

Henry Resources, LLC

Crockett County, TX

University BL

#7265NH

42-105-42216

OH

Design: OH

Standard Survey Report

25 May, 2015

Survey Report

Company:	Henry Resources, LLC	Local Co-ordinate Reference:	Well #7265NH
Project:	Crockett County, TX	TVD Reference:	RKB @ 2822.0usft (CANELSON 36 - KB=16')
Site:	University BL	MD Reference:	RKB @ 2822.0usft (CANELSON 36 - KB=16')
Well:	#7265NH	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Houston R5000 Database

Project	Crockett County, TX		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Texas Central 4203		

Site	University BL		
Site Position:		Northing:	509,045.05 usft
From:	Map	Easting:	1,599,155.69 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	31° 3' 36.053 N
		Longitude:	101° 36' 48.879 W
		Grid Convergence:	-0.66 °

Well	#7265NH		
Well Position	+N/-S	0.0 usft	Northing: 509,045.05 usft
	+E/-W	0.0 usft	Easting: 1,599,155.69 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	31° 3' 36.053 N
		Longitude:	101° 36' 48.879 W
		Ground Level:	2,806.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	5/11/2015	6.18
			Dip Angle (°)
			59.32
			Field Strength (nT)
			47,654

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°)
			1.19

Survey Program	Date	5/25/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
54.4	5,916.6	Survey #1 - Gyro (OH)	Good_gyro	Good Gyro
6,015.0	14,283.0	Survey #2 - Crescent MWD Survey (OH)	MWD	MWD - Standard
14,327.0	14,327.0	Survey #3 - PTB (OH)	BLIND	Blind drilling, where no tool is applied

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
54.4	0.97	92.11	54.4	0.0	0.5	0.0	1.78	1.78	0.00	
118.1	1.15	125.27	118.1	-0.4	1.5	-0.4	0.99	0.28	52.04	
181.8	1.22	96.26	181.8	-0.8	2.7	-0.8	0.94	0.11	-45.53	
245.5	1.05	79.59	245.5	-0.8	4.0	-0.7	0.58	-0.27	-26.16	
309.3	0.84	81.96	309.2	-0.6	5.0	-0.5	0.34	-0.33	3.72	
373.0	0.94	86.65	372.9	-0.6	6.0	-0.4	0.19	0.16	7.36	
436.7	0.75	63.25	436.6	-0.3	6.9	-0.2	0.61	-0.30	-36.72	
500.4	0.82	68.73	500.4	0.0	7.7	0.2	0.16	0.11	8.60	

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Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
564.1	0.83	84.64	564.1	0.2	8.6	0.4	0.36	0.02	24.97
627.9	0.72	96.12	627.8	0.2	9.4	0.4	0.30	-0.17	18.02
691.6	0.73	94.01	691.5	0.2	10.2	0.4	0.04	0.02	-3.31
755.3	0.72	98.37	755.2	0.1	11.0	0.3	0.09	-0.02	6.84
819.0	0.64	112.47	818.9	-0.1	11.7	0.1	0.29	-0.13	22.13
882.7	0.61	115.25	882.6	-0.4	12.4	-0.1	0.07	-0.05	4.36
946.5	0.50	115.60	946.4	-0.7	12.9	-0.4	0.17	-0.17	0.55
1,010.2	0.38	189.11	1,010.1	-1.0	13.2	-0.7	0.84	-0.19	115.36
1,073.9	0.59	188.90	1,073.8	-1.5	13.1	-1.3	0.33	0.33	-0.33
1,137.6	0.70	211.30	1,137.5	-2.2	12.8	-1.9	0.43	0.17	35.15
1,201.3	0.70	214.31	1,201.2	-2.8	12.4	-2.6	0.06	0.00	4.72
1,265.1	0.60	213.49	1,264.9	-3.4	12.0	-3.2	0.16	-0.16	-1.29
1,328.8	0.54	199.71	1,328.7	-4.0	11.7	-3.8	0.23	-0.09	-21.63
1,392.5	0.51	186.71	1,392.4	-4.6	11.6	-4.3	0.19	-0.05	-20.40
1,456.2	0.45	171.96	1,456.1	-5.1	11.6	-4.9	0.21	-0.09	-23.15
1,519.9	0.20	183.88	1,519.8	-5.5	11.6	-5.2	0.40	-0.39	18.71
1,583.7	0.39	101.37	1,583.5	-5.6	11.8	-5.4	0.65	0.30	-129.49
1,647.4	0.39	116.56	1,647.3	-5.7	12.2	-5.5	0.16	0.00	23.84
1,711.1	0.38	105.14	1,711.0	-5.9	12.6	-5.6	0.12	-0.02	-17.92
1,774.8	0.41	102.91	1,774.7	-6.0	13.0	-5.7	0.05	0.05	-3.50
1,838.5	0.46	105.32	1,838.4	-6.1	13.5	-5.8	0.08	0.08	3.78
1,902.3	0.48	120.59	1,902.1	-6.3	14.0	-6.0	0.20	0.03	23.96
1,966.0	0.49	110.63	1,965.8	-6.6	14.5	-6.3	0.13	0.02	-15.63
2,029.7	0.42	93.80	2,029.6	-6.7	15.0	-6.4	0.24	-0.11	-26.41
2,093.4	0.35	71.72	2,093.3	-6.6	15.4	-6.3	0.26	-0.11	-34.65
2,157.1	0.32	32.29	2,157.0	-6.4	15.7	-6.1	0.36	-0.05	-61.88
2,220.9	0.29	34.34	2,220.7	-6.1	15.8	-5.8	0.05	-0.05	3.22
2,284.6	0.16	14.99	2,284.4	-5.9	16.0	-5.6	0.23	-0.20	-30.37
2,348.3	0.18	74.89	2,348.2	-5.8	16.1	-5.5	0.27	0.03	94.01
2,412.0	0.52	178.37	2,411.9	-6.1	16.2	-5.7	0.92	0.53	162.40
2,475.7	0.69	165.30	2,475.6	-6.7	16.3	-6.4	0.34	0.27	-20.51
2,539.5	0.43	156.53	2,539.3	-7.3	16.5	-7.0	0.43	-0.41	-13.76
2,603.2	0.44	200.04	2,603.0	-7.8	16.5	-7.4	0.51	0.02	68.28
2,666.9	0.35	201.30	2,666.7	-8.2	16.3	-7.8	0.14	-0.14	1.98
2,730.6	0.26	197.13	2,730.5	-8.5	16.2	-8.2	0.15	-0.14	-6.54
2,794.3	0.21	135.02	2,794.2	-8.7	16.3	-8.4	0.39	-0.08	-97.47
2,858.1	0.21	125.19	2,857.9	-8.9	16.4	-8.5	0.06	0.00	-15.43
2,921.8	0.36	185.81	2,921.6	-9.1	16.5	-8.8	0.50	0.24	95.13
2,985.5	0.24	146.41	2,985.3	-9.4	16.6	-9.1	0.36	-0.19	-61.83
3,049.2	0.24	187.23	3,049.1	-9.7	16.6	-9.3	0.26	0.00	64.06
3,112.9	0.27	251.74	3,112.8	-9.9	16.5	-9.5	0.43	0.05	101.24
3,176.7	0.44	129.73	3,176.5	-10.1	16.5	-9.7	0.98	0.27	-191.48
3,240.4	0.27	138.61	3,240.2	-10.3	16.8	-10.0	0.28	-0.27	13.94

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Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
3,304.1	0.20	159.26	3,303.9	-10.6	16.9	-10.2	0.17	-0.11	32.41	
3,367.8	0.13	131.62	3,367.7	-10.7	17.0	-10.3	0.16	-0.11	-43.38	
3,431.5	0.20	90.20	3,431.4	-10.8	17.2	-10.4	0.21	0.11	-65.00	
3,495.3	0.18	64.74	3,495.1	-10.7	17.4	-10.3	0.13	-0.03	-39.96	
3,559.0	0.10	139.85	3,558.8	-10.7	17.5	-10.3	0.29	-0.13	117.88	
3,622.7	0.12	58.53	3,622.5	-10.7	17.6	-10.3	0.23	0.03	-127.62	
3,686.4	0.22	73.46	3,686.3	-10.6	17.8	-10.3	0.17	0.16	23.43	
3,750.1	0.23	96.60	3,750.0	-10.6	18.0	-10.3	0.14	0.02	36.32	
3,813.9	0.40	92.75	3,813.7	-10.7	18.4	-10.3	0.27	0.27	-6.04	
3,877.6	0.54	89.96	3,877.4	-10.7	18.9	-10.3	0.22	0.22	-4.38	
3,941.3	0.67	98.03	3,941.1	-10.7	19.6	-10.3	0.24	0.20	12.66	
4,005.0	0.71	90.08	4,004.8	-10.8	20.3	-10.3	0.16	0.06	-12.48	
4,068.7	0.79	93.58	4,068.6	-10.8	21.2	-10.4	0.14	0.13	5.49	
4,132.5	0.85	94.64	4,132.3	-10.9	22.1	-10.4	0.10	0.09	1.66	
4,196.2	0.82	92.11	4,196.0	-10.9	23.0	-10.4	0.07	-0.05	-3.97	
4,259.9	0.81	91.13	4,259.7	-10.9	23.9	-10.4	0.03	-0.02	-1.54	
4,323.6	0.89	89.83	4,323.4	-10.9	24.9	-10.4	0.13	0.13	-2.04	
4,387.3	0.79	65.00	4,387.1	-10.8	25.8	-10.2	0.59	-0.16	-38.97	
4,451.1	0.73	16.73	4,450.8	-10.2	26.3	-9.6	0.98	-0.09	-75.75	
4,514.8	0.33	5.80	4,514.6	-9.6	26.4	-9.1	0.64	-0.63	-17.15	
4,578.5	0.42	18.54	4,578.3	-9.2	26.5	-8.7	0.19	0.14	19.99	
4,642.2	0.56	27.03	4,642.0	-8.7	26.7	-8.2	0.25	0.22	13.32	
4,705.9	0.58	0.14	4,705.7	-8.1	26.9	-7.6	0.42	0.03	-42.20	
4,769.7	0.69	11.29	4,769.4	-7.4	26.9	-6.9	0.26	0.17	17.50	
4,833.4	1.38	346.35	4,833.1	-6.3	26.8	-5.7	1.27	1.08	-39.14	
4,897.1	1.41	349.21	4,896.8	-4.8	26.5	-4.2	0.12	0.05	4.49	
4,960.8	1.39	350.31	4,960.5	-3.2	26.2	-2.7	0.05	-0.03	1.73	
5,024.5	0.67	287.69	5,024.3	-2.4	25.7	-1.8	1.94	-1.13	-98.27	
5,088.3	0.68	342.59	5,088.0	-1.9	25.3	-1.4	0.98	0.02	86.16	
5,152.0	0.78	352.30	5,151.7	-1.1	25.1	-0.6	0.25	0.16	15.24	
5,215.7	0.63	357.16	5,215.4	-0.3	25.0	0.2	0.25	-0.24	7.63	
5,279.4	0.51	1.09	5,279.1	0.3	25.0	0.8	0.20	-0.19	6.17	
5,343.1	0.45	359.36	5,342.8	0.8	25.0	1.4	0.10	-0.09	-2.72	
5,406.9	0.47	358.80	5,406.5	1.4	25.0	1.9	0.03	0.03	-0.88	
5,470.6	0.43	16.53	5,470.3	1.8	25.1	2.4	0.23	-0.06	27.82	
5,534.3	0.48	23.92	5,534.0	2.3	25.2	2.8	0.12	0.08	11.60	
5,598.0	0.37	25.48	5,597.7	2.7	25.4	3.3	0.17	-0.17	2.45	
5,661.7	0.40	7.57	5,661.4	3.2	25.6	3.7	0.19	0.05	-28.11	
5,725.5	0.38	47.09	5,725.1	3.5	25.7	4.1	0.41	-0.03	62.02	
5,789.2	0.42	63.57	5,788.9	3.8	26.1	4.3	0.19	0.06	25.86	
5,852.9	0.39	66.57	5,852.6	4.0	26.5	4.5	0.06	-0.05	4.71	
5,916.2	0.37	70.69	5,915.9	4.1	26.9	4.7	0.05	-0.03	6.51	
Gyro Tie-In: 5916.2' MD, 5915.9' TVD										
5,916.6	0.37	70.72	5,916.3	4.1	26.9	4.7	0.05	-0.03	6.86	

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6,015.0	0.60	113.40	6,014.7	4.0	27.7	4.6	0.42	0.23	43.38
6,045.0	0.40	101.40	6,044.7	3.9	27.9	4.5	0.75	-0.67	-40.00
6,062.0	1.36	354.67	6,061.7	4.1	28.0	4.7	8.98	5.67	-627.81
KOP: 6062.0' MD, 6061.7' TVD									
6,076.0	2.60	347.70	6,075.7	4.6	27.9	5.2	8.98	8.83	-49.80
6,108.0	6.90	344.30	6,107.5	7.2	27.2	7.7	13.46	13.44	-10.63
6,139.0	10.60	348.80	6,138.2	11.7	26.2	12.3	12.13	11.94	14.52
6,171.0	14.20	350.80	6,169.4	18.5	25.0	19.0	11.33	11.25	6.25
6,202.0	17.30	351.80	6,199.3	26.8	23.7	27.3	10.04	10.00	3.23
6,234.0	20.60	352.30	6,229.5	37.1	22.3	37.6	10.32	10.31	1.56
6,266.0	23.20	354.50	6,259.2	49.0	20.9	49.4	8.52	8.13	6.88
6,298.0	25.70	358.90	6,288.3	62.2	20.2	62.6	9.66	7.81	13.75
6,329.0	28.20	1.70	6,316.0	76.2	20.2	76.6	9.04	8.06	9.03
6,361.0	30.90	1.70	6,343.8	92.0	20.7	92.4	8.44	8.44	0.00
6,393.0	33.80	0.30	6,370.8	109.1	21.0	109.5	9.36	9.06	-4.38
6,424.0	36.80	357.60	6,396.1	127.0	20.7	127.4	10.91	9.68	-8.71
6,456.0	40.10	355.50	6,421.2	146.9	19.4	147.3	11.09	10.31	-6.56
6,487.0	43.80	355.20	6,444.2	167.5	17.8	167.9	11.95	11.94	-0.97
6,519.0	47.10	356.20	6,466.7	190.3	16.1	190.6	10.55	10.31	3.13
6,551.0	50.30	357.90	6,487.8	214.3	14.8	214.5	10.77	10.00	5.31
6,583.0	53.20	359.10	6,507.6	239.4	14.2	239.6	9.53	9.06	3.75
6,614.0	56.60	359.90	6,525.4	264.7	14.0	265.0	11.17	10.97	2.58
6,646.0	60.00	0.70	6,542.3	292.0	14.1	292.2	10.84	10.63	2.50
6,678.0	62.90	1.60	6,557.5	320.1	14.7	320.3	9.39	9.06	2.81
6,709.0	65.90	1.80	6,570.9	348.0	15.5	348.3	9.69	9.68	0.65
6,741.0	69.40	1.20	6,583.1	377.6	16.3	377.8	11.07	10.94	-1.88
6,773.0	72.70	0.60	6,593.5	407.9	16.8	408.1	10.46	10.31	-1.88
6,804.0	75.70	1.00	6,601.9	437.7	17.2	437.9	9.76	9.68	1.29
6,836.0	78.70	1.40	6,609.0	468.9	17.8	469.1	9.45	9.38	1.25
6,867.0	81.80	1.70	6,614.3	499.4	18.7	499.7	10.05	10.00	0.97
6,899.0	84.70	1.70	6,618.0	531.2	19.6	531.5	9.06	9.06	0.00
6,914.0	85.73	1.75	6,619.3	546.1	20.0	546.4	6.88	6.87	0.31
EOC: 6914.0' MD, 6619.3' TVD, 85.73° INC, 1.75° AZ, 546.4' VS									
6,931.0	86.90	1.80	6,620.4	563.1	20.6	563.4	6.88	6.88	0.31
6,962.0	87.30	1.70	6,621.9	594.0	21.5	594.3	1.33	1.29	-0.32
7,026.0	88.00	0.50	6,624.6	657.9	22.7	658.3	2.17	1.09	-1.88
7,089.0	88.30	359.60	6,626.6	720.9	22.8	721.2	1.51	0.48	-1.43
7,150.0	89.30	359.40	6,627.9	781.9	22.3	782.2	1.67	1.64	-0.33
7,213.0	89.90	359.50	6,628.3	844.9	21.7	845.2	0.97	0.95	0.16
7,276.0	89.00	0.00	6,628.9	907.9	21.4	908.1	1.63	-1.43	0.79
7,339.0	89.40	1.50	6,629.8	970.9	22.2	971.1	2.46	0.63	2.38
7,403.0	87.30	0.40	6,631.7	1,034.8	23.3	1,035.1	3.70	-3.28	-1.72
7,466.0	87.10	359.80	6,634.7	1,097.8	23.4	1,098.0	1.00	-0.32	-0.95

Survey Report

Company:	Henry Resources, LLC	Local Co-ordinate Reference:	Well #7265NH
Project:	Crockett County, TX	TVD Reference:	RKB @ 2822.0usft (CANELSON 36 - KB=16')
Site:	University BL	MD Reference:	RKB @ 2822.0usft (CANELSON 36 - KB=16')
Well:	#7265NH	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Houston R5000 Database

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,529.0	87.20	358.90	6,637.9	1,160.7	22.7	1,160.9	1.44	0.16	-1.43
7,592.0	87.10	358.20	6,641.0	1,223.6	21.1	1,223.7	1.12	-0.16	-1.11
7,655.0	87.30	357.00	6,644.1	1,286.4	18.4	1,286.5	1.93	0.32	-1.90
7,719.0	87.80	359.70	6,646.8	1,350.3	16.6	1,350.4	4.29	0.78	4.22
7,782.0	87.50	2.30	6,649.4	1,413.3	17.7	1,413.3	4.15	-0.48	4.13
7,845.0	88.50	2.40	6,651.6	1,476.2	20.3	1,476.3	1.60	1.59	0.16
7,908.0	87.70	2.50	6,653.7	1,539.1	23.0	1,539.2	1.28	-1.27	0.16
7,972.0	89.30	2.70	6,655.4	1,603.0	25.9	1,603.2	2.52	2.50	0.31
8,035.0	88.30	3.40	6,656.7	1,665.9	29.2	1,666.1	1.94	-1.59	1.11
8,098.0	86.30	4.70	6,659.6	1,728.7	33.7	1,729.0	3.78	-3.17	2.06
8,162.0	86.50	4.60	6,663.7	1,792.3	38.8	1,792.8	0.35	0.31	-0.16
8,225.0	86.40	3.90	6,667.6	1,855.0	43.5	1,855.5	1.12	-0.16	-1.11
8,288.0	86.70	3.40	6,671.4	1,917.8	47.5	1,918.4	0.92	0.48	-0.79
8,351.0	87.00	3.00	6,674.8	1,980.6	51.0	1,981.2	0.79	0.48	-0.63
8,414.0	87.80	2.50	6,677.7	2,043.5	54.0	2,044.1	1.50	1.27	-0.79
8,477.0	88.60	1.90	6,679.7	2,106.4	56.5	2,107.1	1.59	1.27	-0.95
8,541.0	86.60	1.80	6,682.3	2,170.3	58.5	2,171.0	3.13	-3.13	-0.16
8,605.0	86.40	1.40	6,686.2	2,234.2	60.3	2,234.9	0.70	-0.31	-0.63
8,668.0	86.40	0.80	6,690.2	2,297.0	61.5	2,297.8	0.95	0.00	-0.95
8,731.0	86.80	0.20	6,693.9	2,359.9	62.1	2,360.7	1.14	0.63	-0.95
8,794.0	86.50	359.90	6,697.6	2,422.8	62.1	2,423.6	0.67	-0.48	-0.48
8,857.0	87.60	0.30	6,700.9	2,485.7	62.2	2,486.5	1.86	1.75	0.63
8,920.0	88.50	1.00	6,703.0	2,548.7	62.9	2,549.4	1.81	1.43	1.11
8,983.0	89.30	359.20	6,704.2	2,611.7	63.1	2,612.4	3.13	1.27	-2.86
9,046.0	87.10	0.40	6,706.2	2,674.6	62.8	2,675.3	3.98	-3.49	1.90
9,109.0	86.50	0.30	6,709.7	2,737.5	63.2	2,738.2	0.97	-0.95	-0.16
9,172.0	87.00	359.40	6,713.3	2,800.4	63.0	2,801.1	1.63	0.79	-1.43
9,235.0	88.70	1.10	6,715.6	2,863.4	63.3	2,864.1	3.81	2.70	2.70
9,299.0	89.00	0.90	6,716.9	2,927.3	64.4	2,928.0	0.56	0.47	-0.31
9,362.0	87.30	0.30	6,719.0	2,990.3	65.1	2,991.0	2.86	-2.70	-0.95
9,425.0	87.30	0.30	6,721.9	3,053.2	65.4	3,053.9	0.00	0.00	0.00
9,489.0	87.20	359.90	6,725.0	3,117.2	65.5	3,117.8	0.64	-0.16	-0.63
9,552.0	87.90	358.20	6,727.7	3,180.1	64.5	3,180.7	2.92	1.11	-2.70
9,616.0	87.60	0.00	6,730.2	3,244.0	63.5	3,244.6	2.85	-0.47	2.81
9,679.0	87.30	0.30	6,733.0	3,307.0	63.7	3,307.6	0.67	-0.48	0.48
9,742.0	87.20	359.80	6,736.0	3,369.9	63.7	3,370.5	0.81	-0.16	-0.79
9,806.0	87.20	359.50	6,739.2	3,433.8	63.3	3,434.4	0.47	0.00	-0.47
9,869.0	87.00	1.30	6,742.3	3,496.7	63.8	3,497.3	2.87	-0.32	2.86
9,932.0	87.00	1.10	6,745.6	3,559.6	65.1	3,560.2	0.32	0.00	-0.32
9,995.0	87.50	1.60	6,748.7	3,622.5	66.6	3,623.1	1.12	0.79	0.79
10,059.0	88.20	1.10	6,751.1	3,686.5	68.1	3,687.1	1.34	1.09	-0.78
10,123.0	88.80	359.90	6,752.7	3,750.5	68.6	3,751.1	2.10	0.94	-1.88
10,186.0	88.40	1.50	6,754.3	3,813.4	69.4	3,814.0	2.62	-0.63	2.54
10,254.0	88.10	0.60	6,756.4	3,881.4	70.6	3,882.0	1.39	-0.44	-1.32

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Site:	University BL	MD Reference:	RKB @ 2822.0usft (CANELSON 36 - KB=16')
Well:	#7265NH	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Houston R5000 Database

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,317.0	88.50	359.90	6,758.2	3,944.4	70.9	3,945.0	1.28	0.63	-1.11
10,380.0	89.40	359.50	6,759.4	4,007.3	70.6	4,007.9	1.56	1.43	-0.63
10,443.0	88.80	0.50	6,760.4	4,070.3	70.6	4,070.9	1.85	-0.95	1.59
10,507.0	87.20	2.20	6,762.6	4,134.3	72.1	4,134.9	3.65	-2.50	2.66
10,570.0	87.10	1.40	6,765.7	4,197.2	74.1	4,197.8	1.28	-0.16	-1.27
10,633.0	87.80	1.60	6,768.5	4,260.1	75.7	4,260.7	1.16	1.11	0.32
10,697.0	86.50	358.80	6,771.7	4,324.0	75.9	4,324.6	4.82	-2.03	-4.38
10,761.0	87.70	1.70	6,775.0	4,387.9	76.2	4,388.5	4.90	1.88	4.53
10,825.0	87.10	359.70	6,777.9	4,451.8	77.0	4,452.5	3.26	-0.94	-3.13
10,888.0	87.20	1.20	6,781.0	4,514.7	77.5	4,515.4	2.38	0.16	2.38
10,951.0	87.70	1.70	6,783.8	4,577.7	79.1	4,578.3	1.12	0.79	0.79
11,015.0	87.00	2.40	6,786.8	4,641.5	81.4	4,642.2	1.55	-1.09	1.09
11,079.0	88.70	4.20	6,789.2	4,705.4	85.1	4,706.1	3.87	2.66	2.81
11,142.0	89.40	4.10	6,790.2	4,768.2	89.6	4,769.1	1.12	1.11	-0.16
11,205.0	88.30	3.60	6,791.5	4,831.1	93.8	4,832.0	1.92	-1.75	-0.79
11,268.0	88.60	3.70	6,793.2	4,893.9	97.9	4,894.9	0.50	0.48	0.16
11,331.0	88.20	1.60	6,794.9	4,956.8	100.8	4,957.8	3.39	-0.63	-3.33
11,394.0	87.10	358.80	6,797.5	5,019.8	101.0	5,020.8	4.77	-1.75	-4.44
11,458.0	87.80	0.90	6,800.4	5,083.7	100.8	5,084.7	3.46	1.09	3.28
11,522.0	88.90	1.30	6,802.2	5,147.6	102.0	5,148.7	1.83	1.72	0.63
11,585.0	89.20	0.50	6,803.2	5,210.6	103.0	5,211.6	1.36	0.48	-1.27
11,648.0	88.50	1.00	6,804.5	5,273.6	103.9	5,274.6	1.37	-1.11	0.79
11,711.0	88.00	1.20	6,806.4	5,336.6	105.1	5,337.6	0.85	-0.79	0.32
11,775.0	87.90	359.90	6,808.7	5,400.5	105.7	5,401.6	2.04	-0.16	-2.03
11,838.0	88.20	359.00	6,810.9	5,463.5	105.1	5,464.5	1.51	0.48	-1.43
11,901.0	87.80	0.60	6,813.1	5,526.4	104.9	5,527.4	2.62	-0.63	2.54
11,965.0	87.80	2.80	6,815.5	5,590.4	106.8	5,591.4	3.43	0.00	3.44
12,029.0	88.90	3.70	6,817.4	5,654.2	110.4	5,655.3	2.22	1.72	1.41
12,092.0	87.40	3.70	6,819.4	5,717.1	114.4	5,718.2	2.38	-2.38	0.00
12,155.0	87.60	3.70	6,822.1	5,779.9	118.5	5,781.1	0.32	0.32	0.00
12,219.0	89.00	3.50	6,824.0	5,843.7	122.5	5,845.0	2.21	2.19	-0.31
12,282.0	89.80	3.00	6,824.7	5,906.6	126.1	5,908.0	1.50	1.27	-0.79
12,345.0	87.80	3.80	6,826.0	5,969.5	129.8	5,970.9	3.42	-3.17	1.27
12,409.0	87.10	2.20	6,828.9	6,033.3	133.2	6,034.8	2.73	-1.09	-2.50
12,472.0	87.80	2.70	6,831.7	6,096.2	135.9	6,097.7	1.36	1.11	0.79
12,535.0	86.50	3.20	6,834.8	6,159.1	139.1	6,160.6	2.21	-2.06	0.79
12,598.0	86.70	2.70	6,838.5	6,221.9	142.3	6,223.5	0.85	0.32	-0.79
12,661.0	87.30	3.50	6,841.8	6,284.7	145.7	6,286.3	1.59	0.95	1.27
12,724.0	88.30	3.20	6,844.3	6,347.5	149.4	6,349.3	1.66	1.59	-0.48
12,787.0	87.50	1.20	6,846.6	6,410.4	151.8	6,412.2	3.42	-1.27	-3.17
12,851.0	87.60	0.20	6,849.3	6,474.4	152.6	6,476.1	1.57	0.16	-1.56
12,914.0	86.50	359.50	6,852.5	6,537.3	152.5	6,539.0	2.07	-1.75	-1.11
12,977.0	86.40	358.70	6,856.4	6,600.2	151.5	6,601.9	1.28	-0.16	-1.27

Survey Report

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Site:	University BL	MD Reference:	RKB @ 2822.0usft (CANELSON 36 - KB=16')
Well:	#7265NH	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Houston R5000 Database

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,040.0	87.30	359.20	6,859.9	6,663.0	150.3	6,664.7	1.63	1.43	0.79	
13,104.0	87.80	358.10	6,862.6	6,727.0	148.8	6,728.6	1.89	0.78	-1.72	
13,167.0	88.50	357.70	6,864.7	6,789.9	146.5	6,791.5	1.28	1.11	-0.63	
13,231.0	87.60	358.10	6,866.9	6,853.8	144.2	6,855.3	1.54	-1.41	0.63	
13,294.0	88.10	357.70	6,869.2	6,916.7	141.9	6,918.2	1.02	0.79	-0.63	
13,358.0	87.50	359.30	6,871.7	6,980.7	140.2	6,982.1	2.67	-0.94	2.50	
13,421.0	87.20	0.20	6,874.6	7,043.6	139.9	7,045.0	1.50	-0.48	1.43	
13,485.0	87.80	359.50	6,877.4	7,107.5	139.7	7,108.9	1.44	0.94	-1.09	
13,548.0	86.60	359.40	6,880.5	7,170.4	139.1	7,171.8	1.91	-1.90	-0.16	
13,612.0	85.90	358.20	6,884.6	7,234.3	137.8	7,235.6	2.17	-1.09	-1.88	
13,675.0	86.50	359.20	6,888.8	7,297.1	136.4	7,298.4	1.85	0.95	1.59	
13,739.0	86.80	358.80	6,892.6	7,361.0	135.3	7,362.2	0.78	0.47	-0.63	
13,802.0	87.80	0.00	6,895.5	7,423.9	134.6	7,425.1	2.48	1.59	1.90	
13,866.0	88.50	0.00	6,897.6	7,487.9	134.6	7,489.1	1.09	1.09	0.00	
13,929.0	88.80	0.80	6,899.1	7,550.9	135.0	7,552.1	1.36	0.48	1.27	
13,993.0	89.30	1.20	6,900.1	7,614.9	136.2	7,616.1	1.00	0.78	0.63	
14,056.0	90.00	1.00	6,900.5	7,677.9	137.4	7,679.1	1.16	1.11	-0.32	
14,120.0	90.70	0.30	6,900.1	7,741.8	138.1	7,743.0	1.55	1.09	-1.09	
14,183.0	91.50	0.30	6,898.9	7,804.8	138.4	7,806.0	1.27	1.27	0.00	
14,247.0	92.20	359.90	6,896.9	7,868.8	138.5	7,870.0	1.26	1.09	-0.63	
14,283.0	92.90	359.90	6,895.3	7,904.8	138.5	7,905.9	1.94	1.94	0.00	
Final MWD Survey: 14283.0' MD										
14,327.0	92.90	359.90	6,893.0	7,948.7	138.4	7,949.9	0.00	0.00	0.00	
BHL: 14327.0' MD, 6893.0' TVD, 92.90° INC, 359.90° AZ, 7948.7' +N/-S, 138.4' +E/-W, 7949.9' VS										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
5,916.2	5,915.9	4.1	26.9	Gyro Tie-In: 5916.2' MD, 5915.9' TVD	
6,062.0	6,061.7	4.1	28.0	KOP: 6062.0' MD, 6061.7' TVD	
6,914.0	6,619.3	546.1	20.0	EOC: 6914.0' MD, 6619.3' TVD, 85.73° INC, 1.75° AZ, 546.4' VS	
14,283.0	6,895.3	7,904.8	138.5	Final MWD Survey: 14283.0' MD	
14,327.0	6,893.0	7,948.7	138.4	BHL: 14327.0' MD, 6893.0' TVD, 92.90° INC, 359.90° AZ, 7948.7' +N/-S, 138.4'	

Checked By: _____	Approved By: _____	Date: _____
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