

Results of Directional Survey

API number:	30-025-41515		
OGRID:		Operator:	DEVON ENERGY PRODUCTION COMPANY, LP
		Property:	BELL LAKE 19 STATE # 2H

surface	ULSTR:	O	19	T 24S	R 33E
				200 FSL	1920 FEL

BH Loc	ULSTR:	C	19	T 24S	R 33E
15931	MD	11104.6	TVD	341 FNL	1925 FWL
				4939 FSL	3314 FEL

Top Perf/OH	ULSTR:	N	19	T 24S	R 33E
11324	MD	11116.5	TVD	353 FSL	2281 FWL
					2969 FEL
Bot Perf/OH	ULSTR:	C	19	T 24S	R 33E
15833	MD	11101.2	TVD	439 FNL	1934 FWL
				4841 FSL	3305 FEL

	MD	N/S	E/W	VD
	11292	124.45	-1039.69	11106.24
TOP PERFS/OH	11324	153.38	-1048.71	11116.49
	11324	153.38	-1048.71	11116.49
	15744	4552.66	-1375.84	11098.90
BOT PERFS/OH	15833	4641.19	-1384.67	11101.23
	15839	4647.16	-1385.27	11101.39

NEXT TO LAST	15867	4675.02	-1387.88	11102.28
LAST READING	✓ 15931	4738.71	-1393.76	✓ 11104.55
TD	✓ 15931	4738.71	-1393.76	✓ 11104.55

Surface Location	200	FS	1920	FE
Projected BHL	4939	FS	3314	FE
Location of				
Top Perfs/OH	353	FS	2969	FE
Bottom Perfs/OH	4841	FS	3305	FE

SUMMARY of Subsurface Locations

Surface Location	O-19-24S-33E	200	FS	1920	FE	Vert. Depth
Top Perfs/OH	N-19-24S-33E	353	FS	2969	FE	11116.49
Bottom Perfs/OH	C-19-24S-33E	4841	FS	3305	FE	11101.23
Projected TD	C-19-24S-33E	4939	FS	3314	FE	11104.55

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District DELAWARE BASIN	County LEA	Field Name JOHNSON RANCH	Project Group DELAWARE BASIN REG	State/Province NM			
Surface Legal Location SEC19 T24S R33E	API/UWI 3002541515	Latitude (°) 32° 11' 46.857" N	Longitude (°) 103° 36' 30.88" W	Ground Elev... 3,548.20	KB - GL (ft) 25.00	Orig KB Elev (ft) 3,573.20	Tubing Head Elevation (ft)

Wellbores							
Wellbore Name OH	Parent Wellbore OH	SAP Well ID 35988	Kick Off Depth (ftKB)	Vertical Section Direction (°) 356.46			
Actual Deviation Survey EXTREME, Proposed? No		Definitive? Yes	Proposed? No	Proposed Deviation Survey			

Deviation Survey							
Date 7/10/2014	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	EW Tie 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
7/10/2014	175.00	0.40	210.29	175.00	-0.51	-0.53	-0.31	0.23	MWD	EXTREME
7/10/2014	325.00	0.48	214.42	324.99	-1.44	-1.50	-0.93	0.06	MWD	EXTREME
7/10/2014	446.00	0.48	217.10	445.99	-2.22	-2.32	-1.52	0.02	MWD	EXTREME
7/10/2014	563.00	0.48	213.89	562.99	-2.98	-3.12	-2.09	0.02	MWD	EXTREME
7/10/2014	683.00	0.48	213.10	682.98	-3.79	-3.96	-2.64	0.01	MWD	EXTREME
7/10/2014	744.00	0.62	236.99	743.98	-4.15	-4.35	-3.06	0.44	MWD	EXTREME
7/10/2014	893.00	0.79	250.19	892.97	-4.84	-5.14	-4.70	0.16	MWD	EXTREME
7/10/2014	984.00	1.19	253.49	983.95	-5.23	-5.62	-6.20	0.44	MWD	EXTREME
7/10/2014	1,109.00	1.32	251.51	1,108.92	-5.89	-6.44	-8.81	0.11	MWD	EXTREME
7/10/2014	1,236.00	1.19	249.71	1,235.89	-6.65	-7.37	-11.43	0.11	MWD	EXTREME
7/10/2014	1,286.00	1.10	248.22	1,285.88	-6.95	-7.72	-12.36	0.19	MWD	EXTREME
7/10/2014	1,418.00	0.88	244.01	1,417.86	-7.73	-8.64	-14.45	0.18	MWD	WEATHERFORD
7/10/2014	1,512.00	0.74	246.24	1,511.85	-8.21	-9.20	-15.66	0.15	MWD	WEATHERFORD
7/10/2014	1,607.00	1.03	181.76	1,606.84	-9.28	-10.30	-16.24	1.03	MWD	WEATHERFORD
7/10/2014	1,701.00	0.49	238.33	1,700.84	-10.31	-11.35	-16.61	0.92	MWD	WEATHERFORD
7/10/2014	1,795.00	1.51	265.31	1,794.82	-10.52	-11.67	-18.19	1.17	MWD	WEATHERFORD
7/10/2014	1,890.00	3.75	266.58	1,889.72	-10.54	-11.95	-22.54	2.36	MWD	WEATHERFORD
7/10/2014	1,984.00	4.49	266.43	1,983.47	-10.54	-12.37	-29.28	0.79	MWD	WEATHERFORD
7/10/2014	2,078.00	4.12	264.83	2,077.21	-10.63	-12.90	-36.31	0.41	MWD	WEATHERFORD
7/10/2014	2,173.00	3.94	264.35	2,171.97	-10.85	-13.53	-42.96	0.19	MWD	WEATHERFORD
7/10/2014	2,267.00	3.57	263.19	2,265.77	-11.14	-14.19	-49.08	0.40	MWD	WEATHERFORD
7/10/2014	2,362.00	3.21	261.38	2,360.60	-11.54	-14.94	-54.65	0.40	MWD	WEATHERFORD
7/10/2014	2,456.00	2.88	260.87	2,454.47	-12.00	-15.71	-59.58	0.35	MWD	WEATHERFORD
7/10/2014	2,551.00	2.45	260.74	2,549.37	-12.44	-16.42	-63.94	0.45	MWD	WEATHERFORD
7/10/2014	2,645.00	3.12	258.45	2,643.26	-13.00	-17.25	-68.43	0.72	MWD	WEATHERFORD
7/10/2014	2,740.00	4.73	267.21	2,738.03	-13.30	-17.96	-74.88	1.80	MWD	WEATHERFORD
7/10/2014	2,834.00	5.03	272.73	2,831.69	-12.80	-17.95	-82.86	0.59	MWD	WEATHERFORD
7/10/2014	2,929.00	4.43	271.52	2,926.37	-12.03	-17.66	-90.69	0.64	MWD	WEATHERFORD
7/10/2014	3,023.00	4.06	272.10	3,020.11	-11.38	-17.44	-97.65	0.40	MWD	WEATHERFORD
7/10/2014	3,118.00	3.57	272.64	3,114.90	-10.73	-17.18	-103.96	0.52	MWD	WEATHERFORD
7/10/2014	3,212.00	3.45	271.67	3,208.72	-10.16	-16.96	-109.71	0.14	MWD	WEATHERFORD
7/10/2014	3,306.00	4.36	265.44	3,302.50	-9.96	-17.17	-116.10	1.07	MWD	WEATHERFORD
7/10/2014	3,401.00	4.38	263.27	3,397.23	-10.23	-17.88	-123.30	0.18	MWD	WEATHERFORD
7/10/2014	3,495.00	3.80	261.26	3,490.99	-10.71	-18.77	-129.95	0.64	MWD	WEATHERFORD
7/10/2014	3,590.00	4.63	261.15	3,585.73	-11.35	-19.84	-136.85	0.87	MWD	WEATHERFORD
7/10/2014	3,685.00	4.66	261.38	3,680.42	-12.05	-21.01	-144.45	0.04	MWD	WEATHERFORD
7/10/2014	3,779.00	3.99	258.04	3,774.15	-12.87	-22.26	-151.43	0.76	MWD	WEATHERFORD
7/10/2014	3,873.00	4.63	258.57	3,867.88	-13.87	-23.69	-158.34	0.68	MWD	WEATHERFORD
7/10/2014	3,968.00	4.44	261.24	3,962.59	-14.73	-25.01	-165.74	0.30	MWD	WEATHERFORD
7/10/2014	4,062.00	3.71	257.44	4,056.35	-15.53	-26.22	-172.30	0.83	MWD	WEATHERFORD
7/10/2014	4,156.00	4.71	259.81	4,150.09	-16.46	-27.57	-179.07	1.08	MWD	WEATHERFORD
7/10/2014	4,251.00	4.74	258.24	4,244.77	-17.47	-29.06	-186.75	0.14	MWD	WEATHERFORD
7/10/2014	4,345.00	3.81	253.75	4,338.51	-18.71	-30.72	-193.55	1.05	MWD	WEATHERFORD
7/10/2014	4,439.00	4.36	255.88	4,432.27	-20.06	-32.47	-200.01	0.61	MWD	WEATHERFORD
7/10/2014	4,565.00	4.23	254.62	4,557.91	-21.89	-34.87	-209.14	0.13	MWD	WEATHERFORD
7/10/2014	4,628.00	3.77	250.15	4,620.76	-22.95	-36.19	-213.33	0.88	MWD	WEATHERFORD
7/10/2014	4,723.00	3.38	241.09	4,715.58	-25.03	-38.60	-218.72	0.72	MWD	WEATHERFORD

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Surface Legal Location SEC19 T24S R33E	API/UWI 3002541515	Latitude (°) 32° 11' 46.857" N	Longitude (°) 103° 36' 30.88" W	Ground Elev... 3,548.20	KB - GL (ft) 25.00	Orig KB Elev (ft) 3,573.20	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
7/10/2014	4,817.00	4.62	254.44	4,809.35	-27.00	-40.96	-224.79	1.64	MWD	WEATHERFORD
7/10/2014	4,875.00	5.36	258.46	4,867.13	-27.86	-42.13	-229.69	1.41	MWD	WEATHERFORD
7/10/2014	5,013.00	4.49	260.84	5,004.62	-29.29	-44.28	-241.34	0.65	MWD	WEATHERFORD
7/10/2014	5,107.00	5.06	264.19	5,098.29	-29.81	-45.28	-249.10	0.67	MWD	WEATHERFORD
7/10/2014	5,202.00	6.57	261.75	5,192.80	-30.43	-46.49	-258.65	1.61	MWD	WEATHERFORD
7/10/2014	5,297.00	7.82	256.28	5,287.05	-32.02	-48.80	-270.30	1.50	MWD	WEATHERFORD
7/10/2014	5,392.00	8.93	262.99	5,381.04	-33.60	-51.23	-283.90	1.55	MWD	WEATHERFORD
7/10/2014	5,487.00	9.41	261.07	5,474.82	-34.78	-53.34	-298.89	0.60	MWD	WEATHERFORD
7/10/2014	5,582.00	9.04	261.44	5,568.60	-36.16	-55.65	-313.94	0.39	MWD	WEATHERFORD
7/10/2014	5,677.00	9.07	260.26	5,662.41	-37.62	-58.03	-328.70	0.20	MWD	WEATHERFORD
7/10/2014	5,771.00	9.02	259.69	5,755.24	-39.29	-60.60	-343.26	0.11	MWD	WEATHERFORD
7/10/2014	5,866.00	8.74	258.53	5,849.10	-41.17	-63.37	-357.66	0.35	MWD	WEATHERFORD
7/10/2014	5,961.00	9.33	261.38	5,942.93	-42.84	-65.96	-372.34	0.78	MWD	WEATHERFORD
7/10/2014	6,056.00	9.86	267.42	6,036.60	-43.39	-67.48	-388.08	1.20	MWD	WEATHERFORD
7/10/2014	6,151.00	9.51	266.39	6,130.24	-43.26	-68.34	-404.04	0.41	MWD	WEATHERFORD
7/10/2014	6,246.00	9.36	266.80	6,223.96	-43.23	-69.27	-419.59	0.17	MWD	WEATHERFORD
7/10/2014	6,340.00	9.43	265.76	6,316.70	-43.28	-70.26	-434.90	0.20	MWD	WEATHERFORD
7/10/2014	6,435.00	9.55	265.56	6,410.40	-43.49	-71.45	-450.52	0.13	MWD	WEATHERFORD
7/10/2014	6,529.00	9.88	264.98	6,503.05	-43.83	-72.76	-466.33	0.37	MWD	WEATHERFORD
7/10/2014	6,624.00	9.75	264.55	6,596.66	-44.30	-74.24	-482.45	0.16	MWD	WEATHERFORD
7/10/2014	6,719.00	9.34	263.27	6,690.34	-45.00	-75.90	-498.12	0.49	MWD	WEATHERFORD
7/10/2014	6,814.00	8.71	262.10	6,784.17	-45.98	-77.79	-512.90	0.69	MWD	WEATHERFORD
7/10/2014	6,909.00	8.20	261.11	6,878.14	-47.16	-79.83	-526.72	0.56	MWD	WEATHERFORD
7/10/2014	7,004.00	9.09	261.55	6,972.05	-48.43	-81.98	-540.83	0.94	MWD	WEATHERFORD
7/10/2014	7,098.00	8.51	261.30	7,064.95	-49.69	-84.12	-555.05	0.62	MWD	WEATHERFORD
7/10/2014	7,193.00	9.77	256.30	7,158.74	-51.74	-87.10	-569.83	1.57	MWD	WEATHERFORD
7/10/2014	7,287.00	9.63	255.81	7,251.40	-54.60	-90.91	-585.20	0.17	MWD	WEATHERFORD
7/10/2014	7,382.00	9.21	254.28	7,345.12	-57.68	-94.92	-600.23	0.51	MWD	WEATHERFORD
7/10/2014	7,477.00	8.56	254.39	7,438.98	-60.76	-98.88	-614.35	0.68	MWD	WEATHERFORD
7/10/2014	7,571.00	8.93	255.37	7,531.88	-63.63	-102.61	-628.15	0.42	MWD	WEATHERFORD
7/10/2014	7,667.00	8.05	256.87	7,626.83	-66.18	-106.02	-641.91	0.95	MWD	WEATHERFORD
7/10/2014	7,760.00	9.39	258.05	7,718.75	-68.37	-109.07	-655.67	1.45	MWD	WEATHERFORD
7/10/2014	7,855.00	9.05	258.48	7,812.53	-70.54	-112.16	-670.57	0.37	MWD	WEATHERFORD
7/10/2014	7,949.00	8.30	258.50	7,905.45	-72.51	-114.99	-684.47	0.80	MWD	WEATHERFORD
7/10/2014	8,044.00	9.14	259.22	7,999.35	-74.41	-117.77	-698.60	0.89	MWD	WEATHERFORD
7/10/2014	8,138.00	9.38	262.47	8,092.13	-75.88	-120.17	-713.53	0.61	MWD	WEATHERFORD
7/10/2014	8,233.00	8.32	262.81	8,185.99	-76.86	-122.05	-728.02	1.12	MWD	WEATHERFORD
7/10/2014	8,328.00	9.31	258.42	8,279.87	-78.37	-124.45	-742.37	1.26	MWD	WEATHERFORD
7/10/2014	8,422.00	9.78	261.17	8,372.57	-80.17	-127.20	-757.71	0.70	MWD	WEATHERFORD
7/10/2014	8,517.00	8.84	261.34	8,466.32	-81.57	-129.54	-772.90	0.99	MWD	WEATHERFORD
7/10/2014	8,612.00	9.21	264.14	8,560.14	-82.53	-131.41	-787.67	0.60	MWD	WEATHERFORD
7/10/2014	8,706.00	9.84	264.31	8,652.85	-83.13	-132.98	-803.15	0.67	MWD	WEATHERFORD
7/10/2014	8,801.00	8.87	264.37	8,746.58	-83.70	-134.50	-818.52	1.02	MWD	WEATHERFORD
7/10/2014	8,896.00	9.20	261.20	8,840.40	-84.67	-136.38	-833.31	0.63	MWD	WEATHERFORD
7/10/2014	8,990.00	8.44	260.10	8,933.29	-86.12	-138.72	-847.53	0.83	MWD	WEATHERFORD
7/10/2014	9,085.00	7.59	261.45	9,027.36	-87.44	-140.85	-860.61	0.92	MWD	WEATHERFORD
7/10/2014	9,179.00	6.69	259.64	9,120.63	-88.63	-142.76	-872.13	0.99	MWD	WEATHERFORD
7/10/2014	9,274.00	5.55	260.63	9,215.09	-89.76	-144.50	-882.11	1.21	MWD	WEATHERFORD
7/10/2014	9,368.00	4.46	258.17	9,308.73	-90.75	-145.99	-890.17	1.18	MWD	WEATHERFORD
7/10/2014	9,463.00	3.58	258.22	9,403.50	-91.70	-147.35	-896.69	0.93	MWD	WEATHERFORD
7/10/2014	9,557.00	3.42	261.70	9,497.32	-92.36	-148.36	-902.34	0.28	MWD	WEATHERFORD
7/10/2014	9,652.00	2.49	258.89	9,592.19	-92.86	-149.16	-907.16	0.99	MWD	WEATHERFORD
7/10/2014	9,747.00	2.29	260.40	9,687.11	-93.34	-149.88	-911.06	0.22	MWD	WEATHERFORD
7/10/2014	9,842.00	2.13	251.54	9,782.04	-93.99	-150.75	-914.61	0.40	MWD	WEATHERFORD
7/10/2014	9,936.00	2.35	238.06	9,875.97	-95.36	-152.32	-917.90	0.61	MWD	WEATHERFORD



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7/10/2014	10,031.00	2.61	226.61	9,970.88	-97.67	-154.84	-921.12	0.59	MWD	WEATHERFORD
7/10/2014	10,126.00	2.73	234.19	10,065.78	-100.26	-157.65	-924.53	0.39	MWD	WEATHERFORD
7/10/2014	10,220.00	2.83	233.86	10,159.67	-102.71	-160.33	-928.22	0.11	MWD	WEATHERFORD
7/10/2014	10,315.00	2.78	229.67	10,254.55	-105.35	-163.20	-931.87	0.22	MWD	WEATHERFORD
7/10/2014	10,410.00	2.74	225.77	10,349.44	-108.21	-166.28	-935.25	0.20	MWD	WEATHERFORD
7/10/2014	10,504.00	2.47	225.08	10,443.35	-111.02	-169.28	-938.30	0.29	MWD	WEATHERFORD
7/10/2014	10,615.00	2.63	237.48	10,554.24	-113.83	-172.33	-942.14	0.52	MWD	WEATHERFORD
7/10/2014	10,660.00	2.70	236.35	10,599.19	-114.86	-173.48	-943.89	0.19	MWD	WEATHERFORD
7/10/2014	10,692.00	2.74	282.35	10,631.16	-115.03	-173.73	-945.27	6.64	MWD	WEATHERFORD
7/10/2014	10,723.00	4.92	312.60	10,662.09	-113.87	-172.67	-946.97	9.36	MWD	WEATHERFORD
7/10/2014	10,755.00	8.51	330.09	10,693.87	-110.76	-169.69	-949.16	12.79	MWD	WEATHERFORD
7/10/2014	10,787.00	11.94	344.51	10,725.36	-105.40	-164.44	-951.23	13.30	MWD	WEATHERFORD
7/10/2014	10,818.00	15.79	348.27	10,755.45	-98.08	-157.22	-952.94	12.75	MWD	WEATHERFORD
7/10/2014	10,850.00	18.80	348.81	10,786.00	-88.66	-147.90	-954.83	9.42	MWD	WEATHERFORD
7/10/2014	10,881.00	21.59	345.04	10,815.09	-78.12	-137.49	-957.27	9.93	MWD	WEATHERFORD
7/10/2014	10,913.00	23.99	344.81	10,844.59	-65.97	-125.52	-960.49	7.51	MWD	WEATHERFORD
7/10/2014	10,944.00	28.34	344.83	10,872.41	-52.59	-112.33	-964.07	14.03	MWD	WEATHERFORD
7/10/2014	10,976.00	31.03	345.26	10,900.21	-37.05	-97.02	-968.16	8.43	MWD	WEATHERFORD
7/10/2014	11,008.00	34.09	344.30	10,927.17	-20.19	-80.40	-972.69	9.70	MWD	WEATHERFORD
7/10/2014	11,039.00	38.31	342.45	10,952.18	-2.37	-62.87	-977.94	14.06	MWD	WEATHERFORD
7/10/2014	11,071.00	41.73	342.21	10,976.69	17.58	-43.27	-984.18	10.70	MWD	WEATHERFORD
7/10/2014	11,102.00	44.73	341.53	10,999.27	38.13	-23.09	-990.79	9.79	MWD	WEATHERFORD
7/10/2014	11,134.00	48.18	343.01	11,021.31	60.61	-1.00	-997.85	11.29	MWD	WEATHERFORD
7/10/2014	11,166.00	51.56	341.89	11,041.94	84.35	22.32	-1,005.23	10.90	MWD	WEATHERFORD
7/10/2014	11,197.00	54.48	339.41	11,060.58	108.16	45.68	-1,013.44	11.38	MWD	WEATHERFORD
7/10/2014	11,229.00	58.82	341.54	11,078.17	133.86	70.87	-1,022.36	14.66	MWD	WEATHERFORD
7/10/2014	11,260.00	63.30	342.11	11,093.17	160.10	96.64	-1,030.82	14.54	MWD	WEATHERFORD
7/10/2014	11,292.00	68.46	342.49	11,106.24	188.41	124.45	-1,039.69	16.16	MWD	WEATHERFORD
7/10/2014	11,324.00	74.16	342.88	11,116.49	217.84	153.38	-1,048.71	17.85	MWD	WEATHERFORD
7/10/2014	11,355.00	78.53	342.80	11,123.81	247.11	182.15	-1,057.60	14.10	MWD	WEATHERFORD
7/10/2014	11,387.00	83.77	343.66	11,128.73	277.88	212.42	-1,066.71	16.59	MWD	WEATHERFORD
7/10/2014	11,422.00	89.65	343.32	11,130.74	311.91	245.90	-1,076.64	16.83	MWD	WEATHERFORD
7/10/2014	11,454.00	91.82	345.32	11,130.33	343.19	276.71	-1,085.29	9.22	MWD	WEATHERFORD
7/10/2014	11,485.00	91.40	345.64	11,129.46	373.61	306.70	-1,093.06	1.70	MWD	WEATHERFORD
7/10/2014	11,580.00	91.19	348.40	11,127.31	467.29	399.24	-1,114.39	2.91	MWD	WEATHERFORD
7/10/2014	11,675.00	90.91	352.16	11,125.57	561.71	492.85	-1,130.42	3.97	MWD	WEATHERFORD
7/10/2014	11,769.00	90.00	354.85	11,124.82	655.57	586.23	-1,141.05	3.02	MWD	WEATHERFORD
7/10/2014	11,864.00	91.05	356.55	11,123.95	750.55	680.96	-1,148.17	2.10	MWD	WEATHERFORD
7/10/2014	11,959.00	90.84	356.89	11,122.38	845.54	775.79	-1,153.61	0.42	MWD	WEATHERFORD
7/10/2014	12,054.00	90.28	357.28	11,121.46	940.53	870.66	-1,158.44	0.72	MWD	WEATHERFORD
7/10/2014	12,149.00	91.61	358.02	11,119.89	1,035.49	965.56	-1,162.33	1.60	MWD	WEATHERFORD
7/10/2014	12,244.00	92.03	357.80	11,116.87	1,130.41	1,060.45	-1,165.80	0.50	MWD	WEATHERFORD
7/10/2014	12,338.00	91.61	358.78	11,113.89	1,224.32	1,154.36	-1,168.60	1.13	MWD	WEATHERFORD
7/10/2014	12,433.00	91.68	359.56	11,111.16	1,319.17	1,249.31	-1,169.98	0.82	MWD	WEATHERFORD
7/10/2014	12,527.00	89.44	357.40	11,110.24	1,413.09	1,343.26	-1,172.47	3.31	MWD	WEATHERFORD
7/10/2014	12,622.00	90.49	356.20	11,110.30	1,508.09	1,438.11	-1,177.77	1.68	MWD	WEATHERFORD
7/10/2014	12,717.00	89.86	356.58	11,110.01	1,603.09	1,532.92	-1,183.75	0.77	MWD	WEATHERFORD
7/10/2014	12,811.00	89.93	357.21	11,110.18	1,697.09	1,626.78	-1,188.84	0.67	MWD	WEATHERFORD
7/10/2014	12,905.00	90.49	357.33	11,109.84	1,791.08	1,720.68	-1,193.32	0.61	MWD	WEATHERFORD
7/10/2014	13,000.00	91.19	357.07	11,108.44	1,886.06	1,815.55	-1,197.96	0.79	MWD	WEATHERFORD
7/10/2014	13,095.00	91.05	357.98	11,106.59	1,981.02	1,910.44	-1,202.06	0.97	MWD	WEATHERFORD
7/10/2014	13,189.00	91.12	358.19	11,104.81	2,074.97	2,004.37	-1,205.20	0.24	MWD	WEATHERFORD
7/10/2014	13,284.00	90.56	357.74	11,103.41	2,169.92	2,099.30	-1,208.58	0.76	MWD	WEATHERFORD
7/10/2014	13,379.00	90.35	356.94	11,102.66	2,264.91	2,194.20	-1,212.99	0.87	MWD	WEATHERFORD
7/10/2014	13,474.00	90.42	356.78	11,102.02	2,359.90	2,289.05	-1,218.19	0.18	MWD	WEATHERFORD



BELL LAKE 19 STATE 2H

WEST UNRESTRICTED

Directional Survey

District DELAWARE BASIN	County LEA	Field Name JOHNSON RANCH	Project Group DELAWARE BASIN REG	State/Province NM
Surface Legal Location SEC19 T24S R33E	API/UWI 3002541515	Latitude (°) 32° 11' 46.857" N	Longitude (°) 103° 36' 30.88" W	Ground Elev... 3,548.20
			KB - GL (ft) 25.00	Orig KB Elev (ft) 3,573.20
				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
7/10/2014	13,569.00	90.14	357.15	11,101.56	2,454.90	2,383.92	-1,223.22	0.49	MWD	WEATHERFORD
7/10/2014	13,664.00	90.07	355.12	11,101.38	2,549.89	2,478.70	-1,229.62	2.14	MWD	WEATHERFORD
7/10/2014	13,759.00	89.44	355.03	11,101.79	2,644.86	2,573.35	-1,237.78	0.67	MWD	WEATHERFORD
7/10/2014	13,853.00	89.65	356.68	11,102.53	2,738.85	2,667.09	-1,244.57	1.77	MWD	WEATHERFORD
7/10/2014	13,948.00	89.30	357.34	11,103.41	2,833.84	2,761.96	-1,249.53	0.79	MWD	WEATHERFORD
7/10/2014	14,043.00	90.98	357.73	11,103.17	2,928.82	2,856.87	-1,253.61	1.82	MWD	WEATHERFORD
7/10/2014	14,137.00	90.42	358.38	11,102.02	3,022.78	2,950.81	-1,256.80	0.91	MWD	WEATHERFORD
7/10/2014	14,232.00	89.93	357.38	11,101.73	3,117.75	3,045.74	-1,260.32	1.17	MWD	WEATHERFORD
7/10/2014	14,326.00	90.07	356.20	11,101.73	3,211.74	3,139.59	-1,265.58	1.26	MWD	WEATHERFORD
7/10/2014	14,421.00	90.07	355.79	11,101.62	3,306.74	3,234.36	-1,272.22	0.43	MWD	WEATHERFORD
7/10/2014	14,516.00	89.30	355.76	11,102.14	3,401.73	3,329.10	-1,279.21	0.81	MWD	WEATHERFORD
7/10/2014	14,610.00	88.53	356.03	11,103.92	3,495.71	3,422.84	-1,285.94	0.87	MWD	WEATHERFORD
7/10/2014	14,705.00	88.46	355.52	11,106.42	3,590.67	3,517.55	-1,292.94	0.54	MWD	WEATHERFORD
7/10/2014	14,800.00	89.93	355.24	11,107.75	3,685.64	3,612.23	-1,300.59	1.58	MWD	WEATHERFORD
7/10/2014	14,895.00	89.51	355.78	11,108.21	3,780.62	3,706.93	-1,308.03	0.72	MWD	WEATHERFORD
7/10/2014	14,989.00	90.42	355.86	11,108.27	3,874.62	3,800.68	-1,314.88	0.97	MWD	WEATHERFORD
7/10/2014	15,084.00	91.75	355.90	11,106.47	3,969.59	3,895.42	-1,321.70	1.40	MWD	WEATHERFORD
7/10/2014	15,178.00	93.29	355.98	11,102.34	4,063.50	3,989.09	-1,328.35	1.64	MWD	WEATHERFORD
7/10/2014	15,273.00	93.50	355.73	11,096.71	4,158.32	4,083.67	-1,335.21	0.34	MWD	WEATHERFORD
7/10/2014	15,367.00	92.10	356.09	11,092.12	4,252.20	4,177.32	-1,341.90	1.54	MWD	WEATHERFORD
7/10/2014	15,462.00	87.97	354.89	11,092.06	4,347.17	4,272.00	-1,349.37	4.53	MWD	WEATHERFORD
7/10/2014	15,556.00	88.39	355.11	11,095.05	4,441.09	4,365.60	-1,357.56	0.50	MWD	WEATHERFORD
7/10/2014	15,650.00	89.16	354.26	11,097.06	4,535.02	4,459.17	-1,366.26	1.22	MWD	WEATHERFORD
7/10/2014	15,744.00	88.60	354.04	11,098.90	4,628.93	4,552.66	-1,375.84	0.64	MWD	WEATHERFORD
7/10/2014	15,839.00	88.39	354.57	11,101.39	4,723.83	4,647.16	-1,385.27	0.60	MWD	WEATHERFORD
7/10/2014	15,867.00	87.97	354.72	11,102.28	4,751.80	4,675.02	-1,387.88	1.59	MWD	WEATHERFORD
7/10/2014	15,931.00	87.97	354.72	11,104.55	4,815.73	4,738.71	-1,393.76	0.00	BIT	WEATHERFORD