

Whiting Oil & Gas

Well Name: **Wildhorse #05-0514H**

Surface Location: Wildhorse #05-0514H Pad Sec.5-T9N-R59W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

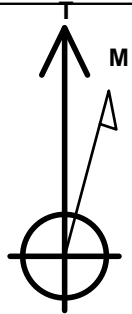
Ground Elevation: 5139.5

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1532580.07	3412993.15	40.785783	-104.008578	

Original Well Elev WELL @ 5154.5ft (Original Well Elev)

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
BHL HARDLINE 660'FSL	1.0	-4251.4	-717.7	Polygon
SHL HARDLINE 660'FNL	1.0	-340.0	-500.0	Polygon
BHL 660'FSL, 655'FWL	6397.0	-4251.4	-217.7	Point



Azimuths to True North
Magnetic North: 8.43°

Magnetic Field
Strength: 53364.7srT
Dip Angle: 67.47°
Date: 11/14/2011
Model: IGRF2010

Wildhorse #05-0514H Pad Sec.5-T9N-R59W
Wildhorse #05-0514H
Plan #1 (11-14-11)
15:22, November 14 2011

ANNOTATIONS

TVD	MD	Annotation
5876.1	5876.1	KOP
6397.0	6694.3	End of Build

South(-)/North(+) (1500 ft/in)

SHL 320'FNL,
780'FWL

Wildhorse #05-0514H

SHL HARDLINE 660'FNL

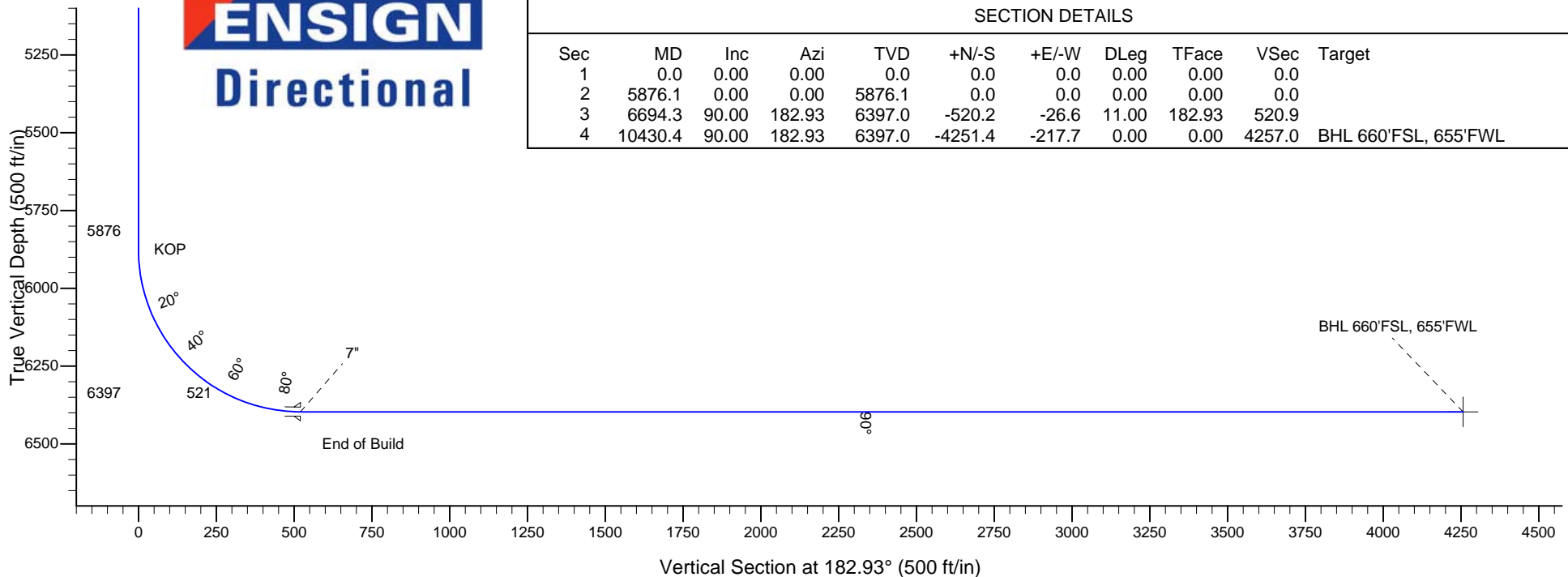
7"

Casing Pt.
840'FNL, 753'FWL

BHL 660'FSL, 655'FWL

BHL HARDLINE 660'FSL

West(-)/East(+) (1500 ft/in)





Whiting Oil & Gas

SEC.5-T9N-R59W

Wildhorse #05-0514H Pad Sec.5-T9N-R59W

Wildhorse #05-0514H

Wellbore #1

Plan: Plan #1 (11-14-11)

Standard Planning Report

14 November, 2011

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,876.1	0.00	0.00	5,876.1	0.0	0.0	0.00	0.00	0.00	0.00	
6,694.3	90.00	182.93	6,397.0	-520.2	-26.6	11.00	11.00	0.00	182.93	
10,430.4	90.00	182.93	6,397.0	-4,251.4	-217.7	0.00	0.00	0.00	0.00	BHL 660'FSL, 655'

Database:	Landmark	Local Co-ordinate Reference:	Well Wildhorse #05-0514H
Company:	Whiting Oil & Gas	TVD Reference:	WELL @ 5154.5ft (Original Well Elev)
Project:	SEC.5-T9N-R59W	MD Reference:	WELL @ 5154.5ft (Original Well Elev)
Site:	Wildhorse #05-0514H Pad Sec.5-T9N-R59W	North Reference:	True
Well:	Wildhorse #05-0514H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-14-11)		

Planned 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	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
BHL HARDLINE 660'FSL - SHL HARDLINE 660'FNL									
40.0	0.00	0.00	40.0	0.0	0.0	0.0	0.00	0.00	0.00
80.0	0.00	0.00	80.0	0.0	0.0	0.0	0.00	0.00	0.00
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	0.00
160.0	0.00	0.00	160.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
240.0	0.00	0.00	240.0	0.0	0.0	0.0	0.00	0.00	0.00
280.0	0.00	0.00	280.0	0.0	0.0	0.0	0.00	0.00	0.00
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
360.0	0.00	0.00	360.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
440.0	0.00	0.00	440.0	0.0	0.0	0.0	0.00	0.00	0.00
480.0	0.00	0.00	480.0	0.0	0.0	0.0	0.00	0.00	0.00
520.0	0.00	0.00	520.0	0.0	0.0	0.0	0.00	0.00	0.00
560.0	0.00	0.00	560.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
640.0	0.00	0.00	640.0	0.0	0.0	0.0	0.00	0.00	0.00
680.0	0.00	0.00	680.0	0.0	0.0	0.0	0.00	0.00	0.00
720.0	0.00	0.00	720.0	0.0	0.0	0.0	0.00	0.00	0.00
760.0	0.00	0.00	760.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
840.0	0.00	0.00	840.0	0.0	0.0	0.0	0.00	0.00	0.00
880.0	0.00	0.00	880.0	0.0	0.0	0.0	0.00	0.00	0.00
920.0	0.00	0.00	920.0	0.0	0.0	0.0	0.00	0.00	0.00
960.0	0.00	0.00	960.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,040.0	0.00	0.00	1,040.0	0.0	0.0	0.0	0.00	0.00	0.00
1,080.0	0.00	0.00	1,080.0	0.0	0.0	0.0	0.00	0.00	0.00
1,120.0	0.00	0.00	1,120.0	0.0	0.0	0.0	0.00	0.00	0.00
1,160.0	0.00	0.00	1,160.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,240.0	0.00	0.00	1,240.0	0.0	0.0	0.0	0.00	0.00	0.00
1,280.0	0.00	0.00	1,280.0	0.0	0.0	0.0	0.00	0.00	0.00
1,320.0	0.00	0.00	1,320.0	0.0	0.0	0.0	0.00	0.00	0.00
1,360.0	0.00	0.00	1,360.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,440.0	0.00	0.00	1,440.0	0.0	0.0	0.0	0.00	0.00	0.00
1,480.0	0.00	0.00	1,480.0	0.0	0.0	0.0	0.00	0.00	0.00
1,520.0	0.00	0.00	1,520.0	0.0	0.0	0.0	0.00	0.00	0.00
1,560.0	0.00	0.00	1,560.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,640.0	0.00	0.00	1,640.0	0.0	0.0	0.0	0.00	0.00	0.00
1,680.0	0.00	0.00	1,680.0	0.0	0.0	0.0	0.00	0.00	0.00
1,720.0	0.00	0.00	1,720.0	0.0	0.0	0.0	0.00	0.00	0.00
1,760.0	0.00	0.00	1,760.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,840.0	0.00	0.00	1,840.0	0.0	0.0	0.0	0.00	0.00	0.00
1,880.0	0.00	0.00	1,880.0	0.0	0.0	0.0	0.00	0.00	0.00
1,920.0	0.00	0.00	1,920.0	0.0	0.0	0.0	0.00	0.00	0.00
1,960.0	0.00	0.00	1,960.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,040.0	0.00	0.00	2,040.0	0.0	0.0	0.0	0.00	0.00	0.00

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Well:	Wildhorse #05-0514H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-14-11)		

Planned 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)
2,080.0	0.00	0.00	2,080.0	0.0	0.0	0.0	0.00	0.00	0.00
2,120.0	0.00	0.00	2,120.0	0.0	0.0	0.0	0.00	0.00	0.00
2,160.0	0.00	0.00	2,160.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,240.0	0.00	0.00	2,240.0	0.0	0.0	0.0	0.00	0.00	0.00
2,280.0	0.00	0.00	2,280.0	0.0	0.0	0.0	0.00	0.00	0.00
2,320.0	0.00	0.00	2,320.0	0.0	0.0	0.0	0.00	0.00	0.00
2,360.0	0.00	0.00	2,360.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,440.0	0.00	0.00	2,440.0	0.0	0.0	0.0	0.00	0.00	0.00
2,480.0	0.00	0.00	2,480.0	0.0	0.0	0.0	0.00	0.00	0.00
2,520.0	0.00	0.00	2,520.0	0.0	0.0	0.0	0.00	0.00	0.00
2,560.0	0.00	0.00	2,560.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,640.0	0.00	0.00	2,640.0	0.0	0.0	0.0	0.00	0.00	0.00
2,680.0	0.00	0.00	2,680.0	0.0	0.0	0.0	0.00	0.00	0.00
2,720.0	0.00	0.00	2,720.0	0.0	0.0	0.0	0.00	0.00	0.00
2,760.0	0.00	0.00	2,760.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,840.0	0.00	0.00	2,840.0	0.0	0.0	0.0	0.00	0.00	0.00
2,880.0	0.00	0.00	2,880.0	0.0	0.0	0.0	0.00	0.00	0.00
2,920.0	0.00	0.00	2,920.0	0.0	0.0	0.0	0.00	0.00	0.00
2,960.0	0.00	0.00	2,960.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,040.0	0.00	0.00	3,040.0	0.0	0.0	0.0	0.00	0.00	0.00
3,080.0	0.00	0.00	3,080.0	0.0	0.0	0.0	0.00	0.00	0.00
3,120.0	0.00	0.00	3,120.0	0.0	0.0	0.0	0.00	0.00	0.00
3,160.0	0.00	0.00	3,160.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,240.0	0.00	0.00	3,240.0	0.0	0.0	0.0	0.00	0.00	0.00
3,280.0	0.00	0.00	3,280.0	0.0	0.0	0.0	0.00	0.00	0.00
3,320.0	0.00	0.00	3,320.0	0.0	0.0	0.0	0.00	0.00	0.00
3,360.0	0.00	0.00	3,360.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,440.0	0.00	0.00	3,440.0	0.0	0.0	0.0	0.00	0.00	0.00
3,480.0	0.00	0.00	3,480.0	0.0	0.0	0.0	0.00	0.00	0.00
3,520.0	0.00	0.00	3,520.0	0.0	0.0	0.0	0.00	0.00	0.00
3,560.0	0.00	0.00	3,560.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,640.0	0.00	0.00	3,640.0	0.0	0.0	0.0	0.00	0.00	0.00
3,680.0	0.00	0.00	3,680.0	0.0	0.0	0.0	0.00	0.00	0.00
3,720.0	0.00	0.00	3,720.0	0.0	0.0	0.0	0.00	0.00	0.00
3,760.0	0.00	0.00	3,760.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,840.0	0.00	0.00	3,840.0	0.0	0.0	0.0	0.00	0.00	0.00
3,880.0	0.00	0.00	3,880.0	0.0	0.0	0.0	0.00	0.00	0.00
3,920.0	0.00	0.00	3,920.0	0.0	0.0	0.0	0.00	0.00	0.00
3,960.0	0.00	0.00	3,960.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,040.0	0.00	0.00	4,040.0	0.0	0.0	0.0	0.00	0.00	0.00
4,080.0	0.00	0.00	4,080.0	0.0	0.0	0.0	0.00	0.00	0.00
4,120.0	0.00	0.00	4,120.0	0.0	0.0	0.0	0.00	0.00	0.00
4,160.0	0.00	0.00	4,160.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00

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Wellbore:	Wellbore #1		
Design:	Plan #1 (11-14-11)		

Planned 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)
4,240.0	0.00	0.00	4,240.0	0.0	0.0	0.0	0.00	0.00	0.00
4,280.0	0.00	0.00	4,280.0	0.0	0.0	0.0	0.00	0.00	0.00
4,320.0	0.00	0.00	4,320.0	0.0	0.0	0.0	0.00	0.00	0.00
4,360.0	0.00	0.00	4,360.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,440.0	0.00	0.00	4,440.0	0.0	0.0	0.0	0.00	0.00	0.00
4,480.0	0.00	0.00	4,480.0	0.0	0.0	0.0	0.00	0.00	0.00
4,520.0	0.00	0.00	4,520.0	0.0	0.0	0.0	0.00	0.00	0.00
4,560.0	0.00	0.00	4,560.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,640.0	0.00	0.00	4,640.0	0.0	0.0	0.0	0.00	0.00	0.00
4,680.0	0.00	0.00	4,680.0	0.0	0.0	0.0	0.00	0.00	0.00
4,720.0	0.00	0.00	4,720.0	0.0	0.0	0.0	0.00	0.00	0.00
4,760.0	0.00	0.00	4,760.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,840.0	0.00	0.00	4,840.0	0.0	0.0	0.0	0.00	0.00	0.00
4,880.0	0.00	0.00	4,880.0	0.0	0.0	0.0	0.00	0.00	0.00
4,920.0	0.00	0.00	4,920.0	0.0	0.0	0.0	0.00	0.00	0.00
4,960.0	0.00	0.00	4,960.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,040.0	0.00	0.00	5,040.0	0.0	0.0	0.0	0.00	0.00	0.00
5,080.0	0.00	0.00	5,080.0	0.0	0.0	0.0	0.00	0.00	0.00
5,120.0	0.00	0.00	5,120.0	0.0	0.0	0.0	0.00	0.00	0.00
5,160.0	0.00	0.00	5,160.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,240.0	0.00	0.00	5,240.0	0.0	0.0	0.0	0.00	0.00	0.00
5,280.0	0.00	0.00	5,280.0	0.0	0.0	0.0	0.00	0.00	0.00
5,320.0	0.00	0.00	5,320.0	0.0	0.0	0.0	0.00	0.00	0.00
5,360.0	0.00	0.00	5,360.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,440.0	0.00	0.00	5,440.0	0.0	0.0	0.0	0.00	0.00	0.00
5,480.0	0.00	0.00	5,480.0	0.0	0.0	0.0	0.00	0.00	0.00
5,520.0	0.00	0.00	5,520.0	0.0	0.0	0.0	0.00	0.00	0.00
5,560.0	0.00	0.00	5,560.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,640.0	0.00	0.00	5,640.0	0.0	0.0	0.0	0.00	0.00	0.00
5,680.0	0.00	0.00	5,680.0	0.0	0.0	0.0	0.00	0.00	0.00
5,720.0	0.00	0.00	5,720.0	0.0	0.0	0.0	0.00	0.00	0.00
5,760.0	0.00	0.00	5,760.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,840.0	0.00	0.00	5,840.0	0.0	0.0	0.0	0.00	0.00	0.00
5,876.1	0.00	0.00	5,876.1	0.0	0.0	0.0	0.00	0.00	0.00
KOP									
5,880.0	0.43	182.93	5,880.0	0.0	0.0	0.0	10.92	10.92	0.00
5,920.0	4.83	182.93	5,919.9	-1.8	-0.1	1.8	11.00	11.00	0.00
5,960.0	9.23	182.93	5,959.6	-6.7	-0.3	6.7	11.00	11.00	0.00
6,000.0	13.63	182.93	5,998.8	-14.6	-0.7	14.7	11.00	11.00	0.00
6,040.0	18.03	182.93	6,037.3	-25.5	-1.3	25.6	11.00	11.00	0.00
6,080.0	22.43	182.93	6,074.8	-39.3	-2.0	39.4	11.00	11.00	0.00
6,120.0	26.83	182.93	6,111.2	-56.0	-2.9	56.1	11.00	11.00	0.00
6,160.0	31.23	182.93	6,146.2	-75.4	-3.9	75.5	11.00	11.00	0.00
6,200.0	35.63	182.93	6,179.5	-97.4	-5.0	97.5	11.00	11.00	0.00
6,240.0	40.03	182.93	6,211.1	-121.9	-6.2	122.0	11.00	11.00	0.00
6,280.0	44.43	182.93	6,240.7	-148.7	-7.6	148.9	11.00	11.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Wildhorse #05-0514H
Company:	Whiting Oil & Gas	TVD Reference:	WELL @ 5154.5ft (Original Well Elev)
Project:	SEC.5-T9N-R59W	MD Reference:	WELL @ 5154.5ft (Original Well Elev)
Site:	Wildhorse #05-0514H Pad Sec.5-T9N-R59W	North Reference:	True
Well:	Wildhorse #05-0514H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-14-11)		

Planned 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)
6,298.9	46.51	182.93	6,254.0	-162.2	-8.3	162.4	11.00	11.00	0.00
NIOBRARA									
6,320.0	48.83	182.93	6,268.2	-177.7	-9.1	178.0	11.00	11.00	0.00
6,360.0	53.23	182.93	6,293.3	-208.8	-10.7	209.0	11.00	11.00	0.00
6,400.0	57.63	182.93	6,316.0	-241.7	-12.4	242.0	11.00	11.00	0.00
6,440.0	62.03	182.93	6,336.1	-276.2	-14.1	276.5	11.00	11.00	0.00
6,480.0	66.43	182.93	6,353.5	-312.1	-16.0	312.6	11.00	11.00	0.00
6,520.0	70.83	182.93	6,368.1	-349.3	-17.9	349.8	11.00	11.00	0.00
6,560.0	75.23	182.93	6,379.8	-387.5	-19.8	388.0	11.00	11.00	0.00
6,600.0	79.63	182.93	6,388.5	-426.5	-21.8	427.1	11.00	11.00	0.00
6,640.0	84.03	182.93	6,394.2	-466.0	-23.9	466.7	11.00	11.00	0.00
6,680.0	88.43	182.93	6,396.8	-505.9	-25.9	506.6	11.00	11.00	0.00
6,694.3	90.00	182.93	6,397.0	-520.2	-26.6	520.9	11.00	11.00	0.00
End of Build - 7"									
6,720.0	90.00	182.93	6,397.0	-545.8	-28.0	546.6	0.01	0.01	0.00
6,760.0	90.00	182.93	6,397.0	-585.8	-30.0	586.6	0.00	0.00	0.00
6,800.0	90.00	182.93	6,397.0	-625.7	-32.0	626.6	0.00	0.00	0.00
6,840.0	90.00	182.93	6,397.0	-665.7	-34.1	666.6	0.00	0.00	0.00
6,880.0	90.00	182.93	6,397.0	-705.6	-36.1	706.6	0.00	0.00	0.00
6,920.0	90.00	182.93	6,397.0	-745.6	-38.2	746.6	0.00	0.00	0.00
6,960.0	90.00	182.93	6,397.0	-785.5	-40.2	786.6	0.00	0.00	0.00
7,000.0	90.00	182.93	6,397.0	-825.5	-42.3	826.6	0.00	0.00	0.00
7,040.0	90.00	182.93	6,397.0	-865.4	-44.3	866.6	0.00	0.00	0.00
7,080.0	90.00	182.93	6,397.0	-905.4	-46.4	906.6	0.00	0.00	0.00
7,120.0	90.00	182.93	6,397.0	-945.3	-48.4	946.6	0.00	0.00	0.00
7,160.0	90.00	182.93	6,397.0	-985.3	-50.5	986.6	0.00	0.00	0.00
7,200.0	90.00	182.93	6,397.0	-1,025.2	-52.5	1,026.6	0.00	0.00	0.00
7,240.0	90.00	182.93	6,397.0	-1,065.2	-54.5	1,066.6	0.00	0.00	0.00
7,280.0	90.00	182.93	6,397.0	-1,105.1	-56.6	1,106.6	0.00	0.00	0.00
7,320.0	90.00	182.93	6,397.0	-1,145.1	-58.6	1,146.6	0.00	0.00	0.00
7,360.0	90.00	182.93	6,397.0	-1,185.0	-60.7	1,186.6	0.00	0.00	0.00
7,400.0	90.00	182.93	6,397.0	-1,225.0	-62.7	1,226.6	0.00	0.00	0.00
7,440.0	90.00	182.93	6,397.0	-1,264.9	-64.8	1,266.6	0.00	0.00	0.00
7,480.0	90.00	182.93	6,397.0	-1,304.9	-66.8	1,306.6	0.00	0.00	0.00
7,520.0	90.00	182.93	6,397.0	-1,344.8	-68.9	1,346.6	0.00	0.00	0.00
7,560.0	90.00	182.93	6,397.0	-1,384.7	-70.9	1,386.6	0.00	0.00	0.00
7,600.0	90.00	182.93	6,397.0	-1,424.7	-73.0	1,426.6	0.00	0.00	0.00
7,640.0	90.00	182.93	6,397.0	-1,464.6	-75.0	1,466.6	0.00	0.00	0.00
7,680.0	90.00	182.93	6,397.0	-1,504.6	-77.0	1,506.6	0.00	0.00	0.00
7,720.0	90.00	182.93	6,397.0	-1,544.5	-79.1	1,546.6	0.00	0.00	0.00
7,760.0	90.00	182.93	6,397.0	-1,584.5	-81.1	1,586.6	0.00	0.00	0.00
7,800.0	90.00	182.93	6,397.0	-1,624.4	-83.2	1,626.6	0.00	0.00	0.00
7,840.0	90.00	182.93	6,397.0	-1,664.4	-85.2	1,666.6	0.00	0.00	0.00
7,880.0	90.00	182.93	6,397.0	-1,704.3	-87.3	1,706.6	0.00	0.00	0.00
7,920.0	90.00	182.93	6,397.0	-1,744.3	-89.3	1,746.6	0.00	0.00	0.00
7,960.0	90.00	182.93	6,397.0	-1,784.2	-91.4	1,786.6	0.00	0.00	0.00
8,000.0	90.00	182.93	6,397.0	-1,824.2	-93.4	1,826.6	0.00	0.00	0.00
8,040.0	90.00	182.93	6,397.0	-1,864.1	-95.5	1,866.6	0.00	0.00	0.00
8,080.0	90.00	182.93	6,397.0	-1,904.1	-97.5	1,906.6	0.00	0.00	0.00
8,120.0	90.00	182.93	6,397.0	-1,944.0	-99.5	1,946.6	0.00	0.00	0.00
8,160.0	90.00	182.93	6,397.0	-1,984.0	-101.6	1,986.6	0.00	0.00	0.00
8,200.0	90.00	182.93	6,397.0	-2,023.9	-103.6	2,026.6	0.00	0.00	0.00
8,240.0	90.00	182.93	6,397.0	-2,063.9	-105.7	2,066.6	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Wildhorse #05-0514H
Company:	Whiting Oil & Gas	TVD Reference:	WELL @ 5154.5ft (Original Well Elev)
Project:	SEC.5-T9N-R59W	MD Reference:	WELL @ 5154.5ft (Original Well Elev)
Site:	Wildhorse #05-0514H Pad Sec.5-T9N-R59W	North Reference:	True
Well:	Wildhorse #05-0514H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-14-11)		

Planned 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)
8,280.0	90.00	182.93	6,397.0	-2,103.8	-107.7	2,106.6	0.00	0.00	0.00
8,320.0	90.00	182.93	6,397.0	-2,143.8	-109.8	2,146.6	0.00	0.00	0.00
8,360.0	90.00	182.93	6,397.0	-2,183.7	-111.8	2,186.6	0.00	0.00	0.00
8,400.0	90.00	182.93	6,397.0	-2,223.6	-113.9	2,226.6	0.00	0.00	0.00
8,440.0	90.00	182.93	6,397.0	-2,263.6	-115.9	2,266.6	0.00	0.00	0.00
8,480.0	90.00	182.93	6,397.0	-2,303.5	-118.0	2,306.6	0.00	0.00	0.00
8,520.0	90.00	182.93	6,397.0	-2,343.5	-120.0	2,346.6	0.00	0.00	0.00
8,560.0	90.00	182.93	6,397.0	-2,383.4	-122.0	2,386.6	0.00	0.00	0.00
8,600.0	90.00	182.93	6,397.0	-2,423.4	-124.1	2,426.6	0.00	0.00	0.00
8,640.0	90.00	182.93	6,397.0	-2,463.3	-126.1	2,466.6	0.00	0.00	0.00
8,680.0	90.00	182.93	6,397.0	-2,503.3	-128.2	2,506.6	0.00	0.00	0.00
8,720.0	90.00	182.93	6,397.0	-2,543.2	-130.2	2,546.6	0.00	0.00	0.00
8,760.0	90.00	182.93	6,397.0	-2,583.2	-132.3	2,586.6	0.00	0.00	0.00
8,800.0	90.00	182.93	6,397.0	-2,623.1	-134.3	2,626.6	0.00	0.00	0.00
8,840.0	90.00	182.93	6,397.0	-2,663.1	-136.4	2,666.6	0.00	0.00	0.00
8,880.0	90.00	182.93	6,397.0	-2,703.0	-138.4	2,706.6	0.00	0.00	0.00
8,920.0	90.00	182.93	6,397.0	-2,743.0	-140.5	2,746.6	0.00	0.00	0.00
8,960.0	90.00	182.93	6,397.0	-2,782.9	-142.5	2,786.6	0.00	0.00	0.00
9,000.0	90.00	182.93	6,397.0	-2,822.9	-144.5	2,826.6	0.00	0.00	0.00
9,040.0	90.00	182.93	6,397.0	-2,862.8	-146.6	2,866.6	0.00	0.00	0.00
9,080.0	90.00	182.93	6,397.0	-2,902.8	-148.6	2,906.6	0.00	0.00	0.00
9,120.0	90.00	182.93	6,397.0	-2,942.7	-150.7	2,946.6	0.00	0.00	0.00
9,160.0	90.00	182.93	6,397.0	-2,982.7	-152.7	2,986.6	0.00	0.00	0.00
9,200.0	90.00	182.93	6,397.0	-3,022.6	-154.8	3,026.6	0.00	0.00	0.00
9,240.0	90.00	182.93	6,397.0	-3,062.5	-156.8	3,066.6	0.00	0.00	0.00
9,280.0	90.00	182.93	6,397.0	-3,102.5	-158.9	3,106.6	0.00	0.00	0.00
9,320.0	90.00	182.93	6,397.0	-3,142.4	-160.9	3,146.6	0.00	0.00	0.00
9,360.0	90.00	182.93	6,397.0	-3,182.4	-163.0	3,186.6	0.00	0.00	0.00
9,400.0	90.00	182.93	6,397.0	-3,222.3	-165.0	3,226.6	0.00	0.00	0.00
9,440.0	90.00	182.93	6,397.0	-3,262.3	-167.1	3,266.6	0.00	0.00	0.00
9,480.0	90.00	182.93	6,397.0	-3,302.2	-169.1	3,306.6	0.00	0.00	0.00
9,520.0	90.00	182.93	6,397.0	-3,342.2	-171.1	3,346.6	0.00	0.00	0.00
9,560.0	90.00	182.93	6,397.0	-3,382.1	-173.2	3,386.6	0.00	0.00	0.00
9,600.0	90.00	182.93	6,397.0	-3,422.1	-175.2	3,426.6	0.00	0.00	0.00
9,640.0	90.00	182.93	6,397.0	-3,462.0	-177.3	3,466.6	0.00	0.00	0.00
9,680.0	90.00	182.93	6,397.0	-3,502.0	-179.3	3,506.6	0.00	0.00	0.00
9,720.0	90.00	182.93	6,397.0	-3,541.9	-181.4	3,546.6	0.00	0.00	0.00
9,760.0	90.00	182.93	6,397.0	-3,581.9	-183.4	3,586.6	0.00	0.00	0.00
9,800.0	90.00	182.93	6,397.0	-3,621.8	-185.5	3,626.6	0.00	0.00	0.00
9,840.0	90.00	182.93	6,397.0	-3,661.8	-187.5	3,666.6	0.00	0.00	0.00
9,880.0	90.00	182.93	6,397.0	-3,701.7	-189.6	3,706.6	0.00	0.00	0.00
9,920.0	90.00	182.93	6,397.0	-3,741.7	-191.6	3,746.6	0.00	0.00	0.00
9,960.0	90.00	182.93	6,397.0	-3,781.6	-193.6	3,786.6	0.00	0.00	0.00
10,000.0	90.00	182.93	6,397.0	-3,821.6	-195.7	3,826.6	0.00	0.00	0.00
10,040.0	90.00	182.93	6,397.0	-3,861.5	-197.7	3,866.6	0.00	0.00	0.00
10,080.0	90.00	182.93	6,397.0	-3,901.4	-199.8	3,906.6	0.00	0.00	0.00
10,120.0	90.00	182.93	6,397.0	-3,941.4	-201.8	3,946.6	0.00	0.00	0.00
10,160.0	90.00	182.93	6,397.0	-3,981.3	-203.9	3,986.6	0.00	0.00	0.00
10,200.0	90.00	182.93	6,397.0	-4,021.3	-205.9	4,026.6	0.00	0.00	0.00
10,240.0	90.00	182.93	6,397.0	-4,061.2	-208.0	4,066.6	0.00	0.00	0.00
10,280.0	90.00	182.93	6,397.0	-4,101.2	-210.0	4,106.6	0.00	0.00	0.00
10,320.0	90.00	182.93	6,397.0	-4,141.1	-212.1	4,146.6	0.00	0.00	0.00
10,360.0	90.00	182.93	6,397.0	-4,181.1	-214.1	4,186.6	0.00	0.00	0.00
10,400.0	90.00	182.93	6,397.0	-4,221.0	-216.1	4,226.6	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Wildhorse #05-0514H
Company:	Whiting Oil & Gas	TVD Reference:	WELL @ 5154.5ft (Original Well Elev)
Project:	SEC.5-T9N-R59W	MD Reference:	WELL @ 5154.5ft (Original Well Elev)
Site:	Wildhorse #05-0514H Pad Sec.5-T9N-R59W	North Reference:	True
Well:	Wildhorse #05-0514H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (11-14-11)		

Planned 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)
10,430.4	90.00	182.93	6,397.0	-4,251.4	-217.7	4,257.0	0.00	0.00	0.00
BHL 660'FSL, 655'FWL									

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
BHL HARDLINE 660'F	0.00	0.00	1.0	-4,251.4	-717.7	1,528,317.21	3,412,347.05	40.774114	-104.011169
- plan misses target center by 4311.6ft at 1.0ft MD (1.0 TVD, 0.0 N, 0.0 E)									
- Polygon									
Point 1			1.0	0.0	0.0	1,528,317.21	3,412,347.05		
Point 2			1.0	0.0	1,000.0	1,528,334.03	3,413,346.91		
SHL HARDLINE 660'F	0.00	0.00	1.0	-340.0	-500.0	1,532,231.71	3,412,498.94	40.784850	-104.010384
- plan misses target center by 604.6ft at 1.0ft MD (1.0 TVD, 0.0 N, 0.0 E)									
- Polygon									
Point 1			1.0	0.0	0.0	1,532,231.71	3,412,498.94		
Point 2			1.0	0.0	1,000.0	1,532,248.53	3,413,498.80		
BHL 660'FSL, 655'FWL	0.00	0.00	6,397.0	-4,251.4	-217.7	1,528,325.60	3,412,846.98	40.774114	-104.009364
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
6,694.3	6,397.0	7"	7	8-3/4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
6,298.9	6,254.0	NIOBRARA		0.00	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
5,876.1	5,876.1	0.0	0.0	KOP
6,694.3	6,397.0	-520.2	-26.6	End of Build