



BURTON FLAT DEEP UNIT 58H

WEST UNRESTRICTED

Directional Survey

District	County	Field Name	Project Group	State/Province			
PERMIAN BASIN	EDDY	BURTON FLAT	DELAWARE BASIN	NM			
Surface Legal Location	API/UWI	Latitude (°)	Longitude (°)	Ground Elev...	KB - GL (ft)	Orig KB Elev (ft)	Tubing Head Elevation (ft)
SEC2 T21S R27E	3001541057	32° 30' 22.298" N	104° 10' 7.606" W	3,214.40	25.00	3,239.40	

Wellbores			
Wellbore Name	Parent Wellbore	Kick Off Depth (ftKB)	Vertical Section Direction (°)
OH	OH		0.00

Actual Deviation Survey	Definitive?	Proposed?	Proposed Deviation Survey
MWD, Proposed? No	No	No	

Deviation Survey						
Date		Description				
11/17/2013		MWD				
MD Tie In (ftKB)	TVD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NSTie In (ft)	EWTie In (ft)	
2744.00	0.00	0.57	276.30	-2.68	-41.91	

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
11/17/2...	0.00	0.00	0.00	0.00	-2.68	-2.68	-41.91		GYRO	VAUHG N ENERGY SERVICES
11/17/2...	100.00	0.17	302.51	100.00	-2.60	-2.60	-42.04	0.17	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	200.00	0.99	247.08	199.99	-2.86	-2.86	-42.96	0.90	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	300.00	1.10	243.52	299.98	-3.62	-3.62	-44.61	0.13	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	400.00	1.19	253.19	399.96	-4.35	-4.35	-46.46	0.21	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	500.00	1.23	243.32	499.94	-5.13	-5.13	-48.42	0.21	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	600.00	1.68	229.04	599.90	-6.57	-6.57	-50.48	0.57	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	700.00	1.28	229.59	699.87	-8.26	-8.26	-52.44	0.40	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	800.00	1.12	227.46	799.85	-9.64	-9.64	-54.01	0.17	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	900.00	1.36	241.52	899.82	-10.87	-10.87	-55.77	0.39	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	1,000.00	1.27	266.46	999.80	-11.51	-11.51	-57.92	0.57	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	1,100.00	1.52	283.24	1,099.77	-11.27	-11.27	-60.32	0.48	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	1,200.00	1.43	281.60	1,199.74	-10.72	-10.72	-62.83	0.10	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	1,300.00	1.45	283.98	1,299.71	-10.16	-10.16	-65.28	0.06	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	1,400.00	1.44	290.90	1,399.67	-9.41	-9.41	-67.69	0.17	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	1,500.00	1.12	295.24	1,499.65	-8.54	-8.54	-69.74	0.33	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	1,600.00	0.87	289.75	1,599.63	-7.87	-7.87	-71.34	0.27	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	1,700.00	0.72	276.06	1,699.62	-7.54	-7.54	-72.68	0.24	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	1,800.00	0.97	285.78	1,799.61	-7.25	-7.25	-74.12	0.29	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	1,900.00	0.74	287.82	1,899.60	-6.82	-6.82	-75.55	0.23	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	2,000.00	0.74	281.70	1,999.59	-6.49	-6.49	-76.80	0.08	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	2,100.00	0.78	261.75	2,099.58	-6.46	-6.46	-78.10	0.27	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	2,200.00	0.57	254.05	2,199.58	-6.69	-6.69	-79.25	0.23	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	2,300.00	0.51	265.55	2,299.57	-6.86	-6.86	-80.18	0.12	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	2,400.00	0.60	289.66	2,399.57	-6.72	-6.72	-81.11	0.25	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	2,500.00	0.62	297.93	2,499.56	-6.29	-6.29	-82.08	0.09	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	2,600.00	0.40	303.58	2,599.56	-5.85	-5.85	-82.85	0.23	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	2,700.00	0.42	302.01	2,699.56	-5.46	-5.46	-83.46	0.02	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	2,744.00	0.57	276.30	2,743.55	-5.35	-5.35	-83.81	0.60	GYRO	VAUHG N ENERGY SERVICES
11/17/2...	2,819.00	0.53	279.55	2,818.55	-5.25	-5.25	-84.52	0.07	MWD	LEAM DRILLING SYSTEMS
11/17/2...	2,913.00	3.52	266.90	2,912.48	-5.33	-5.33	-87.83	3.20	MWD	LEAM DRILLING SYSTEMS
11/17/2...	3,008.00	3.61	265.14	3,007.30	-5.75	-5.75	-93.73	0.15	MWD	LEAM DRILLING SYSTEMS
11/17/2...	3,103.00	3.96	241.23	3,102.10	-7.58	-7.58	-99.58	1.69	MWD	LEAM DRILLING SYSTEMS
11/17/2...	3,197.00	3.87	211.35	3,195.89	-11.85	-11.85	-104.08	2.15	MWD	LEAM DRILLING SYSTEMS
11/17/2...	3,292.00	4.22	187.80	3,290.66	-18.05	-18.05	-106.22	1.77	MWD	LEAM DRILLING SYSTEMS
11/17/2...	3,387.00	4.04	164.42	3,385.42	-24.74	-24.74	-105.80	1.77	MWD	LEAM DRILLING SYSTEMS
11/17/2...	3,482.00	3.96	163.20	3,480.19	-31.10	-31.10	-103.95	0.12	MWD	LEAM DRILLING SYSTEMS
11/17/2...	3,576.00	3.78	164.42	3,573.97	-37.19	-37.19	-102.18	0.21	MWD	LEAM DRILLING SYSTEMS
11/17/2...	3,671.00	3.61	165.82	3,668.77	-43.11	-43.11	-100.60	0.20	MWD	LEAM DRILLING SYSTEMS
11/17/2...	3,766.00	3.43	162.48	3,763.59	-48.72	-48.72	-99.02	0.29	MWD	LEAM DRILLING SYSTEMS
11/17/2...	3,861.00	3.43	162.31	3,858.42	-54.14	-54.14	-97.30	0.01	MWD	LEAM DRILLING SYSTEMS
11/17/2...	3,956.00	3.25	165.12	3,953.26	-59.45	-59.45	-95.74	0.26	MWD	LEAM DRILLING SYSTEMS
11/17/2...	4,145.00	3.17	161.96	4,141.97	-69.59	-69.59	-92.75	0.10	MWD	LEAM DRILLING SYSTEMS
11/17/2...	4,240.00	2.90	163.54	4,236.83	-74.40	-74.40	-91.25	0.30	MWD	LEAM DRILLING SYSTEMS
11/17/2...	4,334.00	2.81	165.47	4,330.72	-78.91	-78.91	-90.00	0.14	MWD	LEAM DRILLING SYSTEMS
11/17/2...	4,429.00	2.61	163.36	4,425.61	-83.23	-83.23	-88.80	0.24	MWD	LEAM DRILLING SYSTEMS
11/17/2...	4,523.00	2.64	165.30	4,519.51	-87.38	-87.38	-87.64	0.10	MWD	LEAM DRILLING SYSTEMS



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District PERMIAN BASIN	County EDDY	Field Name BURTON FLAT	Project Group DELAWARE BASIN	State/Province NM
Surface Legal Location SEC2 T21S R27E	API/UWI 3001541057	Latitude (") 32° 30' 22.298" N	Longitude (") 104° 10' 7.606" W	Ground Elev... 3,214.40
				KB - GL (ft) 25.00
				Orig KB Elev (ft) 3,239.40
				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
11/17/2...	4,617.00	2.55	167.58	4,613.42	-91.51	-91.51	-86.64	0.15	MWD	LEAM DRILLING SYSTEMS
11/17/2...	4,712.00	2.46	165.82	4,708.32	-95.55	-95.55	-85.68	0.12	MWD	LEAM DRILLING SYSTEMS
11/17/2...	4,807.00	0.79	163.54	4,803.28	-98.16	-98.16	-85.00	1.76	MWD	LEAM DRILLING SYSTEMS
11/17/2...	4,902.00	0.53	146.66	4,898.28	-99.15	-99.15	-84.57	0.34	MWD	LEAM DRILLING SYSTEMS
11/17/2...	4,996.00	0.53	167.41	4,992.27	-99.94	-99.94	-84.24	0.20	MWD	LEAM DRILLING SYSTEMS
11/17/2...	5,090.00	0.79	193.42	5,086.27	-101.00	-101.00	-84.29	0.42	MWD	LEAM DRILLING SYSTEMS
11/17/2...	5,185.00	0.70	214.69	5,181.26	-102.11	-102.11	-84.77	0.30	MWD	LEAM DRILLING SYSTEMS
11/17/2...	5,280.00	0.79	214.16	5,276.25	-103.13	-103.13	-85.47	0.10	MWD	LEAM DRILLING SYSTEMS
11/17/2...	5,374.00	1.32	227.70	5,370.23	-104.40	-104.40	-86.64	0.62	MWD	LEAM DRILLING SYSTEMS
11/17/2...	5,468.00	1.67	232.27	5,464.20	-105.96	-105.96	-88.52	0.39	MWD	LEAM DRILLING SYSTEMS
11/17/2...	5,562.00	1.67	225.76	5,558.16	-107.76	-107.76	-90.59	0.20	MWD	LEAM DRILLING SYSTEMS
11/17/2...	5,657.00	1.67	231.04	5,653.12	-109.59	-109.59	-92.65	0.16	MWD	LEAM DRILLING SYSTEMS
11/17/2...	5,752.00	2.20	236.66	5,748.07	-111.46	-111.46	-95.25	0.59	MWD	LEAM DRILLING SYSTEMS
11/17/2...	5,846.00	0.44	239.65	5,842.04	-112.64	-112.64	-97.07	1.87	MWD	LEAM DRILLING SYSTEMS
11/17/2...	5,940.00	0.26	223.48	5,936.04	-112.98	-112.98	-97.53	0.22	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,004.00	0.35	193.60	6,000.04	-113.27	-113.27	-97.68	0.28	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,062.00	0.97	221.02	6,058.03	-113.81	-113.81	-98.04	1.17	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,093.00	5.72	226.47	6,088.97	-115.08	-115.08	-99.33	15.34	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,125.00	10.82	224.18	6,120.63	-118.33	-118.33	-102.59	15.97	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,156.00	15.56	221.02	6,150.80	-123.56	-123.56	-107.34	15.46	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,188.00	20.58	219.96	6,181.21	-131.11	-131.11	-113.78	15.72	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,219.00	24.53	219.44	6,209.84	-140.26	-140.26	-121.37	12.76	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,251.00	27.70	219.61	6,238.57	-151.12	-151.12	-130.33	9.91	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,282.00	30.07	219.08	6,265.71	-162.71	-162.71	-139.82	7.69	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,314.00	32.45	218.73	6,293.06	-175.63	-175.63	-150.25	7.46	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,345.00	35.09	218.38	6,318.83	-189.10	-189.10	-160.99	8.54	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,377.00	38.51	218.73	6,344.45	-204.09	-204.09	-172.93	10.71	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,408.00	42.38	218.56	6,368.03	-219.79	-219.79	-185.49	12.49	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,440.00	45.73	218.73	6,391.03	-237.17	-237.17	-199.38	10.48	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,472.00	48.54	218.21	6,412.80	-255.53	-255.53	-213.97	8.86	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,503.00	51.00	216.45	6,432.82	-274.35	-274.35	-228.32	9.04	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,535.00	53.64	215.22	6,452.38	-294.89	-294.89	-243.14	8.79	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,566.00	56.89	214.69	6,470.04	-315.76	-315.76	-257.73	10.58	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,597.00	60.41	214.51	6,486.16	-337.55	-337.55	-272.76	11.37	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,629.00	63.05	215.74	6,501.32	-360.60	-360.60	-288.98	8.92	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,660.00	64.81	216.62	6,514.94	-383.07	-383.07	-305.42	6.22	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,692.00	66.57	218.38	6,528.11	-406.20	-406.20	-323.17	7.44	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,723.00	67.97	220.14	6,540.09	-428.34	-428.34	-341.26	6.91	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,754.00	70.08	221.02	6,551.19	-450.32	-450.32	-360.09	7.30	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,786.00	73.51	221.19	6,561.19	-473.22	-473.22	-380.08	10.73	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,817.00	77.82	220.67	6,568.86	-495.91	-495.91	-399.75	14.00	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,849.00	82.48	220.49	6,574.33	-519.85	-519.85	-420.25	14.57	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,880.00	86.00	220.49	6,577.44	-543.30	-543.30	-440.28	11.35	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,912.00	88.64	220.32	6,578.94	-567.64	-567.64	-460.99	8.27	MWD	LEAM DRILLING SYSTEMS
11/17/2...	6,944.00	90.31	220.32	6,579.23	-592.04	-592.04	-481.70	5.22	MWD	LEAM DRILLING SYSTEMS
11/17/2...	7,007.00	95.85	222.78	6,575.85	-639.10	-639.10	-523.40	9.62	MWD	LEAM DRILLING SYSTEMS
11/17/2...	7,102.00	97.78	227.52	6,564.57	-705.61	-705.61	-590.25	5.35	MWD	LEAM DRILLING SYSTEMS
11/17/2...	7,197.00	96.11	231.57	6,553.08	-766.78	-766.78	-661.99	4.58	MWD	LEAM DRILLING SYSTEMS
11/17/2...	7,292.00	92.95	234.73	6,545.57	-823.55	-823.55	-737.76	4.70	MWD	LEAM DRILLING SYSTEMS
11/17/2...	7,312.00	92.86	235.08	6,544.56	-835.04	-835.04	-754.10	1.80	MWD	LEAM DRILLING SYSTEMS
11/17/2...	7,406.00	91.63	237.19	6,540.88	-887.37	-887.37	-832.09	2.60	MWD	LEAM DRILLING SYSTEMS
11/17/2...	7,501.00	90.22	240.00	6,539.34	-936.86	-936.86	-913.15	3.31	MWD	LEAM DRILLING SYSTEMS
11/17/2...	7,595.00	89.43	243.34	6,539.63	-981.46	-981.46	-995.88	3.65	MWD	LEAM DRILLING SYSTEMS
11/17/2...	7,690.00	89.43	248.26	6,540.58	-1,020.39	-1,020.39	-1,082.50	5.18	MWD	LEAM DRILLING SYSTEMS
11/17/2...	7,785.00	89.78	252.66	6,541.23	-1,052.16	-1,052.16	-1,172.00	4.65	MWD	LEAM DRILLING SYSTEMS



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Directional Survey

District PERMIAN BASIN	County EDDY	Field Name BURTON FLAT	Project Group DELAWARE BASIN	State/Province NM
Surface Legal Location SEC2 T21S R27E	API/UWI 3001541057	Latitude (°) 32° 30' 22.298" N	Longitude (°) 104° 10' 7.606" W	Ground Elev... 3,214.40
			KB - GL (ft) 25.00	Orig KB Elev (ft) 3,239.40
				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
11/17/2...	7,879.00	90.13	256.35	6,541.30	-1,077.26	-1,077.26	-1,262.57	3.94	MWD	LEAM DRILLING SYSTEMS
11/17/2...	7,973.00	92.33	261.62	6,539.29	-1,095.22	-1,095.22	-1,354.78	6.07	MWD	LEAM DRILLING SYSTEMS
11/17/2...	8,068.00	93.47	266.90	6,534.48	-1,104.70	-1,104.70	-1,449.15	5.68	MWD	LEAM DRILLING SYSTEMS
11/17/2...	8,162.00	93.91	270.24	6,528.42	-1,107.04	-1,107.04	-1,542.91	3.58	MWD	LEAM DRILLING SYSTEMS
11/17/2...	8,257.00	93.91	270.76	6,521.95	-1,106.22	-1,106.22	-1,637.68	0.55	MWD	LEAM DRILLING SYSTEMS
11/17/2...	8,351.00	91.89	270.94	6,517.19	-1,104.82	-1,104.82	-1,731.55	2.16	MWD	LEAM DRILLING SYSTEMS
11/17/2...	8,446.00	93.56	271.99	6,512.67	-1,102.40	-1,102.40	-1,826.40	2.08	MWD	LEAM DRILLING SYSTEMS
11/17/2...	8,540.00	93.83	272.52	6,506.62	-1,098.71	-1,098.71	-1,920.14	0.63	MWD	LEAM DRILLING SYSTEMS
11/17/2...	8,635.00	94.70	272.52	6,499.55	-1,094.54	-1,094.54	-2,014.78	0.92	MWD	LEAM DRILLING SYSTEMS
11/17/2...	8,730.00	92.42	271.82	6,493.65	-1,090.95	-1,090.95	-2,109.52	2.51	MWD	LEAM DRILLING SYSTEMS
11/17/2...	8,825.00	91.19	271.64	6,490.66	-1,088.09	-1,088.09	-2,204.43	1.31	MWD	LEAM DRILLING SYSTEMS
11/17/2...	8,918.00	91.89	270.94	6,488.16	-1,085.99	-1,085.99	-2,297.37	1.06	MWD	LEAM DRILLING SYSTEMS
11/17/2...	9,013.00	92.68	270.41	6,484.37	-1,084.88	-1,084.88	-2,392.29	1.00	MWD	LEAM DRILLING SYSTEMS
11/17/2...	9,108.00	92.33	267.07	6,480.22	-1,086.96	-1,086.96	-2,487.16	3.53	MWD	LEAM DRILLING SYSTEMS
11/17/2...	9,202.00	93.65	267.25	6,475.32	-1,091.61	-1,091.61	-2,580.92	1.42	MWD	LEAM DRILLING SYSTEMS
11/17/2...	9,297.00	92.07	267.95	6,470.58	-1,095.59	-1,095.59	-2,675.71	1.82	MWD	LEAM DRILLING SYSTEMS
11/17/2...	9,392.00	94.53	269.01	6,465.11	-1,098.10	-1,098.10	-2,770.51	2.82	MWD	LEAM DRILLING SYSTEMS
11/17/2...	9,486.00	95.67	270.24	6,456.75	-1,098.72	-1,098.72	-2,864.13	1.78	MWD	LEAM DRILLING SYSTEMS
11/17/2...	9,581.00	90.04	265.49	6,452.02	-1,102.26	-1,102.26	-2,958.88	7.75	MWD	LEAM DRILLING SYSTEMS
11/17/2...	9,676.00	89.08	265.49	6,452.75	-1,109.73	-1,109.73	-3,053.59	1.01	MWD	LEAM DRILLING SYSTEMS
11/17/2...	9,771.00	90.40	267.42	6,453.18	-1,115.60	-1,115.60	-3,148.40	2.46	MWD	LEAM DRILLING SYSTEMS
11/17/2...	9,866.00	91.89	268.83	6,451.28	-1,118.71	-1,118.71	-3,243.32	2.16	MWD	LEAM DRILLING SYSTEMS
11/17/2...	9,960.00	92.33	270.76	6,447.82	-1,119.05	-1,119.05	-3,337.25	2.10	MWD	LEAM DRILLING SYSTEMS
11/17/2...	10,054.00	92.07	271.47	6,444.21	-1,117.22	-1,117.22	-3,431.17	0.80	MWD	LEAM DRILLING SYSTEMS
11/17/2...	10,149.00	92.77	271.47	6,440.20	-1,114.78	-1,114.78	-3,526.05	0.74	MWD	LEAM DRILLING SYSTEMS
11/17/2...	10,243.00	93.65	271.82	6,434.94	-1,112.09	-1,112.09	-3,619.86	1.01	MWD	LEAM DRILLING SYSTEMS
11/17/2...	10,338.00	92.59	271.99	6,429.77	-1,108.94	-1,108.94	-3,714.67	1.13	MWD	LEAM DRILLING SYSTEMS
11/17/2...	10,432.00	93.39	270.59	6,424.86	-1,106.82	-1,106.82	-3,808.51	1.71	MWD	LEAM DRILLING SYSTEMS
11/17/2...	10,527.00	91.36	269.53	6,420.93	-1,106.72	-1,106.72	-3,903.42	2.41	MWD	LEAM DRILLING SYSTEMS
11/17/2...	10,621.00	93.39	270.76	6,417.03	-1,106.49	-1,106.49	-3,997.34	2.52	MWD	LEAM DRILLING SYSTEMS
11/17/2...	10,716.00	90.57	269.89	6,413.75	-1,105.95	-1,105.95	-4,092.27	3.11	MWD	LEAM DRILLING SYSTEMS
11/17/2...	10,811.00	91.36	270.76	6,412.15	-1,105.41	-1,105.41	-4,187.25	1.24	MWD	LEAM DRILLING SYSTEMS
11/17/2...	10,906.00	92.77	271.82	6,408.73	-1,103.27	-1,103.27	-4,282.16	1.86	MWD	LEAM DRILLING SYSTEMS
11/17/2...	11,001.00	91.80	271.29	6,404.94	-1,100.70	-1,100.70	-4,377.05	1.16	MWD	LEAM DRILLING SYSTEMS
11/17/2...	11,096.00	91.98	269.53	6,401.81	-1,100.02	-1,100.02	-4,471.99	1.86	MWD	LEAM DRILLING SYSTEMS
11/17/2...	11,191.00	93.30	268.66	6,397.43	-1,101.52	-1,101.52	-4,566.88	1.66	MWD	LEAM DRILLING SYSTEMS
11/17/2...	11,284.00	92.86	268.66	6,392.43	-1,103.69	-1,103.69	-4,659.72	0.47	MWD	LEAM DRILLING SYSTEMS
11/17/2...	11,378.00	92.51	268.83	6,388.03	-1,105.74	-1,105.74	-4,753.59	0.41	MWD	LEAM DRILLING SYSTEMS
11/17/2...	11,473.00	92.33	268.83	6,384.02	-1,107.68	-1,107.68	-4,848.49	0.19	MWD	LEAM DRILLING SYSTEMS
11/17/2...	11,567.00	92.68	269.01	6,379.91	-1,109.45	-1,109.45	-4,942.38	0.42	MWD	LEAM DRILLING SYSTEMS
11/17/2...	11,648.00	92.77	269.01	6,376.06	-1,110.85	-1,110.85	-5,023.28	0.11	MWD	LEAM DRILLING SYSTEMS
11/17/2...	11,712.00	92.77	269.01	6,372.97	-1,111.96	-1,111.96	-5,087.19	0.00	BIT	LEAM DRILLING SYSTEMS

Wellbore Name OH	Parent Wellbore OH	Kick Off Depth (ftKB)	Vertical Section Direction (°) 0.00
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Actual Deviation Survey	Definitive?	Proposed?	Proposed Deviation Survey
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Deviation Survey

Date	Description
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