



Directional Survey

Well Name: BELLOQ 2 STATE 6H

Sub-Division DELAWARE BASIN WEST		Region BASIN WEST		Field Name INGLE WELLS		County EDDY		State/Province NM					
Surface Legal Location SEC2 T23S R31E		API/UWI 3001542897		Latitude (°) 32° 20' 24.657" N		Longitude (°) 103° 45' 5.145" W		Orig KB Elevation (ft) 3,455.10		Ground Elev MSL (ft) 3,430.10		KB - GL (ft) 25.00	
Wellbores													
Wellbore Name OH		Parent Wellbore OH			SAP Well ID 38177			Vertical Section Direction (°)					
Kick Offs & Key Depths													
Date				Type				Top Depth (ftKB)					
Actual Deviation Survey ACTUAL SURVEYS, Proposed? No				Definitive? No		Proposed? No		Proposed Deviation Survey					
Deviation Survey													
Date 4/21/2015		Description ACTUAL SURVEYS											
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			
4/21/2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD	EXTREME			
4/21/2015	109.00	0.70	333.91	109.00	-0.62	0.60	-0.29	0.64	MWD	EXTREME			
4/21/2015	225.00	1.41	49.19	224.98	-2.11	2.17	0.48	1.21	MWD	EXTREME			
4/21/2015	282.00	1.49	50.91	281.96	-2.94	3.09	1.58	0.16	MWD	EXTREME			
4/21/2015	380.00	1.60	59.69	379.93	-4.23	4.59	3.75	0.27	MWD	EXTREME			
4/21/2015	472.00	1.71	68.79	471.89	-5.15	5.73	6.14	0.31	MWD	EXTREME			
4/21/2015	566.00	1.41	72.79	565.85	-5.77	6.58	8.55	0.34	MWD	EXTREME			
4/21/2015	593.00	1.49	67.69	592.85	-5.95	6.81	9.19	0.56	MWD	EXTREME			
5/11/2015	744.00	1.30	62.80	743.80	-7.16	8.34	12.53	0.15	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	836.00	1.20	57.20	835.78	-8.00	9.34	14.27	0.17	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	927.00	1.00	72.70	926.76	-8.61	10.09	15.83	0.39	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	1,017.00	0.90	37.70	1,016.75	-9.29	10.88	17.01	0.64	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	1,108.00	1.00	51.70	1,107.74	-10.24	11.94	18.07	0.28	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	1,199.00	0.60	32.80	1,198.73	-11.05	12.84	18.96	0.52	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	1,289.00	0.80	32.80	1,288.72	-11.92	13.76	19.55	0.22	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	1,380.00	0.60	55.80	1,379.72	-12.65	14.56	20.29	0.37	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	1,471.00	0.40	3.90	1,470.71	-13.19	15.15	20.70	0.52	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	1,563.00	0.40	4.80	1,562.71	-13.83	15.79	20.75	0.01	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	1,653.00	0.40	44.00	1,652.71	-14.34	16.33	21.00	0.30	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	1,747.00	0.40	298.20	1,746.71	-14.74	16.72	20.94	0.68	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	1,841.00	0.20	57.40	1,840.71	-14.99	16.96	20.79	0.56	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	1,937.00	0.40	284.70	1,936.71	-15.18	17.14	20.60	0.58	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	2,032.00	0.40	191.80	2,031.70	-14.98	16.89	20.21	0.61	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	2,126.00	0.50	224.50	2,125.70	-14.40	16.28	19.86	0.29	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	2,221.00	0.60	232.30	2,220.70	-13.87	15.68	19.18	0.13	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	2,316.00	0.70	243.90	2,315.69	-13.39	15.12	18.26	0.17	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	2,411.00	0.80	259.20	2,410.68	-13.12	14.74	17.09	0.23	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	2,507.00	0.60	225.20	2,506.68	-12.74	14.26	16.07	0.47	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	2,602.00	0.60	234.40	2,601.67	-12.17	13.62	15.32	0.10	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	2,696.00	0.50	282.40	2,695.67	-12.04	13.42	14.51	0.49	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	2,791.00	0.40	255.70	2,790.66	-12.12	13.43	13.79	0.24	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	2,886.00	0.60	272.50	2,885.66	-12.13	13.37	12.97	0.26	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	2,981.00	0.60	289.90	2,980.66	-12.41	13.56	12.01	0.19	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	3,074.00	0.70	274.80	3,073.65	-12.72	13.78	10.98	0.21	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	3,168.00	0.70	266.00	3,167.64	-12.83	13.78	9.84	0.11	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	3,263.00	0.60	281.50	3,262.64	-12.98	13.84	8.77	0.21	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	3,358.00	0.50	260.00	3,357.63	-13.09	13.87	7.87	0.24	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	3,453.00	0.30	329.10	3,452.63	-13.28	14.01	7.34	0.51	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	3,548.00	0.40	101.70	3,547.63	-13.41	14.16	7.54	0.68	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	3,642.00	1.30	131.60	3,641.62	-12.54	13.38	8.65	1.04	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	3,737.00	1.30	132.80	3,736.59	-10.95	11.93	10.25	0.03	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	3,832.00	1.20	133.50	3,831.57	-9.40	10.52	11.76	0.11	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	3,927.00	1.60	123.50	3,926.54	-7.82	9.10	13.59	0.49	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	4,022.00	1.90	124.90	4,021.50	-5.98	7.47	15.99	0.32	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	4,117.00	2.00	127.20	4,116.44	-3.84	5.56	18.60	0.13	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	4,190.00	1.90	121.20	4,189.40	-2.27	4.17	20.65	0.31	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	4,258.00	1.50	109.20	4,257.37	-1.23	3.29	22.46	0.78	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	4,353.00	2.00	96.90	4,352.33	-0.37	2.68	25.28	0.66	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	4,447.00	2.30	62.10	4,446.27	-0.75	3.37	28.57	1.40	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	4,542.00	2.80	42.30	4,541.17	-3.05	5.98	31.82	1.06	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	4,636.00	4.00	40.70	4,635.01	-6.88	10.16	35.50	1.28	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	4,730.00	5.20	33.10	4,728.70	-12.50	16.21	39.96	1.43	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	4,825.00	5.10	31.50	4,823.32	-19.26	23.42	44.52	0.18	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	4,919.00	5.20	31.90	4,916.94	-26.01	30.60	48.96	0.11	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	5,014.00	5.20	30.50	5,011.55	-32.93	37.96	53.42	0.13	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	5,108.00	5.10	28.90	5,105.17	-39.85	45.29	57.60	0.19	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	5,203.00	4.90	28.20	5,199.81	-46.73	52.56	61.56	0.22	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	5,297.00	4.80	26.40	5,293.47	-53.43	59.63	65.20	0.19	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	5,392.00	5.10	30.30	5,388.12	-60.25	66.83	69.10	0.47	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	5,486.00	5.30	38.40	5,481.73	-66.79	73.84	73.90	0.81	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	5,581.00	5.40	38.60	5,576.32	-73.19	80.77	79.42	0.11	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	5,676.00	5.30	37.90	5,670.90	-79.62	87.73	84.90	0.13	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	5,771.00	5.50	36.50	5,765.48	-86.22	94.85	90.30	0.25	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	5,865.00	4.60	38.00	5,859.12	-92.33	101.44	95.31	0.97	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	5,960.00	3.60	39.10	5,953.87	-97.24	106.76	99.53	1.06	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	6,055.00	2.60	41.00	6,048.73	-100.86	110.70	102.83	1.06	MWD	LEAM DRILLING SYSTEMS			

Provide signature page for Survey



Directional Survey

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Surface Legal Location SEC2 T23S R31E		API/UWI 3001542897		Latitude (") 32° 20' 24.657" N		Longitude (") 103° 45' 5.145" W		Orig KB Elevation (ft) 3,455.10		Ground Elev MSL (ft) 3,430.10		KB - GL (ft) 25.00	
Survey Data													
Date	MD (ftKB)	Incl (")	Azm (")	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS ("/100ft)	Survey Tool	Survey Company			
5/11/2015	6,150.00	1.20	48.20	6,143.68	-102.94	112.99	104.98	1.49	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	6,245.00	1.20	54.40	6,238.66	-104.04	114.23	106.53	0.14	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	6,340.00	1.20	54.90	6,333.63	-105.04	115.38	108.15	0.01	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	6,435.00	0.90	86.60	6,428.62	-105.51	116.00	109.71	0.68	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	6,530.00	0.90	93.60	6,523.61	-105.37	116.00	111.20	0.12	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	6,625.00	0.80	97.60	6,618.60	-105.11	115.86	112.60	0.12	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	6,719.00	0.70	92.50	6,712.59	-104.88	115.75	113.83	0.13	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	6,814.00	0.70	102.20	6,807.58	-104.63	115.60	114.98	0.12	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	6,908.00	0.70	116.40	6,901.58	-104.16	115.22	116.05	0.18	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	7,002.00	0.70	120.70	6,995.57	-103.52	114.68	117.06	0.06	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	7,096.00	0.70	123.60	7,089.56	-102.82	114.07	118.03	0.04	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	7,191.00	0.50	131.60	7,184.56	-102.16	113.47	118.82	0.23	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	7,286.00	0.50	144.20	7,279.55	-101.50	112.86	119.38	0.12	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	7,380.00	0.40	162.30	7,373.55	-100.83	112.21	119.72	0.18	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	7,475.00	0.40	179.20	7,468.55	-100.17	111.57	119.82	0.12	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	7,570.00	0.50	179.50	7,563.54	-99.43	110.82	119.83	0.11	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	7,665.00	0.50	185.70	7,658.54	-98.61	109.99	119.79	0.06	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	7,759.00	0.50	194.80	7,752.54	-97.82	109.19	119.65	0.08	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	7,854.00	0.50	197.60	7,847.53	-97.05	108.39	119.42	0.03	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	7,948.00	0.50	200.40	7,941.53	-96.30	107.62	119.15	0.03	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	8,043.00	0.80	231.20	8,036.52	-95.56	106.81	118.49	0.47	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	8,138.00	0.90	227.70	8,131.51	-94.74	105.89	117.42	0.12	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	8,233.00	1.10	227.00	8,226.50	-93.73	104.77	116.20	0.21	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	8,327.00	1.30	217.90	8,320.48	-92.40	103.31	114.89	0.29	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	8,422.00	1.50	208.00	8,415.45	-90.58	101.37	113.64	0.33	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	8,517.00	0.70	175.00	8,510.43	-88.96	99.69	113.11	1.04	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	8,612.00	0.50	155.10	8,605.43	-87.99	98.74	113.33	0.30	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	8,707.00	0.50	247.70	8,700.43	-87.47	98.20	113.12	0.76	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	8,802.00	1.00	249.00	8,795.42	-87.13	97.75	111.97	0.53	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	8,897.00	1.30	257.20	8,890.40	-86.76	97.21	110.14	0.36	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	8,991.00	1.10	288.90	8,984.38	-86.99	97.27	108.25	0.73	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	9,086.00	1.10	268.80	9,079.36	-87.43	97.54	106.47	0.40	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	9,181.00	1.50	267.60	9,174.34	-87.55	97.47	104.32	0.42	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	9,276.00	1.10	259.70	9,269.31	-87.53	97.26	102.18	0.46	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	9,370.00	0.80	267.40	9,363.30	-87.48	97.07	100.64	0.35	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	9,465.00	0.70	262.50	9,458.29	-87.49	96.96	99.40	0.12	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	9,560.00	0.90	251.10	9,553.28	-87.29	96.64	98.12	0.27	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	9,655.00	0.80	246.30	9,648.27	-86.90	96.14	96.80	0.13	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	9,703.00	0.80	256.40	9,696.27	-86.75	95.92	96.17	0.29	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	9,754.00	0.90	243.40	9,747.26	-86.55	95.66	95.47	0.42	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	9,785.00	3.30	199.60	9,778.24	-85.65	94.71	94.95	8.78	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	9,817.00	6.50	192.40	9,810.12	-83.09	92.07	94.25	10.16	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	9,849.00	9.70	186.60	9,841.80	-78.73	87.62	93.55	10.31	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	9,880.00	13.50	188.30	9,872.16	-72.65	81.45	92.73	12.31	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	9,912.00	17.00	189.60	9,903.03	-64.49	73.14	91.41	10.99	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	9,944.00	20.30	188.20	9,933.34	-54.57	63.03	89.84	10.41	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	9,975.00	23.40	185.50	9,962.11	-43.29	51.57	88.48	10.51	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,007.00	25.70	181.70	9,991.22	-30.15	38.31	87.67	8.71	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,038.00	28.40	179.40	10,018.83	-16.13	24.22	87.54	9.34	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,070.00	31.70	177.30	10,046.52	-0.14	8.20	88.02	10.82	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,101.00	35.50	176.00	10,072.34	17.00	-8.92	89.03	12.48	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,133.00	39.60	175.50	10,097.70	36.50	-28.36	90.48	12.85	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,164.00	43.00	175.10	10,120.99	56.95	-48.75	92.16	11.00	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,196.00	46.00	175.00	10,143.81	79.38	-71.09	94.09	9.38	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,227.00	48.50	175.90	10,164.85	102.14	-93.78	95.90	8.34	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,259.00	50.70	176.90	10,185.59	126.50	-118.10	97.42	7.28	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,290.00	53.00	176.70	10,204.74	150.86	-142.44	98.78	7.44	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,322.00	55.20	176.40	10,223.50	176.76	-168.31	100.35	6.92	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,354.00	57.10	175.90	10,241.32	203.33	-194.83	102.13	6.08	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,385.00	59.70	175.10	10,257.57	229.73	-221.15	104.20	8.67	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,417.00	62.90	174.60	10,272.93	257.80	-249.10	106.73	10.09	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,448.00	66.70	174.40	10,286.13	285.84	-277.01	109.41	12.27	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,480.00	69.30	174.30	10,298.12	315.51	-306.54	112.34	8.13	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,511.00	72.10	174.80	10,308.36	344.76	-335.66	115.11	9.16	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,528.00	73.40	174.10	10,313.40	361.00	-351.82	116.68	8.60	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,560.00	76.40	174.40	10,321.74	391.89	-382.56	119.78	9.42	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,591.00	79.10	175.00	10,328.31	422.18	-412.72	122.58	8.91	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,623.00	81.50	175.90	10,333.70	453.71	-444.16	125.08	8.00	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,654.00	83.10	176.70	10,337.86	484.42	-474.81	127.06	5.76	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,686.00	84.20	176.90	10,341.40	516.21	-506.57	128.83	3.49	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,718.00	85.10	176.90	10,344.38	548.04	-538.38	130.56	2.81	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,749.00	85.60	176.70	10,346.89	578.92	-569.23	132.28	1.74	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,781.00	86.30	176.90	10,349.15	610.82	-601.10	134.06	2.27	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,813.00	88.30	176.70	10,350.66	642.76	-633.01	135.85	6.28	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,844.00	89.50	177.10	10,351.26	673.74	-663.96	137.52	4.08	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	10,907.00	89.40	177.30	10,351.86	736.68	-726.88	140.60	0.35	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	11,002.00	89.30	178.00	10,352.94	831.55	-821.80	144.50	0.74	MWD	LEAM DRILLING SYSTEMS			
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Directional Survey

Well Name: BELLOQ 2 STATE 6H

Sub-Division DELAWARE BASIN WEST		Region BASIN WEST		Field Name INGLE WELLS				County EDDY		State/Province NM			
Surface Legal Location SEC2 T23S R31E		API/UWI 3001542897		Latitude (") 32° 20' 24.657" N		Longitude (") 103° 45' 5.145" W		Orig KB Elevation (ft) 3,455.10		Ground Elev MSL (ft) 3,430.10		KB - GL (ft) 25.00	
Survey Data													
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company			
5/11/2015	11,096.00	89.60	177.80	10,353.84	925.41	-915.73	147.94	0.38	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	11,191.00	89.80	177.60	10,354.34	1,020.28	-1,010.65	151.75	0.30	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	11,286.00	90.10	177.40	10,354.42	1,115.17	-1,105.56	155.90	0.38	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	11,381.00	90.00	176.20	10,354.34	1,210.11	-1,200.41	161.20	1.27	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	11,475.00	89.30	175.10	10,354.91	1,304.09	-1,294.14	168.33	1.39	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	11,570.00	89.10	174.80	10,356.24	1,399.08	-1,388.76	176.69	0.38	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	11,665.00	87.90	174.10	10,358.73	1,494.05	-1,483.28	185.87	1.46	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	11,760.00	89.20	174.40	10,361.13	1,589.01	-1,577.77	195.39	1.40	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	11,856.00	89.70	174.10	10,362.05	1,685.00	-1,673.28	205.01	0.61	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	11,950.00	90.50	173.70	10,361.89	1,778.99	-1,766.75	215.00	0.95	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	12,045.00	91.00	173.90	10,360.64	1,873.97	-1,861.18	225.25	0.57	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	12,139.00	90.70	174.40	10,359.25	1,967.95	-1,954.68	234.83	0.62	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	12,234.00	90.00	174.80	10,358.67	2,062.95	-2,049.26	243.77	0.85	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	12,329.00	90.40	174.80	10,358.34	2,157.95	-2,143.87	252.38	0.42	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	12,424.00	90.70	174.80	10,357.43	2,252.95	-2,238.47	260.99	0.32	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	12,518.00	90.10	175.70	10,356.77	2,346.94	-2,332.14	268.78	1.15	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	12,613.00	90.10	175.00	10,356.60	2,441.93	-2,426.83	276.48	0.74	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	12,708.00	90.30	174.40	10,356.27	2,536.93	-2,521.42	285.25	0.67	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	12,803.00	90.90	174.80	10,355.28	2,631.92	-2,616.00	294.19	0.76	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	12,898.00	90.40	175.10	10,354.20	2,726.92	-2,710.62	302.56	0.61	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	12,993.00	90.00	175.70	10,353.87	2,821.91	-2,805.31	310.17	0.76	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	13,088.00	89.70	174.30	10,354.12	2,916.91	-2,899.95	318.45	1.51	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	13,183.00	90.00	174.80	10,354.37	3,011.91	-2,994.52	327.48	0.61	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	13,277.00	89.30	175.10	10,354.94	3,105.90	-3,088.15	335.75	0.81	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	13,372.00	90.40	176.00	10,355.19	3,200.89	-3,182.86	343.12	1.50	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	13,466.00	90.30	176.70	10,354.61	3,294.85	-3,276.67	349.11	0.75	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	13,560.00	89.90	176.70	10,354.45	3,388.80	-3,370.51	354.52	0.43	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	13,654.00	90.70	177.30	10,353.96	3,482.73	-3,464.38	359.44	1.06	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	13,750.00	91.40	176.20	10,352.20	3,578.65	-3,560.21	364.88	1.36	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	13,844.00	91.80	174.80	10,349.57	3,672.60	-3,653.88	372.25	1.55	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	13,939.00	91.00	174.80	10,347.25	3,767.57	-3,748.46	380.86	0.84	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	14,033.00	91.90	175.30	10,344.87	3,861.54	-3,842.08	388.97	1.10	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	14,127.00	90.80	174.60	10,342.66	3,955.51	-3,935.69	397.24	1.39	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	14,222.00	89.50	174.60	10,342.41	4,050.51	-4,030.26	406.18	1.37	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	14,316.00	89.00	175.50	10,343.64	4,144.50	-4,123.90	414.29	1.10	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	14,410.00	89.60	176.40	10,344.79	4,238.47	-4,217.66	420.93	1.15	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	14,598.00	88.60	178.00	10,347.74	4,426.27	-4,405.40	430.11	1.00	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	14,693.00	88.80	178.50	10,349.90	4,521.07	-4,500.33	433.01	0.57	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	14,787.00	88.70	179.20	10,351.95	4,614.81	-4,594.29	434.90	0.75	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	14,883.00	89.30	179.70	10,353.62	4,710.47	-4,690.27	435.82	0.81	MWD	LEAM DRILLING SYSTEMS			
5/11/2015	14,955.00	89.30	179.70	10,354.50	4,782.20	-4,762.27	436.19	0.00	BIT	LEAM DRILLING SYSTEMS			

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