

Well Name: **WILDHORSE 16-13L**

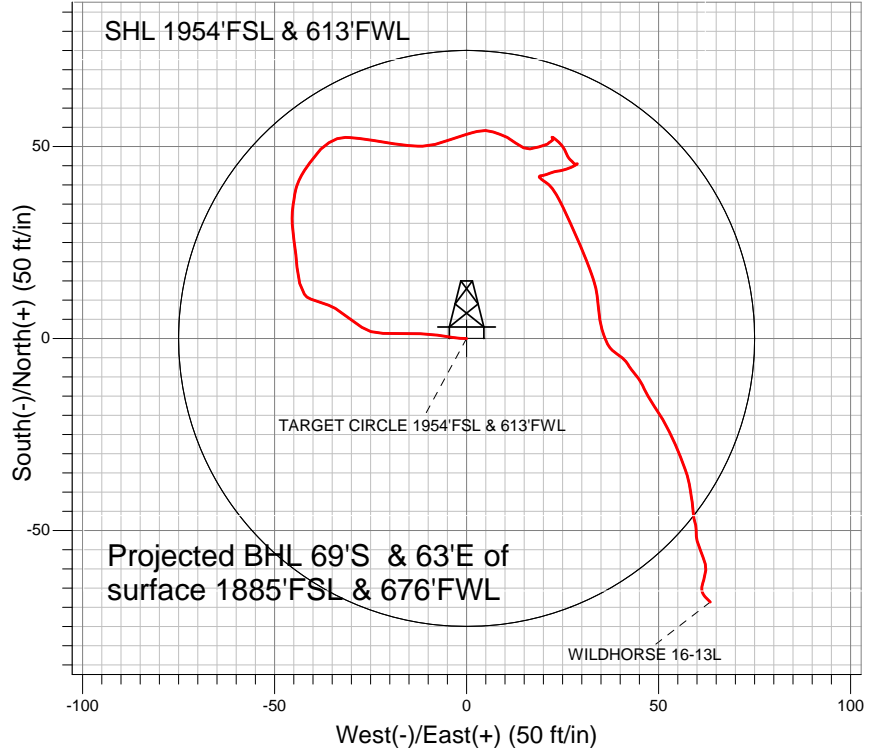
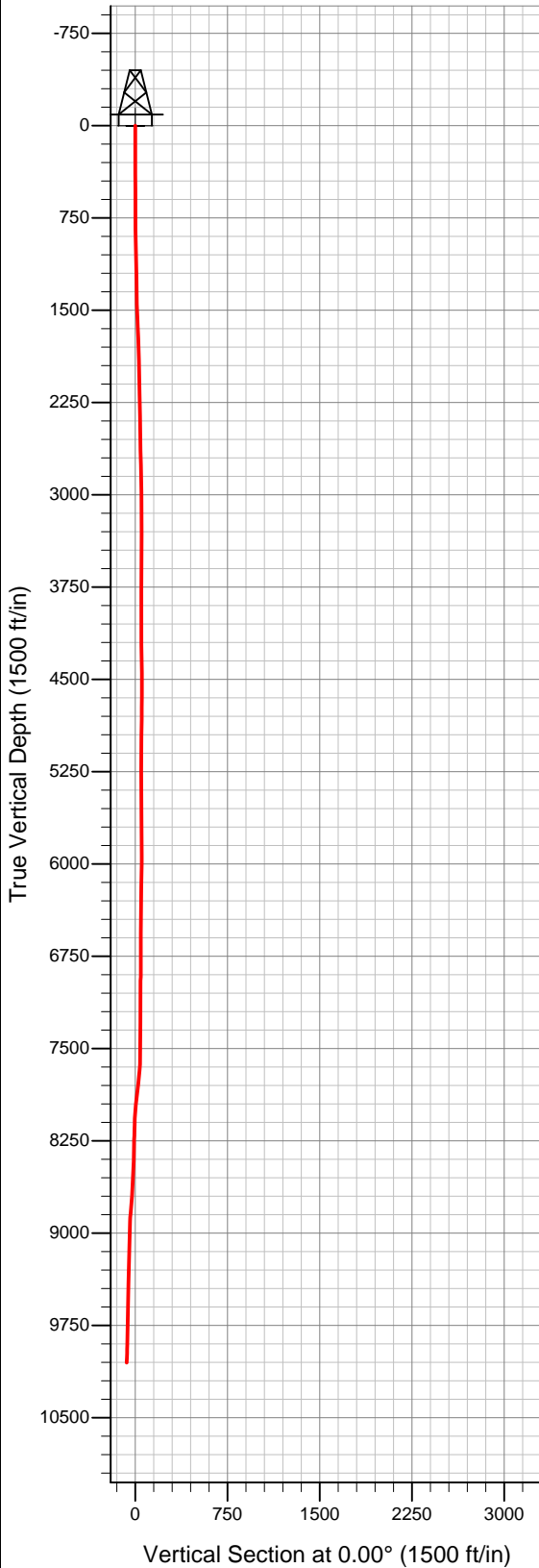
Surface Location: Wildhorse 16-13L Pad Sec.16-T9N-R59W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 5054.6

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1519108.98	3418262.45	40.748569	-103.990381	

RKB-17.3' WELL @ 5071.9ft (RKB-17.3')

Whiting Oil & Gas



LEGEND

- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
10060'MD & 10053'TVD @
-69' VS 2.20 deg Inc 130.00
deg AZ

Project: SEC.16-T9N-R59W
Site: Wildhorse 16-13L Pad Sec.16-T9N-R59W
Well: WILDHORSE 16-13L
Plan: Wellbore #1



Whiting Oil & Gas

SEC.16-T9N-R59W

Wildhorse 16-13L Pad Sec.16-T9N-R59W

WILDHORSE 16-13L

Wellbore #1

Survey: Survey #1

Standard Survey Report

09 July, 2013

Company:	Whiting Oil & Gas	Local Co-ordinate Reference:	Well WILDHORSE 16-13L
Project:	SEC.16-T9N-R59W	TVD Reference:	WELL @ 5071.9ft (RKB-17.3')
Site:	Wildhorse 16-13L Pad Sec.16-T9N-R59W	MD Reference:	WELL @ 5071.9ft (RKB-17.3')
Well:	WILDHORSE 16-13L	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.16-T9N-R59W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site		Wildhorse 16-13L Pad Sec.16-T9N-R59W			
Site Position:		Northing:	1,519,109.00ft	Latitude:	40.748569
From:	Lat/Long	Easting:	3,418,262.45ft	Longitude:	-103.990381
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.98 °

Well	WILDHORSE 16-13L					
Well Position	+N/-S	0.0 ft	Northing:	1,519,108.98 ft	Latitude:	40.748569
	+E/-W	0.0 ft	Easting:	3,418,262.45 ft	Longitude:	-103.990381
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,054.6 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/30/2013	8.20	67.39	53,184

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	0.00	

Survey Program	Date	7/9/2013			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
188.0	10,060.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
1.0	0.01	271.70	1.0	0.0	0.0	0.0	0.53	0.53	0.00	
TARGET CIRCLE 1954'FSL & 613'FWL										
188.0	1.00	271.70	188.0	0.0	-1.6	0.0	0.53	0.53	0.00	
275.0	1.80	278.60	275.0	0.3	-3.7	0.3	0.94	0.92	7.93	
395.0	1.90	279.10	394.9	0.9	-7.6	0.9	0.08	0.08	0.42	
518.0	2.30	271.70	517.8	1.3	-12.1	1.3	0.39	0.33	-6.02	
639.0	2.80	269.10	638.7	1.3	-17.4	1.3	0.42	0.41	-2.15	
730.0	2.60	272.00	729.6	1.3	-21.7	1.3	0.27	-0.22	3.19	
885.0	1.90	305.80	884.5	3.0	-27.3	3.0	0.95	-0.45	21.81	
979.0	2.60	305.10	978.4	5.1	-30.3	5.1	0.75	0.74	-0.74	
1,105.0	1.70	307.00	1,104.3	7.9	-34.2	7.9	0.72	-0.71	1.51	
1,168.0	1.90	286.10	1,167.3	8.7	-35.9	8.7	1.08	0.32	-33.17	

Company:	Whiting Oil & Gas	Local Co-ordinate Reference:	Well WILDHORSE 16-13L
Project:	SEC.16-T9N-R59W	TVD Reference:	WELL @ 5071.9ft (RKB-17.3')
Site:	Wildhorse 16-13L Pad Sec.16-T9N-R59W	MD Reference:	WELL @ 5071.9ft (RKB-17.3')
Well:	WILDHORSE 16-13L	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,295.0	2.50	290.00	1,294.2	10.2	-40.5	10.2	0.49	0.47	3.07
1,358.0	1.70	333.40	1,357.2	11.6	-42.2	11.6	2.73	-1.27	68.89
1,453.0	2.00	340.10	1,452.1	14.4	-43.4	14.4	0.39	0.32	7.05
1,565.0	2.40	358.40	1,564.0	18.6	-44.2	18.6	0.72	0.36	16.34
1,638.0	2.70	352.90	1,637.0	21.8	-44.4	21.8	0.53	0.41	-7.53
1,702.0	2.30	351.90	1,700.9	24.6	-44.8	24.6	0.63	-0.63	-1.56
1,797.0	1.60	352.20	1,795.8	27.8	-45.2	27.8	0.74	-0.74	0.32
1,892.0	1.20	1.50	1,890.8	30.1	-45.4	30.1	0.48	-0.42	9.79
1,987.0	1.10	357.00	1,985.8	32.0	-45.4	32.0	0.14	-0.11	-4.74
2,081.0	1.20	9.80	2,079.8	33.8	-45.3	33.8	0.29	0.11	13.62
2,175.0	1.30	7.70	2,173.7	35.9	-45.0	35.9	0.12	0.11	-2.23
2,270.0	0.80	10.10	2,268.7	37.6	-44.7	37.6	0.53	-0.53	2.53
2,363.0	0.90	14.00	2,361.7	38.9	-44.4	38.9	0.12	0.11	4.19
2,456.0	0.80	20.50	2,454.7	40.3	-44.0	40.3	0.15	-0.11	6.99
2,550.0	1.00	23.10	2,548.7	41.6	-43.5	41.6	0.22	0.21	2.77
2,644.0	1.40	36.30	2,642.7	43.3	-42.5	43.3	0.51	0.43	14.04
2,739.0	1.40	33.70	2,737.7	45.2	-41.1	45.2	0.07	0.00	-2.74
2,834.0	1.70	35.30	2,832.6	47.3	-39.7	47.3	0.32	0.32	1.68
2,931.0	1.50	46.90	2,929.6	49.4	-37.9	49.4	0.39	-0.21	11.96
3,026.0	1.70	55.50	3,024.5	51.0	-35.9	51.0	0.33	0.21	9.05
3,120.0	1.30	75.70	3,118.5	52.1	-33.7	52.1	0.70	-0.43	21.49
3,215.0	1.30	85.50	3,213.5	52.4	-31.6	52.4	0.23	0.00	10.32
3,310.0	1.20	102.90	3,308.5	52.3	-29.5	52.3	0.41	-0.11	18.32
3,405.0	1.10	94.90	3,403.4	52.0	-27.6	52.0	0.20	-0.11	-8.42
3,499.0	1.00	95.70	3,497.4	51.8	-25.9	51.8	0.11	-0.11	0.85
3,594.0	1.40	99.10	3,592.4	51.5	-24.0	51.5	0.43	0.42	3.58
3,689.0	1.50	97.00	3,687.4	51.2	-21.6	51.2	0.12	0.11	-2.21
3,784.0	1.80	101.70	3,782.3	50.8	-18.9	50.8	0.35	0.32	4.95
3,880.0	1.30	96.40	3,878.3	50.3	-16.3	50.3	0.54	-0.52	-5.52
3,975.0	1.50	92.40	3,973.3	50.2	-14.0	50.2	0.23	0.21	-4.21
4,070.0	1.60	91.50	4,068.2	50.1	-11.4	50.1	0.11	0.11	-0.95
4,165.0	2.40	75.30	4,163.2	50.5	-8.2	50.5	1.02	0.84	-17.05
4,260.0	2.60	69.00	4,258.1	51.8	-4.3	51.8	0.36	0.21	-6.63
4,355.0	2.40	74.80	4,353.0	53.1	-0.3	53.1	0.34	-0.21	6.11
4,450.0	1.40	73.40	4,447.9	54.0	2.7	54.0	1.05	-1.05	-1.47
4,545.0	1.30	95.40	4,542.9	54.2	4.9	54.2	0.55	-0.11	23.16
4,639.0	1.20	109.10	4,636.9	53.8	6.9	53.8	0.33	-0.11	14.57
4,734.0	1.10	106.30	4,731.9	53.2	8.7	53.2	0.12	-0.11	-2.95
4,829.0	1.40	118.20	4,826.9	52.4	10.6	52.4	0.42	0.32	12.53
4,924.0	1.70	128.30	4,921.8	51.0	12.7	51.0	0.43	0.32	10.63
5,017.0	1.40	112.30	5,014.8	49.7	14.9	49.7	0.56	-0.32	-17.20
5,112.0	0.70	76.10	5,109.8	49.4	16.5	49.4	0.98	-0.74	-38.11
5,206.0	0.60	76.10	5,203.8	49.6	17.5	49.6	0.11	-0.11	0.00
5,302.0	0.90	77.80	5,299.8	49.9	18.8	49.9	0.31	0.31	1.77
5,491.0	0.50	62.00	5,488.7	50.6	20.9	50.6	0.23	-0.21	-8.36
5,523.0	0.50	57.10	5,520.7	50.8	21.2	50.8	0.13	0.00	-15.31
5,555.0	0.80	50.90	5,552.7	51.0	21.5	51.0	0.96	0.94	-19.38
5,586.0	0.50	52.80	5,583.7	51.2	21.7	51.2	0.97	-0.97	6.13
5,618.0	0.40	55.80	5,615.7	51.3	21.9	51.3	0.32	-0.31	9.38
5,650.0	0.40	52.10	5,647.7	51.5	22.1	51.5	0.08	0.00	-11.56
5,681.0	0.40	56.70	5,678.7	51.6	22.3	51.6	0.10	0.00	14.84
5,713.0	0.40	38.80	5,710.7	51.7	22.5	51.7	0.39	0.00	-55.94
5,744.0	0.30	0.50	5,741.7	51.9	22.5	51.9	0.80	-0.32	-123.55
5,776.0	0.40	327.80	5,773.7	52.1	22.5	52.1	0.68	0.31	-102.19

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Well:	WILDHORSE 16-13L	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,808.0	0.40	327.60	5,805.7	52.3	22.4	52.3	0.00	0.00	-0.63
5,839.0	0.20	320.70	5,836.7	52.4	22.3	52.4	0.65	-0.65	-22.26
5,871.0	0.10	101.90	5,868.7	52.4	22.3	52.4	0.89	-0.31	441.25
5,902.0	0.30	108.20	5,899.7	52.4	22.4	52.4	0.65	0.65	20.32
5,934.0	0.40	124.70	5,931.7	52.3	22.5	52.3	0.44	0.31	51.56
5,965.0	0.40	124.40	5,962.7	52.2	22.7	52.2	0.01	0.00	-0.97
5,997.0	0.60	123.90	5,994.7	52.0	22.9	52.0	0.63	0.63	-1.56
6,028.0	0.70	131.60	6,025.7	51.8	23.2	51.8	0.43	0.32	24.84
6,060.0	0.80	130.70	6,057.7	51.6	23.5	51.6	0.31	0.31	-2.81
6,100.0	0.90	133.90	6,097.7	51.2	24.0	51.2	0.28	0.25	8.00
6,150.0	1.10	134.00	6,147.7	50.6	24.6	50.6	0.40	0.40	0.20
6,224.0	0.80	158.00	6,221.7	49.6	25.3	49.6	0.66	-0.41	32.43
6,255.0	1.10	150.80	6,252.7	49.1	25.5	49.1	1.04	0.97	-23.23
6,287.0	1.00	157.30	6,284.7	48.6	25.8	48.6	0.49	-0.31	20.31
6,318.0	1.30	153.20	6,315.7	48.0	26.1	48.0	1.00	0.97	-13.23
6,350.0	1.10	149.50	6,347.7	47.4	26.4	47.4	0.67	-0.63	-11.56
6,381.0	1.00	149.70	6,378.7	47.0	26.7	47.0	0.32	-0.32	0.65
6,413.0	0.90	131.80	6,410.7	46.5	27.0	46.5	0.97	-0.31	-55.94
6,454.0	0.80	134.20	6,451.7	46.1	27.4	46.1	0.26	-0.24	5.85
6,504.0	0.70	135.00	6,501.7	45.7	27.9	45.7	0.20	-0.20	1.60
6,540.0	0.10	144.30	6,537.7	45.5	28.1	45.5	1.67	-1.67	25.83
6,571.0	0.20	133.50	6,568.7	45.4	28.1	45.4	0.33	0.32	-34.84
6,603.0	0.30	81.70	6,600.7	45.4	28.3	45.4	0.74	0.31	-161.88
6,635.0	0.20	81.90	6,632.7	45.4	28.4	45.4	0.31	-0.31	0.63
6,667.0	0.30	89.10	6,664.7	45.4	28.5	45.4	0.33	0.31	22.50
6,698.0	0.30	71.50	6,695.7	45.5	28.7	45.5	0.30	0.00	-56.77
6,730.0	0.20	86.60	6,727.7	45.5	28.8	45.5	0.37	-0.31	47.19
6,762.0	0.10	276.80	6,759.7	45.5	28.8	45.5	0.93	-0.31	-530.63
6,793.0	0.40	224.40	6,790.7	45.4	28.7	45.4	1.12	0.97	-169.03
6,825.0	0.50	239.50	6,822.7	45.3	28.5	45.3	0.48	0.31	47.19
6,856.0	0.80	246.30	6,853.7	45.1	28.2	45.1	1.00	0.97	21.94
6,888.0	1.00	237.40	6,885.7	44.9	27.8	44.9	0.76	0.63	-27.81
6,920.0	1.10	246.70	6,917.6	44.6	27.3	44.6	0.62	0.31	29.06
6,951.0	1.20	255.00	6,948.6	44.4	26.7	44.4	0.63	0.32	26.77
6,983.0	1.50	246.70	6,980.6	44.1	26.0	44.1	1.12	0.94	-25.94
7,015.0	1.60	255.90	7,012.6	43.9	25.2	43.9	0.84	0.31	28.75
7,046.0	1.60	262.20	7,043.6	43.7	24.3	43.7	0.57	0.00	20.32
7,078.0	1.70	260.10	7,075.6	43.6	23.4	43.6	0.37	0.31	-6.56
7,109.0	1.60	251.10	7,106.6	43.3	22.5	43.3	0.89	-0.32	-29.03
7,141.0	1.30	252.40	7,138.6	43.1	21.8	43.1	0.94	-0.94	4.06
7,173.0	1.10	246.90	7,170.6	42.9	21.1	42.9	0.72	-0.63	-17.19
7,204.0	1.00	253.10	7,201.6	42.7	20.6	42.7	0.49	-0.32	20.00
7,236.0	0.90	259.00	7,233.6	42.5	20.1	42.5	0.44	-0.31	18.44
7,268.0	0.80	260.30	7,265.6	42.5	19.6	42.5	0.32	-0.31	4.06
7,299.0	0.60	260.40	7,296.5	42.4	19.3	42.4	0.65	-0.65	0.32
7,321.0	0.40	233.60	7,318.5	42.3	19.1	42.3	1.38	-0.91	-121.82
7,363.0	0.30	202.30	7,360.5	42.1	18.9	42.1	0.50	-0.24	-74.52
7,394.0	0.50	141.40	7,391.5	42.0	19.0	42.0	1.42	0.65	-196.45
7,426.0	0.70	130.00	7,423.5	41.7	19.2	41.7	0.72	0.63	-35.63
7,458.0	0.90	123.30	7,455.5	41.5	19.6	41.5	0.69	0.63	-20.94
7,552.0	1.20	127.70	7,549.5	40.4	21.0	40.4	0.33	0.32	4.68
7,584.0	1.50	135.10	7,581.5	39.9	21.5	39.9	1.08	0.94	23.13
7,615.0	2.00	139.70	7,612.5	39.2	22.2	39.2	1.67	1.61	14.84
7,647.0	3.10	148.10	7,644.5	38.1	23.0	38.1	3.62	3.44	26.25

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7,679.0	4.10	151.60	7,676.4	36.3	24.0	36.3	3.20	3.13	10.94	
7,710.0	5.50	154.10	7,707.3	34.0	25.2	34.0	4.57	4.52	8.06	
7,742.0	6.90	155.20	7,739.1	30.9	26.6	30.9	4.39	4.38	3.44	
7,774.0	8.20	156.20	7,770.8	27.1	28.4	27.1	4.08	4.06	3.13	
7,805.0	9.10	157.80	7,801.5	22.8	30.2	22.8	3.00	2.90	5.16	
7,837.0	8.40	158.80	7,833.1	18.3	32.0	18.3	2.24	-2.19	3.13	
7,868.0	6.00	164.30	7,863.9	14.6	33.2	14.6	8.05	-7.74	17.74	
7,900.0	5.10	171.50	7,895.7	11.6	33.9	11.6	3.55	-2.81	22.50	
7,932.0	5.50	173.60	7,927.6	8.6	34.3	8.6	1.39	1.25	6.56	
7,963.0	5.70	174.00	7,958.4	5.6	34.6	5.6	0.66	0.65	1.29	
7,995.0	5.60	162.70	7,990.3	2.6	35.2	2.6	3.48	-0.31	-35.31	
8,026.0	5.20	160.30	8,021.1	-0.2	36.2	-0.2	1.48	-1.29	-7.74	
8,058.0	4.00	140.40	8,053.0	-2.4	37.4	-2.4	6.19	-3.75	-62.19	
8,089.0	3.30	123.30	8,084.0	-3.7	38.8	-3.7	4.15	-2.26	-55.16	
8,100.0	3.10	123.20	8,095.0	-4.1	39.3	-4.1	1.82	-1.82	-0.91	
8,156.0	1.90	143.90	8,150.9	-5.7	41.1	-5.7	2.65	-2.14	36.96	
8,216.0	1.80	142.30	8,210.9	-7.2	42.3	-7.2	0.19	-0.17	-2.67	
8,248.0	1.90	142.50	8,242.9	-8.0	42.9	-8.0	0.31	0.31	0.63	
8,279.0	1.90	143.20	8,273.8	-8.9	43.5	-8.9	0.07	0.00	2.26	
8,310.0	1.80	141.30	8,304.8	-9.6	44.2	-9.6	0.38	-0.32	-6.13	
8,342.0	1.90	143.60	8,336.8	-10.5	44.8	-10.5	0.39	0.31	7.19	
8,373.0	1.90	150.60	8,367.8	-11.3	45.3	-11.3	0.75	0.00	22.58	
8,404.0	1.90	149.90	8,398.8	-12.2	45.9	-12.2	0.07	0.00	-2.26	
8,436.0	2.10	156.00	8,430.7	-13.2	46.4	-13.2	0.91	0.63	19.06	
8,467.0	2.30	153.70	8,461.7	-14.3	46.9	-14.3	0.71	0.65	-7.42	
8,499.0	2.30	147.60	8,493.7	-15.4	47.5	-15.4	0.76	0.00	-19.06	
8,530.0	2.90	148.80	8,524.7	-16.6	48.2	-16.6	1.94	1.94	3.87	
8,562.0	3.10	147.60	8,556.6	-18.0	49.1	-18.0	0.66	0.63	-3.75	
8,593.0	3.30	146.20	8,587.6	-19.5	50.1	-19.5	0.69	0.65	-4.52	
8,625.0	3.50	148.50	8,619.5	-21.1	51.1	-21.1	0.76	0.63	7.19	
8,656.0	4.00	152.90	8,650.5	-22.8	52.1	-22.8	1.86	1.61	14.19	
8,688.0	4.30	153.20	8,682.4	-24.9	53.1	-24.9	0.94	0.94	0.94	
8,720.0	4.80	157.30	8,714.3	-27.2	54.2	-27.2	1.86	1.56	12.81	
8,751.0	5.50	158.00	8,745.1	-29.8	55.2	-29.8	2.27	2.26	2.26	
8,782.0	6.20	158.30	8,776.0	-32.7	56.4	-32.7	2.26	2.26	0.97	
8,814.0	5.00	163.80	8,807.8	-35.7	57.4	-35.7	4.10	-3.75	17.19	
8,845.0	3.50	170.10	8,838.7	-37.9	58.0	-37.9	5.06	-4.84	20.32	
8,877.0	2.90	168.50	8,870.7	-39.6	58.3	-39.6	1.90	-1.88	-5.00	
8,908.0	2.40	176.40	8,901.7	-41.1	58.5	-41.1	1.99	-1.61	25.48	
8,940.0	2.10	172.00	8,933.6	-42.3	58.6	-42.3	1.08	-0.94	-13.75	
8,972.0	1.70	164.60	8,965.6	-43.4	58.8	-43.4	1.46	-1.25	-23.13	
9,003.0	1.50	178.20	8,996.6	-44.2	59.0	-44.2	1.38	-0.65	43.87	
9,035.0	1.60	178.50	9,028.6	-45.1	59.0	-45.1	0.31	0.31	0.94	
9,067.0	1.60	176.10	9,060.6	-46.0	59.0	-46.0	0.21	0.00	-7.50	
9,099.0	1.60	164.10	9,092.6	-46.8	59.2	-46.8	1.05	0.00	-37.50	
9,130.0	1.70	165.70	9,123.6	-47.7	59.4	-47.7	0.36	0.32	5.16	
9,162.0	1.60	165.30	9,155.5	-48.6	59.7	-48.6	0.31	-0.31	-1.25	
9,193.0	1.50	180.50	9,186.5	-49.4	59.8	-49.4	1.36	-0.32	49.03	
9,225.0	1.80	177.50	9,218.5	-50.3	59.8	-50.3	0.98	0.94	-9.38	
9,256.0	1.60	177.30	9,249.5	-51.3	59.8	-51.3	0.65	-0.65	-0.65	
9,288.0	1.30	171.90	9,281.5	-52.1	59.9	-52.1	1.03	-0.94	-16.88	
9,300.0	1.20	166.40	9,293.5	-52.3	59.9	-52.3	1.30	-0.83	-45.83	
9,350.0	1.20	161.00	9,343.5	-53.3	60.2	-53.3	0.23	0.00	-10.80	
9,445.0	1.20	158.50	9,438.5	-55.2	60.9	-55.2	0.06	0.00	-2.63	

Company:	Whiting Oil & Gas	Local Co-ordinate Reference:	Well WILDHORSE 16-13L
Project:	SEC.16-T9N-R59W	TVD Reference:	WELL @ 5071.9ft (RKB-17.3')
Site:	Wildhorse 16-13L Pad Sec.16-T9N-R59W	MD Reference:	WELL @ 5071.9ft (RKB-17.3')
Well:	WILDHORSE 16-13L	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
9,539.0	1.20	160.00	9,532.4	-57.0	61.6	-57.0	0.03	0.00	1.60	
9,634.0	1.00	165.70	9,627.4	-58.8	62.2	-58.8	0.24	-0.21	6.00	
9,729.0	0.90	187.10	9,722.4	-60.3	62.3	-60.3	0.39	-0.11	22.53	
9,856.0	1.50	194.40	9,849.4	-62.9	61.7	-62.9	0.49	0.47	5.75	
9,887.0	1.60	196.80	9,880.4	-63.7	61.5	-63.7	0.38	0.32	7.74	
9,919.0	1.60	189.30	9,912.4	-64.6	61.3	-64.6	0.65	0.00	-23.44	
9,951.0	1.60	177.50	9,944.3	-65.5	61.3	-65.5	1.03	0.00	-36.88	
9,982.0	2.00	152.50	9,975.3	-66.4	61.5	-66.4	2.81	1.29	-80.65	
10,015.0	2.20	139.20	10,008.3	-67.4	62.2	-67.4	1.59	0.61	-40.30	
10,060.0	2.20	130.00	10,053.3	-68.6	63.4	-68.6	0.78	0.00	-20.44	

Checked By: _____	Approved By: _____	Date: _____
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