

devon

APR 24 2015

30-025-41599

Directional Survey

Sub-Division DELAWARE BASIN	County LEA	Field Name JOHNSON RANCH	Region DELAWARE BASIN EAST	State/Province NM
Surface Legal Location SEC35 T23S R33E	API/UWI 3002541599	Latitude (°) 32° 15' 15.931" N	Longitude (°) 103° 32' 50.325" W	Ground Elev M. 3,665.50
				Orig KB Elev (ft) 3,690.50
				Tubing Head Elevation (ft)

Wellbores

Wellbore Name OH	Parent Wellbore	SAP Well ID 37469	Vertical Section Direction (°) 1.20
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Kick Offs & Key Depths

Date	Type	Top Depth (ftKB)
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Actual Deviation Survey EXTREME, Proposed? Yes	Definitive? Yes	Proposed? Yes	Proposed Deviation Survey
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Deviation Survey

Date 11/23/2014		Description EXTREME			
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	EWtie In (ft) 0.00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
11/23/2...	217.00	1.19	286.42	216.98	0.59	0.64	-2.16	0.55	MWD	EXTREME
11/23/2...	335.00	1.49	300.71	334.95	1.67	1.77	-4.66	0.38	MWD	EXTREME
11/23/2...	455.00	1.41	292.00	454.91	2.96	3.12	-7.37	0.20	MWD	EXTREME
11/23/2...	699.00	1.19	331.69	698.86	6.23	6.47	-11.35	0.37	MWD	EXTREME
11/23/2...	873.00	0.88	294.49	872.83	8.33	8.62	-13.42	0.42	MWD	EXTREME
11/23/2...	970.00	1.10	298.29	969.81	9.05	9.37	-14.92	0.24	MWD	EXTREME
11/23/2...	1,063.00	0.79	291.30	1,062.80	9.68	10.02	-16.31	0.36	MWD	EXTREME
11/23/2...	1,159.00	0.70	268.49	1,158.79	9.88	10.25	-17.51	0.32	MWD	EXTREME
11/23/2...	1,252.00	0.48	281.19	1,251.79	9.92	10.31	-18.46	0.27	MWD	EXTREME
11/23/2...	1,345.00	0.31	159.62	1,344.79	9.75	10.15	-18.75	0.75	MWD	EXTREME
11/27/2...	1,546.00	0.66	289.28	1,545.78	9.61	10.02	-19.66	0.44	MWD	HALLIBURTON ENERGY SE...
11/27/2...	1,609.00	0.72	288.49	1,608.78	9.84	10.27	-20.37	0.10	MWD	HALLIBURTON ENERGY SE...
11/27/2...	1,704.00	0.73	283.71	1,703.77	10.15	10.60	-21.53	0.06	MWD	HALLIBURTON ENERGY SE...
11/27/2...	1,798.00	0.56	222.70	1,797.77	9.93	10.40	-22.42	0.71	MWD	HALLIBURTON ENERGY SE...
11/27/2...	1,893.00	0.45	201.98	1,892.76	9.23	9.72	-22.88	0.22	MWD	HALLIBURTON ENERGY SE...
12/3/2014	1,987.00	0.66	216.90	1,986.76	8.45	8.94	-23.34	0.27	MWD	WEATHERFORD
11/27/2...	2,081.00	0.56	131.36	2,080.75	7.71	8.20	-23.32	0.88	MWD	HALLIBURTON ENERGY SE...
11/27/2...	2,176.00	0.56	113.02	2,175.75	7.24	7.72	-22.54	0.19	MWD	HALLIBURTON ENERGY SE...
11/27/2...	2,270.00	0.47	137.94	2,269.75	6.79	7.25	-21.86	0.25	MWD	HALLIBURTON ENERGY SE...
11/27/2...	2,365.00	0.55	149.56	2,364.74	6.12	6.57	-21.37	0.14	MWD	HALLIBURTON ENERGY SE...
12/3/2014	2,459.00	0.49	121.35	2,458.74	5.53	5.97	-20.80	0.28	MWD	WEATHERFORD
12/3/2014	2,553.00	0.44	144.34	2,552.74	5.04	5.47	-20.24	0.20	MWD	WEATHERFORD
12/3/2014	2,648.00	0.25	106.97	2,647.73	4.69	5.11	-19.83	0.30	MWD	WEATHERFORD
11/28/2...	2,742.00	0.25	90.51	2,741.73	4.64	5.05	-19.43	0.08	MWD	HALLIBURTON ENERGY SE...
11/28/2...	2,837.00	0.28	58.08	2,836.73	4.77	5.17	-19.03	0.16	MWD	HALLIBURTON ENERGY SE...
11/28/2...	2,932.00	0.29	3.37	2,931.73	5.14	5.53	-18.82	0.28	MWD	HALLIBURTON ENERGY SE...
11/28/2...	3,026.00	0.21	16.56	3,025.73	5.54	5.93	-18.75	0.10	MWD	HALLIBURTON ENERGY SE...
12/3/2014	3,121.00	0.25	6.47	3,120.73	5.91	6.31	-18.68	0.06	MWD	WEATHERFORD
11/29/2...	3,216.00	0.36	53.22	3,215.73	6.30	6.69	-18.42	0.28	MWD	HALLIBURTON ENERGY SE...
11/29/2...	3,310.00	0.36	39.87	3,309.73	6.72	7.10	-17.99	0.09	MWD	HALLIBURTON ENERGY SE...
12/3/2014	3,404.00	0.28	349.97	3,403.73	7.17	7.55	-17.84	0.30	MWD	WEATHERFORD
12/3/2014	3,499.00	0.20	3.16	3,498.72	7.57	7.94	-17.87	0.10	MWD	WEATHERFORD
11/29/2...	3,593.00	0.22	345.37	3,592.72	7.90	8.28	-17.91	0.07	MWD	HALLIBURTON ENERGY SE...
11/29/2...	3,688.00	0.31	26.56	3,687.72	8.31	8.69	-17.84	0.22	MWD	HALLIBURTON ENERGY SE...
11/29/2...	3,782.00	0.16	341.53	3,781.72	8.67	9.04	-17.77	0.24	MWD	HALLIBURTON ENERGY SE...
11/29/2...	3,876.00	0.29	350.12	3,875.72	9.02	9.40	-17.85	0.14	MWD	HALLIBURTON ENERGY SE...
11/29/2...	3,971.00	0.49	28.56	3,970.72	9.62	9.99	-17.70	0.34	MWD	HALLIBURTON ENERGY SE...
11/29/2...	4,065.00	0.44	37.58	4,064.72	10.27	10.63	-17.29	0.09	MWD	HALLIBURTON ENERGY SE...
12/3/2014	4,160.00	0.45	39.70	4,159.71	10.85	11.21	-16.83	0.02	MWD	WEATHERFORD
11/29/2...	4,254.00	0.56	44.94	4,253.71	11.47	11.82	-16.27	0.13	MWD	HALLIBURTON ENERGY SE...
11/29/2...	4,349.00	1.32	73.03	4,348.70	12.15	12.46	-14.89	0.91	MWD	HALLIBURTON ENERGY SE...
11/29/2...	4,443.00	2.45	86.32	4,442.65	12.66	12.91	-11.85	1.28	MWD	HALLIBURTON ENERGY SE...
11/29/2...	4,538.00	3.42	92.02	4,537.52	12.79	12.94	-6.99	1.07	MWD	HALLIBURTON ENERGY SE...
11/29/2...	4,633.00	4.57	92.33	4,632.29	12.67	12.69	-0.38	1.21	MWD	HALLIBURTON ENERGY SE...
11/29/2...	4,727.00	4.51	98.71	4,725.99	12.12	11.97	7.02	0.54	MWD	HALLIBURTON ENERGY SE...

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Survey Data

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12/3/2014	4,821.00	5.35	106.01	4,819.65	10.51	10.21	14.88	1.11	MWD	WEATHERFORD
12/3/2014	4,916.00	5.72	106.89	4,914.20	8.10	7.61	23.67	0.40	MWD	WEATHERFORD
11/29/2...	5,011.00	5.76	106.04	5,008.73	5.60	4.92	32.78	0.10	MWD	HALLIBURTON ENERGY SE...
12/3/2014	5,105.00	4.99	105.99	5,102.31	3.35	2.49	41.24	0.82	MWD	WEATHERFORD
12/3/2014	5,155.00	4.44	104.82	5,152.14	2.34	1.39	45.20	1.12	MWD	WEATHERFORD
12/3/2014	5,298.00	3.72	105.44	5,294.78	-0.11	-1.26	55.03	0.50	MWD	WEATHERFORD
12/3/2014	5,392.00	4.27	110.35	5,388.55	-2.00	-3.29	61.25	0.69	MWD	WEATHERFORD
12/1/2014	5,487.00	5.48	110.71	5,483.20	-4.68	-6.12	68.81	1.27	MWD	HALLIBURTON ENERGY SE...
12/1/2014	5,581.00	5.74	108.98	5,576.75	-7.61	-9.24	77.45	0.33	MWD	HALLIBURTON ENERGY SE...
12/1/2014	5,676.00	5.78	108.02	5,671.28	-10.45	-12.26	86.49	0.11	MWD	HALLIBURTON ENERGY SE...
12/1/2014	5,770.00	5.92	107.50	5,764.79	-13.18	-15.18	95.62	0.16	MWD	HALLIBURTON ENERGY SE...
12/1/2014	5,865.00	6.05	106.83	5,859.27	-15.90	-18.11	105.08	0.16	MWD	HALLIBURTON ENERGY SE...
12/1/2014	5,959.00	6.23	105.96	5,952.73	-18.54	-20.94	114.73	0.22	MWD	HALLIBURTON ENERGY SE...
12/1/2014	6,054.00	6.28	105.84	6,047.16	-21.16	-23.78	124.68	0.05	MWD	HALLIBURTON ENERGY SE...
12/1/2014	6,148.00	6.02	104.89	6,140.62	-23.63	-26.45	134.39	0.30	MWD	HALLIBURTON ENERGY SE...
12/1/2014	6,242.00	5.75	104.31	6,234.13	-25.86	-28.88	143.72	0.29	MWD	HALLIBURTON ENERGY SE...
12/1/2014	6,337.00	5.71	103.00	6,328.65	-27.91	-31.12	152.93	0.14	MWD	HALLIBURTON ENERGY SE...
12/1/2014	6,432.00	5.65	102.02	6,423.19	-29.75	-33.16	162.11	0.12	MWD	HALLIBURTON ENERGY SE...
12/2/2014	6,526.00	6.19	105.78	6,516.68	-31.90	-35.50	171.51	0.71	MWD	HALLIBURTON ENERGY SE...
12/2/2014	6,621.00	6.82	112.21	6,611.07	-35.21	-39.02	181.67	1.01	MWD	HALLIBURTON ENERGY SE...
12/2/2014	6,715.00	6.84	111.82	6,704.41	-39.18	-43.21	192.03	0.05	MWD	HALLIBURTON ENERGY SE...
12/3/2014	6,809.00	6.73	111.30	6,797.75	-43.05	-47.29	202.36	0.13	MWD	WEATHERFORD
12/2/2014	6,903.00	6.59	110.84	6,891.11	-46.75	-51.21	212.53	0.16	MWD	HALLIBURTON ENERGY SE...
12/2/2014	6,998.00	6.36	109.97	6,985.51	-50.28	-54.95	222.57	0.26	MWD	HALLIBURTON ENERGY SE...
12/2/2014	7,092.00	6.43	109.79	7,078.92	-53.63	-58.51	232.42	0.08	MWD	HALLIBURTON ENERGY SE...
12/2/2014	7,186.00	6.52	115.67	7,172.32	-57.52	-62.61	242.18	0.71	MWD	HALLIBURTON ENERGY SE...
12/2/2014	7,281.00	6.59	116.32	7,266.70	-62.07	-67.36	251.93	0.11	MWD	HALLIBURTON ENERGY SE...
12/2/2014	7,376.00	6.59	116.63	7,361.08	-66.72	-72.22	261.69	0.04	MWD	HALLIBURTON ENERGY SE...
12/3/2014	7,470.00	6.62	116.94	7,454.45	-71.39	-77.09	271.34	0.05	MWD	WEATHERFORD
12/3/2014	7,564.00	6.70	116.09	7,547.82	-76.05	-81.96	281.09	0.14	MWD	HALLIBURTON ENERGY SE...
12/3/2014	7,659.00	6.73	115.04	7,642.17	-80.64	-86.75	291.11	0.13	MWD	HALLIBURTON ENERGY SE...
12/3/2014	7,754.00	6.64	113.95	7,736.52	-85.01	-91.34	301.18	0.16	MWD	HALLIBURTON ENERGY SE...
12/3/2014	7,848.00	6.57	113.51	7,829.90	-89.15	-95.69	311.07	0.09	MWD	WEATHERFORD
12/3/2014	7,943.00	6.80	113.82	7,924.25	-93.38	-100.13	321.20	0.25	MWD	WEATHERFORD
12/3/2014	8,037.00	6.76	112.89	8,017.59	-97.56	-104.53	331.39	0.12	MWD	WEATHERFORD
12/3/2014	8,132.00	6.78	113.15	8,111.93	-101.73	-108.91	341.70	0.04	MWD	WEATHERFORD
12/3/2014	8,226.00	6.77	112.52	8,205.27	-105.82	-113.21	351.92	0.08	MWD	WEATHERFORD
12/3/2014	8,321.00	6.67	114.16	8,299.62	-110.00	-117.61	362.12	0.23	MWD	WEATHERFORD
12/3/2014	8,415.00	6.70	114.64	8,392.98	-114.31	-122.13	372.09	0.07	MWD	WEATHERFORD
12/3/2014	8,510.00	6.72	113.47	8,487.33	-118.62	-126.66	382.22	0.15	MWD	WEATHERFORD
12/3/2014	8,604.00	6.76	113.08	8,580.68	-122.77	-131.02	392.36	0.06	MWD	WEATHERFORD
12/3/2014	8,699.00	6.78	113.84	8,675.02	-127.01	-135.48	402.63	0.10	MWD	WEATHERFORD
12/3/2014	8,793.00	6.71	113.44	8,768.37	-131.23	-139.90	412.75	0.09	MWD	WEATHERFORD
12/3/2014	8,887.00	6.73	114.03	8,861.72	-135.44	-144.33	422.82	0.08	MWD	WEATHERFORD
12/3/2014	8,982.00	6.12	110.65	8,956.13	-139.29	-148.38	432.64	0.76	MWD	WEATHERFORD
12/3/2014	9,077.00	5.18	110.48	9,050.66	-142.39	-151.67	441.39	0.99	MWD	WEATHERFORD
12/3/2014	9,171.00	4.35	110.68	9,144.34	-144.98	-154.41	448.70	0.88	MWD	WEATHERFORD
12/3/2014	9,265.00	4.43	112.63	9,238.06	-147.50	-157.07	455.39	0.18	MWD	WEATHERFORD
12/3/2014	9,360.00	4.41	109.71	9,332.78	-150.00	-159.71	462.22	0.24	MWD	WEATHERFORD
12/3/2014	9,454.00	4.43	113.58	9,426.50	-152.53	-162.38	468.95	0.32	MWD	WEATHERFORD
12/3/2014	9,549.00	4.70	114.79	9,521.20	-155.48	-165.48	475.84	0.30	MWD	WEATHERFORD
12/3/2014	9,643.00	4.74	120.26	9,614.88	-158.91	-169.05	482.69	0.48	MWD	WEATHERFORD
12/3/2014	9,738.00	4.75	133.56	9,709.56	-163.47	-173.74	488.93	1.16	MWD	WEATHERFORD
12/3/2014	9,833.00	4.98	140.89	9,804.22	-169.26	-179.65	494.38	0.70	MWD	WEATHERFORD
12/3/2014	9,927.00	5.62	142.72	9,897.81	-175.97	-186.48	499.75	0.70	MWD	WEATHERFORD
12/3/2014	10,022.00	6.15	145.62	9,992.31	-183.75	-194.38	505.44	0.64	MWD	WEATHERFORD
12/3/2014	10,116.00	6.31	145.30	10,085.76	-192.03	-202.79	511.22	0.17	MWD	WEATHERFORD



SEA SNAKE 35 STATE 2H

DELAWARE BASIN UNRESTRICTED

Directional Survey

Sub-Division DELAWARE BASIN	County LEA	Field Name JOHNSON RANCH	Region DELAWARE BASIN EAST	State/Province NM
Surface Legal Location SEC35 T23S R33E	API/UWI 3002541599	Latitude (°) 32° 15' 15.931" N	Longitude (°) 103° 32' 50.325" W	Ground Elev M... 3,665.50
				Orig KB Elev (ft) 3,690.50
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12/3/2014	10,211.00	6.51	141.45	10,180.16	-200.40	-211.29	517.55	0.50	MWD	WEATHERFORD
12/3/2014	10,305.00	6.40	139.18	10,273.57	-208.39	-219.42	524.30	0.30	MWD	WEATHERFORD
12/3/2014	10,400.00	6.07	138.55	10,368.01	-216.02	-227.19	531.08	0.35	MWD	WEATHERFORD
12/3/2014	10,494.00	5.88	138.66	10,461.50	-223.22	-234.53	537.55	0.20	MWD	WEATHERFORD
12/3/2014	10,589.00	6.13	131.75	10,555.98	-230.11	-241.56	544.55	0.80	MWD	WEATHERFORD
12/3/2014	10,684.00	6.11	130.06	10,650.43	-236.58	-248.20	552.20	0.19	MWD	WEATHERFORD
12/3/2014	10,698.00	6.13	130.49	10,664.35	-237.52	-249.16	553.34	0.36	MWD	WEATHERFORD
12/3/2014	10,751.00	6.68	129.45	10,717.02	-241.22	-252.96	557.88	1.06	MWD	WEATHERFORD
12/3/2014	10,782.00	8.86	117.76	10,747.74	-243.40	-255.21	561.38	8.65	MWD	WEATHERFORD
12/3/2014	10,814.00	11.78	102.33	10,779.22	-245.14	-257.06	566.75	12.49	MWD	WEATHERFORD
12/3/2014	10,845.00	14.62	92.02	10,809.41	-245.80	-257.87	573.76	11.87	MWD	WEATHERFORD
12/3/2014	10,877.00	16.87	80.90	10,840.21	-245.03	-257.28	582.38	11.73	MWD	WEATHERFORD
12/3/2014	10,908.00	18.73	70.77	10,869.73	-242.49	-254.93	591.53	11.63	MWD	WEATHERFORD
12/3/2014	10,940.00	19.71	59.78	10,899.96	-237.88	-250.52	601.04	11.69	MWD	WEATHERFORD
12/3/2014	10,971.00	21.45	50.94	10,928.99	-231.49	-244.32	609.96	11.47	MWD	WEATHERFORD
12/3/2014	11,003.00	23.08	43.04	10,958.61	-223.03	-236.04	618.79	10.64	MWD	WEATHERFORD
12/3/2014	11,034.00	26.18	37.95	10,986.79	-213.02	-226.21	627.15	12.11	MWD	WEATHERFORD
12/3/2014	11,066.00	28.58	32.39	11,015.20	-200.81	-214.17	635.59	10.95	MWD	WEATHERFORD
12/3/2014	11,098.00	31.32	29.27	11,042.93	-186.92	-200.45	643.76	9.85	MWD	WEATHERFORD
12/3/2014	11,129.00	35.03	26.18	11,068.87	-171.74	-185.43	651.63	13.15	MWD	WEATHERFORD
12/3/2014	11,161.00	39.22	21.69	11,094.39	-153.93	-167.78	659.42	15.59	MWD	WEATHERFORD
12/3/2014	11,192.00	43.77	17.95	11,117.60	-134.47	-148.46	666.35	16.71	MWD	WEATHERFORD
12/3/2014	11,223.00	48.48	14.88	11,139.09	-112.91	-127.03	672.64	16.78	MWD	WEATHERFORD
12/3/2014	11,254.00	53.12	12.18	11,158.68	-89.45	-103.68	678.24	16.42	MWD	WEATHERFORD
12/3/2014	11,286.00	58.72	10.28	11,176.60	-63.36	-77.69	683.39	18.18	MWD	WEATHERFORD
12/3/2014	11,317.00	64.00	8.98	11,191.45	-36.46	-50.87	687.93	17.42	MWD	WEATHERFORD
12/3/2014	11,349.00	68.87	6.75	11,204.25	-7.33	-21.83	691.93	16.50	MWD	WEATHERFORD
12/3/2014	11,380.00	72.61	3.89	11,214.47	21.85	7.30	694.64	14.88	MWD	WEATHERFORD
12/3/2014	11,412.00	76.73	1.92	11,222.93	52.69	38.12	696.19	14.18	MWD	WEATHERFORD
12/3/2014	11,427.00	78.94	1.20	11,226.09	67.35	52.77	696.59	15.46	MWD	WEATHERFORD
12/3/2014	11,441.00	80.96	0.58	11,228.53	81.13	66.56	696.81	15.07	MWD	WEATHERFORD
12/3/2014	11,473.00	85.53	359.63	11,232.30	112.90	98.33	696.86	14.58	MWD	WEATHERFORD
12/3/2014	11,504.00	87.27	359.58	11,234.24	143.82	129.26	696.65	5.62	MWD	WEATHERFORD
12/3/2014	11,536.00	87.34	359.56	11,235.75	175.78	161.23	696.41	0.23	MWD	WEATHERFORD
12/3/2014	11,567.00	87.06	359.13	11,237.26	206.72	192.19	696.06	1.65	MWD	WEATHERFORD
12/3/2014	11,630.00	88.25	357.85	11,239.84	269.60	255.11	694.40	2.77	MWD	WEATHERFORD
12/3/2014	11,662.00	88.88	357.23	11,240.64	301.52	287.07	693.03	2.76	MWD	WEATHERFORD
12/3/2014	11,756.00	89.51	355.87	11,241.96	395.20	380.89	687.37	1.59	MWD	WEATHERFORD
12/3/2014	11,850.00	90.28	356.24	11,242.13	488.82	474.66	680.90	0.91	MWD	WEATHERFORD
12/3/2014	11,945.00	90.70	355.49	11,241.32	583.40	569.41	674.05	0.90	MWD	WEATHERFORD
12/3/2014	12,039.00	90.91	354.99	11,240.00	676.89	663.08	666.25	0.58	MWD	WEATHERFORD
12/3/2014	12,133.00	90.49	356.30	11,238.85	770.44	756.80	659.12	1.46	MWD	WEATHERFORD
12/3/2014	12,228.00	89.79	356.38	11,238.62	865.09	851.60	653.05	0.74	MWD	WEATHERFORD
12/3/2014	12,322.00	90.07	357.75	11,238.74	958.85	945.48	648.24	1.49	MWD	WEATHERFORD
12/3/2014	12,417.00	89.09	358.77	11,239.43	1,053.72	1,040.43	645.35	1.49	MWD	WEATHERFORD
12/3/2014	12,512.00	89.58	359.28	11,240.53	1,148.64	1,135.41	643.74	0.74	MWD	WEATHERFORD
12/3/2014	12,607.00	88.74	359.61	11,241.93	1,243.58	1,230.39	642.82	0.95	MWD	WEATHERFORD
12/3/2014	12,701.00	88.46	359.91	11,244.22	1,337.53	1,324.36	642.42	0.44	MWD	WEATHERFORD
12/3/2014	12,796.00	88.60	0.13	11,246.66	1,432.48	1,419.33	642.46	0.27	MWD	WEATHERFORD
12/3/2014	12,890.00	87.83	359.36	11,249.59	1,526.40	1,513.28	642.04	1.16	MWD	WEATHERFORD
12/3/2014	12,985.00	88.53	359.36	11,252.61	1,621.30	1,608.23	640.98	0.74	MWD	WEATHERFORD
12/3/2014	13,078.00	89.30	359.09	11,254.37	1,714.23	1,701.20	639.72	0.88	MWD	WEATHERFORD
12/3/2014	13,173.00	90.28	359.20	11,254.72	1,809.16	1,796.19	638.30	1.04	MWD	WEATHERFORD
12/3/2014	13,268.00	89.79	358.48	11,254.66	1,904.08	1,891.17	636.38	0.92	MWD	WEATHERFORD
12/3/2014	13,362.00	90.98	359.27	11,254.03	1,998.00	1,985.15	634.53	1.52	MWD	WEATHERFORD
12/3/2014	13,457.00	91.12	358.83	11,252.28	2,092.92	2,080.12	632.96	0.49	MWD	WEATHERFORD
12/3/2014	13,551.00	90.84	357.78	11,250.68	2,186.78	2,174.06	630.18	1.16	MWD	WEATHERFORD
12/3/2014	13,646.00	90.84	357.64	11,249.28	2,281.60	2,268.98	626.38	0.15	MWD	WEATHERFORD



SEA SNAKE 35 STATE 2H

DELAWARE BASIN UNRESTRICTED

Directional Survey

Sub-Division DELAWARE BASIN	County LEA	Field Name JOHNSON RANCH	Region DELAWARE BASIN EAST	State/Province NM
Surface Legal Location SEC35 T23S R33E	API/UWI 3002541599	Latitude (°) 32° 15' 15.931" N	Longitude (°) 103° 32' 50.325" W	Ground Elev M. 3,665.50
				Orig KB Elev (ft) 3,690.50
				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
12/3/2014	13,740.00	90.98	357.15	11,247.79	2,375.38	2,362.87	622.11	0.54	MWD	WEATHERFORD
12/3/2014	13,835.00	91.40	357.33	11,245.82	2,470.13	2,457.74	617.54	0.48	MWD	WEATHERFORD
12/3/2014	13,929.00	89.72	357.31	11,244.90	2,563.91	2,551.63	613.14	1.79	MWD	WEATHERFORD
12/3/2014	14,024.00	89.65	357.86	11,245.42	2,658.72	2,646.54	609.14	0.58	MWD	WEATHERFORD
12/3/2014	14,118.00	89.37	357.52	11,246.23	2,752.54	2,740.46	605.35	0.47	MWD	WEATHERFORD
12/3/2014	14,213.00	89.16	357.46	11,247.44	2,847.33	2,835.36	601.19	0.23	MWD	WEATHERFORD
12/3/2014	14,307.00	90.00	358.58	11,248.13	2,941.18	2,929.30	597.94	1.49	MWD	WEATHERFORD
12/3/2014	14,402.00	90.49	359.84	11,247.73	3,036.12	3,024.29	596.63	1.42	MWD	WEATHERFORD
12/3/2014	14,496.00	91.26	0.04	11,246.29	3,130.08	3,118.28	596.54	0.85	MWD	WEATHERFORD
12/3/2014	14,591.00	90.98	359.58	11,244.43	3,225.04	3,213.26	596.22	0.57	MWD	WEATHERFORD
12/3/2014	14,685.00	90.98	358.75	11,242.83	3,318.96	3,307.23	594.85	0.88	MWD	WEATHERFORD
12/3/2014	14,780.00	89.79	358.81	11,242.19	3,413.88	3,402.21	592.83	1.25	MWD	WEATHERFORD
12/3/2014	14,875.00	89.86	358.76	11,242.48	3,508.79	3,497.18	590.81	0.09	MWD	WEATHERFORD
12/3/2014	14,969.00	89.30	359.22	11,243.17	3,602.72	3,591.17	589.16	0.77	MWD	WEATHERFORD
12/3/2014	15,063.00	89.58	359.13	11,244.09	3,696.65	3,685.15	587.80	0.31	MWD	WEATHERFORD
12/3/2014	15,158.00	89.93	358.85	11,244.49	3,791.58	3,780.14	586.13	0.47	MWD	WEATHERFORD
12/3/2014	15,252.00	89.51	359.80	11,244.95	3,885.53	3,874.13	585.02	1.10	MWD	WEATHERFORD
12/3/2014	15,347.00	89.44	359.04	11,245.82	3,980.48	3,969.12	584.06	0.80	MWD	WEATHERFORD
12/3/2014	15,441.00	88.95	0.33	11,247.14	4,074.44	4,063.11	583.54	1.47	MWD	WEATHERFORD
12/3/2014	15,535.00	89.51	0.29	11,248.41	4,168.41	4,157.10	584.05	0.60	MWD	WEATHERFORD
12/3/2014	15,630.00	89.37	359.84	11,249.34	4,263.39	4,252.09	584.16	0.50	MWD	WEATHERFORD
12/3/2014	15,725.00	89.93	359.36	11,249.92	4,358.35	4,347.09	583.50	0.78	MWD	WEATHERFORD
12/3/2014	15,819.00	90.14	359.20	11,249.86	4,452.30	4,441.08	582.32	0.28	MWD	WEATHERFORD
12/3/2014	15,914.00	90.07	358.66	11,249.68	4,547.22	4,536.06	580.54	0.57	MWD	WEATHERFORD
12/3/2014	16,009.00	90.84	358.33	11,248.93	4,642.11	4,631.02	578.05	0.88	MWD	WEATHERFORD
12/3/2014	16,065.00	90.98	358.23	11,248.04	4,698.03	4,686.99	576.37	0.31	MWD	WEATHERFORD
12/3/2014	16,134.00	90.98	358.23	11,246.86	4,766.93	4,755.95	574.24	0.00	BIT	WEATHERFORD