

Results of Directional Survey

API number:	30-025-40045		
OGRID:		Operator:	DEVON ENERGY PRODUCTION COMPANY, LP
		Property:	TRIONYX 6 FEDERAL # 5H

surface	ULSTR:	O	06	T 25S	R 32E
				200 FSL	2310 FEL

BH Loc	ULSTR:	B	06	T 25S	R 32E
14980	MD	10487.9	TVD	307 FNL	2331 FEL
				4973 FSL	

Top Perf/OH	ULSTR:	O	06	T 25S	R 32E
11535	MD	10467.9	TVD	1530 FSL	2288 FEL

Bot Perf/OH	ULSTR:	B	06	T 25S	R 32E
14852	MD	10489.1	TVD	435 FNL	2331 FEL
				4845 FSL	

	MD	N/S	E/W	VD
	11502	1297.32	22.57	10466.37
TOP PERFS/OH	11535	1330.28	22.28	10467.90
	11596	1391.21	21.75	10470.72
	14801	4594.49	-21.49	10489.59
BOT PERFS/OH	14852	4645.48	-21.18	10489.06
	14896	4689.48	-20.91	10488.60

NEXT TO LAST	14896	4689.48	-20.91	10488.60
LAST READING	14980	4773.48	-20.77	10487.86
TD	14980	4773.48	-20.77	10487.86

Surface Location	200	FS	2310	FE
Projected BHL	4973	FS	2331	FE
Location of				
Top Perfs/OH	1530	FS	2288	FE
Bottom Perfs/OH	4845	FS	2331	FE

SUMMARY of Subsurface Locations

Surface Location	O-06-25S-32E	200	FS	2310	FE	Vert. Depth
Top Perfs/OH	O-06-25S-32E	1530	FS	2288	FE	10467.90
Bottom Perfs/OH	B-06-25S-32E	4845	FS	2331	FE	10489.06
Projected TD	B-06-25S-32E	4973	FS	2331	FE	10487.86

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Directional Survey

District DELAWARE BASIN	County LEA	Field Name PADUCA	Project Group DELAWARE BASIN REG	State/Province NM
Surface Legal Location SEC 6 T25S R32E	API/UWI 3002540045	Latitude (°) 32° 9' 9.56" N	Longitude (°) 103° 42' 47.723" W	Ground Elev... 3,444.00
			KB - GL (ft) 28.00	Orig KB Elev (ft) 3,472.00
				Tubing Head Elevation (ft)

Wellbores

Wellbore Name OH	Parent Wellbore OH	Kick Off Depth (ftKB)	Vertical Section Direction (°) 359.46
Actual Deviation Survey GYRO/MWD, Proposed? No	Definitive? No	Proposed? No	Proposed Deviation Survey

Deviation Survey

Date 8/21/2013		Description INC ONLY			
MD Tie In (ftKB)	TVD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NSTie In (ft)	EW Tie 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
8/21/2013	371.00	1.20	0.00						SS	CACTUS
8/22/2013	770.00	1.50	0.00						SS	CACTUS
8/22/2013	1,075.00	2.30	0.00						INC	TELEDRIFT
8/22/2013	1,353.00	1.80	0.00						INC	TELEDRIFT
8/22/2013	1,638.00	1.10	0.00						INC	TELEDRIFT
8/22/2013	1,923.00	0.50	0.00						INC	TELEDRIFT
8/24/2013	2,209.00	0.40	0.00						INC	TELEDRIFT
8/24/2013	2,494.00	2.30	0.00						INC	TELEDRIFT
8/24/2013	2,778.00	5.40	0.00						INC	TELEDRIFT
8/25/2013	3,061.00	5.20	0.00						INC	TELEDRIFT
8/25/2013	3,346.00	5.70	0.00						INC	TELEDRIFT
8/25/2013	3,535.00	5.10	0.00						INC	TELEDRIFT
8/27/2013	3,840.00	5.40	0.00						INC	TELEDRIFT
8/27/2013	4,010.00	4.50	0.00						INC	TELEDRIFT
8/27/2013	4,137.00	2.60	0.00						INC	TELEDRIFT
8/27/2013	4,200.00	2.80	0.00						INC	TELEDRIFT
8/27/2013	4,366.00	1.60	0.00						INC	TELEDRIFT
8/30/2013	4,587.00	0.70	0.00						INC	TELEDRIFT
8/30/2013	4,971.00	0.90	0.00						INC	TELEDRIFT
8/30/2013	5,251.00	0.60	0.00						INC	TELEDRIFT
8/30/2013	5,629.00	1.40	0.00						INC	TELEDRIFT
8/31/2013	6,008.00	0.80	0.00						INC	TELEDRIFT
8/31/2013	6,386.00	1.80	0.00						INC	TELEDRIFT
8/31/2013	6,766.00	1.20	0.00						INC	TELEDRIFT
8/31/2013	7,145.00	1.00	0.00						INC	TELEDRIFT
9/1/2013	7,526.00	1.40	0.00						INC	TELEDRIFT
9/1/2013	7,904.00	1.00	0.00						INC	TELEDRIFT
9/1/2013	8,283.00	1.40	0.00						INC	TELEDRIFT
9/1/2013	8,663.00	1.60	0.00						INC	TELEDRIFT

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District DELAWARE BASIN	County LEA	Field Name PADUCA	Project Group DELAWARE BASIN REG	State/Province NM
Surface Legal Location SEC 6 T25S R32E	API/UWI 3002540045	Latitude (°) 32° 9' 9.56" N	Longitude (°) 103° 42' 47.723" W	Ground Elev... 3,444.00
			KB - GL (ft) 28.00	Orig KB Elev (ft) 3,472.00
				Tubing Head Elevation (ft)

Wellbore Name OH	Parent Wellbore OH	Kick Off Depth (ftKB)	Vertical Section Direction (°) 359.46
Actual Deviation Survey GYRO/MWD, Proposed? No	Definitive? Yes	Proposed? No	Proposed Deviation Survey

Deviation Survey					
Date 9/3/2013		Description GYRO/MWD			
MD Tie In (ftKB)	TVD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NSTie In (ft)	EW Tie In (ft)

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
9/3/2013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	115.75	0.86	152.60	115.75	-0.77	-0.77	0.40	0.74	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	208.25	0.85	146.87	208.24	-1.97	-1.96	1.09	0.09	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	300.75	1.10	167.14	300.72	-3.42	-3.40	1.67	0.46	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	393.25	1.39	165.78	393.20	-5.38	-5.36	2.14	0.32	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	485.75	1.48	169.49	485.67	-7.64	-7.62	2.63	0.14	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	578.25	1.51	171.02	578.14	-10.02	-10.00	3.04	0.05	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	670.75	1.33	174.30	670.61	-12.30	-12.27	3.34	0.21	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	763.25	2.05	175.44	763.07	-15.02	-14.99	3.58	0.78	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	855.75	3.17	176.52	855.47	-19.22	-19.19	3.86	1.21	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	948.25	3.08	177.52	947.84	-24.26	-24.22	4.13	0.11	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	1,040.75	2.91	178.97	1,040.21	-29.09	-29.05	4.28	0.20	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	1,133.25	2.21	182.31	1,132.62	-33.22	-33.18	4.25	0.77	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	1,228.50	2.06	180.50	1,227.80	-36.77	-36.73	4.16	0.17	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	1,323.75	1.64	177.94	1,323.00	-39.84	-39.80	4.19	0.45	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	1,419.00	1.61	173.74	1,418.21	-42.54	-42.50	4.39	0.13	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	1,514.25	1.22	172.64	1,513.43	-44.87	-44.83	4.66	0.41	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	1,609.50	1.37	170.36	1,608.66	-47.00	-46.96	4.98	0.17	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	1,704.75	1.01	167.21	1,703.89	-48.95	-48.90	5.36	0.38	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	1,800.00	0.73	144.39	1,799.13	-50.27	-50.21	5.90	0.46	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	1,895.25	0.86	137.41	1,894.37	-51.29	-51.23	6.74	0.17	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	1,990.50	0.93	131.14	1,989.61	-52.34	-52.27	7.80	0.13	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	2,085.75	0.54	110.92	2,084.85	-53.02	-52.94	8.80	0.49	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	2,181.00	0.61	67.91	2,180.09	-53.00	-52.91	9.69	0.45	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	2,276.25	0.65	47.03	2,275.34	-52.44	-52.35	10.56	0.24	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	2,371.50	1.14	39.13	2,370.58	-51.35	-51.24	11.55	0.53	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	2,466.75	1.67	42.87	2,465.80	-49.61	-49.49	13.09	0.56	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	2,562.00	2.52	40.57	2,560.98	-47.03	-46.88	15.40	0.90	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	2,657.25	3.70	42.96	2,656.09	-43.22	-43.04	18.86	1.25	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	2,752.50	4.82	40.14	2,751.08	-37.96	-37.74	23.53	1.20	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	2,847.75	3.12	39.57	2,846.09	-32.94	-32.68	27.76	1.79	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	2,943.00	5.37	40.82	2,941.08	-27.61	-27.31	32.33	2.36	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	3,038.25	5.26	41.14	3,035.92	-21.00	-20.64	38.11	0.12	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	3,133.50	5.67	39.75	3,130.73	-14.15	-13.74	43.99	0.45	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	3,228.75	5.85	38.56	3,225.50	-6.80	-6.33	50.03	0.23	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	3,324.00	5.55	36.63	3,320.28	0.64	1.17	55.80	0.37	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	3,419.25	5.71	38.17	3,415.07	8.01	8.59	61.48	0.23	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	3,514.50	5.79	32.88	3,509.84	15.72	16.35	67.01	0.56	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	3,609.75	5.72	29.89	3,604.61	23.82	24.50	71.99	0.32	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	3,705.00	5.55	20.47	3,699.41	32.21	32.93	75.96	0.99	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	3,800.25	5.45	15.10	3,794.22	40.87	41.61	78.75	0.55	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	3,895.50	5.19	6.65	3,889.06	49.50	50.26	80.43	0.87	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	3,990.75	4.70	2.40	3,983.96	57.67	58.44	81.09	0.64	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	4,086.00	4.51	358.49	4,078.90	65.31	66.08	81.16	0.39	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	4,181.25	3.69	356.88	4,173.90	72.12	72.88	80.89	0.87	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	4,276.50	2.72	353.62	4,269.00	77.43	78.19	80.47	1.04	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	4,371.75	2.55	352.25	4,364.15	81.78	82.53	79.94	0.19	GYRO	VAUHG N ENERGY SERVICES



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Surface Legal Location SEC 6 T2S R32E	API/UWI 3002540045	Latitude (") 32° 9' 9.56" N	Longitude (") 103° 42' 47.723" W	Ground Elev... 3,444.00
			KB - GL (ft) 28.00	Orig KB Elev (ft) 3,472.00
				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
9/3/2013	4,467.00	1.10	355.78	4,459.35	84.79	85.55	79.58	1.53	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	4,562.25	1.01	354.20	4,554.59	86.54	87.29	79.43	0.10	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	4,657.50	0.87	353.49	4,649.82	88.10	88.85	79.27	0.15	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	4,752.75	0.80	328.27	4,745.06	89.38	90.13	78.83	0.39	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	4,848.00	0.89	330.45	4,840.30	90.60	91.34	78.12	0.10	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	4,943.25	0.74	313.25	4,935.54	91.67	92.41	77.31	0.30	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	5,038.50	0.71	294.66	5,030.79	92.35	93.07	76.32	0.25	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	5,133.75	0.72	271.85	5,126.03	92.63	93.34	75.19	0.30	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	5,229.00	0.78	264.77	5,221.27	92.60	93.30	73.94	0.12	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	5,324.25	0.99	257.11	5,316.51	92.37	93.06	72.50	0.25	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	5,419.50	1.19	261.77	5,411.74	92.06	92.73	70.72	0.23	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	5,514.75	1.01	258.69	5,506.97	91.77	92.42	68.91	0.20	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	5,610.00	1.05	253.35	5,602.21	91.37	92.01	67.25	0.11	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	5,705.25	1.16	250.41	5,697.44	90.82	91.44	65.51	0.13	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	5,800.50	0.91	249.43	5,792.68	90.24	90.85	63.89	0.26	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	5,895.75	0.65	256.35	5,887.92	89.86	90.45	62.66	0.29	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	5,991.00	1.08	246.83	5,983.16	89.39	89.97	61.31	0.47	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	6,086.25	1.22	255.42	6,078.39	88.80	89.37	59.50	0.23	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	6,181.50	1.52	258.29	6,173.61	88.31	88.85	57.28	0.32	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	6,276.75	1.83	257.53	6,268.82	87.75	88.27	54.56	0.33	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	6,372.00	1.49	252.06	6,364.03	87.07	87.56	51.90	0.39	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	6,467.25	1.24	249.90	6,459.25	86.35	86.82	49.75	0.27	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	6,562.50	1.21	248.85	6,554.48	85.65	86.11	47.85	0.04	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	6,657.75	1.06	247.53	6,649.71	84.97	85.41	46.10	0.16	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	6,753.00	0.95	248.72	6,744.95	84.36	84.78	44.55	0.12	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	6,848.25	0.88	240.62	6,840.18	83.73	84.14	43.17	0.15	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	6,943.50	0.91	228.55	6,935.42	82.88	83.28	41.97	0.20	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	7,038.75	1.16	231.44	7,030.66	81.79	82.18	40.65	0.27	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	7,134.00	1.25	230.80	7,125.89	80.55	80.92	39.09	0.10	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	7,229.25	1.18	234.24	7,221.11	79.33	79.69	37.49	0.11	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	7,324.50	0.61	206.48	7,316.35	78.31	78.66	36.47	0.74	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	7,419.75	0.98	167.79	7,411.59	77.07	77.41	36.41	0.66	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	7,515.00	1.17	119.44	7,506.83	75.78	76.14	37.43	0.94	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	7,610.25	1.07	123.99	7,602.06	74.79	75.16	39.02	0.14	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	7,705.50	1.10	129.56	7,697.29	73.70	74.08	40.46	0.12	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	7,800.75	1.16	139.47	7,792.52	72.37	72.77	41.79	0.21	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	7,896.00	1.34	151.75	7,887.75	70.65	71.05	42.94	0.34	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	7,991.25	1.21	150.76	7,982.98	68.78	69.20	43.96	0.14	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	8,086.50	1.18	157.79	8,078.21	66.98	67.41	44.82	0.16	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	8,181.75	0.98	174.85	8,173.44	65.26	65.69	45.27	0.40	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	8,277.00	1.12	200.54	8,268.68	63.58	64.01	45.01	0.51	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	8,372.25	1.04	211.89	8,363.91	61.98	62.40	44.23	0.24	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	8,467.50	1.38	214.91	8,459.14	60.32	60.73	43.12	0.36	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	8,562.75	1.72	220.03	8,554.35	58.30	58.69	41.54	0.39	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	8,658.00	1.90	215.43	8,649.56	55.93	56.31	39.71	0.24	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	8,753.25	2.11	205.35	8,744.75	53.08	53.44	38.04	0.43	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	8,848.50	1.90	200.31	8,839.94	50.03	50.37	36.74	0.29	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	8,943.75	1.38	198.71	8,935.15	47.47	47.81	35.83	0.55	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	9,039.00	1.66	190.72	9,030.37	45.03	45.37	35.20	0.37	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	9,134.25	1.43	186.16	9,125.58	42.50	42.83	34.82	0.27	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	9,229.50	1.70	180.65	9,220.80	39.91	40.23	34.67	0.32	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	9,324.75	1.89	174.48	9,316.00	36.93	37.26	34.81	0.28	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	9,420.00	2.09	181.65	9,411.19	33.63	33.96	34.91	0.33	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	9,515.25	1.95	183.27	9,506.38	30.28	30.60	34.77	0.16	GYRO	VAUHG N ENERGY SERVICES
9/3/2013	9,610.50	2.30	185.39	9,601.57	26.76	27.08	34.49	0.38	GYRO	VAUHG N ENERGY SERVICES



Directional Survey

District DELAWARE BASIN	County LEA	Field Name PADUCA	Project Group DELAWARE BASIN REG	State/Province NM
Surface Legal Location SEC 6 T25S R32E	API/UWI 3002540045	Latitude (°) 32° 9' 9.56" N	Longitude (°) 103° 42' 47.723" W	Ground Elev... 3,444.00
			KB - GL (ft) 28.00	Orig KB Elev (ft) 3,472.00
				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
9/3/2013	9,705.75	2.13	188.83	9,696.75	23.11	23.43	34.04	0.23	GYRO	VAUHGN ENERGY SERVICES
9/3/2013	9,801.00	1.74	193.46	9,791.94	19.96	20.28	33.44	0.44	GYRO	VAUHGN ENERGY SERVICES
9/4/2013	9,865.00	2.60	219.40	9,855.90	17.90	18.21	32.29	2.01	MWD	LEAM DRILLING SYSTEMS
9/4/2013	9,895.00	1.50	253.40	9,885.88	17.27	17.57	31.48	5.32	MWD	LEAM DRILLING SYSTEMS
9/4/2013	9,926.00	3.40	346.20	9,916.86	18.06	18.35	30.87	12.20	MWD	LEAM DRILLING SYSTEMS
9/4/2013	9,958.00	7.30	0.60	9,948.71	21.01	21.30	30.67	12.80	MWD	LEAM DRILLING SYSTEMS
9/4/2013	9,991.00	11.20	3.90	9,981.28	26.31	26.60	30.91	11.92	MWD	LEAM DRILLING SYSTEMS
9/5/2013	10,023.00	13.50	3.60	10,012.53	33.13	33.43	31.35	7.19	MWD	LEAM DRILLING SYSTEMS
9/5/2013	10,055.00	16.00	2.90	10,043.48	41.26	41.56	31.81	7.83	MWD	LEAM DRILLING SYSTEMS
9/5/2013	10,089.00	19.30	1.70	10,075.87	51.56	51.86	32.21	9.76	MWD	LEAM DRILLING SYSTEMS
9/5/2013	10,118.00	22.30	0.40	10,102.98	61.85	62.16	32.39	10.47	MWD	LEAM DRILLING SYSTEMS
9/5/2013	10,149.00	25.70	359.00	10,131.30	74.45	74.76	32.32	11.12	MWD	LEAM DRILLING SYSTEMS
9/5/2013	10,181.00	28.50	359.40	10,159.78	89.03	89.34	32.12	8.77	MWD	LEAM DRILLING SYSTEMS
9/5/2013	10,213.00	32.10	0.10	10,187.40	105.17	105.48	32.05	11.30	MWD	LEAM DRILLING SYSTEMS
9/5/2013	10,244.00	34.70	0.20	10,213.28	122.23	122.54	32.10	8.39	MWD	LEAM DRILLING SYSTEMS
9/5/2013	10,276.00	38.00	0.40	10,239.05	141.20	141.51	32.20	10.32	MWD	LEAM DRILLING SYSTEMS
9/5/2013	10,308.00	41.00	0.10	10,263.74	161.55	161.86	32.28	9.39	MWD	LEAM DRILLING SYSTEMS
9/5/2013	10,339.00	43.40	0.10	10,286.70	182.37	182.68	32.32	7.74	MWD	LEAM DRILLING SYSTEMS
9/5/2013	10,371.00	46.40	359.70	10,309.37	204.95	205.27	32.28	9.42	MWD	LEAM DRILLING SYSTEMS
9/5/2013	10,402.00	50.40	0.01	10,329.95	228.13	228.44	32.22	12.92	MWD	LEAM DRILLING SYSTEMS
9/5/2013	10,434.00	54.30	0.20	10,349.49	253.46	253.77	32.27	12.20	MWD	LEAM DRILLING SYSTEMS
9/5/2013	10,465.00	57.60	0.10	10,366.84	279.14	279.45	32.34	10.65	MWD	LEAM DRILLING SYSTEMS
9/5/2013	10,497.00	60.50	359.90	10,383.30	306.58	306.90	32.34	9.08	MWD	LEAM DRILLING SYSTEMS
9/5/2013	10,528.00	62.90	0.60	10,398.00	333.87	334.19	32.46	7.99	MWD	LEAM DRILLING SYSTEMS
9/5/2013	10,559.00	66.00	0.40	10,411.36	361.83	362.15	32.70	10.02	MWD	LEAM DRILLING SYSTEMS
9/5/2013	10,591.00	69.00	0.40	10,423.61	391.38	391.71	32.91	9.37	MWD	LEAM DRILLING SYSTEMS
9/5/2013	10,623.00	71.80	359.90	10,434.34	421.52	421.85	32.98	8.87	MWD	LEAM DRILLING SYSTEMS
9/6/2013	10,654.00	75.20	358.70	10,443.15	451.24	451.57	32.62	11.58	MWD	LEAM DRILLING SYSTEMS
9/6/2013	10,686.00	77.70	357.60	10,450.64	482.34	482.66	31.61	8.50	MWD	LEAM DRILLING SYSTEMS
9/6/2013	10,718.00	79.90	356.60	10,456.86	513.70	514.01	30.02	7.53	MWD	LEAM DRILLING SYSTEMS
9/6/2013	10,749.00	83.30	358.00	10,461.39	544.34	544.64	28.58	11.84	MWD	LEAM DRILLING SYSTEMS
9/6/2013	10,781.00	86.40	357.30	10,464.26	576.19	576.48	27.27	9.93	MWD	LEAM DRILLING SYSTEMS
9/6/2013	10,813.00	88.20	358.50	10,465.77	608.14	608.42	26.10	6.76	MWD	LEAM DRILLING SYSTEMS
9/8/2013	10,837.00	88.90	358.50	10,466.37	632.13	632.40	25.48	2.92	MWD	LEAM DRILLING SYSTEMS
9/8/2013	10,932.00	90.00	359.90	10,467.28	727.12	727.38	24.15	1.87	MWD	LEAM DRILLING SYSTEMS
9/8/2013	11,027.00	90.30	1.00	10,467.04	822.11	822.38	24.90	1.20	MWD	LEAM DRILLING SYSTEMS
9/8/2013	11,122.00	90.30	0.60	10,466.54	917.08	917.37	26.22	0.42	MWD	LEAM DRILLING SYSTEMS
9/8/2013	11,217.00	90.20	359.80	10,466.12	1,012.07	1,012.37	26.55	0.85	MWD	LEAM DRILLING SYSTEMS
9/8/2013	11,312.00	90.60	359.10	10,465.46	1,107.07	1,107.36	25.64	0.85	MWD	LEAM DRILLING SYSTEMS
9/8/2013	11,407.00	89.90	358.90	10,465.05	1,202.06	1,202.34	23.98	0.77	MWD	LEAM DRILLING SYSTEMS
9/8/2013	11,502.00	88.50	359.40	10,466.37	1,297.05	1,297.32	22.57	1.56	MWD	LEAM DRILLING SYSTEMS
9/8/2013	11,596.00	86.20	359.60	10,470.72	1,390.94	1,391.21	21.75	2.46	MWD	LEAM DRILLING SYSTEMS
9/8/2013	11,692.00	86.00	359.80	10,477.25	1,486.72	1,486.99	21.25	0.29	MWD	LEAM DRILLING SYSTEMS
9/8/2013	11,787.00	85.70	359.60	10,484.12	1,581.47	1,581.74	20.76	0.38	MWD	LEAM DRILLING SYSTEMS
9/8/2013	11,882.00	86.80	0.10	10,490.34	1,676.26	1,676.53	20.51	1.27	MWD	LEAM DRILLING SYSTEMS
9/8/2013	11,977.00	88.40	359.20	10,494.31	1,771.17	1,771.44	19.93	1.93	MWD	LEAM DRILLING SYSTEMS
9/9/2013	12,072.00	88.80	0.50	10,496.63	1,866.14	1,866.41	19.68	1.43	MWD	LEAM DRILLING SYSTEMS
9/9/2013	12,166.00	90.20	0.30	10,497.46	1,960.12	1,960.40	20.34	1.50	MWD	LEAM DRILLING SYSTEMS
9/9/2013	12,261.00	91.70	359.90	10,495.88	2,055.10	2,055.39	20.50	1.63	MWD	LEAM DRILLING SYSTEMS
9/9/2013	12,355.00	91.40	0.10	10,493.34	2,149.06	2,149.35	20.50	0.38	MWD	LEAM DRILLING SYSTEMS
9/9/2013	12,450.00	90.10	0.10	10,492.09	2,244.05	2,244.34	20.67	1.37	MWD	LEAM DRILLING SYSTEMS
9/9/2013	12,545.00	90.40	0.60	10,491.68	2,339.03	2,339.34	21.25	0.61	MWD	LEAM DRILLING SYSTEMS
9/9/2013	12,640.00	90.30	359.40	10,491.10	2,434.03	2,434.33	21.25	1.27	MWD	LEAM DRILLING SYSTEMS
9/9/2013	12,735.00	90.60	358.70	10,490.35	2,529.02	2,529.32	19.67	0.80	MWD	LEAM DRILLING SYSTEMS
9/9/2013	12,830.00	90.20	358.90	10,489.69	2,624.01	2,624.29	17.68	0.47	MWD	LEAM DRILLING SYSTEMS



Directional Survey

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				Tubing Head Elevation (ft)

Survey Data

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9/9/2013	12,925.00	89.90	358.90	10,489.61	2,719.01	2,719.28	15.86	0.32	MWD	LEAM DRILLING SYSTEMS
9/9/2013	13,020.00	90.10	358.40	10,489.61	2,814.00	2,814.25	13.62	0.57	MWD	LEAM DRILLING SYSTEMS
9/9/2013	13,115.00	89.80	358.40	10,489.69	2,908.98	2,909.21	10.97	0.32	MWD	LEAM DRILLING SYSTEMS
9/9/2013	13,210.00	90.70	358.90	10,489.28	3,003.97	3,004.18	8.73	1.08	MWD	LEAM DRILLING SYSTEMS
9/9/2013	13,280.00	90.60	359.40	10,488.48	3,073.96	3,074.17	7.69	0.73	MWD	LEAM DRILLING SYSTEMS
9/9/2013	13,375.00	90.60	359.40	10,487.49	3,168.96	3,169.16	6.70	0.00	MWD	LEAM DRILLING SYSTEMS
9/9/2013	13,471.00	90.50	359.60	10,486.56	3,264.95	3,265.15	5.86	0.23	MWD	LEAM DRILLING SYSTEMS
9/9/2013	13,566.00	90.40	359.60	10,485.82	3,359.95	3,360.15	5.20	0.11	MWD	LEAM DRILLING SYSTEMS
9/9/2013	13,661.00	89.40	359.60	10,485.98	3,454.95	3,455.14	4.53	1.05	MWD	LEAM DRILLING SYSTEMS
9/11/2013	13,757.00	90.40	358.70	10,486.15	3,550.94	3,551.13	3.11	1.40	MWD	LEAM DRILLING SYSTEMS
9/11/2013	13,852.00	90.80	357.80	10,485.16	3,645.92	3,646.08	0.21	1.04	MWD	LEAM DRILLING SYSTEMS
9/11/2013	13,946.00	90.70	357.10	10,483.93	3,739.85	3,739.98	-3.97	0.75	MWD	LEAM DRILLING SYSTEMS
9/11/2013	14,041.00	90.30	357.50	10,483.10	3,834.78	3,834.87	-8.45	0.60	MWD	LEAM DRILLING SYSTEMS
9/12/2013	14,136.00	89.50	357.30	10,483.26	3,929.72	3,929.77	-12.76	0.87	MWD	LEAM DRILLING SYSTEMS
9/12/2013	14,231.00	89.00	358.50	10,484.51	4,024.67	4,024.70	-16.24	1.37	MWD	LEAM DRILLING SYSTEMS
9/12/2013	14,326.00	88.50	358.20	10,486.58	4,119.63	4,119.63	-18.97	0.61	MWD	LEAM DRILLING SYSTEMS
9/12/2013	14,421.00	88.60	358.50	10,488.98	4,214.58	4,214.56	-21.71	0.33	MWD	LEAM DRILLING SYSTEMS
9/12/2013	14,517.00	89.20	359.10	10,490.83	4,310.56	4,310.52	-23.72	0.88	MWD	LEAM DRILLING SYSTEMS
9/12/2013	14,612.00	90.00	0.50	10,491.49	4,405.55	4,405.52	-24.05	1.70	MWD	LEAM DRILLING SYSTEMS
9/12/2013	14,706.00	90.80	1.00	10,490.83	4,499.52	4,499.51	-22.82	1.00	MWD	LEAM DRILLING SYSTEMS
9/12/2013	14,801.00	90.70	0.60	10,489.59	4,594.49	4,594.49	-21.49	0.43	MWD	LEAM DRILLING SYSTEMS
9/12/2013	14,896.00	90.50	0.10	10,488.60	4,689.47	4,689.48	-20.91	0.57	MWD	LEAM DRILLING SYSTEMS
9/12/2013	14,980.00	90.50	0.10	10,487.86	4,773.46	4,773.48	-20.77	0.00	BIT	LEAM DRILLING SYSTEMS