0	72	4.00	
HYDRAULIC FRAC , 5/10/2013 10:12 , BONE SPRING, OH , 11,187.0 ftKB - 11,581.0 ftKB, HALLIBURTON , CRC Bulk Sand 123160 LB; OTTAWA Bu											
Proppant De...	Total Clean Volu...	Pre Trt S/I Prs (psi)	Pst Trt S/I Prs (psi)	P Break (psi)	ISIP (psi)	Avg Treat Pressur...	Q Treat Avg (bbl/...	P Max (psi)	Q Treat Max (bbl/...	Conc Max...	
301,500.0	5714.48		3,750.0		3,969.0	5,544.0	70	8,798.0	78	4.00	
HYDRAULIC FRAC , 5/10/2013 12:30 , BONE SPRING, OH , 10,600.0 ftKB - 10,993.0 ftKB, HALLIBURTON , CRC Bulk Sand 99331 LB; OTTAWA Bul											
Proppant De...	Total Clean Volu...	Pre Trt S/I Prs (psi)	Pst Trt S/I Prs (psi)	P Break (psi)	ISIP (psi)	Avg Treat Pressur...	Q Treat Avg (bbl/...	P Max (psi)	Q Treat Max (bbl/...	Conc Max...	
301,500.0	5576.24		3,991.0		4,052.0	5,751.0	68	8,277.0	80	4.00	