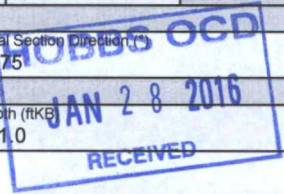




Well Name: BLACK MAMBA 15 STATE COM 9H

Sub-Division DELAWARE BASIN EAST		Region BASIN EAST		Field Name JOHNSON RANCH		County LEA		State/Province NM					
Surface Legal Location SEC10 T23S R33E		API/UWI 3002542631		Latitude (") 32° 18' 47.735" N		Longitude (") 103° 33' 14.335" W		Orig KB Elevation (ft) 3,677.30		Ground Elev MSL (ft) 3,650.30		KB - GL (ft) 27.00	
Wellbores													
Wellbore Name OH		Parent Wellbore OH				SAP Well ID 38890				Vertical Section Direction (") 175.75			
Kick Offs & Key Depths													
Date 9/27/2015				Type CURVE				Top Depth (ftKB) 10,611.0					
Actual Deviation Survey BAKER HUGHES, Proposed? No				Definitive? No		Proposed? No		Proposed Deviation Survey					



Deviation Survey												
Date 9/22/2015		Description BAKER HUGHES										
MD Tie In (ftKB)		TVD Tie In (ftKB)		Inclination Tie In (")		Azimuth Tie In (")		NSTie In (ft)		EWTie In (ft)		

Survey Data												
Date	MD (ftKB)	Incl (")	Azm (")	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS ("/100ft)	Survey Tool	Survey Company		
9/22/2015	27.00	0.00	0.00	27.00	0.00	0.00	0.00	0.00	MWD	EXTREME		
9/22/2015	206.00	0.31	173.39	206.00	0.48	-0.48	0.06	0.17	MWD	EXTREME		
9/22/2015	331.00	0.40	163.89	331.00	1.25	-1.24	0.22	0.09	MWD	EXTREME		
9/22/2015	453.00	0.48	201.78	452.99	2.12	-2.12	0.14	0.24	MWD	EXTREME		
9/22/2015	516.00	0.62	192.81	515.99	2.69	-2.70	-0.03	0.26	MWD	EXTREME		
9/22/2015	578.00	0.40	220.98	577.99	3.16	-3.19	-0.25	0.53	MWD	EXTREME		
9/22/2015	640.00	0.48	205.69	639.99	3.54	-3.59	-0.50	0.23	MWD	EXTREME		
9/22/2015	766.00	0.61	212.49	765.98	4.53	-4.63	-1.09	0.12	MWD	EXTREME		
9/22/2015	891.00	0.48	211.58	890.97	5.49	-5.63	-1.72	0.10	MWD	EXTREME		
9/22/2015	951.00	0.48	213.07	950.97	5.89	-6.06	-1.99	0.02	MWD	EXTREME		
9/22/2015	1,013.00	0.62	214.87	1,012.97	6.36	-6.55	-2.32	0.23	MWD	EXTREME		
9/22/2015	1,075.00	0.62	215.00	1,074.97	6.88	-7.10	-2.71	0.00	MWD	EXTREME		
9/22/2015	1,167.00	0.48	211.97	1,166.96	7.58	-7.84	-3.20	0.16	MWD	EXTREME		
9/22/2015	1,261.00	0.48	218.30	1,260.96	8.19	-8.48	-3.65	0.06	MWD	EXTREME		
9/22/2015	1,355.00	0.40	220.58	1,354.96	8.71	-9.04	-4.11	0.09	MWD	EXTREME		
9/22/2015	1,400.00	0.31	219.57	1,399.96	8.91	-9.25	-4.29	0.20	MWD	BAKER HUGHES INTEQ		
9/22/2015	1,553.00	0.36	174.13	1,552.95	9.69	-10.05	-4.50	0.17	MWD	BAKER HUGHES INTEQ		
9/22/2015	1,648.00	0.38	149.19	1,647.95	10.27	-10.62	-4.31	0.17	MWD	BAKER HUGHES INTEQ		
9/22/2015	1,838.00	0.53	159.42	1,837.94	11.67	-11.98	-3.68	0.09	MWD	BAKER HUGHES INTEQ		
9/22/2015	2,028.00	0.35	148.37	2,027.94	13.03	-13.30	-3.06	0.10	MWD	BAKER HUGHES INTEQ		
9/22/2015	2,123.00	0.41	155.71	2,122.94	13.61	-13.85	-2.77	0.08	MWD	BAKER HUGHES INTEQ		
9/22/2015	2,218.00	0.39	135.95	2,217.93	14.18	-14.39	-2.41	0.15	MWD	BAKER HUGHES INTEQ		
9/22/2015	2,313.00	0.57	115.03	2,312.93	14.66	-14.83	-1.75	0.26	MWD	BAKER HUGHES INTEQ		
9/22/2015	2,408.00	1.06	95.48	2,407.92	15.04	-15.11	-0.45	0.59	MWD	BAKER HUGHES INTEQ		
9/22/2015	2,503.00	1.70	91.10	2,502.89	15.32	-15.22	1.83	0.68	MWD	BAKER HUGHES INTEQ		
9/22/2015	2,598.00	2.34	89.77	2,597.83	15.58	-15.24	5.18	0.68	MWD	BAKER HUGHES INTEQ		
9/22/2015	2,693.00	2.99	85.30	2,692.73	15.70	-15.03	9.59	0.72	MWD	BAKER HUGHES INTEQ		
9/22/2015	2,788.00	3.35	82.16	2,787.59	15.51	-14.45	14.81	0.42	MWD	BAKER HUGHES INTEQ		
9/22/2015	2,883.00	3.46	79.78	2,882.42	15.03	-13.56	20.38	0.19	MWD	BAKER HUGHES INTEQ		
9/22/2015	2,978.00	3.14	78.04	2,977.26	14.39	-12.51	25.75	0.35	MWD	BAKER HUGHES INTEQ		
9/22/2015	3,073.00	3.05	76.82	3,072.12	13.65	-11.40	30.75	0.12	MWD	BAKER HUGHES INTEQ		
9/22/2015	3,168.00	3.08	75.41	3,166.99	12.80	-10.18	35.68	0.09	MWD	BAKER HUGHES INTEQ		
9/22/2015	3,263.00	3.23	73.51	3,261.84	11.77	-8.78	40.72	0.19	MWD	BAKER HUGHES INTEQ		
9/22/2015	3,358.00	3.03	72.49	3,356.70	10.63	-7.26	45.68	0.22	MWD	BAKER HUGHES INTEQ		
9/22/2015	3,453.00	3.10	70.11	3,451.56	9.36	-5.63	50.49	0.15	MWD	BAKER HUGHES INTEQ		
9/22/2015	3,548.00	3.15	73.34	3,546.42	8.10	-4.01	55.41	0.19	MWD	BAKER HUGHES INTEQ		
9/22/2015	3,643.00	3.26	75.57	3,641.27	7.07	-2.59	60.52	0.17	MWD	BAKER HUGHES INTEQ		
9/22/2015	3,738.00	3.23	73.11	3,736.12	6.00	-1.14	65.70	0.15	MWD	BAKER HUGHES INTEQ		
9/22/2015	3,833.00	3.06	76.68	3,830.98	5.02	0.22	70.73	0.27	MWD	BAKER HUGHES INTEQ		
9/22/2015	3,928.00	3.16	74.68	3,925.84	4.12	1.50	75.72	0.16	MWD	BAKER HUGHES INTEQ		
9/22/2015	4,023.00	3.36	78.01	4,020.69	3.24	2.77	80.97	0.29	MWD	BAKER HUGHES INTEQ		
9/22/2015	4,118.00	3.59	87.88	4,115.51	2.97	3.46	86.66	0.67	MWD	BAKER HUGHES INTEQ		
9/22/2015	4,213.00	3.78	90.35	4,210.32	3.34	3.55	92.77	0.26	MWD	BAKER HUGHES INTEQ		
9/22/2015	4,308.00	3.68	92.44	4,305.11	3.94	3.40	98.95	0.18	MWD	BAKER HUGHES INTEQ		
9/22/2015	4,403.00	3.48	95.15	4,399.93	4.77	3.01	104.86	0.28	MWD	BAKER HUGHES INTEQ		
9/22/2015	4,498.00	3.52	100.97	4,494.75	6.00	2.20	110.60	0.38	MWD	BAKER HUGHES INTEQ		
9/22/2015	4,593.00	3.60	100.63	4,589.57	7.54	1.09	116.39	0.09	MWD	BAKER HUGHES INTEQ		
9/22/2015	4,688.00	3.73	98.63	4,684.37	8.99	0.08	122.38	0.19	MWD	BAKER HUGHES INTEQ		
9/22/2015	4,783.00	3.80	95.43	4,779.17	10.21	-0.68	128.57	0.23	MWD	BAKER HUGHES INTEQ		
9/22/2015	4,878.00	3.94	94.94	4,873.95	11.26	-1.26	134.95	0.15	MWD	BAKER HUGHES INTEQ		
9/22/2015	4,973.00	3.79	96.84	4,968.74	12.38	-1.92	141.32	0.21	MWD	BAKER HUGHES INTEQ		
9/22/2015	5,050.00	3.62	95.35	5,045.58	13.28	-2.45	146.27	0.25	MWD	BAKER HUGHES INTEQ		
9/22/2015	5,160.00	3.31	99.23	5,155.37	14.60	-3.28	152.86	0.35	MWD	BAKER HUGHES INTEQ		
9/22/2015	5,254.00	3.09	103.23	5,249.23	15.99	-4.29	158.01	0.33	MWD	BAKER HUGHES INTEQ		
9/22/2015	5,349.00	3.15	99.47	5,344.09	17.38	-5.31	163.07	0.22	MWD	BAKER HUGHES INTEQ		
9/22/2015	5,444.00	3.13	101.72	5,438.94	18.71	-6.27	168.19	0.13	MWD	BAKER HUGHES INTEQ		
9/22/2015	5,634.00	3.18	96.54	5,628.66	21.13	-7.92	178.50	0.15	MWD	BAKER HUGHES INTEQ		
9/22/2015	5,824.00	3.02	94.29	5,818.38	22.86	-8.89	188.73	0.11	MWD	BAKER HUGHES INTEQ		
9/22/2015	6,014.00	2.73	91.13	6,008.14	24.02	-9.36	198.24	0.17	MWD	BAKER HUGHES INTEQ		
9/22/2015	6,109.00	2.64	87.64	6,103.04	24.31	-9.31	202.69	0.20	MWD	BAKER HUGHES INTEQ		
9/22/2015	6,204.00	2.93	81.17	6,197.92	24.19	-8.85	207.28	0.45	MWD	BAKER HUGHES INTEQ		
9/22/2015	6,394.00	3.57	86.75	6,387.62	23.90	-7.77	217.98	0.38	MWD	BAKER HUGHES INTEQ		
9/22/2015	6,583.00	3.69	81.44	6,576.24	23.55	-6.53	229.87	0.19	MWD	BAKER HUGHES INTEQ		
9/22/2015	6,773.00	4.27	75.93	6,765.78	21.88	-3.90	242.78	0.37	MWD	BAKER HUGHES INTEQ		
9/22/2015	6,963.00	3.70	87.75	6,955.32	20.89	-1.94	255.76	0.52	MWD	BAKER HUGHES INTEQ		
9/22/2015	7,153.00	3.51	89.35	7,144.95	21.47	-1.63	267.71	0.11	MWD	BAKER HUGHES INTEQ		



Well Name: BLACK MAMBA 15 STATE COM 9H

Sub-Division DELAWARE BASIN EAST		Region BASIN EAST		Field Name JOHNSON RANCH		County LEA		State/Province NM	
Surface Legal Location SEC10 T23S R33E		API/UWI 3002542631	Latitude (") 32° 18' 47.735" N	Longitude (") 103° 33' 14.335" W	Orig KB Elevation (ft) 3,677.30	Ground Elev MSL (ft) 3,650.30	KB - GL (ft) 27.00		

Survey Data											
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company	
9/22/2015	7,343.00	3.30	92.09	7,334.61	22.44	-1.77	278.99	0.14	MWD	BAKER HUGHES INTEQ	
9/22/2015	7,532.00	3.14	96.36	7,523.31	23.99	-2.54	289.57	0.15	MWD	BAKER HUGHES INTEQ	
9/22/2015	7,722.00	3.14	99.43	7,713.03	26.18	-3.97	299.87	0.09	MWD	BAKER HUGHES INTEQ	
9/22/2015	7,912.00	3.11	106.55	7,902.75	29.24	-6.29	309.95	0.20	MWD	BAKER HUGHES INTEQ	
9/22/2015	8,007.00	2.98	106.35	7,997.61	31.02	-7.72	314.79	0.14	MWD	BAKER HUGHES INTEQ	
9/22/2015	8,103.00	2.56	99.19	8,093.50	32.40	-8.76	319.30	0.57	MWD	BAKER HUGHES INTEQ	
9/22/2015	8,293.00	1.93	101.12	8,283.35	34.24	-10.06	326.63	0.33	MWD	BAKER HUGHES INTEQ	
9/22/2015	8,483.00	1.57	110.84	8,473.27	36.19	-11.60	332.20	0.24	MWD	BAKER HUGHES INTEQ	
9/22/2015	8,673.00	0.95	134.90	8,663.22	38.48	-13.64	335.75	0.42	MWD	BAKER HUGHES INTEQ	
9/24/2015	8,863.00	0.44	154.99	8,853.21	40.36	-15.41	337.17	0.29	MWD	BAKER HUGHES INTEQ	
9/24/2015	9,053.00	0.41	180.91	9,043.20	41.72	-16.75	337.47	0.10	MWD	BAKER HUGHES INTEQ	
9/24/2015	9,148.00	0.60	219.33	9,138.20	42.41	-17.48	337.15	0.40	MWD	BAKER HUGHES INTEQ	
9/24/2015	9,243.00	0.85	253.49	9,233.19	42.92	-18.06	336.16	0.51	MWD	BAKER HUGHES INTEQ	
9/25/2015	9,338.00	1.05	238.36	9,328.18	43.47	-18.72	334.74	0.34	MWD	BAKER HUGHES INTEQ	
9/25/2015	9,433.00	1.27	273.08	9,423.16	43.74	-19.12	332.95	0.76	MWD	BAKER HUGHES INTEQ	
9/25/2015	9,528.00	1.51	272.83	9,518.13	43.45	-19.00	330.65	0.25	MWD	BAKER HUGHES INTEQ	
9/25/2015	9,623.00	1.50	264.63	9,613.10	43.32	-19.05	328.16	0.23	MWD	BAKER HUGHES INTEQ	
9/25/2015	9,814.00	2.31	245.01	9,803.99	44.73	-20.91	322.18	0.54	MWD	BAKER HUGHES INTEQ	
9/25/2015	10,004.00	2.32	238.64	9,993.84	47.84	-24.53	315.43	0.14	MWD	BAKER HUGHES INTEQ	
9/25/2015	10,193.00	2.51	237.68	10,182.67	51.53	-28.74	308.66	0.10	MWD	BAKER HUGHES INTEQ	
9/25/2015	10,383.00	2.21	251.71	10,372.51	54.38	-32.11	301.67	0.34	MWD	BAKER HUGHES INTEQ	
9/25/2015	10,554.00	2.07	245.02	10,543.39	56.27	-34.45	295.74	0.17	MWD	BAKER HUGHES INTEQ	
9/25/2015	10,603.00	1.95	232.77	10,592.36	57.04	-35.33	294.27	0.91	MWD	BAKER HUGHES INTEQ	
9/25/2015	10,635.00	2.90	204.81	10,624.33	58.04	-36.39	293.50	4.66	MWD	BAKER HUGHES INTEQ	
9/28/2015	10,666.00	6.63	185.08	10,655.22	60.50	-38.89	293.01	12.97	MWD	BAKER HUGHES INTEQ	
9/28/2015	10,698.00	10.89	182.66	10,686.84	65.32	-43.75	292.71	13.36	MWD	BAKER HUGHES INTEQ	
9/28/2015	10,729.00	14.36	182.44	10,717.09	72.05	-50.52	292.41	11.19	MWD	BAKER HUGHES INTEQ	
9/28/2015	10,761.00	17.19	183.60	10,747.88	80.68	-59.20	291.94	8.90	MWD	BAKER HUGHES INTEQ	
9/28/2015	10,793.00	19.35	182.99	10,778.26	90.62	-69.22	291.37	6.78	MWD	BAKER HUGHES INTEQ	
9/28/2015	10,841.00	22.69	181.26	10,823.06	107.73	-86.42	290.75	7.08	MWD	BAKER HUGHES INTEQ	
9/28/2015	10,888.00	27.40	178.83	10,865.63	127.56	-106.31	290.77	10.26	MWD	BAKER HUGHES INTEQ	
9/28/2015	10,936.00	30.62	178.49	10,907.61	150.81	-129.58	291.32	6.72	MWD	BAKER HUGHES INTEQ	
9/28/2015	10,982.00	35.06	178.94	10,946.25	175.71	-154.51	291.87	9.67	MWD	BAKER HUGHES INTEQ	
9/28/2015	11,030.00	39.34	179.74	10,984.47	204.67	-183.52	292.20	8.97	MWD	BAKER HUGHES INTEQ	
9/28/2015	11,077.00	45.00	179.47	11,019.29	236.14	-215.06	292.42	12.05	MWD	BAKER HUGHES INTEQ	
9/28/2015	11,125.00	48.50	179.01	11,052.17	271.03	-250.01	292.88	7.32	MWD	BAKER HUGHES INTEQ	
9/29/2015	11,172.00	52.91	178.35	11,081.93	307.35	-286.37	293.73	9.45	MWD	BAKER HUGHES INTEQ	
9/29/2015	11,219.00	56.49	178.06	11,109.09	345.66	-324.70	294.93	7.63	MWD	BAKER HUGHES INTEQ	
9/29/2015	11,267.00	60.71	178.03	11,134.09	386.59	-365.64	296.33	8.79	MWD	BAKER HUGHES INTEQ	
9/29/2015	11,315.00	65.07	178.83	11,155.96	429.26	-408.34	297.49	9.20	MWD	BAKER HUGHES INTEQ	
9/29/2015	11,362.00	69.50	180.07	11,174.10	472.51	-451.68	297.90	9.73	MWD	BAKER HUGHES INTEQ	
9/29/2015	11,410.00	72.77	180.90	11,189.62	517.77	-497.09	297.52	7.01	MWD	BAKER HUGHES INTEQ	
9/29/2015	11,457.00	76.98	181.03	11,201.88	562.95	-542.45	296.75	8.96	MWD	BAKER HUGHES INTEQ	
9/29/2015	11,504.00	81.19	179.95	11,210.78	608.93	-588.58	296.36	9.24	MWD	BAKER HUGHES INTEQ	
9/29/2015	11,552.00	86.86	179.34	11,215.78	656.54	-636.30	296.66	11.88	MWD	BAKER HUGHES INTEQ	
9/29/2015	11,647.00	90.83	181.42	11,217.69	751.18	-731.26	296.03	4.72	MWD	BAKER HUGHES INTEQ	
9/29/2015	11,742.00	90.74	182.13	11,216.39	845.65	-826.20	293.08	0.75	MWD	BAKER HUGHES INTEQ	
9/29/2015	11,837.00	90.68	180.91	11,215.21	940.16	-921.16	290.56	1.29	MWD	BAKER HUGHES INTEQ	
9/29/2015	12,027.00	91.23	177.71	11,212.04	1,129.74	-1,111.09	292.85	1.71	MWD	BAKER HUGHES INTEQ	
9/29/2015	12,122.00	91.14	179.59	11,210.08	1,224.59	-1,206.04	295.09	1.98	MWD	BAKER HUGHES INTEQ	
9/29/2015	12,217.00	91.20	182.18	11,208.14	1,319.18	-1,301.00	293.62	2.73	MWD	BAKER HUGHES INTEQ	
9/29/2015	12,311.00	91.14	182.74	11,206.22	1,412.52	-1,394.90	289.59	0.60	MWD	BAKER HUGHES INTEQ	
9/29/2015	12,406.00	91.26	175.38	11,204.23	1,507.28	-1,489.80	291.14	7.75	MWD	BAKER HUGHES INTEQ	
9/29/2015	12,596.00	91.02	175.61	11,200.45	1,697.24	-1,679.17	306.07	0.17	MWD	BAKER HUGHES INTEQ	
9/29/2015	12,691.00	91.14	178.68	11,198.66	1,792.18	-1,774.03	310.80	3.23	MWD	BAKER HUGHES INTEQ	
9/29/2015	12,786.00	90.86	178.23	11,197.00	1,887.06	-1,868.98	313.36	0.56	MWD	BAKER HUGHES INTEQ	
9/29/2015	12,881.00	90.46	177.28	11,195.90	1,981.99	-1,963.90	317.08	1.08	MWD	BAKER HUGHES INTEQ	
9/29/2015	12,976.00	90.80	177.81	11,194.86	2,076.94	-2,058.80	321.15	0.66	MWD	BAKER HUGHES INTEQ	
9/29/2015	13,071.00	90.89	178.93	11,193.46	2,171.83	-2,153.75	323.85	1.18	MWD	BAKER HUGHES INTEQ	
9/29/2015	13,165.00	90.92	179.12	11,191.97	2,265.66	-2,247.73	325.45	0.20	MWD	BAKER HUGHES INTEQ	
9/29/2015	13,260.00	90.89	179.43	11,190.47	2,360.47	-2,342.71	326.65	0.33	MWD	BAKER HUGHES INTEQ	
9/29/2015	13,355.00	91.05	179.20	11,188.87	2,455.28	-2,437.69	327.79	0.29	MWD	BAKER HUGHES INTEQ	
9/29/2015	13,545.00	91.14	178.82	11,185.23	2,644.93	-2,627.62	331.07	0.21	MWD	BAKER HUGHES INTEQ	
9/29/2015	13,640.00	90.95	178.80	11,183.50	2,739.78	-2,722.59	333.04	0.20	MWD	BAKER HUGHES INTEQ	
9/29/2015	13,735.00	91.20	178.25	11,181.72	2,834.65	-2,817.54	335.49	0.64	MWD	BAKER HUGHES INTEQ	
9/29/2015	13,831.00	91.11	176.92	11,179.78	2,930.58	-2,913.43	339.53	1.39	MWD	BAKER HUGHES INTEQ	
9/29/2015	13,926.00	91.11	176.47	11,177.94	3,025.55	-3,008.26	345.01	0.47	MWD	BAKER HUGHES INTEQ	
9/29/2015	14,021.00	91.05	176.97	11,176.15	3,120.52	-3,103.08	350.44	0.53	MWD	BAKER HUGHES INTEQ	
9/29/2015	14,116.00	91.20	175.59	11,174.29	3,215.50	-3,197.86	356.60	1.46	MWD	BAKER HUGHES INTEQ	
9/29/2015	14,211.00	91.17	178.49	11,172.32	3,310.44	-3,292.71	361.51	3.05	MWD	BAKER HUGHES INTEQ	
9/29/2015	14,306.00	90.96	178.14	11,170.56	3,405.33	-3,387.65	364.30	0.43	MWD	BAKER HUGHES INTEQ	
9/29/2015	14,401.00	90.86	179.50	11,169.05	3,500.18	-3,482.61	366.26	1.44	MWD	BAKER HUGHES INTEQ	
9/29/2015	14,496.00	90.80	182.24	11,167.67	3,594.78	-3,577.58	364.81	2.88	MWD	BAKER HUGHES INTEQ	
9/29/2015	14,591.00	90.77	182.48	11,166.37	3,689.14	-3,672.49	360.90	0.25	MWD	BAKER HUGHES INTEQ	
9/29/2015	14,686.00	90.89	182.40	11,164.99	3,783.48	-3,767.40	356.86	0.15	MWD	BAKER HUGHES INTEQ	
9/29/2015	14,781.00	90.99	181.13	11,163.44	3,877.95	-3,862.34	353.93	1.34	MWD	BAKER HUGHES INTEQ	
9/29/2015	14,876.00	91.20	179.68	11,161.62	3,972.61	-3,957.32	353.26	1.54	MWD	BAKER HUGHES INTEQ	



Sub-Division	Region	Field Name			County	State/Province				
DELAWARE BASIN EAST	BASIN EAST	JOHNSON RANCH			LEA	NM				
Surface Legal Location	API/UWI	Latitude (°)	Longitude (°)	Orig KB Elevation (ft)	Ground Elev MSL (ft)	KB - GL (ft)				
SEC10 T23S R33E	3002542631	32° 18' 47.735" N	103° 33' 14.335" W	3,677.30	3,650.30	27.00				
Survey Data										
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
9/29/2015	14,971.00	91.02	178.99	11,159.78	4,067.41	-4,052.29	354.36	0.75	MWD	BAKER HUGHES INTEQ
9/29/2015	15,066.00	91.11	177.57	11,158.01	4,162.30	-4,147.23	357.21	1.50	MWD	BAKER HUGHES INTEQ
9/29/2015	15,161.00	91.02	177.30	11,156.25	4,257.24	-4,242.12	361.46	0.30	MWD	BAKER HUGHES INTEQ
9/29/2015	15,324.00	91.29	176.47	11,152.96	4,420.17	-4,404.84	370.32	0.54	MWD	BAKER HUGHES INTEQ
9/29/2015	15,419.00	91.14	176.77	11,150.95	4,515.14	-4,499.65	375.92	0.35	MWD	BAKER HUGHES INTEQ
9/29/2015	15,514.00	91.30	177.79	11,148.93	4,610.08	-4,594.53	380.43	1.09	MWD	BAKER HUGHES INTEQ
9/29/2015	15,609.00	90.22	178.37	11,147.67	4,705.00	-4,689.46	383.61	1.29	MWD	BAKER HUGHES INTEQ
9/29/2015	15,799.00	89.69	179.63	11,147.81	4,894.69	-4,879.43	386.93	0.72	MWD	BAKER HUGHES INTEQ
9/29/2015	15,989.00	90.37	179.88	11,147.71	5,084.22	-5,069.43	387.74	0.38	MWD	BAKER HUGHES INTEQ
9/29/2015	16,083.00	90.77	180.32	11,146.78	5,177.94	-5,163.42	387.57	0.63	MWD	BAKER HUGHES INTEQ
9/29/2015	16,178.00	90.74	180.24	11,145.53	5,272.64	-5,258.41	387.11	0.09	MWD	BAKER HUGHES INTEQ
9/29/2015	16,280.00	90.83	180.73	11,144.13	5,374.28	-5,360.40	386.25	0.49	MWD	BAKER HUGHES INTEQ
9/29/2015	16,340.00	90.83	180.73	11,143.26	5,434.05	-5,420.39	385.48	0.00	BIT	BAKER HUGHES INTEQ

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