



Yates Petroleum Corp.

Eddy County
Melson ZS Federal
#2H
OH

Design: OH

Pathfinder X&Y Report

15 August, 2011

PATHFINDER[®]
A Schlumberger Company



Pathfinder
Pathfinder X&Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #2H
Project:	Eddy County	TVD Reference:	Est KB=17' @ 3096.00usft (Original Well Elev)
Site:	Melson ZS Federal	MD Reference:	Est KB=17' @ 3096.00usft (Original Well Elev)
Well:	#2H	North Reference:	Gnd
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project:	Eddy County		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Melson ZS Federal			
Site Position:		Northing:	382,484.197 usft	Latitude:	32° 3' 2 801 N
From:	Map	Easting:	676,519.614 usft	Longitude:	103° 53' 49.223 W
Position Uncertainty:	0 00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.23 °

Well #2H						
Well Position	+N/-S	0.00 usft	Northing:	382,484.197 usft	Latitude:	32° 3' 2 801 N
	+E/-W	0.00 usft	Easting:	676,519.614 usft	Longitude:	103° 53' 49.223 W
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	3,079.00 usft

Wellbore:	OH
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Magnetics:	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/23/2011	7.73	59.97	48,484

Design:	OH				
Audit Notes:					
Version:	10	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/S	+E/W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	359.81	



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey Program	Date	8/15/2011		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
200.00	600.00	Survey #1 - GYRO (OH)	CB-GYRO-MS	Camera based gyro multishot
800.00	8,476.00	Survey #2 - MWD (OH)	MWD	MWD - Standard
200.00	12,190.00	Survey #3 - MWD (OH)	MWD	MWD - Standard

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
	0.00	0.00	0.00	0.00	-3,096.00	0.00	0.00	0.00	0.00	382,484.20	676,519.61
	200.00	0.50	246.28	200.00	-2,896.00	-0.35	-0.80	-0.35	0.25	382,483.85	676,518.82
	400.00	0.50	285.13	399.99	-2,696.01	-0.47	-2.44	-0.47	0.17	382,483.72	676,517.17
	600.00	1.00	270.98	599.97	-2,496.03	-0.22	-5.03	-0.20	0.26	382,483.98	676,514.59
	800.00	0.75	243.83	799.95	-2,296.05	-0.76	-7.95	-0.74	0.24	382,483.43	676,511.67
	849.00	0.62	261.13	848.95	-2,247.05	-0.95	-8.50	-0.92	0.50	382,483.25	676,511.12
	943.00	0.88	273.02	942.94	-2,153.06	-0.99	-9.72	-0.95	0.32	382,483.21	676,509.89
	1,038.00	1.14	277.60	1,037.92	-2,058.08	-0.82	-11.39	-0.79	0.29	382,483.37	676,508.23
	1,131.00	0.79	53.13	1,130.92	-1,965.08	-0.32	-11.79	-0.28	1.93	382,483.88	676,507.82
	1,226.00	2.02	69.85	1,225.89	-1,870.11	0.65	-9.69	0.69	1.35	382,484.85	676,509.92
	1,320.00	1.58	73.08	1,319.84	-1,776.16	1.60	-6.90	1.62	0.48	382,485.80	676,512.71
	1,415.00	0.35	73.53	1,414.83	-1,681.17	2.06	-5.37	2.08	1.29	382,486.26	676,514.25
	1,509.00	0.44	127.06	1,508.82	-1,587.18	1.93	-4.80	1.94	0.39	382,486.13	676,514.81
	1,604.00	0.53	136.71	1,603.82	-1,492.18	1.39	-4.21	1.40	0.13	382,485.59	676,515.40
	1,698.00	0.44	165.38	1,697.82	-1,398.18	0.72	-3.82	0.74	0.27	382,484.92	676,515.79
	1,793.00	0.26	156.30	1,792.82	-1,303.18	0.17	-3.64	0.18	0.20	382,484.37	676,515.97
	1,887.00	0.35	78.22	1,886.81	-1,209.19	0.04	-3.28	0.05	0.42	382,484.23	676,516.34
	1,981.00	0.70	284.62	1,980.81	-1,115.19	0.24	-3.55	0.25	1.09	382,484.44	676,516.06
	2,075.00	1.14	263.46	2,074.80	-1,021.20	0.28	-5.04	0.29	0.58	382,484.48	676,514.58
	2,169.00	0.70	246.71	2,168.79	-927.21	-0.06	-6.49	-0.03	0.54	382,484.14	676,513.12



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Company: Yates Petroleum Corp
Project: Eddy County
Site: Melson ZS Federal
Well: #2H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #2H
Est KB=17' @ 3096.00usft (Original Well Elev)
Est KB=17' @ 3096.00usft (Original Well Elev)
Gnd
Minimum Curvature
EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DEg (°/100usft)	Northing (usft)	Easting (usft)	
2,264.00	1.06	247.36	2,263.78	-832.22	-0.62	-7.84	-0.60	0.38	382,483.57	676,511.78	
2,358.00	0.26	125.76	2,357.77	-738.23	-1.08	-8.47	-1.05	1.29	382,483.11	676,511.15	
2,452.00	0.44	113.24	2,451.77	-644.23	-1.35	-7.96	-1.32	0.21	382,482.85	676,511.65	
2,546.00	1.23	97.63	2,545.76	-550.24	-1.63	-6.63	-1.60	0.87	382,482.57	676,512.98	
2,640.00	0.26	304.96	2,639.75	-456.25	-1.64	-5.80	-1.62	1.56	382,482.56	676,513.81	
2,734.00	0.26	273.24	2,733.75	-362.25	-1.50	-6.19	-1.48	0.15	382,482.69	676,513.42	
2,828.00	0.70	104.23	2,827.75	-268.25	-1.63	-5.85	-1.61	1.02	382,482.56	676,513.77	
2,921.00	1.76	107.19	2,920.73	-175.27	-2.19	-3.93	-2.18	1.14	382,482.00	676,515.68	
3,015.00	0.97	88.01	3,014.70	-81.30	-2.59	-1.76	-2.59	0.96	382,481.60	676,517.85	
3,109.00	1.67	102.40	3,108.68	12.68	-2.86	0.37	-2.86	0.82	382,481.34	676,519.99	
3,203.00	1.41	108.98	3,202.64	106.64	-3.53	2.80	-3.54	0.33	382,480.67	676,522.42	
3,297.00	0.97	116.64	3,296.62	200.62	-4.26	4.61	-4.28	0.50	382,479.93	676,524.22	
3,392.00	0.18	326.47	3,391.62	295.62	-4.50	5.25	-4.52	1.19	382,479.70	676,524.86	
3,447.00	0.18	290.95	3,446.62	350.62	-4.40	5.12	-4.41	0.20	382,479.80	676,524.73	
3,643.00	0.09	334.98	3,642.62	546.62	-4.15	4.77	-4.16	0.07	382,480.05	676,524.38	
3,769.00	0.18	73.02	3,768.62	672.62	-4.00	4.91	-4.02	0.17	382,480.20	676,524.53	
3,957.00	0.35	165.50	3,956.61	860.61	-4.47	5.34	-4.49	0.21	382,479.73	676,524.95	
4,146.00	0.44	222.85	4,145.61	1,049.61	-5.56	4.99	-5.58	0.20	382,478.64	676,524.60	
4,334.00	0.53	213.88	4,333.60	1,237.60	-6.81	4.01	-6.82	0.06	382,477.39	676,523.63	
4,523.00	0.44	222.51	4,522.60	1,426.60	-8.07	3.04	-8.08	0.06	382,476.13	676,522.65	
4,710.00	0.62	238.39	4,709.59	1,613.59	-9.13	1.69	-9.14	0.12	382,475.07	676,521.30	
4,805.00	0.97	352.36	4,804.58	1,708.58	-8.60	1.14	-8.61	1.42	382,475.59	676,520.76	
4,993.00	0.79	8.66	4,992.56	1,896.56	-5.74	1.13	-5.75	0.16	382,478.45	676,520.74	
5,181.00	0.79	341.99	5,180.55	2,084.55	-3.23	0.92	-3.23	0.19	382,480.97	676,520.54	
5,371.00	0.53	334.84	5,370.53	2,274.53	-1.19	0.14	-1.19	0.14	382,483.01	676,519.76	
5,559.00	0.18	0.07	5,558.53	2,462.53	-0.11	-0.22	-0.11	0.20	382,484.09	676,519.39	
5,748.00	0.09	230.49	5,747.53	2,651.53	0.09	-0.34	0.10	0.13	382,484.29	676,519.27	



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Well: #2H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #2H
TVD Reference: Est KB=17' @ 3096.00usft (Original Well Elev)
MD Reference: Est KB=17' @ 3096.00usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey												
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)		
5,936.00	0.53	124.91	5,935.53	2,839.53	-0.50	0.26	-0.50	0.30	382,483.70	676,519.87		
6,124.00	0.18	134.99	6,123.52	3,027.52	-1.20	1.18	-1.21	0.19	382,482.99	676,520.80		
6,313.00	0.53	175.43	6,312.52	3,216.52	-2.28	1.46	-2.29	0.22	382,481.91	676,521.08		
6,501.00	0.62	214.35	6,500.51	3,404.51	-3.99	0.96	-3.99	0.21	382,480.21	676,520.57		
6,690.00	0.70	200.41	6,689.50	3,593.50	-5.92	-0.02	-5.92	0.09	382,478.28	676,519.59		
6,878.00	1.06	202.47	6,877.47	3,781.47	-8.60	-1.09	-8.60	0.19	382,475.60	676,518.53		
6,973.00	0.18	218.25	6,972.47	3,876.47	-9.53	-1.52	-9.52	0.93	382,474.67	676,518.10		
7,067.00	0.35	335.95	7,066.47	3,970.47	-9.38	-1.72	-9.38	0.49	382,474.81	676,517.89		
7,161.00	0.26	296.15	7,160.47	4,064.47	-9.03	-2.03	-9.02	0.24	382,475.17	676,517.58		
7,255.00	0.18	244.92	7,254.47	4,158.47	-9.00	-2.36	-8.99	0.22	382,475.20	676,517.26		
7,322.00	1.41	345.55	7,321.46	4,225.46	-8.24	-2.66	-8.23	2.17	382,475.95	676,516.95		
7,353.00	3.43	350.85	7,352.43	4,256.43	-6.96	-2.90	-6.95	6.55	382,477.24	676,516.71		
7,384.00	6.77	353.45	7,383.30	4,287.30	-4.23	-3.26	-4.21	10.80	382,479.97	676,516.36		
KOP - 7384.00'MD, 7383.30'TVD', -4.23°N, -3.26°E												
7,416.00	10.99	355.18	7,414.91	4,318.91	0.69	-3.73	0.70	13.21	382,484.89	676,515.88		
7,447.00	15.21	356.03	7,445.10	4,349.10	7.69	-4.26	7.71	13.63	382,491.89	676,515.35		
7,478.00	19.35	356.37	7,474.69	4,378.69	16.88	-4.87	16.90	13.36	382,501.08	676,514.75		
7,510.00	22.95	357.48	7,504.53	4,408.53	28.41	-5.48	28.43	11.32	382,512.60	676,514.14		
7,541.00	26.12	359.83	7,532.73	4,436.73	41.27	-5.76	41.29	10.70	382,525.47	676,513.85		
7,573.00	29.63	1.46	7,561.01	4,465.01	56.23	-5.58	56.25	11.22	382,540.43	676,514.03		
7,604.00	33.50	1.71	7,587.42	4,491.42	72.45	-5.13	72.46	12.49	382,556.65	676,514.48		
7,635.00	37.11	1.41	7,612.72	4,516.72	90.35	-4.65	90.37	11.66	382,574.55	676,514.97		
7,667.00	40.45	0.97	7,637.66	4,541.66	110.39	-4.23	110.40	10.47	382,594.59	676,515.38		
7,698.00	44.32	0.10	7,660.55	4,564.55	131.28	-4.04	131.29	12.63	382,615.48	676,515.57		
7,729.00	47.84	359.10	7,682.05	4,586.05	153.61	-4.20	153.62	11.59	382,637.80	676,515.41		
7,761.00	51.53	358.16	7,702.75	4,606.75	177.99	-4.79	178.01	11.75	382,662.19	676,514.82		
7,792.00	56.01	358.45	7,721.07	4,625.07	202.98	-5.53	203.00	14.47	382,687.18	676,514.08		



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Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #2H
TVD Reference: Est KB=17' @ 3096.00usft (Original Well Elev)
MD Reference: Est KB=17' @ 3096.00usft (Original Well Elev)
North Reference: Gnd
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey												
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (1/100usft)	Northing (usft)	Easting (usft)		
7,824.00	60.94	0.37	7,737.80	4,641.80	230.25	-5.80	230.27	16.23	382,714.45	676,513.81		
7,855.00	65.86	2.22	7,751.67	4,655.67	257.95	-5.16	257.97	16.74	382,742.15	676,514.45		
7,886.00	71.14	3.27	7,763.03	4,667.03	286.75	-3.78	286.76	17.32	382,770.95	676,515.84		
7,918.00	76.41	3.16	7,771.97	4,675.97	317.42	-2.06	317.42	16.47	382,801.61	676,517.56		
7,950.00	79.67	2.51	7,778.60	4,682.60	348.68	-0.51	348.68	10.38	382,832.88	676,519.10		
7,981.00	80.99	1.85	7,783.81	4,687.81	379.22	0.65	379.21	4.75	382,863.41	676,520.27		
8,022.00	83.45	1.07	7,789.36	4,693.36	419.82	1.69	419.81	6.29	382,904.02	676,521.30		
8,044.00	85.65	0.41	7,791.45	4,695.45	441.72	1.97	441.71	10.44	382,925.92	676,521.58		
8,075.00	88.55	359.36	7,793.02	4,697.02	472.67	1.91	472.67	9.95	382,956.87	676,521.52		
8,138.00	89.78	359.33	7,793.93	4,697.93	535.66	1.19	535.66	1.95	383,019.86	676,520.80		
8,232.00	89.87	359.45	7,794.22	4,698.22	629.66	0.19	629.65	0.16	383,113.85	676,519.80		
LP - 8232.00'MD, 7794.22'TVD', 629.66'N, 0.19'E												
8,326.00	90.31	359.52	7,794.07	4,698.07	723.65	-0.66	723.65	0.47	383,207.85	676,518.96		
8,420.00	89.69	359.26	7,794.07	4,698.07	817.65	-1.66	817.65	0.72	383,301.84	676,517.95		
8,514.00	90.31	359.36	7,794.07	4,698.07	911.64	-2.79	911.64	0.67	383,395.84	676,516.82		
8,608.00	90.75	359.87	7,793.20	4,697.20	1,005.63	-3.42	1,005.64	0.72	383,489.83	676,516.19		
8,703.00	90.22	0.20	7,792.40	4,696.40	1,100.63	-3.37	1,100.63	0.66	383,584.83	676,516.25		
8,797.00	90.31	0.55	7,791.96	4,695.96	1,194.63	-2.75	1,194.63	0.38	383,678.82	676,516.86		
8,891.00	90.04	0.14	7,791.68	4,695.68	1,288.62	-2.18	1,288.62	0.52	383,772.82	676,517.43		
8,986.00	90.57	0.75	7,791.17	4,695.17	1,383.62	-1.45	1,383.62	0.85	383,867.82	676,518.17		
9,080.00	90.04	359.32	7,790.67	4,694.67	1,477.61	-1.39	1,477.61	1.62	383,961.81	676,518.23		
9,174.00	90.57	359.82	7,790.17	4,694.17	1,571.61	-2.09	1,571.61	0.78	384,055.81	676,517.52		
9,268.00	89.78	359.59	7,789.88	4,693.88	1,665.61	-2.58	1,665.61	0.88	384,149.80	676,517.04		
9,362.00	89.60	359.74	7,790.39	4,694.39	1,759.60	-3.13	1,759.61	0.25	384,243.80	676,516.49		
9,456.00	90.13	0.15	7,790.61	4,694.61	1,853.60	-3.22	1,853.60	0.71	384,337.80	676,516.40		
9,552.00	88.90	0.37	7,791.43	4,695.43	1,949.60	-2.78	1,949.60	1.30	384,433.79	676,516.83		
9,647.00	89.34	0.96	7,792.89	4,696.89	2,044.58	-1.68	2,044.57	0.77	384,528.78	676,517.93		



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Design: OH

Local Co-ordinate Reference:
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Database:

Well #2H
Est KB=17' @ 3096.00usft (Original Well Elev)
Est KB=17' @ 3096.00usft (Original Well Elev)
Grid
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Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)	
9,741.00	88.11	0.26	7,794.98	4,698.98	2,138.55	-0.68	2,138.54	1.51	384,622.74	676,518.93	
9,835.00	88.29	359.13	7,797.93	4,701.93	2,232.50	-1.18	2,232.49	1.22	384,716.70	676,518.43	
9,930.00	88.64	358.06	7,800.47	4,704.47	2,327.43	-3.51	2,327.43	1.18	384,811.63	676,516.11	
10,025.00	88.81	358.57	7,802.59	4,706.59	2,422.37	-6.30	2,422.38	0.57	384,906.57	676,513.31	
10,119.00	89.25	358.09	7,804.18	4,708.18	2,516.32	-9.04	2,516.33	0.69	385,000.51	676,510.57	
10,213.00	90.04	358.53	7,804.76	4,708.76	2,610.27	-11.81	2,610.30	0.96	385,094.47	676,507.80	
10,307.00	90.22	359.26	7,804.55	4,708.55	2,704.25	-13.62	2,704.28	0.80	385,188.45	676,505.99	
10,401.00	90.57	0.24	7,803.90	4,707.90	2,798.25	-14.03	2,798.28	1.11	385,282.45	676,505.58	
10,495.00	91.63	1.21	7,802.10	4,706.10	2,892.22	-12.85	2,892.25	1.53	385,376.42	676,506.77	
10,589.00	90.75	1.32	7,800.14	4,704.14	2,986.18	-10.77	2,986.20	0.94	385,470.37	676,508.84	
10,684.00	90.04	0.74	7,799.49	4,703.49	3,081.16	-9.06	3,081.17	0.97	385,565.36	676,510.55	
10,779.00	89.78	0.27	7,799.64	4,703.64	3,176.15	-8.23	3,176.16	0.57	385,660.35	676,511.39	
10,873.00	89.87	359.92	7,799.93	4,703.93	3,270.15	-8.07	3,270.16	0.38	385,754.35	676,511.54	
10,967.00	88.20	359.03	7,801.51	4,705.51	3,364.13	-8.93	3,364.14	2.01	385,848.33	676,510.68	
11,061.00	88.29	359.13	7,804.39	4,708.39	3,458.08	-10.44	3,458.09	0.14	385,942.27	676,509.17	
11,156.00	88.02	359.45	7,807.45	4,711.45	3,553.02	-11.62	3,553.04	0.44	386,037.22	676,508.00	
11,250.00	88.46	358.05	7,810.33	4,714.33	3,646.95	-13.67	3,646.98	1.56	386,131.15	676,505.95	
11,344.00	88.81	357.77	7,812.57	4,716.57	3,740.86	-17.09	3,740.90	0.48	386,225.06	676,502.52	
11,472.00	88.90	357.90	7,815.13	4,719.13	3,868.74	-21.93	3,868.80	0.12	386,352.94	676,497.69	
11,566.00	90.84	358.03	7,815.34	4,719.34	3,962.68	-25.27	3,962.74	2.07	386,446.88	676,494.35	
11,660.00	90.92	358.77	7,813.90	4,717.90	4,056.63	-27.89	4,056.70	0.79	386,540.83	676,491.72	
11,754.00	90.66	359.15	7,812.60	4,716.60	4,150.61	-29.60	4,150.68	0.49	386,634.80	676,490.02	
11,848.00	90.57	359.52	7,811.60	4,715.60	4,244.60	-30.69	4,244.67	0.41	386,728.79	676,488.93	
11,943.00	90.75	359.95	7,810.50	4,714.50	4,339.59	-31.13	4,339.67	0.49	386,823.78	676,488.49	
12,037.00	91.10	0.63	7,808.98	4,712.98	4,433.57	-30.65	4,433.65	0.81	386,917.77	676,488.96	
12,131.00	92.07	1.18	7,806.38	4,710.38	4,527.52	-29.17	4,527.60	1.19	387,011.72	676,490.45	



Pathfinder
Pathfinder X&Y Report

PATHFINDER
A Schlumberger Company

Company: Yates Petroleum Corp
Project: Eddy County
Site: Melson ZS Federal
Well: #2H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #2H
TVD Reference: Est KB=17' @ 3096.00usft (Original Well Elev)
MD Reference: Est KB=17' @ 3096.00usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (1/100usft)	Northing (usft)	Easting (usft)
12,190.00	92.07	1.18	7,804.25	4,708.25	4,586.47	-27.95	4,586.54	0.00	387,070.67	676,491.66
BHL - 12190.00'MD, 7804.25'TVD', 4586.47'N, -27.95'E - BHL (Melson #2H)										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,384.00	7,383.30	-4.23	-3.26	KOP - 7384.00'MD, 7383.30'TVD', -4.23'N, -3.26'E
8,232.00	7,794.22	629.66	0.19	LP - 8232.00'MD, 7794.22'TVD', 629.66'N, 0.19'E
12,190.00	7,804.25	4,586.47	-27.95	BHL - 12190.00'MD, 7804.25'TVD', 4586.47'N, -27.95'E

Checked By: _____ Approved By: _____ Date: _____



Project: Eddy County
Site: Melson ZS Federal
Well: #2H
Wellbore: OH
Plan: Plan #4 (#2H/OH)

PATHFINDER
A Schlumberger Company

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dlog	TFace	VSect Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	7317.54	0.00	0.00	7317.54	0.00	0.00	0.00	0.00	0.00
3	8067.54	90.00	359.81	7795.00	477.46	-1.58	12.00	359.81	477.47
4	12243.82	90.00	359.81	7795.00	4653.72	-15.35	0.00	0.00	4653.75 BHL (Melson #2H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N-S	+E-W	Northing	Easting	Shape
BHL (Melson #2H)	7795.00	4653.72	-15.35	387137.920	676504.260	Point

WELL DETAILS: #2H						
Ground Elevation	3079.00					
RKB Elevation	Est KB=17' @ 3095.00usft (Original Well Elev)					
Rig Name	Original Well Elev					
+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	382484.197	676519.614	32° 2' 2.801" N	103° 53' 49.223" W	

KOP - 7384.00 MD, 7383.30 TVD, -4.23° N, -3.26° E



Azimuths to Grid North
True North: -0.23°
Magnetic North: 7.50°

Magnetic Field
Strength: 48484.0snT
Dip Angle: 59.97°
Date: 5/23/2011
Model: IGRF2010

PROJECT DETAILS: Eddy County
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid

