



A GYRO TECHNOLOGIES INC COMPANY

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

30-015-38612

May 1, 2014

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

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 03 2014

RECEIVED

Attn: David Cook

Re: Aldabra 25 Federal Com No 001H

Please find enclosed a copy of the survey from 0' to 8.275' ran on the above referenced well.

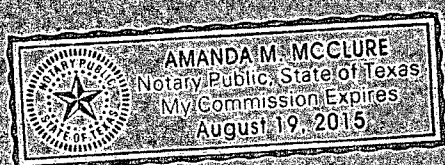
If I can be of any further service, please do not hesitate to call me at 800-606-4976.

Sincerely,

Keith Havelka
Operations

STATE OF TEXAS §
§
COUNTY OF NUECES §

This instrument was acknowledged before me on the 1 day of May,
A.D. 2014, by Keith Havelka.



Amanda McClure
Amanda McClure
Notary Public, State of Texas



Company: DEVON ENERGY
Lease/Well: ALDABRA 25 FEDERAL COM/NO 001H
Location: 20 MILES E OF LOVING
Rig Name: CACTUS 105
State/County: NEW MEXICO/EDDY
Latitude: 32.27, Longitude: -103.74
GRID North is 0.32 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : 28FT RKB

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: ALDABRA25FEDCOM1H.ut

Minimum Curvature Method

Report Date/Time: 5/1/2014 / 16:53

VES Survey International

800-606-4976

Corpus Christi, Texas

Survey Engineer: Jeremy Rounsavall

Aldabra 25 Federal Com No 001H / API 30-015-38612

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	****
100.00	0.40	238.85	100.00	-0.18	-0.30	-0.18	0.35	238.85	0.40
200.00	0.20	226.87	200.00	-0.48	-0.72	-0.48	0.87	236.45	0.21
300.00	0.31	222.56	300.00	-0.80	-1.03	-0.80	1.31	232.31	0.11
400.00	0.36	208.67	400.00	-1.27	-1.37	-1.27	1.87	227.03	0.10
500.00	0.52	242.99	499.99	-1.76	-1.93	-1.76	2.61	227.62	0.30
600.00	0.69	242.04	599.99	-2.25	-2.86	-2.25	3.64	231.89	0.16
700.00	0.35	247.18	699.98	-2.65	-3.68	-2.65	4.53	234.25	0.34
800.00	0.33	259.63	799.98	-2.82	-4.24	-2.82	5.09	236.39	0.08
900.00	0.58	299.62	899.98	-2.62	-4.96	-2.62	5.61	242.16	0.39
1000.00	0.30	291.88	999.97	-2.27	-5.64	-2.27	6.08	248.05	0.29
1100.00	0.25	310.94	1099.97	-2.03	-6.05	-2.03	6.38	251.43	0.10
1200.00	0.12	14.29	1199.97	-1.79	-6.19	-1.79	6.44	253.88	0.23
1300.00	0.09	102.01	1299.97	-1.71	-6.08	-1.71	6.32	254.33	0.14
1400.00	0.07	190.28	1399.97	-1.78	-6.02	-1.78	6.27	253.52	0.11
1500.00	0.02	59.60	1499.97	-1.83	-6.01	-1.83	6.28	253.10	0.08
1600.00	0.18	43.07	1599.97	-1.70	-5.88	-1.70	6.12	253.89	0.16
1700.00	0.19	62.53	1699.97	-1.51	-5.63	-1.51	5.82	255.01	0.06
1800.00	0.37	47.14	1799.97	-1.21	-5.24	-1.21	5.38	257.02	0.20

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
1900.00	0.18	21.57	1899.97	-0.84	-4.94	-0.84	5.01	260.35	0.23
2000.00	0.24	38.79	1999.97	-0.53	-4.75	-0.53	4.78	263.63	0.09
2100.00	0.20	12.34	2099.97	-0.20	-4.58	-0.20	4.59	267.55	0.11
2200.00	0.18	44.50	2199.97	0.09	-4.43	0.09	4.44	271.16	0.11
2300.00	0.25	4.85	2299.97	0.42	-4.30	0.42	4.32	275.63	0.16
2400.00	0.52	356.32	2399.96	1.10	-4.31	1.10	4.45	284.29	0.27
2500.00	0.66	347.54	2499.96	2.12	-4.47	2.12	4.94	295.35	0.17
2600.00	0.62	347.75	2599.95	3.21	-4.71	3.21	5.69	304.26	0.04
2700.00	0.54	327.03	2699.95	4.13	-5.08	4.13	6.55	309.12	0.22
2800.00	0.59	344.90	2799.94	5.03	-5.47	5.03	7.43	312.58	0.18
2900.00	0.83	354.19	2899.94	6.25	-5.68	6.25	8.45	317.73	0.27
3000.00	0.73	339.33	2999.93	7.57	-5.98	7.57	9.64	321.69	0.23
3100.00	1.04	357.93	3099.91	9.07	-6.23	9.07	11.00	325.49	0.42
3200.00	0.45	1.22	3199.91	10.37	-6.26	10.37	12.11	328.88	0.59
3300.00	0.28	344.24	3299.90	11.00	-6.32	11.00	12.68	330.12	0.19
3400.00	0.27	9.20	3399.90	11.47	-6.35	11.47	13.11	331.04	0.12
3500.00	0.33	340.49	3499.90	11.97	-6.40	11.97	13.58	331.85	0.16
3600.00	0.59	349.82	3599.90	12.75	-6.59	12.75	14.35	332.66	0.28
3700.00	0.52	1.16	3699.89	13.71	-6.67	13.71	15.25	334.05	0.13
3800.00	0.34	77.10	3799.89	14.23	-6.37	14.23	15.59	335.87	0.55
3900.00	0.49	94.16	3899.89	14.26	-5.66	14.26	15.34	338.37	0.19
4000.00	0.36	99.01	3999.89	14.18	-4.92	14.18	15.01	340.88	0.14
4100.00	0.91	123.35	4099.88	13.70	-3.94	13.70	14.26	343.94	0.60
4200.00	1.06	125.73	4199.86	12.72	-2.53	12.72	12.97	348.76	0.16
4300.00	1.35	125.66	4299.84	11.49	-0.82	11.49	11.52	355.93	0.29
4400.00	1.41	130.23	4399.81	10.01	1.08	10.01	10.07	6.17	0.13
4500.00	0.90	137.14	4499.79	8.64	2.56	8.64	9.01	16.50	0.53
4600.00	0.79	136.15	4599.78	7.56	3.57	7.56	8.36	25.27	0.11
4700.00	0.74	147.25	4699.77	6.52	4.40	6.52	7.86	34.00	0.16
4800.00	0.57	120.16	4799.77	5.72	5.18	5.72	7.72	42.15	0.35
4900.00	0.72	138.41	4899.76	5.00	6.03	5.00	7.84	50.31	0.25
5000.00	0.33	129.17	4999.76	4.35	6.67	4.35	7.96	56.85	0.40
5100.00	0.44	140.35	5099.75	3.88	7.13	3.88	8.12	61.44	0.13
5200.00	0.19	166.53	5199.75	3.43	7.41	3.43	8.17	65.17	0.28
5300.00	0.28	156.16	5299.75	3.04	7.55	3.04	8.14	68.04	0.10
5400.00	0.30	152.95	5399.75	2.58	7.77	2.58	8.19	71.60	0.03
5500.00	0.20	124.16	5499.75	2.25	8.03	2.25	8.34	74.32	0.16
5600.00	0.27	213.87	5599.75	1.96	8.04	1.96	8.27	76.30	0.34
5700.00	0.12	85.11	5699.75	1.77	8.01	1.77	8.20	77.54	0.36

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
5800.00	0.01	169.90	5799.75	1.77	8.12	1.77	8.31	77.70	0.12
5900.00	0.14	264.80	5899.75	1.75	8.00	1.75	8.19	77.65	0.14
6000.00	0.21	173.86	5999.75	1.56	7.89	1.56	8.04	78.81	0.25
6100.00	0.17	170.20	6099.75	1.24	7.94	1.24	8.03	81.12	0.04
6200.00	0.27	172.45	6199.75	0.86	7.99	0.86	8.04	83.83	0.10
6300.00	0.34	169.68	6299.74	0.34	8.08	0.34	8.08	87.61	0.07
6400.00	0.40	172.06	6399.74	-0.30	8.18	-0.30	8.18	92.12	0.06
6500.00	0.54	163.74	6499.74	-1.10	8.36	-1.10	8.43	97.52	0.16
6600.00	0.37	182.21	6599.74	-1.88	8.48	-1.88	8.68	102.48	0.23
6700.00	0.36	177.25	6699.73	-2.51	8.48	-2.51	8.84	106.46	0.03
6800.00	0.52	163.49	6799.73	-3.25	8.63	-3.25	9.22	110.67	0.20
6900.00	0.42	183.57	6899.73	-4.06	8.73	-4.06	9.63	114.93	0.19
7000.00	0.37	171.78	6999.73	-4.75	8.76	-4.75	9.96	118.47	0.09
7100.00	0.03	206.70	7099.72	-5.09	8.79	-5.09	10.16	120.08	0.35
7200.00	0.16	102.59	7199.72	-5.14	8.92	-5.14	10.29	119.98	0.17
7300.00	0.21	135.04	7299.72	-5.31	9.18	-5.31	10.60	120.02	0.11
7400.00	0.27	189.97	7399.72	-5.67	9.27	-5.67	10.87	121.42	0.23
7500.00	0.30	182.30	7499.72	-6.15	9.22	-6.15	11.09	123.72	0.05
7600.00	0.35	151.50	7599.72	-6.68	9.36	-6.68	11.49	125.52	0.18
7700.00	0.71	153.95	7699.72	-7.50	9.77	-7.50	12.32	127.51	0.37
7800.00	0.55	161.10	7799.71	-8.52	10.20	-8.52	13.29	129.86	0.18
7900.00	0.94	179.83	7899.70	-9.79	10.36	-9.79	14.26	133.39	0.45
8000.00	0.69	156.44	7999.69	-11.17	10.60	-11.17	15.40	136.48	0.41
8100.00	0.92	154.41	8099.68	-12.44	11.19	-12.44	16.74	138.03	0.23
8200.00	0.81	159.71	8199.67	-13.83	11.78	-13.83	18.17	139.56	0.14
8275.00	0.69	160.88	8274.66	-14.75	12.11	-14.75	19.08	140.60	0.16



Directional Survey

District DELAWARE BASIN	County EDDY	Field Name INGLE WELLS	Project Group DELAWARE BASIN REG	State/Province NM			
Surface Legal Location SEC25 T23S R31E	API/UWI 3001538612	Latitude (°) 32° 16' 7.913" N	Longitude (°) 103° 44' 16.876" W	Ground Elev... 3,483.80	KB - GL (ft) 28.00	Orig KB Elev (ft) 3,511.80	Tubing Head Elevation (ft)

Wellbore Name OH	Parent Wellbore	SAP Well ID 34798	Kick Off Depth (ftKB)	Vertical Section Direction (°)
Actual Deviation Survey GYRO/MWD, Proposed? No	Definitive? Yes	Proposed? No	Proposed Deviation Survey	

Deviation Survey					
Date 4/21/2014		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)	NS (ft)	EW (ft)	DLS (°/100ft)	Survey Tool	Survey Company
4/21/2014	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	GYRO	VAUGHN
4/21/2014	100.00	0.40	238.85	100.00	-0.17	-0.18	-0.30	0.40	GYRO	VAUGHN
4/21/2014	200.00	0.20	226.87	200.00	-0.44	-0.48	-0.72	0.21	GYRO	VAUGHN
4/21/2014	300.00	0.31	222.56	300.00	-0.75	-0.80	-1.04	0.11	GYRO	VAUGHN
4/21/2014	400.00	0.36	208.67	400.00	-1.20	-1.27	-1.37	0.10	GYRO	VAUGHN
4/21/2014	500.00	0.52	242.99	499.99	-1.66	-1.76	-1.92	0.30	GYRO	VAUGHN
4/21/2014	600.00	0.69	242.04	599.99	-2.10	-2.24	-2.86	0.17	GYRO	VAUGHN
4/21/2014	700.00	0.35	247.18	699.98	-2.45	-2.64	-3.67	0.34	GYRO	VAUGHN
4/21/2014	800.00	0.33	259.63	799.98	-2.60	-2.82	-4.24	0.08	GYRO	VAUGHN
4/21/2014	900.00	0.58	299.62	899.98	-2.36	-2.62	-4.96	0.39	GYRO	VAUGHN
4/21/2014	1,000.00	0.30	291.88	999.97	-1.98	-2.27	-5.64	0.29	GYRO	VAUGHN
4/21/2014	1,100.00	0.25	310.94	1,099.97	-1.72	-2.03	-6.05	0.10	GYRO	VAUGHN
4/21/2014	1,200.00	0.12	14.29	1,199.97	-1.47	-1.78	-6.19	0.22	GYRO	VAUGHN
4/21/2014	1,300.00	0.09	102.01	1,299.97	-1.39	-1.70	-6.09	0.15	GYRO	VAUGHN
4/21/2014	1,400.00	0.07	190.28	1,399.97	-1.47	-1.78	-6.02	0.11	GYRO	VAUGHN
4/21/2014	1,500.00	0.02	59.60	1,499.97	-1.52	-1.83	-6.02	0.08	GYRO	VAUGHN
4/21/2014	1,600.00	0.18	43.07	1,599.97	-1.40	-1.70	-5.90	0.16	GYRO	VAUGHN
4/21/2014	1,700.00	0.19	62.53	1,699.97	-1.22	-1.51	-5.64	0.06	GYRO	VAUGHN
4/21/2014	1,800.00	0.37	47.14	1,799.97	-0.95	-1.22	-5.26	0.19	GYRO	VAUGHN
4/21/2014	1,900.00	0.18	21.57	1,899.97	-0.60	-0.85	-4.96	0.22	GYRO	VAUGHN
4/21/2014	2,000.00	0.24	38.79	1,999.97	-0.30	-0.54	-4.77	0.09	GYRO	VAUGHN
4/21/2014	2,100.00	0.20	12.34	2,099.97	0.03	-0.21	-4.61	0.11	GYRO	VAUGHN
4/21/2014	2,200.00	0.18	44.50	2,199.97	0.30	0.08	-4.46	0.11	GYRO	VAUGHN
4/21/2014	2,300.00	0.25	4.85	2,299.97	0.62	0.40	-4.33	0.16	GYRO	VAUGHN
4/21/2014	2,400.00	0.52	356.32	2,399.96	1.29	1.08	-4.34	0.28	GYRO	VAUGHN
4/21/2014	2,500.00	0.66	347.54	2,499.96	2.32	2.09	-4.49	0.17	GYRO	VAUGHN
4/21/2014	2,600.00	0.62	347.75	2,599.95	3.42	3.18	-4.73	0.04	GYRO	VAUGHN
4/21/2014	2,700.00	0.54	327.03	2,699.95	4.36	4.11	-5.10	0.22	GYRO	VAUGHN
4/21/2014	2,800.00	0.59	344.90	2,799.94	5.27	5.00	-5.49	0.18	GYRO	VAUGHN
4/21/2014	2,900.00	0.83	354.19	2,899.94	6.50	6.22	-5.70	0.27	GYRO	VAUGHN
4/21/2014	3,000.00	0.73	339.33	2,999.93	7.83	7.53	-6.00	0.22	GYRO	VAUGHN
4/21/2014	3,100.00	1.04	357.93	3,099.91	9.34	9.04	-6.26	0.42	GYRO	VAUGHN
4/21/2014	3,200.00	0.45	1.22	3,199.91	10.64	10.33	-6.28	0.59	GYRO	VAUGHN
4/21/2014	3,300.00	0.28	344.24	3,299.90	11.27	10.96	-6.34	0.20	GYRO	VAUGHN
4/21/2014	3,400.00	0.27	9.20	3,399.90	11.74	11.43	-6.37	0.12	GYRO	VAUGHN
4/21/2014	3,500.00	0.33	340.49	3,499.90	12.25	11.93	-6.43	0.16	GYRO	VAUGHN
4/21/2014	3,600.00	0.59	349.82	3,599.90	13.03	12.71	-6.62	0.27	GYRO	VAUGHN
4/21/2014	3,700.00	0.52	1.16	3,699.89	14.00	13.67	-6.70	0.13	GYRO	VAUGHN
4/21/2014	3,800.00	0.34	77.10	3,799.89	14.50	14.19	-6.40	0.55	GYRO	VAUGHN
4/21/2014	3,900.00	0.49	94.16	3,899.89	14.50	14.23	-5.68	0.19	GYRO	VAUGHN
4/21/2014	4,000.00	0.36	99.01	3,999.89	14.38	14.15	-4.95	0.13	GYRO	VAUGHN
4/21/2014	4,100.00	0.91	123.35	4,099.88	13.85	13.66	-3.97	0.60	GYRO	VAUGHN
4/21/2014	4,200.00	1.06	125.73	4,199.86	12.80	12.69	-2.56	0.16	GYRO	VAUGHN
4/21/2014	4,300.00	1.35	125.66	4,299.84	11.49	11.46	-0.85	0.29	GYRO	VAUGHN
4/21/2014	4,400.00	1.41	130.23	4,399.81	9.91	9.98	1.05	0.13	GYRO	VAUGHN
4/21/2014	4,500.00	0.90	137.14	4,499.79	8.47	8.61	2.52	0.53	GYRO	VAUGHN
4/21/2014	4,600.00	0.79	136.15	4,599.78	7.35	7.53	3.53	0.11	GYRO	VAUGHN



Directional Survey

District DELAWARE BASIN	County EDDY	Field Name INGLE WELLS	Project Group DELAWARE BASIN REG	State/Province NM
Surface Legal Location SEC25 T23S R31E	API/UWI 3001538612	Latitude (°) 32° 16' 7.913" N	Longitude (°) 103° 44' 16.876" W	Ground Elev... 3,483.80
			KB - GL (ft) 28.00	Orig KB Elev (ft) 3,511.80
				Tubing Head Elevation (ft)

Survey Data										
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (%/100ft)	Survey Method	Survey Company
4/21/2014	4,700.00	0.74	147.25	4,699.77	6.26	6.49	4.36	0.16	GYRO	VAUGHN
4/21/2014	4,800.00	0.57	120.16	4,799.77	5.43	5.70	5.14	0.35	GYRO	VAUGHN
4/21/2014	4,900.00	0.72	138.41	4,899.76	4.67	4.98	5.99	0.25	GYRO	VAUGHN
4/21/2014	5,000.00	0.33	129.17	4,999.76	3.99	4.33	6.63	0.40	GYRO	VAUGHN
4/21/2014	5,100.00	0.44	140.35	5,099.75	3.49	3.85	7.09	0.13	GYRO	VAUGHN
4/21/2014	5,200.00	0.19	166.53	5,199.75	3.02	3.39	7.38	0.28	GYRO	VAUGHN
4/21/2014	5,300.00	0.28	156.16	5,299.75	2.62	3.01	7.51	0.10	GYRO	VAUGHN
4/21/2014	5,400.00	0.30	152.95	5,399.75	2.16	2.55	7.73	0.03	GYRO	VAUGHN
4/21/2014	5,500.00	0.20	124.16	5,499.75	1.81	2.22	8.00	0.16	GYRO	VAUGHN
4/21/2014	5,600.00	0.27	213.87	5,599.75	1.52	1.93	8.01	0.34	GYRO	VAUGHN
4/21/2014	5,700.00	0.12	85.11	5,699.75	1.33	1.74	7.98	0.36	GYRO	VAUGHN
4/21/2014	5,800.00	0.01	169.90	5,799.75	1.33	1.74	8.09	0.12	GYRO	VAUGHN
4/21/2014	5,900.00	0.14	264.80	5,899.75	1.32	1.72	7.97	0.14	GYRO	VAUGHN
4/21/2014	6,000.00	0.21	173.86	5,999.75	1.13	1.53	7.87	0.25	GYRO	VAUGHN
4/21/2014	6,100.00	0.17	170.20	6,099.75	0.80	1.20	7.91	0.04	GYRO	VAUGHN
4/21/2014	6,200.00	0.27	172.45	6,199.75	0.42	0.82	7.97	0.10	GYRO	VAUGHN
4/21/2014	6,300.00	0.34	169.68	6,299.75	-0.11	0.30	8.05	0.07	GYRO	VAUGHN
4/21/2014	6,400.00	0.40	172.06	6,399.74	-0.76	-0.34	8.15	0.06	GYRO	VAUGHN
4/21/2014	6,500.00	0.54	163.74	6,499.74	-1.56	-1.14	8.33	0.16	GYRO	VAUGHN
4/21/2014	6,600.00	0.37	182.21	6,599.74	-2.34	-1.92	8.45	0.22	GYRO	VAUGHN
4/21/2014	6,700.00	0.36	177.25	6,699.73	-2.98	-2.55	8.45	0.03	GYRO	VAUGHN
4/21/2014	6,800.00	0.52	163.49	6,799.73	-3.73	-3.30	8.60	0.19	GYRO	VAUGHN
4/21/2014	6,900.00	0.42	183.57	6,899.73	-4.54	-4.10	8.70	0.19	GYRO	VAUGHN
4/21/2014	7,000.00	0.37	171.78	6,999.73	-5.22	-4.79	8.73	0.10	GYRO	VAUGHN
4/21/2014	7,100.00	0.03	206.70	7,099.73	-5.57	-5.13	8.76	0.35	GYRO	VAUGHN
4/21/2014	7,200.00	0.16	102.59	7,199.72	-5.63	-5.18	8.89	0.17	GYRO	VAUGHN
4/21/2014	7,300.00	0.21	135.04	7,299.72	-5.80	-5.34	9.15	0.11	GYRO	VAUGHN
4/21/2014	7,400.00	0.27	189.97	7,399.72	-6.17	-5.71	9.24	0.23	GYRO	VAUGHN
4/21/2014	7,500.00	0.30	182.30	7,499.72	-6.66	-6.20	9.19	0.05	GYRO	VAUGHN
4/21/2014	7,600.00	0.35	151.50	7,599.72	-7.19	-6.73	9.33	0.18	GYRO	VAUGHN
4/21/2014	7,700.00	0.71	153.95	7,699.72	-8.04	-7.55	9.74	0.36	GYRO	VAUGHN
4/21/2014	7,800.00	0.55	161.10	7,799.71	-9.07	-8.56	10.17	0.18	GYRO	VAUGHN
4/21/2014	7,900.00	0.94	179.83	7,899.70	-10.35	-9.84	10.33	0.45	GYRO	VAUGHN
4/21/2014	8,000.00	0.69	156.44	7,999.69	-11.73	-11.21	10.57	0.41	GYRO	VAUGHN
4/21/2014	8,100.00	0.92	154.41	8,099.68	-13.04	-12.49	11.16	0.23	GYRO	VAUGHN
4/21/2014	8,200.00	0.81	159.71	8,199.67	-14.45	-13.87	11.75	0.14	GYRO	VAUGHN
4/21/2014	8,275.00	0.69	160.88	8,274.66	-15.39	-14.80	12.08	0.16	GYRO	VAUGHN
4/23/2014	8,415.00	0.90	217.00	8,414.65	-17.05	-16.47	11.70	0.55	MWD	LEAM
4/23/2014	8,510.00	1.70	259.60	8,509.63	-17.80	-17.32	9.86	1.27	MWD	LEAM
4/23/2014	8,605.00	3.00	267.80	8,604.55	-17.95	-17.67	5.99	1.41	MWD	LEAM
4/23/2014	8,700.00	4.20	274.80	8,699.36	-17.46	-17.48	0.04	1.34	MWD	LEAM
4/23/2014	8,794.00	4.30	282.60	8,793.10	-16.05	-16.42	-6.83	0.62	MWD	LEAM
4/23/2014	8,889.00	3.30	276.80	8,887.89	-14.64	-15.32	-13.02	1.13	MWD	LEAM
4/23/2014	8,984.00	3.30	271.20	8,982.73	-13.98	-14.94	-18.47	0.34	MWD	LEAM
4/23/2014	9,078.00	3.60	269.70	9,076.56	-13.65	-14.90	-24.12	0.33	MWD	LEAM
4/23/2014	9,173.00	4.70	263.10	9,171.31	-13.79	-15.38	-30.97	1.26	MWD	LEAM
4/23/2014	9,268.00	5.80	269.60	9,265.91	-13.85	-15.88	-39.64	1.31	MWD	LEAM
4/23/2014	9,363.00	5.40	269.20	9,360.46	-13.47	-15.98	-48.90	0.42	MWD	LEAM
4/23/2014	9,459.00	5.80	276.40	9,456.00	-12.52	-15.50	-58.24	0.84	MWD	LEAM
4/23/2014	9,554.00	5.50	273.60	9,550.54	-11.23	-14.68	-67.56	0.43	MWD	LEAM
4/23/2014	9,649.00	5.50	273.40	9,645.11	-10.21	-14.12	-76.64	0.02	MWD	LEAM
4/23/2014	9,744.00	5.20	275.90	9,739.69	-9.05	-13.41	-85.47	0.40	MWD	LEAM
4/23/2014	9,838.00	4.60	278.90	9,833.35	-7.63	-12.39	-93.43	0.69	MWD	LEAM
4/23/2014	9,933.00	4.20	278.50	9,928.07	-6.16	-11.29	-100.64	0.42	MWD	LEAM
4/23/2014	10,028.00	4.30	280.10	10,022.81	-4.67	-10.15	-107.58	0.16	MWD	LEAM



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WEST UNRESTRICTED

Directional Survey

District DELAWARE BASIN	County EDDY	Field Name INGLE WELLS	Project Group DELAWARE BASIN REG	State/Province NM
Surface Legal Location SEC25 T2S R31E	API/UWI 3001538612	Latitude (") 32° 16' 7.913" N	Longitude (") 103° 44' 16.876" W	Ground Elev... 3,483.80
			KB - GL (ft) 28.00	Orig KB Elev (ft) 3,511.80
				Tubing Head Elevation (ft)

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	EW (ft)	DLS (#/100ft)	Survey Tool	Survey Company
4/23/2014	10,123.00	4.10	270.30	10,117.55	-3.68	-9.51	-114.49	0.78	MWD	LEAM
4/24/2014	10,218.00	4.50	269.70	10,212.28	-3.32	-9.51	-121.61	0.42	MWD	LEAM
4/24/2014	10,313.00	5.60	276.10	10,306.92	-2.43	-9.03	-129.95	1.30	MWD	LEAM
4/24/2014	10,407.00	4.90	272.20	10,400.52	-1.35	-8.39	-138.52	0.84	MWD	LEAM
4/24/2014	10,501.00	4.50	266.60	10,494.20	-1.02	-8.46	-146.21	0.65	MWD	LEAM
4/24/2014	10,596.00	2.90	282.60	10,589.01	-0.41	-8.15	-152.28	1.99	MWD	LEAM
4/24/2014	10,691.00	2.60	273.60	10,683.90	0.47	-7.49	-156.77	0.55	MWD	LEAM
4/24/2014	10,785.00	1.40	250.60	10,777.84	0.39	-7.74	-159.98	1.51	MWD	LEAM
4/24/2014	10,880.00	1.40	224.00	10,872.81	-0.73	-8.96	-161.88	0.68	MWD	LEAM
4/24/2014	10,975.00	2.20	204.00	10,967.77	-3.15	-11.46	-163.43	1.06	MWD	LEAM
4/24/2014	11,006.00	2.60	200.10	10,998.74	-4.33	-12.67	-163.92	1.39	MWD	LEAM
4/24/2014	11,035.00	2.80	197.00	11,027.71	-5.60	-13.96	-164.35	0.85	MWD	LEAM
4/24/2014	11,067.00	2.50	215.10	11,059.67	-6.89	-15.28	-164.98	2.76	MWD	LEAM
4/24/2014	11,098.00	2.20	267.80	11,090.65	-7.41	-15.86	-165.96	6.78	MWD	LEAM
4/24/2014	11,130.00	5.40	320.50	11,122.58	-6.19	-14.72	-167.53	13.83	MWD	LEAM
4/24/2014	11,162.00	9.20	336.90	11,154.32	-2.58	-11.20	-169.50	13.43	MWD	LEAM
4/24/2014	11,193.00	12.70	348.50	11,184.76	3.12	-5.58	-171.15	13.29	MWD	LEAM
4/24/2014	11,225.00	16.30	355.40	11,215.73	11.09	2.35	-172.21	12.46	MWD	LEAM
4/24/2014	11,257.00	19.70	355.00	11,246.16	20.97	12.20	-173.04	10.63	MWD	LEAM
4/24/2014	11,288.00	22.70	356.10	11,275.06	32.17	23.37	-173.90	9.76	MWD	LEAM
4/24/2014	11,320.00	26.30	355.50	11,304.18	45.44	36.61	-174.88	11.28	MWD	LEAM
4/24/2014	11,352.00	29.10	353.20	11,332.51	60.29	51.40	-176.36	9.36	MWD	LEAM
4/24/2014	11,383.00	31.70	351.80	11,359.24	75.92	66.95	-178.41	8.69	MWD	LEAM
4/24/2014	11,415.00	34.50	351.80	11,386.05	93.32	84.25	-180.91	8.75	MWD	LEAM
4/24/2014	11,446.00	38.10	353.20	11,411.03	111.61	102.44	-183.29	11.92	MWD	LEAM
4/24/2014	11,479.00	40.40	355.20	11,436.58	132.46	123.21	-185.39	7.95	MWD	LEAM
4/24/2014	11,510.00	43.10	357.50	11,459.71	153.10	143.81	-186.69	10.01	MWD	LEAM
4/24/2014	11,542.00	46.20	359.60	11,482.47	175.57	166.28	-187.25	10.73	MWD	LEAM
4/24/2014	11,574.00	49.60	0.50	11,503.92	199.28	190.02	-187.23	10.83	MWD	LEAM
4/24/2014	11,606.00	52.10	0.30	11,524.12	224.05	214.84	-187.05	7.83	MWD	LEAM
4/24/2014	11,638.00	55.10	0.30	11,543.11	249.77	240.59	-186.92	9.38	MWD	LEAM
4/24/2014	11,669.00	58.30	359.70	11,560.13	275.64	266.50	-186.92	10.45	MWD	LEAM
4/24/2014	11,700.00	61.40	0.10	11,575.70	302.41	293.30	-186.97	10.06	MWD	LEAM
4/24/2014	11,732.00	64.00	359.90	11,590.37	330.81	321.73	-186.97	8.14	MWD	LEAM
4/24/2014	11,763.00	66.70	359.70	11,603.30	358.95	349.90	-187.07	8.73	MWD	LEAM
4/24/2014	11,795.00	69.30	359.60	11,615.29	388.59	379.57	-187.25	8.13	MWD	LEAM
4/24/2014	11,827.00	72.30	359.90	11,625.81	418.77	409.79	-187.38	9.42	MWD	LEAM
4/24/2014	11,858.00	73.50	359.20	11,634.92	448.37	439.41	-187.61	4.43	MWD	LEAM
4/24/2014	11,890.00	76.40	358.30	11,643.23	479.26	470.31	-188.29	9.46	MWD	LEAM
4/24/2014	11,922.00	79.40	358.20	11,649.94	510.54	501.58	-189.24	9.38	MWD	LEAM
4/24/2014	11,953.00	82.60	356.80	11,654.79	541.15	532.16	-190.58	11.24	MWD	LEAM
4/24/2014	12,048.00	88.30	356.80	11,662.32	635.81	626.67	-195.86	6.00	MWD	LEAM
4/24/2014	12,143.00	89.70	358.70	11,663.98	730.78	721.58	-199.59	2.48	MWD	LEAM
4/24/2014	12,239.00	90.70	359.40	11,663.65	826.72	817.56	-201.18	1.27	MWD	LEAM
4/24/2014	12,334.00	91.30	359.00	11,661.99	921.64	912.54	-202.51	0.76	MWD	LEAM
4/24/2014	12,428.00	91.80	359.40	11,659.44	1,015.55	1,006.50	-203.82	0.68	MWD	LEAM
4/24/2014	12,523.00	89.60	359.00	11,658.28	1,110.47	1,101.47	-205.15	2.35	MWD	LEAM
4/24/2014	12,618.00	89.70	359.40	11,658.86	1,205.40	1,196.46	-206.48	0.43	MWD	LEAM
4/24/2014	12,713.00	89.90	359.00	11,659.20	1,300.34	1,291.45	-207.80	0.47	MWD	LEAM
4/24/2014	12,807.00	89.80	359.20	11,659.44	1,394.28	1,385.44	-209.28	0.24	MWD	LEAM
4/24/2014	12,903.00	89.90	359.20	11,659.69	1,490.21	1,481.43	-210.62	0.10	MWD	LEAM
4/24/2014	12,997.00	90.20	358.70	11,659.61	1,584.16	1,575.41	-212.34	0.62	MWD	LEAM
4/24/2014	13,091.00	90.40	359.00	11,659.12	1,678.12	1,669.39	-214.23	0.38	MWD	LEAM
4/24/2014	13,280.00	90.20	357.80	11,658.13	1,867.06	1,858.31	-219.50	0.64	MWD	LEAM
4/24/2014	13,375.00	90.00	359.40	11,657.96	1,962.03	1,953.28	-221.83	1.70	MWD	LEAM



Directional Survey

District DELAWARE BASIN	County EDDY	Field Name INGLE WELLS	Project Group DELAWARE BASIN REG	State/Province NM
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			KB - GL (ft) 28.00	Orig KB Elev (ft) 3,511.80
				Tubing Head Elevation (ft)

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	ΔEW (ft)	DLS (%/100ft)	Survey Tool	Survey Company
4/24/2014	13,470.00	90.90	359.40	11,657.22	2,056.94	2,048.27	-222.82	0.95	MWD	LEAM
4/24/2014	13,565.00	91.70	359.70	11,655.06	2,151.83	2,143.25	-223.57	0.90	MWD	LEAM
4/24/2014	13,659.00	91.90	359.70	11,652.11	2,245.69	2,237.20	-224.06	0.21	MWD	LEAM
4/24/2014	13,754.00	92.00	359.60	11,648.88	2,340.54	2,332.14	-224.64	0.15	MWD	LEAM
4/24/2014	13,849.00	92.20	359.20	11,645.40	2,435.40	2,427.07	-225.63	0.47	MWD	LEAM
4/24/2014	13,943.00	92.50	359.40	11,641.54	2,529.25	2,520.99	-226.78	0.38	MWD	LEAM
4/24/2014	14,038.00	92.40	359.60	11,637.48	2,624.08	2,615.90	-227.61	0.24	MWD	LEAM
4/24/2014	14,133.00	92.40	359.40	11,633.50	2,718.91	2,710.81	-228.44	0.21	MWD	LEAM
4/24/2014	14,228.00	91.50	358.90	11,630.27	2,813.79	2,805.74	-229.84	1.08	MWD	LEAM
4/24/2014	14,324.00	90.00	358.90	11,629.01	2,909.73	2,901.71	-231.69	1.56	MWD	LEAM
4/24/2014	14,419.00	89.90	358.70	11,629.10	3,004.69	2,996.69	-233.68	0.24	MWD	LEAM
4/24/2014	14,514.00	89.90	358.50	11,629.26	3,099.66	3,091.66	-236.00	0.21	MWD	LEAM
4/24/2014	14,609.00	90.30	358.30	11,629.10	3,194.63	3,186.63	-238.65	0.47	MWD	LEAM
4/24/2014	14,704.00	90.40	359.90	11,628.52	3,289.57	3,281.61	-240.14	1.69	MWD	LEAM
4/24/2014	14,798.00	91.20	359.70	11,627.20	3,383.45	3,375.60	-240.47	0.88	MWD	LEAM
4/24/2014	14,893.00	91.60	359.60	11,624.88	3,478.33	3,470.57	-241.05	0.43	MWD	LEAM
4/24/2014	14,988.00	91.90	359.40	11,621.98	3,573.20	3,565.52	-241.88	0.38	MWD	LEAM
4/24/2014	15,083.00	90.40	359.40	11,620.07	3,668.10	3,660.49	-242.87	1.58	MWD	LEAM
4/24/2014	15,178.00	90.10	359.70	11,619.66	3,763.01	3,755.49	-243.62	0.45	MWD	LEAM
4/24/2014	15,264.00	90.50	359.70	11,619.21	3,848.92	3,841.49	-244.07	0.47	MWD	LEAM
4/24/2014	15,358.00	91.50	0.50	11,617.57	3,942.78	3,935.47	-243.91	1.36	MWD	LEAM
4/24/2014	15,454.00	90.60	0.30	11,615.81	4,038.60	4,031.45	-243.24	0.96	MWD	LEAM
4/24/2014	15,549.00	91.50	0.50	11,614.07	4,133.43	4,126.43	-242.57	0.97	MWD	LEAM
4/24/2014	15,644.00	91.00	0.60	11,612.00	4,228.23	4,221.40	-241.66	0.54	MWD	LEAM
4/24/2014	15,739.00	90.40	0.30	11,610.84	4,323.06	4,316.39	-240.92	0.71	MWD	LEAM
4/24/2014	15,835.00	89.90	359.70	11,610.58	4,418.93	4,412.39	-240.92	0.81	MWD	LEAM
4/24/2014	15,929.00	90.50	0.30	11,610.26	4,512.81	4,506.39	-240.92	0.90	MWD	LEAM
4/24/2014	16,024.00	89.50	359.60	11,610.26	4,607.69	4,601.39	-241.00	1.28	MWD	LEAM
4/24/2014	16,118.00	89.80	359.90	11,610.83	4,701.59	4,695.39	-241.41	0.45	MWD	LEAM
4/24/2014	16,174.00	89.80	359.90	11,611.03	4,757.52	4,751.39	-241.51	0.00	BIT	LEAM