



February 5, 2015

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

30-025-42312

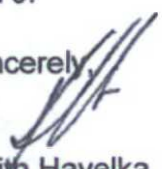
Attn: David Cook

Re: Trionyx 6 Federal 11H

Please find enclosed a copy of the survey from 0' to 4345.03' ran on the above referenced well.

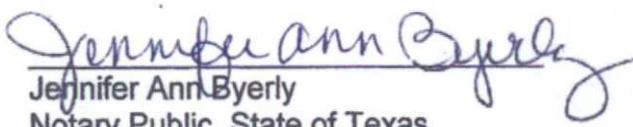
If I can be of any further service please do not hesitate to call me at 800-606-4976.

Sincerely,

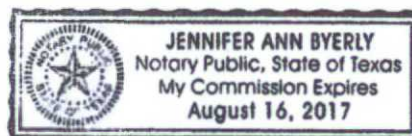

Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 5 day of Feb,
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



NOV 04 2015



Company: Devon
Lease/Well: Trionyx 6 Federal/11H



Rig Name: Cactus 126
State/County: New Mexico/Lea
Latitude: 32.15, Longitude: -103.72
GRID North is 0.33 Degrees East of True North
VS-Azi: 0.00 Degrees

Depth Reference : RKB = 25 feet

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: gyro survey 2.ut
Minimum Curvature Method
Report Date/Time: 2/5/2015 / 11:49

VES Survey International
Midland, Texas
432-563-5444

Surveyor: Adam Askew

Trionyx 6 Federal 11H / API 30-025-42312

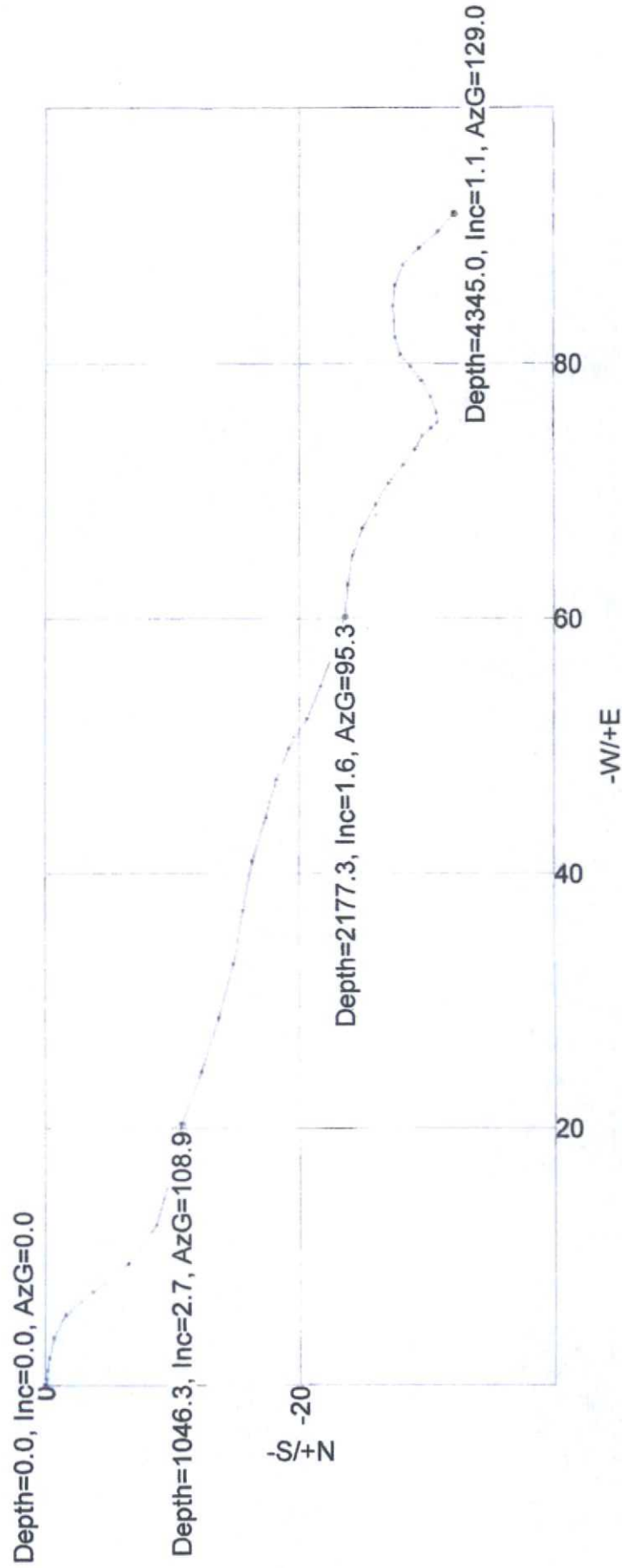
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103.78	0.13	130.42	103.78	-0.07	0.09	-0.07	0.11	130.42	0.12
198.03	0.37	90.08	198.03	-0.14	0.47	-0.14	0.50	106.73	0.31
292.28	0.44	95.46	292.28	-0.18	1.14	-0.18	1.15	98.84	0.08
386.53	0.72	100.01	386.52	-0.31	2.07	-0.31	2.10	98.59	0.30
480.78	1.20	104.53	480.76	-0.56	3.61	-0.56	3.67	100.41	0.52
575.03	1.30	130.72	574.99	-1.61	5.37	-1.61	5.61	106.68	0.61
669.28	2.09	147.91	669.20	-3.76	7.10	-3.76	8.03	117.93	0.98
763.53	2.26	135.35	763.38	-6.54	9.31	-6.54	11.38	125.07	0.54
857.78	2.38	116.25	857.65	-8.72	12.37	-8.72	15.14	125.19	0.82
952.03	2.51	95.73	951.72	-9.79	16.17	-9.79	18.91	121.20	0.93
1046.28	2.72	108.86	1045.87	-10.72	20.34	-10.72	23.00	117.79	0.67
1140.53	2.69	112.12	1140.02	-12.28	24.51	-12.28	27.41	116.61	0.17
1234.78	2.71	104.32	1234.16	-13.66	28.71	-13.66	31.80	115.44	0.39
1329.03	2.66	105.75	1328.31	-14.80	32.97	-14.80	36.14	114.18	0.09
1423.28	2.51	94.63	1422.46	-15.56	37.13	-15.56	40.26	112.74	0.55
1517.53	2.29	107.18	1516.63	-16.29	40.99	-16.29	44.10	111.67	0.60
1611.78	2.14	108.04	1610.81	-17.39	44.46	-17.39	47.74	111.36	0.17
1706.03	1.53	101.06	1705.01	-18.17	47.37	-18.17	50.73	110.99	0.69

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
1800.28	1.73	121.87	1799.23	-19.17	49.81	-19.17	53.37	111.05	0.66
1894.53	1.63	122.20	1893.43	-20.53	52.15	-20.63	56.09	111.58	0.10
1988.78	1.73	102.66	1987.64	-21.66	54.68	-21.66	58.81	111.61	0.61
2083.03	1.91	118.51	2081.85	-22.72	57.45	-22.72	61.78	111.58	0.57
2177.28	1.62	95.33	2176.05	-23.60	60.16	-23.60	64.62	111.42	0.81
2271.53	1.46	94.67	2270.27	-23.82	62.68	-23.82	67.05	110.81	0.17
2365.78	1.39	103.40	2364.49	-24.18	64.98	-24.18	69.34	110.41	0.24
2460.03	1.37	117.39	2458.71	-24.96	67.09	-24.96	71.59	110.41	0.36
2554.28	1.25	121.21	2552.94	-26.01	68.97	-26.01	73.71	110.66	0.16
2648.53	1.10	120.75	2647.17	-27.00	70.62	-27.00	75.60	110.93	0.16
2742.78	1.15	136.84	2741.40	-28.15	72.04	-28.15	77.34	111.34	0.34
2837.03	0.79	111.64	2835.64	-29.08	73.28	-29.08	78.84	111.64	0.58
2931.28	0.66	125.94	2929.88	-29.63	74.32	-29.63	80.01	111.74	0.23
3025.53	0.55	150.68	3024.13	-30.35	74.99	-30.35	80.89	112.03	0.30
3119.78	0.26	113.45	3118.37	-30.83	75.40	-30.83	81.46	112.24	0.40
3214.03	0.71	73.98	3212.62	-30.75	76.16	-30.75	82.13	111.99	0.57
3308.28	0.91	68.34	3306.86	-30.31	77.42	-30.31	83.14	111.38	0.23
3402.53	0.87	51.36	3401.10	-29.59	78.67	-29.59	84.05	110.61	0.28
3496.78	0.80	52.17	3495.34	-28.74	79.75	-28.74	84.77	109.81	0.07
3591.03	0.74	48.36	3589.58	-27.92	80.73	-27.92	85.43	109.08	0.08
3685.28	1.02	89.07	3683.82	-27.50	82.03	-27.50	86.52	108.54	0.71
3779.53	0.51	83.70	3778.06	-27.44	83.29	-27.44	87.69	108.24	0.54
3873.78	0.96	86.66	3872.30	-27.35	84.50	-27.35	88.81	107.94	0.48
3968.03	1.02	102.90	3966.54	-27.49	86.11	-27.49	90.39	107.71	0.30
4062.28	1.08	119.13	4060.77	-28.11	87.70	-28.11	92.10	107.77	0.32
4156.53	1.24	147.41	4155.01	-29.40	89.03	-29.40	93.76	108.28	0.62
4250.78	1.18	132.47	4249.24	-30.91	90.29	-30.91	95.43	108.90	0.34
4345.03	1.13	129.02	4343.47	-32.15	91.73	-32.15	97.20	109.32	0.09



devon

VES Survey International
Midland, Texas
432-563-5444
Surveyor: Adam Askew
Trionyx 6 Federal 11H / API 30-025-42312





Directional Survey

Sub-Division DELAWARE BASIN	County LEA	Field Name PADUCA	Region DELAWARE BASIN WEST	State/Province NM
Surface Legal Location SEC6 T25S R32E	APU/M 3002542312	Latitude (") 32° 9' 9.051" N	Longitude (") 103° 43' 15.07" W	Ground Elev M... 3,438.80
				Orig KB Elev (ft) 3,463.80
				Tubing Head Elevation (ft)

Wellbores

Wellbore Name DH	Parent Wellbore	SAP Well ID 37815	Vertical Section Direction (") 0.00
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Kick Offs & Key Depths

Date 1/31/2015	Type Kick Off	Top Depth (ftKB) 7,583.0
Actual Deviation Survey GYRO/MWD, Proposed? No	Definitive? Yes	Proposed? No
	Proposed Deviation Survey	

Deviation Survey

Date 1/28/2015		Description GYRO/MWD			
MD Tie In (ftKB) 0.00	TVD Tie In (ftKB) 0.00	Inclination Tie In (") 0.00	Azimuth Tie In (") 0.00	NSTie In (ft) 0.00	EW Tie In (ft) 0.00

Survey Data

Date	MD (ftKB)	Incl (")	Azm (")	TVD (ftKB)	VS (ft)	N/S (ft)	EW (ft)	DLS (°/100ft)	Survey Tool	Survey Company
1/30/2015	81.00	1.40	0.00	80.99	0.99	0.99	0.00	1.73	MWD	LEAM DRILLING SYSTEMS
1/28/2015	103.78	0.13	130.42	103.77	1.25	1.25	0.02	6.53	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	198.03	0.37	90.08	198.02	1.18	1.18	0.41	0.30	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	292.28	0.44	95.46	292.27	1.15	1.15	1.07	0.08	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	386.53	0.72	100.01	386.51	1.01	1.01	2.01	0.30	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	480.78	1.20	104.53	480.75	0.66	0.66	3.55	0.52	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	575.03	1.30	130.72	574.98	-0.29	-0.29	5.32	0.61	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	669.28	2.09	147.91	669.19	-2.44	-2.44	7.04	0.99	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	763.53	2.26	135.35	763.37	-5.22	-5.22	9.26	0.54	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	857.78	2.38	116.25	857.54	-7.41	-7.41	12.32	0.83	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	952.03	2.51	95.73	951.71	-8.48	-8.48	16.13	0.93	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	1,046.28	2.72	108.86	1,045.86	-9.41	-9.41	20.30	0.67	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	1,140.53	2.69	112.12	1,140.01	-10.96	-10.96	24.46	0.17	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	1,234.78	2.71	104.32	1,234.15	-12.35	-12.35	28.67	0.39	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	1,329.03	2.66	105.75	1,328.30	-13.49	-13.49	32.94	0.09	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	1,423.28	2.51	94.63	1,422.45	-14.25	-14.25	37.10	0.55	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	1,517.53	2.29	107.18	1,516.62	-14.97	-14.97	40.95	0.60	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	1,611.78	2.14	108.04	1,610.80	-16.07	-16.07	44.43	0.16	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	1,706.03	1.53	101.06	1,705.00	-16.86	-16.86	47.33	0.69	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	1,800.28	1.73	121.87	1,799.21	-17.85	-17.85	49.78	0.66	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	1,894.53	1.63	122.20	1,893.42	-19.32	-19.32	52.12	0.11	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	1,988.78	1.73	102.66	1,987.63	-20.35	-20.35	54.64	0.61	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	2,083.03	1.91	118.51	2,081.84	-21.41	-21.41	57.41	0.57	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	2,177.28	1.62	95.33	2,176.04	-22.28	-22.28	60.12	0.81	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	2,271.53	1.46	94.67	2,270.26	-22.50	-22.50	62.64	0.17	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	2,365.78	1.39	103.40	2,364.48	-22.86	-22.86	64.95	0.24	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	2,460.03	1.37	117.39	2,458.70	-23.65	-23.65	67.06	0.36	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	2,554.28	1.25	121.21	2,552.93	-24.70	-24.70	68.94	0.16	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	2,648.53	1.10	120.75	2,647.16	-25.69	-25.69	70.60	0.16	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	2,742.78	1.15	136.84	2,741.39	-26.85	-26.85	72.02	0.34	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	2,837.03	0.79	111.64	2,835.63	-27.78	-27.78	73.27	0.58	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	2,931.28	0.66	125.94	2,929.87	-28.33	-28.33	74.32	0.24	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	3,025.53	0.55	150.68	3,024.11	-29.05	-29.05	74.98	0.30	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	3,119.78	0.26	113.45	3,118.36	-29.53	-29.53	75.40	0.40	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	3,214.03	0.71	73.98	3,212.61	-29.45	-29.45	76.15	0.57	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	3,308.28	0.91	68.34	3,306.85	-29.01	-29.01	77.41	0.23	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	3,402.53	0.87	51.36	3,401.09	-28.29	-28.29	78.66	0.28	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	3,496.78	0.80	52.17	3,495.33	-27.44	-27.44	79.74	0.08	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	3,591.03	0.74	48.36	3,589.57	-26.63	-26.63	80.72	0.08	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	3,685.28	1.02	89.07	3,683.81	-26.21	-26.21	82.01	0.71	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	3,779.53	0.51	83.70	3,778.05	-26.15	-26.15	83.27	0.55	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	3,873.78	0.96	86.66	3,872.29	-26.06	-26.06	84.47	0.48	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	3,968.03	1.02	102.90	3,966.53	-26.20	-26.20	86.08	0.30	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	4,062.28	1.08	119.13	4,060.76	-26.82	-26.82	87.67	0.32	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	4,156.53	1.24	147.41	4,154.99	-28.11	-28.11	89.00	0.62	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	4,250.78	1.18	132.47	4,249.22	-29.63	-29.63	90.26	0.34	GYRO	VAUHGN ENERGY SERVICES
1/28/2015	4,345.03	1.13	129.02	4,343.45	-30.87	-30.87	91.70	0.09	GYRO	VAUHGN ENERGY SERVICES



Directional Survey

Sub-Division DELAWARE BASIN	County LEA	Field Name PADUCA	Region DELAWARE BASIN WEST	State/Province NM
Surface Legal Location SEC6 T25S R32E	API (UW) 30025423.12	Latitude (") 32° 9' 9.051" N	Longitude (") 103° 43' 15.07" W	Ground Elev. M. 3,438.80
				Orig KB Elev (ft) 3,463.80
				Tubing Head Elevation (ft)

Survey Data

Date	MD (ftKB)	Incl (")	Azm (")	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS ("100ft)	Survey Tool	Survey Company
1/29/2015	4,457.00	1.40	123.60	4,455.40	-32.32	-32.32	93.70	0.26	MWD	LEAM DRILLING SYSTEMS
1/29/2015	4,552.00	1.50	121.10	4,550.37	-33.61	-33.61	95.73	0.12	MWD	LEAM DRILLING SYSTEMS
1/29/2015	4,646.00	1.50	114.10	4,644.33	-34.74	-34.74	97.91	0.19	MWD	LEAM DRILLING SYSTEMS
1/29/2015	4,741.00	1.50	119.60	4,739.30	-35.87	-35.87	100.12	0.15	MWD	LEAM DRILLING SYSTEMS
1/29/2015	4,836.00	1.50	114.60	4,834.27	-37.00	-37.00	102.33	0.14	MWD	LEAM DRILLING SYSTEMS
1/29/2015	4,931.00	1.40	112.70	4,929.24	-37.96	-37.96	104.53	0.12	MWD	LEAM DRILLING SYSTEMS
1/29/2015	5,025.00	1.40	116.20	5,023.21	-38.91	-38.91	106.62	0.09	MWD	LEAM DRILLING SYSTEMS
1/29/2015	5,120.00	1.50	116.60	5,118.18	-39.98	-39.98	108.78	0.11	MWD	LEAM DRILLING SYSTEMS
1/29/2015	5,215.00	1.50	109.50	5,213.15	-40.95	-40.95	111.06	0.20	MWD	LEAM DRILLING SYSTEMS
1/29/2015	5,310.00	0.90	101.10	5,308.13	-41.51	-41.51	112.97	0.66	MWD	LEAM DRILLING SYSTEMS
1/29/2015	5,404.00	0.40	3.70	5,402.12	-41.33	-41.33	113.71	1.10	MWD	LEAM DRILLING SYSTEMS
1/29/2015	5,500.00	1.20	342.80	5,498.11	-40.03	-40.03	113.44	0.87	MWD	LEAM DRILLING SYSTEMS
1/29/2015	5,594.00	1.40	341.40	5,592.09	-38.00	-38.00	112.78	0.22	MWD	LEAM DRILLING SYSTEMS
1/29/2015	5,689.00	1.40	352.10	5,687.06	-35.76	-35.76	112.25	0.27	MWD	LEAM DRILLING SYSTEMS
1/29/2015	5,784.00	2.20	343.70	5,782.01	-32.86	-32.86	111.58	0.88	MWD	LEAM DRILLING SYSTEMS
1/29/2015	5,878.00	2.30	327.70	5,875.94	-29.53	-29.53	110.06	0.67	MWD	LEAM DRILLING SYSTEMS
1/29/2015	5,973.00	3.10	304.10	5,970.84	-26.48	-26.48	106.92	1.42	MWD	LEAM DRILLING SYSTEMS
1/30/2015	6,067.00	4.40	285.00	6,064.64	-24.12	-24.12	101.33	1.90	MWD	LEAM DRILLING SYSTEMS
1/30/2015	6,163.00	4.90	292.20	6,160.32	-21.62	-21.62	93.98	0.80	MWD	LEAM DRILLING SYSTEMS
1/30/2015	6,258.00	3.50	294.10	6,255.07	-18.90	-18.90	87.57	1.48	MWD	LEAM DRILLING SYSTEMS
1/30/2015	6,353.00	2.50	290.80	6,349.93	-16.98	-16.98	82.99	1.07	MWD	LEAM DRILLING SYSTEMS
1/30/2015	6,447.00	1.50	276.00	6,443.88	-16.12	-16.12	79.85	1.19	MWD	LEAM DRILLING SYSTEMS
1/30/2015	6,543.00	0.50	298.00	6,539.86	-15.80	-15.80	78.23	1.10	MWD	LEAM DRILLING SYSTEMS
1/30/2015	6,638.00	0.40	105.30	6,634.86	-15.69	-15.69	78.18	0.94	MWD	LEAM DRILLING SYSTEMS
1/30/2015	6,733.00	0.60	94.60	6,729.86	-15.82	-15.82	79.00	0.23	MWD	LEAM DRILLING SYSTEMS
1/30/2015	6,828.00	1.00	94.10	6,824.85	-15.91	-15.91	80.32	0.42	MWD	LEAM DRILLING SYSTEMS
1/30/2015	6,923.00	1.10	100.40	6,919.83	-16.14	-16.14	82.04	0.16	MWD	LEAM DRILLING SYSTEMS
1/30/2015	7,018.00	0.80	111.10	7,014.82	-16.54	-16.54	83.56	0.37	MWD	LEAM DRILLING SYSTEMS
1/30/2015	7,113.00	0.50	113.60	7,109.81	-16.95	-16.95	84.56	0.32	MWD	LEAM DRILLING SYSTEMS
1/30/2015	7,209.00	0.60	135.90	7,205.81	-17.48	-17.48	85.29	0.24	MWD	LEAM DRILLING SYSTEMS
1/30/2015	7,304.00	0.60	143.60	7,300.80	-18.23	-18.23	85.93	0.08	MWD	LEAM DRILLING SYSTEMS
1/30/2015	7,399.00	0.50	143.50	7,395.80	-18.97	-18.97	86.47	0.11	MWD	LEAM DRILLING SYSTEMS
1/30/2015	7,494.00	0.70	163.20	7,490.79	-19.86	-19.86	86.89	0.30	MWD	LEAM DRILLING SYSTEMS
1/30/2015	7,589.00	0.30	342.80	7,585.79	-20.17	-20.17	86.98	1.05	MWD	LEAM DRILLING SYSTEMS
1/30/2015	7,621.00	2.30	2.30	7,617.78	-19.45	-19.45	86.98	6.31	MWD	LEAM DRILLING SYSTEMS
1/30/2015	7,653.00	4.30	359.50	7,649.73	-17.61	-17.61	87.00	6.27	MWD	LEAM DRILLING SYSTEMS
1/30/2015	7,684.00	6.40	0.60	7,680.59	-14.72	-14.72	87.01	6.78	MWD	LEAM DRILLING SYSTEMS
1/30/2015	7,716.00	9.40	359.70	7,712.28	-10.32	-10.32	87.01	9.38	MWD	LEAM DRILLING SYSTEMS
1/30/2015	7,748.00	12.40	359.10	7,743.70	-4.27	-4.27	86.94	9.38	MWD	LEAM DRILLING SYSTEMS
1/30/2015	7,779.00	15.30	359.30	7,773.80	3.15	3.15	86.84	9.36	MWD	LEAM DRILLING SYSTEMS
1/30/2015	7,811.00	18.60	359.10	7,804.40	12.47	12.47	86.71	10.31	MWD	LEAM DRILLING SYSTEMS
1/30/2015	7,843.00	21.50	358.80	7,834.46	23.44	23.44	86.51	9.07	MWD	LEAM DRILLING SYSTEMS
1/30/2015	7,874.00	24.10	358.30	7,863.03	35.45	35.45	86.20	8.41	MWD	LEAM DRILLING SYSTEMS
1/30/2015	7,906.00	26.70	357.90	7,891.94	49.17	49.17	85.74	8.14	MWD	LEAM DRILLING SYSTEMS
1/30/2015	7,938.00	29.10	357.60	7,920.22	64.13	64.13	85.15	7.51	MWD	LEAM DRILLING SYSTEMS
1/30/2015	7,969.00	32.10	357.90	7,946.90	79.89	79.89	84.54	9.69	MWD	LEAM DRILLING SYSTEMS
1/30/2015	8,001.00	35.40	358.80	7,973.50	97.66	97.66	84.03	10.43	MWD	LEAM DRILLING SYSTEMS
1/30/2015	8,032.00	38.30	359.30	7,998.30	116.25	116.25	83.73	9.40	MWD	LEAM DRILLING SYSTEMS
1/30/2015	8,063.00	41.20	0.40	8,022.14	136.07	136.07	83.68	9.63	MWD	LEAM DRILLING SYSTEMS
1/30/2015	8,095.00	44.00	359.90	8,045.69	157.73	157.73	83.73	8.81	MWD	LEAM DRILLING SYSTEMS
1/30/2015	8,127.00	47.90	0.00	8,067.93	180.72	180.72	83.71	12.19	MWD	LEAM DRILLING SYSTEMS
1/30/2015	8,158.00	51.80	0.00	8,087.92	204.41	204.41	83.71	12.58	MWD	LEAM DRILLING SYSTEMS
1/30/2015	8,190.00	56.50	0.90	8,106.66	230.34	230.34	83.92	14.86	MWD	LEAM DRILLING SYSTEMS
1/30/2015	8,222.00	60.90	0.90	8,123.28	257.67	257.67	84.35	13.75	MWD	LEAM DRILLING SYSTEMS
1/30/2015	8,254.00	64.40	2.00	8,137.98	286.08	286.08	85.08	11.36	MWD	LEAM DRILLING SYSTEMS
1/30/2015	8,286.00	68.50	2.00	8,150.76	315.39	315.39	86.10	12.81	MWD	LEAM DRILLING SYSTEMS
1/30/2015	8,318.00	73.20	1.40	8,161.25	345.60	345.60	86.99	14.79	MWD	LEAM DRILLING SYSTEMS
1/30/2015	8,349.00	78.10	1.60	8,168.93	375.61	375.61	87.78	15.82	MWD	LEAM DRILLING SYSTEMS



Directional Survey

Sub-Division DELAWARE BASIN	County LEA	Field Name PADUCA	Region DELAWARE BASIN WEST	State/Province NM
Surface Legal Location SEC6 T25S R32E	APN/UM 3002542312	Latitude (°) 32° 9' 9.051" N	Longitude (°) 103° 43' 15.07" W	Ground Elev M... 3,438.80
				Orig KB Elev (ft) 3,463.80
				Tubing Head Elevation (ft)

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
1/30/2015	8,381.00	82.30	1.60	8,174.38	407.13	407.13	88.66	13.12	MWD	LEAM DRILLING SYSTEMS
1/30/2015	8,413.00	86.10	2.30	8,177.61	438.94	438.94	89.74	12.07	MWD	LEAM DRILLING SYSTEMS
1/30/2015	8,445.00	89.10	2.10	8,178.95	470.88	470.88	90.97	9.40	MWD	LEAM DRILLING SYSTEMS
1/30/2015	8,464.00	90.30	2.80	8,179.05	489.87	489.87	91.78	7.31	MWD	LEAM DRILLING SYSTEMS
1/30/2015	8,558.00	91.90	3.40	8,177.25	583.71	583.71	96.87	1.82	MWD	LEAM DRILLING SYSTEMS
1/30/2015	8,653.00	90.90	2.00	8,174.93	678.57	678.57	101.34	1.81	MWD	LEAM DRILLING SYSTEMS
1/30/2015	8,748.00	90.40	0.60	8,173.85	773.54	773.54	103.49	1.56	MWD	LEAM DRILLING SYSTEMS
1/30/2015	8,843.00	89.30	359.90	8,174.10	868.53	868.53	103.91	1.37	MWD	LEAM DRILLING SYSTEMS
1/30/2015	8,938.00	89.30	0.40	8,175.26	963.53	963.53	104.16	0.53	MWD	LEAM DRILLING SYSTEMS
1/30/2015	9,032.00	90.30	1.40	8,175.59	1,057.51	1,057.51	105.63	1.50	MWD	LEAM DRILLING SYSTEMS
1/30/2015	9,127.00	89.80	1.60	8,175.50	1,152.48	1,152.48	108.12	0.57	MWD	LEAM DRILLING SYSTEMS
1/30/2015	9,222.00	89.00	1.60	8,176.50	1,247.44	1,247.44	110.77	0.84	MWD	LEAM DRILLING SYSTEMS
1/30/2015	9,316.00	89.60	0.40	8,177.65	1,341.41	1,341.41	112.41	1.43	MWD	LEAM DRILLING SYSTEMS
1/30/2015	9,411.00	91.00	0.70	8,177.15	1,436.40	1,436.40	113.33	1.51	MWD	LEAM DRILLING SYSTEMS
1/30/2015	9,505.00	91.30	0.70	8,175.26	1,530.38	1,530.38	114.47	0.32	MWD	LEAM DRILLING SYSTEMS
1/30/2015	9,600.00	90.90	1.40	8,173.44	1,625.34	1,625.34	116.21	0.85	MWD	LEAM DRILLING SYSTEMS
1/30/2015	9,695.00	90.10	0.70	8,172.61	1,720.32	1,720.32	117.96	1.12	MWD	LEAM DRILLING SYSTEMS
1/30/2015	9,790.00	88.50	359.10	8,173.77	1,815.31	1,815.31	117.79	2.38	MWD	LEAM DRILLING SYSTEMS
1/30/2015	9,885.00	89.80	0.70	8,175.18	1,910.29	1,910.29	117.62	2.17	MWD	LEAM DRILLING SYSTEMS
1/30/2015	9,979.00	89.20	1.40	8,176.00	2,004.27	2,004.27	119.35	0.98	MWD	LEAM DRILLING SYSTEMS
1/30/2015	10,074.00	88.50	0.40	8,177.91	2,099.24	2,099.24	120.84	1.28	MWD	LEAM DRILLING SYSTEMS
1/30/2015	10,169.00	88.50	0.60	8,180.39	2,194.20	2,194.20	121.67	0.21	MWD	LEAM DRILLING SYSTEMS
1/30/2015	10,264.00	90.20	0.90	8,181.47	2,289.19	2,289.19	122.91	1.82	MWD	LEAM DRILLING SYSTEMS
1/30/2015	10,359.00	88.50	357.60	8,182.55	2,384.16	2,384.16	121.67	3.91	MWD	LEAM DRILLING SYSTEMS
1/30/2015	10,454.00	88.60	356.30	8,184.95	2,478.99	2,478.99	116.61	1.37	MWD	LEAM DRILLING SYSTEMS
1/30/2015	10,548.00	90.30	357.60	8,185.86	2,572.85	2,572.85	111.61	2.28	MWD	LEAM DRILLING SYSTEMS
1/30/2015	10,642.00	91.20	357.00	8,184.62	2,666.73	2,666.73	107.19	1.15	MWD	LEAM DRILLING SYSTEMS
1/30/2015	10,737.00	92.90	356.30	8,181.23	2,761.50	2,761.50	101.64	1.94	MWD	LEAM DRILLING SYSTEMS
1/30/2015	10,832.00	92.80	357.60	8,176.50	2,856.25	2,856.25	96.59	1.37	MWD	LEAM DRILLING SYSTEMS
1/30/2015	10,927.00	91.90	358.80	8,172.61	2,951.12	2,951.12	93.61	1.58	MWD	LEAM DRILLING SYSTEMS
1/30/2015	11,117.00	90.20	1.40	8,169.13	3,141.07	3,141.07	93.94	1.63	MWD	LEAM DRILLING SYSTEMS
1/30/2015	11,212.00	90.70	1.60	8,168.38	3,236.03	3,236.03	96.43	0.57	MWD	LEAM DRILLING SYSTEMS
1/30/2015	11,307.00	88.40	0.20	8,169.13	3,331.01	3,331.01	97.92	2.83	MWD	LEAM DRILLING SYSTEMS
1/30/2015	11,402.00	88.30	0.70	8,171.86	3,425.96	3,425.96	98.67	0.54	MWD	LEAM DRILLING SYSTEMS
1/30/2015	11,497.00	90.60	359.90	8,172.77	3,520.95	3,520.95	99.16	2.56	MWD	LEAM DRILLING SYSTEMS
1/30/2015	11,592.00	89.00	1.40	8,173.10	3,615.94	3,615.94	100.24	2.31	MWD	LEAM DRILLING SYSTEMS
1/30/2015	11,687.00	90.70	3.40	8,173.35	3,710.85	3,710.85	104.22	2.76	MWD	LEAM DRILLING SYSTEMS
1/30/2015	11,783.00	89.30	3.00	8,173.35	3,806.69	3,806.69	109.58	1.52	MWD	LEAM DRILLING SYSTEMS
1/30/2015	11,878.00	89.30	3.70	8,174.51	3,901.52	3,901.52	115.13	0.74	MWD	LEAM DRILLING SYSTEMS
1/30/2015	11,973.00	89.00	3.00	8,175.92	3,996.35	3,996.35	120.68	0.80	MWD	LEAM DRILLING SYSTEMS
1/30/2015	12,068.00	89.00	2.80	8,177.58	4,091.21	4,091.21	125.49	0.21	MWD	LEAM DRILLING SYSTEMS
1/30/2015	12,164.00	90.00	2.80	8,178.42	4,187.10	4,187.10	130.18	1.04	MWD	LEAM DRILLING SYSTEMS
1/30/2015	12,258.00	89.90	1.10	8,178.50	4,281.04	4,281.04	133.37	1.81	MWD	LEAM DRILLING SYSTEMS
1/30/2015	12,354.00	90.30	1.30	8,178.33	4,377.02	4,377.02	135.38	0.47	MWD	LEAM DRILLING SYSTEMS
1/30/2015	12,543.00	94.40	2.00	8,170.58	4,565.74	4,565.74	140.82	2.20	MWD	LEAM DRILLING SYSTEMS
1/30/2015	12,638.00	93.90	2.00	8,163.71	4,660.43	4,660.43	144.13	0.53	MWD	LEAM DRILLING SYSTEMS
1/30/2015	12,708.00	93.90	2.00	8,158.95	4,730.23	4,730.23	146.56	0.00	BIT	LEAM DRILLING SYSTEMS