



Directional Survey

Well Name: BELL LAKE 19 STATE 6H

Sub-Division	Region	Field Name	County	State/Province		
DELAWARE BASIN	DELAWARE BASIN EAST	JOHNSON RANCH	LEA	NM		
Surface Legal Location	API/UWI	Latitude (°)	Longitude (°)	Orig KB Elevation (ft)	Ground Elev MSL (ft)	KB - GL (ft)
SEC 19-24S-33E	3002542536	32° 11' 48.049" N	103° 37' 5.651" W	3,571.60	3,541.60	30.00

Wellbores			
Wellbore Name	Parent Wellbore	SAP Well ID	Vertical Section Direction (°)
OH	OH	38503	HOBBS OCD

Kick Offs & Key Depths			
Date	Type	Top Depth (ftKB)	SEP 15 2015
6/6/2015	CURVE	9,965.0	
Actual Deviation Survey	Definitive?	Proposed?	Proposed Deviation Survey
EXTREME/WEATHERFORD MWD, Proposed? No	No	No	

Deviation Survey					RECEIVED
Date 5/24/2015		Description EXTREME/WEATHERFORD 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	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
5/24/2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MS	EXTREME
5/24/2015	25.00	0.14	198.13	25.00	-0.03	-0.03	-0.01	0.56	MS	EXTREME
5/24/2015	146.00	0.79	198.13	146.00	-0.96	-0.96	-0.32	0.54	MS	EXTREME
5/24/2015	199.00	0.88	102.94	198.99	-1.40	-1.40	-0.03	2.33	MS	EXTREME
5/24/2015	236.00	0.48	81.93	235.99	-1.44	-1.44	0.40	1.26	MS	EXTREME
5/24/2015	303.00	1.19	73.72	302.98	-1.20	-1.21	1.34	1.07	MS	EXTREME
5/24/2015	394.00	1.01	85.63	393.96	-0.86	-0.88	3.05	0.32	MS	EXTREME
5/24/2015	483.00	1.41	90.72	482.94	-0.79	-0.84	4.93	0.46	MS	EXTREME
5/24/2015	590.00	1.32	106.72	589.91	-1.14	-1.21	7.42	0.36	MS	EXTREME
5/24/2015	668.00	0.88	98.33	667.90	-1.48	-1.55	8.88	0.60	MS	EXTREME
5/24/2015	765.00	0.79	117.93	764.89	-1.89	-1.97	10.21	0.31	MS	EXTREME
5/24/2015	857.00	0.70	125.13	856.88	-2.50	-2.59	11.23	0.14	MS	EXTREME
5/24/2015	950.00	1.01	131.81	949.87	-3.36	-3.47	12.30	0.35	MS	EXTREME
5/24/2015	1,043.00	0.70	143.33	1,042.86	-4.35	-4.47	13.25	0.38	MS	EXTREME
5/24/2015	1,054.00	1.01	134.93	1,053.86	-4.48	-4.59	13.36	3.03	MS	EXTREME
5/24/2015	1,240.00	0.88	157.04	1,239.84	-6.93	-7.06	15.08	0.21	MS	EXTREME
5/24/2015	1,330.00	0.79	166.71	1,329.83	-8.17	-8.30	15.49	0.19	MS	EXTREME
5/24/2015	1,425.00	0.70	160.33	1,424.82	-9.35	-9.49	15.84	0.13	MS	EXTREME
5/24/2015	1,518.00	0.79	155.02	1,517.81	-10.46	-10.60	16.30	0.12	MS	EXTREME
5/24/2015	1,610.00	0.79	190.44	1,609.80	-11.66	-11.80	16.45	0.52	MS	EXTREME
5/24/2015	1,703.00	0.70	158.62	1,702.79	-12.82	-12.96	16.54	0.45	MS	EXTREME
5/24/2015	1,796.00	0.70	166.92	1,795.79	-13.90	-14.05	16.88	0.11	MS	EXTREME
5/24/2015	1,890.00	0.79	176.81	1,889.78	-15.10	-15.25	17.04	0.17	MS	EXTREME
5/24/2015	1,987.00	0.62	177.91	1,986.77	-16.30	-16.44	17.10	0.18	MS	EXTREME
5/24/2015	2,082.00	0.62	152.42	2,081.77	-17.26	-17.41	17.36	0.29	MS	EXTREME
5/24/2015	2,177.00	0.70	168.73	2,176.76	-18.28	-18.44	17.71	0.21	MS	EXTREME
5/24/2015	2,271.00	0.48	189.82	2,270.76	-19.23	-19.39	17.75	0.33	MS	EXTREME
5/24/2015	2,365.00	0.40	187.54	2,364.75	-19.95	-20.10	17.64	0.09	MS	EXTREME
5/24/2015	2,461.00	0.31	173.82	2,460.75	-20.54	-20.69	17.63	0.13	MS	EXTREME
5/24/2015	2,556.00	0.31	104.43	2,555.75	-20.86	-21.01	17.90	0.37	MS	EXTREME
5/24/2015	2,746.00	0.40	128.60	2,745.75	-21.39	-21.55	18.92	0.09	MS	EXTREME
5/24/2015	2,841.00	0.62	111.33	2,840.74	-21.78	-21.95	19.66	0.28	MS	EXTREME
5/24/2015	2,937.00	0.79	109.71	2,936.74	-22.18	-22.36	20.76	0.18	MS	EXTREME
5/24/2015	3,033.00	0.88	77.41	3,032.73	-22.23	-22.42	22.11	0.49	MS	EXTREME
5/24/2015	3,126.00	0.70	85.93	3,125.72	-22.02	-22.23	23.37	0.23	MS	EXTREME
5/24/2015	3,218.00	0.70	97.62	3,217.71	-22.05	-22.26	24.49	0.15	MS	EXTREME
5/24/2015	3,313.00	0.88	94.02	3,312.70	-22.17	-22.39	25.79	0.20	MS	EXTREME
5/24/2015	3,408.00	0.62	77.32	3,407.69	-22.09	-22.33	27.02	0.35	MS	EXTREME
5/24/2015	3,503.00	0.79	72.40	3,502.69	-21.77	-22.02	28.15	0.19	MS	EXTREME
5/24/2015	3,595.00	0.79	86.64	3,594.68	-21.53	-21.79	29.38	0.21	MS	EXTREME
5/24/2015	3,690.00	0.40	98.33	3,689.67	-21.53	-21.80	30.37	0.43	MS	EXTREME
5/24/2015	3,787.00	0.62	90.24	3,786.67	-21.58	-21.85	31.22	0.24	MS	EXTREME
5/24/2015	3,884.00	0.48	85.63	3,883.66	-21.54	-21.82	32.15	0.15	MS	EXTREME
5/24/2015	3,976.00	0.88	65.24	3,975.66	-21.21	-21.49	33.18	0.50	MS	EXTREME
5/24/2015	4,071.00	0.70	88.92	4,070.65	-20.88	-21.18	34.42	0.39	MS	EXTREME
5/24/2015	4,167.00	0.40	72.00	4,166.64	-20.76	-21.06	35.33	0.35	MS	EXTREME
5/24/2015	4,259.00	0.62	92.31	4,258.64	-20.67	-20.98	36.13	0.31	MS	EXTREME
5/24/2015	4,358.00	0.88	84.53	4,357.63	-20.61	-20.93	37.42	0.28	MS	EXTREME
5/24/2015	4,450.00	1.01	97.71	4,449.62	-20.64	-20.97	38.93	0.27	MS	EXTREME
5/24/2015	4,545.00	1.41	113.03	4,544.60	-21.19	-21.54	40.84	0.54	MS	EXTREME
5/24/2015	4,640.00	2.20	125.00	4,639.55	-22.67	-23.05	43.40	0.92	MS	EXTREME
5/24/2015	4,735.00	2.81	121.13	4,734.46	-24.89	-25.30	46.89	0.67	MS	EXTREME
5/24/2015	4,830.00	2.42	128.74	4,829.36	-27.32	-27.76	50.45	0.55	MS	EXTREME
5/24/2015	4,925.00	2.42	130.41	4,924.28	-29.85	-30.31	53.54	0.07	MS	EXTREME
5/24/2015	5,100.00	2.20	130.25	5,099.13	-34.37	-34.88	58.92	0.13	MS	EXTREME
5/24/2015	5,196.00	2.20	129.92	5,195.06	-36.72	-37.25	61.74	0.01	MS	EXTREME
5/24/2015	5,291.00	2.11	136.12	5,290.00	-39.12	-39.68	64.35	0.26	MS	EXTREME
5/24/2015	5,384.00	2.02	136.21	5,382.94	-41.52	-42.10	66.67	0.10	MS	EXTREME
5/24/2015	5,480.00	1.80	128.52	5,478.88	-43.66	-44.26	69.02	0.35	MS	EXTREME
5/24/2015	5,575.00	2.02	132.52	5,573.83	-45.70	-46.32	71.42	0.27	MS	EXTREME
5/24/2015	5,669.00	2.02	122.10	5,667.77	-47.68	-48.32	74.05	0.39	MS	EXTREME
5/24/2015	5,764.00	1.80	121.62	5,762.72	-49.33	-49.99	76.73	0.23	MS	EXTREME
5/24/2015	5,956.00	1.89	126.54	5,954.62	-52.75	-53.46	81.85	0.09	MS	EXTREME
5/24/2015	6,051.00	1.41	123.73	6,049.58	-54.31	-55.04	84.08	0.51	MS	EXTREME
5/24/2015	6,146.00	1.32	123.73	6,144.55	-55.55	-56.30	85.96	0.09	MS	EXTREME
5/24/2015	6,241.00	1.49	110.50	6,239.52	-56.57	-57.34	88.03	0.38	MS	EXTREME



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