

Results of Directional Survey

API number:	30-025-40722		
OGRID:		Operator:	YATES PETROLEUM CORPORATION
		Property:	JEFE BSJ FEDERAL COM # 1H

surface	ULSTR:	O	32	T	25S	R	32E
				330	FSL	1980	FEL

BH Loc	ULSTR:	J	29	T	25S	R	32E
17319	MD	10525.6	TVD	1963	FSL	2011	FEL

Top Perf/OH	ULSTR:	O	32	T	25S	R	32E
11040	MD	10599.7	TVD	965	FSL	1991	FEL

Bot Perf/OH	ULSTR:	J	29	T	25S	R	32E
17200	MD	10526.2	TVD	1844	FSL	2012	FEL

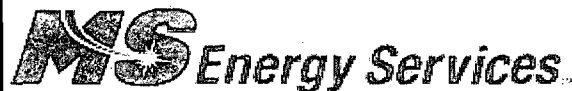
	MD	N/S	E/W	VD
	11037	632.20	-11.40	10599.7
TOP PERFS/OH	11040	635.20	-11.33	10599.74
	11100	695.20	-9.90	10600.60
	17112	6705.60	-33.20	10526.20
BOT PERFS/OH	17200	6793.60	-32.24	10526.20
	17204	6797.60	-32.20	10526.20

NEXT TO LAST	17204	6797.60	-32.20	10526.20
LAST READING	17319	6912.60	-31.00	10525.60
TD	17319	6912.60	-31.00	10525.60

Surface Location	330	FS	1980	FE
Projected BHL	7243	FS	2011	FE
Location of				
Top Perfs/OH	965	FS	1991	FE
Bottom Perfs/OH	7124	FS	2012	FE

SUMMARY of Subsurface Locations

Surface Location	O-32-25S-32E	330	FS	1980	FE	Vert. Depth
Top Perfs/OH	O-32-25S-32E	965	FS	1991	FE	10599.74
Bottom Perfs/OH	J-29-25S-32E	7124	FS	2012	FE	10526.20
Projected TD	J-29-25S-32E	7243	FS	2011	FE	10525.60



Job Number: SVMO-120015
 Company: Yates Petroleum Corporation
 Lease/Well: JEFE BSJ FEDERAL COM 1H
 Location: Lea County, NM
 Rig Name: Cactus #124
 RKB: 25'
 or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 7.14°
 Grid: East To Grid North
 File name: F:\SURVEY\2012SU~1\YATES\MOJEFEBS~1\1H.SVY
 Date/Time: 08-Oct-12 / 14:27
 Curve Name: Surface - 1300' M.D. (Rate Gyro)

SUR: O-32-25s-32e, 330/S & 1980/E
 BHL: J-29-25s-32e, 7243/S & 2011/E
 API #30-025-40722

HOBBS OCD

JAN 16 2013

RECEIVED

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 359.75
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
 Surface MD to 1300' MD is, to the best of
 our knowledge a true and accurate account of
 the well bore.
 Brandon Mikeka 10/8/12
 MS Energy Services Date

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
200.00	.06	308.73	200.00	.07	-.08	.07	.10	308.74	.03
400.00	.60	231.22	400.00	-.52	-.98	-.52	1.11	241.82	.29
600.00	.81	232.02	599.98	-2.05	-2.91	-2.04	3.56	234.83	.11
800.00	.57	207.68	799.97	-3.80	-4.49	-3.78	5.88	229.73	.19
1000.00	1.41	40.63	999.95	-2.82	-3.35	-2.80	4.37	229.93	.98
1200.00	2.97	40.67	1199.80	2.98	1.63	2.98	3.40	28.70	.78
Last Survey Depth Recorded									
1300.00	3.09	41.39	1299.66	6.97	5.10	6.95	8.64	36.21	.13



Pathfinder
PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County(NAD 83)	TVD Reference:	KB = 25 @ 3322.0usft (Cactus 124)
Site:	Jefe BSJ Federal Com	MD Reference:	KB = 25 @ 3322.0usft (Cactus 124)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000:1 Single User Db

Project		Lea County(NAD 83)	
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Jefe BSJ Federal Com				
Site Position:		Northing:	393,612.300 usft	Latitude:	32.080512
From:	Map	Easting:	739,021.300 usft	Longitude:	-103.695067
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.34 °

Well	#1H					
Well Position	+N/-S	0.0 usft	Northing:	393,612.300 usft	Latitude:	32.080512
	+E/-W	0.0 usft	Easting:	739,021.300 usft	Longitude:	-103.695067
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,297.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	8/22/2012	7.48	60.03	48,440

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)	Direction (°)	
	0.0	0.0	0.0	359.75	

SUR: O-32-25s-32e, 330/S & 1980/E
BHL: J-29-25s-32e, 7243/S & 2011/E
API #30-025-40722



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Project:	Lea County(NAD 83)	TVD Reference:	KB = 25 @ 3322.0usft (Cactus 124)
Site:	Jefe BSJ Federal Com	MD Reference:	KB = 25 @ 3322.0usft (Cactus 124)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey Program		Date	11/14/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
200.0	1,300.0	gyro #1 (OH)	CTG-SR-SS	Continuous gyro - surface ref. s/s	
1,405.0	10,149.0	MWD #1 (OH)	MWD	MWD - Standard	
10,180.0	17,319.0	MWD #2 (OH)	MWD	MWD - Standard	

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)	
0.0	0.00	0.00	0.0	-3,322.0	0.0	0.0	0.0	0.00	393,612.30	739,021.30	
200.0	0.06	308.73	200.0	-3,122.0	0.1	-0.1	0.1	0.03	393,612.37	739,021.22	
400.0	0.60	231.22	400.0	-2,922.0	-0.5	-1.0	-0.5	0.29	393,611.78	739,020.32	
600.0	0.81	232.02	600.0	-2,722.0	-2.1	-2.9	-2.0	0.11	393,610.25	739,018.39	
800.0	0.57	207.68	800.0	-2,522.0	-3.8	-4.5	-3.8	0.19	393,608.50	739,016.81	
1,000.0	1.41	40.63	1,000.0	-2,322.0	-2.8	-3.3	-2.8	0.98	393,609.48	739,017.95	
1,200.0	2.97	40.67	1,199.8	-2,122.2	3.0	1.6	3.0	0.78	393,615.28	739,022.93	
1,300.0	3.09	41.39	1,299.7	-2,022.3	7.0	5.1	6.9	0.13	393,619.27	739,026.40	
1,405.0	3.17	39.52	1,404.5	-1,917.5	11.3	8.8	11.3	0.12	393,623.63	739,030.12	
1,500.0	2.55	25.24	1,499.4	-1,822.6	15.3	11.4	15.2	0.99	393,627.57	739,032.69	
1,595.0	1.76	359.58	1,594.3	-1,727.7	18.6	12.3	18.6	1.29	393,630.94	739,033.58	
1,689.0	1.06	321.09	1,688.3	-1,633.7	20.8	11.7	20.7	1.21	393,633.06	739,033.03	
1,784.0	0.70	252.84	1,783.3	-1,538.7	21.3	10.6	21.2	1.09	393,633.57	739,031.92	
1,973.0	0.62	201.89	1,972.3	-1,349.7	20.0	9.1	19.9	0.30	393,632.28	739,030.44	
2,164.0	0.62	165.94	2,163.3	-1,158.7	18.0	9.0	18.0	0.20	393,630.32	739,030.30	
2,355.0	0.53	92.49	2,354.3	-967.7	17.0	10.1	16.9	0.36	393,629.28	739,031.44	
2,545.0	0.97	81.50	2,544.2	-777.8	17.2	12.6	17.1	0.24	393,629.48	739,033.91	
2,640.0	0.44	57.60	2,639.2	-682.8	17.5	13.7	17.4	0.63	393,629.80	739,035.01	
2,831.0	0.53	235.85	2,830.2	-491.8	17.4	13.6	17.3	0.51	393,629.69	739,034.90	
3,021.0	0.79	221.63	3,020.2	-301.8	15.9	12.0	15.9	0.16	393,628.22	739,033.30	

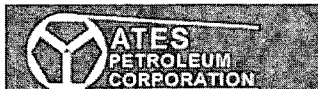


Pathfinder PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H:
Project:	Lea County(NAD 83)	TVD Reference:	KB = 25 @ 3322.0usft (Cactus 124)
Site:	Jefe BSJ Federal Com	MD Reference:	KB = 25 @ 3322.0usft (Cactus 124)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)	
3,202.0	1.41	218.78	3,201.2	-120.8	13.3	9.8	13.2	0.34	393,625.55	739,031.08	
3,402.0	0.44	97.74	3,401.2	79.2	11.2	9.0	11.2	0.84	393,623.53	739,030.30	
3,592.0	0.88	90.99	3,591.1	269.1	11.1	11.2	11.1	0.23	393,623.41	739,032.48	
3,781.0	0.44	74.05	3,780.1	458.1	11.3	13.3	11.2	0.25	393,623.58	739,034.63	
3,972.0	1.67	109.16	3,971.1	649.1	10.6	16.7	10.5	0.70	393,622.87	739,037.96	
4,066.0	1.23	133.58	4,065.1	743.1	9.4	18.7	9.3	0.80	393,621.72	739,039.98	
4,160.0	1.49	178.17	4,159.0	837.0	7.5	19.5	7.4	1.13	393,619.81	739,040.75	
4,255.0	0.79	173.47	4,254.0	932.0	5.6	19.6	5.5	0.74	393,617.92	739,040.87	
4,350.0	0.35	97.40	4,349.0	1,027.0	4.9	19.9	4.8	0.82	393,617.23	739,041.23	
4,445.0	0.44	115.37	4,444.0	1,122.0	4.7	20.5	4.6	0.16	393,617.04	739,041.85	
4,514.0	0.35	143.28	4,513.0	1,191.0	4.5	20.9	4.4	0.30	393,616.76	739,042.21	
4,641.0	0.09	145.13	4,640.0	1,318.0	4.1	21.2	4.0	0.20	393,616.36	739,042.50	
4,831.0	0.09	114.88	4,830.0	1,508.0	3.9	21.4	3.8	0.02	393,616.18	739,042.72	
5,021.0	0.18	68.11	5,020.0	1,698.0	3.9	21.8	3.8	0.07	393,616.23	739,043.14	
5,211.0	0.26	37.70	5,210.0	1,888.0	4.4	22.4	4.3	0.07	393,616.68	739,043.68	
5,400.0	0.26	62.42	5,399.0	2,077.0	4.9	23.0	4.8	0.06	393,617.22	739,044.32	
5,588.0	0.53	304.91	5,587.0	2,265.0	5.6	22.7	5.5	0.37	393,617.91	739,043.98	
5,779.0	0.62	310.35	5,778.0	2,456.0	6.8	21.2	6.7	0.06	393,619.09	739,042.47	
5,969.0	0.79	310.78	5,968.0	2,646.0	8.3	19.4	8.2	0.09	393,620.61	739,040.70	
6,159.0	0.79	325.14	6,158.0	2,836.0	10.2	17.7	10.2	0.10	393,622.54	739,038.96	
6,349.0	0.79	298.62	6,348.0	3,026.0	11.9	15.8	11.9	0.19	393,624.24	739,037.06	
6,539.0	0.62	282.45	6,537.9	3,215.9	12.8	13.6	12.7	0.14	393,625.09	739,034.90	
6,729.0	0.53	267.08	6,727.9	3,405.9	13.0	11.7	12.9	0.09	393,625.27	739,033.02	
6,919.0	0.62	263.28	6,917.9	3,595.9	12.8	9.8	12.8	0.05	393,625.10	739,031.12	
7,108.0	0.44	258.29	7,106.9	3,784.9	12.5	8.1	12.5	0.10	393,624.84	739,029.40	
7,298.0	0.18	81.01	7,296.9	3,974.9	12.4	7.7	12.4	0.33	393,624.73	739,028.98	
7,487.0	0.88	20.86	7,485.9	4,163.9	13.8	8.5	13.8	0.43	393,626.14	739,029.79	



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Project:	Lea County(NAD.83)	TVD Reference:	KB = 25 @ 3322.0usft (Cactus 124)
Site:	Jefe BSJ Federal Com	MD Reference:	KB = 25 @ 3322.0usft (Cactus 124)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)	
7,677.0	0.26	353.12	7,675.9	4,353.9	15.6	9.0	15.6	0.35	393,627.93	739,030.26	
7,868.0	0.18	68.26	7,866.9	4,544.9	16.2	9.2	16.1	0.14	393,628.47	739,030.48	
8,058.0	0.18	216.39	8,056.9	4,734.9	16.0	9.3	16.0	0.18	393,628.34	739,030.58	
8,247.0	0.44	208.93	8,245.9	4,923.9	15.2	8.8	15.1	0.14	393,627.47	739,030.06	
8,439.0	0.44	236.21	8,437.9	5,115.9	14.1	7.8	14.1	0.11	393,626.41	739,029.09	
8,628.0	0.44	200.18	8,626.9	5,304.9	13.0	6.9	13.0	0.14	393,625.33	739,028.23	
8,818.0	0.53	216.22	8,816.9	5,494.9	11.6	6.2	11.6	0.09	393,623.93	739,027.46	
9,009.0	0.62	203.67	9,007.9	5,685.9	10.0	5.2	9.9	0.08	393,622.27	739,026.53	
9,200.0	0.62	232.73	9,198.9	5,876.9	8.4	4.0	8.4	0.16	393,620.70	739,025.29	
9,389.0	0.79	143.59	9,387.8	6,065.8	6.7	3.9	6.7	0.53	393,619.03	739,025.25	
9,579.0	1.23	140.12	9,577.8	6,255.8	4.1	6.0	4.1	0.23	393,616.41	739,027.33	
9,675.0	1.76	178.89	9,673.8	6,351.8	-1.8	6.7	1.8	1.16	393,614.15	739,028.02	
9,833.0	1.58	173.50	9,831.7	6,509.7	-2.7	7.0	-2.8	0.15	393,609.56	739,028.32	
9,954.0	0.79	208.27	9,952.7	6,630.7	-5.1	6.8	-5.2	0.85	393,607.17	739,028.11	
10,149.0	0.62	246.85	10,147.7	6,825.7	-6.7	5.2	-6.8	0.25	393,605.57	739,026.50	
10,166.0	2.25	358.68	10,164.7	6,842.7	-6.4	5.1	-6.5	14.99	393,605.87	739,026.41	
KOP - 10166.0 MD, 10164.7 TVD, -6.5°N, 5.2°E											
10,197.0	6.86	7.49	10,195.6	6,873.6	-4.0	5.3	-4.0	14.99	393,608.31	739,026.64	
10,229.0	10.90	2.76	10,227.2	6,905.2	0.9	5.7	0.9	12.82	393,613.23	739,027.03	
10,260.0	14.77	359.95	10,257.4	6,935.4	7.8	5.9	7.8	12.64	393,620.11	739,027.17	
10,292.0	18.73	357.76	10,288.0	6,966.0	17.0	5.7	17.0	12.53	393,629.33	739,026.97	
10,304.0	20.14	357.00	10,299.3	6,977.3	21.0	5.5	21.0	11.94	393,633.32	739,026.78	
10,323.0	22.16	355.49	10,317.1	6,995.1	27.9	5.0	27.8	11.01	393,640.16	739,026.33	
10,354.0	25.76	355.22	10,345.4	7,023.4	40.4	4.0	40.4	11.62	393,652.70	739,025.31	
10,386.0	31.30	354.58	10,373.5	7,051.5	55.6	2.6	55.6	17.34	393,667.92	739,023.94	
10,417.0	36.93	353.48	10,399.1	7,077.1	72.9	0.8	72.9	18.27	393,685.20	739,022.12	
10,449.0	41.42	353.16	10,423.9	7,101.9	93.0	-1.5	93.0	14.05	393,705.27	739,019.77	



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10,480.0	45.20	352.94	10,446.5	7,124.5	114.1	-4.1	114.1	12.20	393,726.38	739,017.20	
10,512.0	48.54	353.52	10,468.4	7,146.4	137.3	-6.9	137.3	10.52	393,749.57	739,014.45	
10,543.0	52.14	355.27	10,488.2	7,166.2	161.0	-9.2	161.1	12.40	393,773.31	739,012.12	
10,575.0	55.84	356.12	10,507.0	7,185.0	186.8	-11.1	186.9	11.76	393,799.12	739,010.19	
10,606.0	59.53	356.39	10,523.5	7,201.5	213.0	-12.8	213.0	11.93	393,825.26	739,008.48	
10,638.0	63.58	356.36	10,538.8	7,216.8	241.0	-14.6	241.1	12.66	393,853.33	739,006.70	
10,669.0	67.80	357.29	10,551.5	7,229.5	269.2	-16.2	269.3	13.88	393,881.53	739,005.14	
10,700.0	71.58	358.82	10,562.3	7,240.3	298.3	-17.1	298.4	13.04	393,910.58	739,004.16	
10,731.0	75.97	359.86	10,571.0	7,249.0	328.0	-17.5	328.1	14.52	393,940.34	739,003.82	
10,752.0	78.61	0.25	10,575.6	7,253.6	348.5	-17.5	348.6	12.70	393,960.82	739,003.84	
10,784.0	82.52	0.30	10,580.8	7,258.8	380.1	-17.3	380.2	12.22	393,992.38	739,003.99	
10,815.0	84.06	1.09	10,584.4	7,262.4	410.9	-16.9	410.9	5.58	394,023.17	739,004.36	
10,847.0	85.03	1.02	10,587.5	7,265.5	442.7	-16.4	442.8	3.04	394,055.02	739,004.95	
10,878.0	85.56	1.54	10,590.0	7,268.0	473.6	-15.7	473.7	2.39	394,085.90	739,005.64	
10,910.0	85.91	1.61	10,592.4	7,270.4	505.5	-14.8	505.6	1.12	394,117.80	739,006.52	
10,942.0	86.26	0.95	10,594.6	7,272.6	537.4	-14.1	537.5	2.33	394,149.72	739,007.23	
10,974.0	86.26	1.71	10,596.7	7,274.7	569.3	-13.3	569.4	2.37	394,181.64	739,007.97	
11,037.0	88.20	1.88	10,599.7	7,277.7	632.2	-11.4	632.3	3.09	394,244.54	739,009.94	
11,100.0	90.13	0.77	10,600.6	7,278.6	695.2	-9.9	695.2	3.53	394,307.51	739,011.40	
LP - 11100.0 MD, 10600.6 TVD, 695.1 N, -9.5 E											
11,132.0	90.75	0.87	10,600.4	7,278.4	727.2	-9.4	727.2	1.96	394,339.50	739,011.86	
11,157.0	91.10	1.08	10,600.0	7,278.0	752.2	-9.0	752.2	1.63	394,364.50	739,012.28	
11,226.0	90.66	0.00	10,598.9	7,276.9	821.2	-8.4	821.2	1.69	394,433.49	739,012.93	
11,257.0	90.92	0.32	10,598.5	7,276.5	852.2	-8.3	852.2	1.33	394,464.48	739,013.02	
11,320.0	90.22	0.25	10,597.9	7,275.9	915.2	-8.0	915.2	1.12	394,527.48	739,013.33	
11,415.0	89.60	359.87	10,598.0	7,276.0	1,010.2	-7.9	1,010.2	0.77	394,622.48	739,013.43	
11,509.0	90.40	0.81	10,598.0	7,276.0	1,104.2	-7.3	1,104.2	1.31	394,716.47	739,013.99	



Pathfinder

PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company: Yates Petroleum Corp.
Project: Lea County(NAD 83)
Site: Jefe BSJ Federal Com
Well: #1H
Wellbore: OH
Design: OH

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

Well #1H
KB = 25 @ 3322.0usft (Cactus 124)
KB = 25 @ 3322.0usft (Cactus 124)
Grid
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)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
11,605.0	89.16	359.63	10,598.4	7,276.4	1,200.2	-6.9	1,200.2	1.78	394,812.47	739,014.36
11,699.0	89.96	0.06	10,599.1	7,277.1	1,294.2	-7.2	1,294.2	0.97	394,906.46	739,014.10
11,794.0	89.25	0.07	10,599.8	7,277.8	1,389.2	-7.1	1,389.2	0.75	395,001.46	739,014.21
11,888.0	89.52	0.03	10,600.8	7,278.8	1,483.2	-7.0	1,483.2	0.29	395,095.46	739,014.29
11,983.0	89.78	0.58	10,601.4	7,279.4	1,578.2	-6.5	1,578.2	0.64	395,190.45	739,014.80
12,077.0	90.22	0.89	10,601.4	7,279.4	1,672.1	-5.3	1,672.2	0.57	395,284.44	739,016.00
12,171.0	90.40	359.67	10,600.9	7,278.9	1,766.1	-4.8	1,766.1	1.31	395,378.44	739,016.46
12,266.0	89.43	358.57	10,601.0	7,279.0	1,861.1	-6.3	1,861.1	1.54	395,473.43	739,015.00
12,361.0	89.78	359.12	10,601.6	7,279.6	1,956.1	-8.2	1,956.1	0.69	395,568.40	739,013.09
12,455.0	90.48	359.36	10,601.4	7,279.4	2,050.1	-9.5	2,050.1	0.79	395,662.39	739,011.84
12,550.0	89.87	358.98	10,601.1	7,279.1	2,145.1	-10.8	2,145.1	0.76	395,757.38	739,010.47
12,644.0	91.01	359.96	10,600.4	7,278.4	2,239.1	-11.7	2,239.1	1.60	395,851.37	739,009.60
12,738.0	90.75	359.84	10,599.0	7,277.0	2,333.1	-11.9	2,333.1	0.30	395,945.36	739,009.43
12,832.0	91.54	0.08	10,597.1	7,275.1	2,427.0	-11.9	2,427.1	0.88	396,039.34	739,009.37
12,926.0	90.40	0.27	10,595.5	7,273.5	2,521.0	-11.6	2,521.1	1.23	396,133.33	739,009.65
13,021.0	91.10	1.31	10,594.3	7,272.3	2,616.0	-10.3	2,616.0	1.32	396,228.31	739,010.96
13,115.0	90.66	359.95	10,592.8	7,270.8	2,710.0	-9.3	2,710.0	1.52	396,322.29	739,012.00
13,209.0	91.19	0.75	10,591.3	7,269.3	2,804.0	-8.7	2,804.0	1.02	396,416.27	739,012.57
13,303.0	90.92	0.07	10,589.6	7,267.6	2,898.0	-8.1	2,898.0	0.78	396,510.26	739,013.24
13,398.0	91.19	0.37	10,587.8	7,265.8	2,992.9	-7.7	2,992.9	0.42	396,605.24	739,013.61
13,511.0	90.75	359.88	10,585.9	7,263.9	3,105.9	-7.4	3,105.9	0.58	396,718.22	739,013.85
13,605.0	91.36	359.71	10,584.2	7,262.2	3,199.9	-7.8	3,199.9	0.67	396,812.20	739,013.52
13,700.0	91.10	0.06	10,582.1	7,260.1	3,294.9	-8.0	3,294.9	0.46	396,907.18	739,013.33
13,794.0	91.98	359.79	10,579.6	7,257.6	3,388.8	-8.1	3,388.9	0.98	397,001.15	739,013.20
13,888.0	92.51	359.27	10,575.9	7,253.9	3,482.8	-8.9	3,482.8	0.79	397,095.07	739,012.43
14,056.0	92.07	358.30	10,569.2	7,247.2	3,650.6	-12.4	3,650.6	0.63	397,262.90	739,008.87
14,151.0	91.98	358.30	10,565.9	7,243.9	3,745.5	-15.2	3,745.5	0.09	397,357.80	739,006.06



Pathfinder PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County(NAD 83)	TVD Reference:	KB = 25 @ 3322.0usft (Cactus 124)
Site:	Jefe BSJ Federal Com	MD Reference:	KB = 25 @ 3322.0usft (Cactus 124)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)	
14,246.0	91.71	359.00	10,562.8	7,240.8	3,840.4	-17.5	3,840.5	0.79	397,452.72	739,003.82	
14,340.0	91.10	359.18	10,560.5	7,238.5	3,934.4	-19.0	3,934.4	0.68	397,546.68	739,002.33	
14,435.0	91.45	359.27	10,558.4	7,236.4	4,029.3	-20.3	4,029.4	0.38	397,641.65	739,001.04	
14,530.0	92.33	359.00	10,555.3	7,233.3	4,124.3	-21.7	4,124.3	0.97	397,736.58	738,999.61	
14,624.0	91.89	359.62	10,551.8	7,229.8	4,218.2	-22.8	4,218.3	0.81	397,830.51	738,998.48	
14,719.0	91.54	359.53	10,548.9	7,226.9	4,313.2	-23.5	4,313.2	0.38	397,925.47	738,997.78	
14,814.0	92.15	359.62	10,545.9	7,223.9	4,408.1	-24.2	4,408.2	0.65	398,020.41	738,997.07	
14,908.0	92.24	359.27	10,542.3	7,220.3	4,502.0	-25.1	4,502.1	0.38	398,114.34	738,996.16	
15,003.0	91.89	359.44	10,538.9	7,216.9	4,597.0	-26.2	4,597.0	0.41	398,209.27	738,995.09	
15,097.0	92.24	359.62	10,535.5	7,213.5	4,690.9	-27.0	4,691.0	0.42	398,303.21	738,994.32	
15,192.0	92.15	359.71	10,531.8	7,209.8	4,785.8	-27.5	4,785.9	0.13	398,398.14	738,993.77	
15,287.0	91.28	0.50	10,529.0	7,207.0	4,880.8	-27.4	4,880.9	1.24	398,493.09	738,993.94	
15,322.0	91.54	0.67	10,528.1	7,206.1	4,915.8	-27.0	4,915.9	0.89	398,528.08	738,994.30	
15,416.0	90.31	0.32	10,526.6	7,204.6	5,009.8	-26.2	5,009.8	1.36	398,622.06	738,995.11	
15,511.0	90.22	359.79	10,526.2	7,204.2	5,104.8	-26.1	5,104.8	0.57	398,717.06	738,995.20	
15,607.0	90.84	359.62	10,525.3	7,203.3	5,200.8	-26.6	5,200.8	0.67	398,813.05	738,994.71	
15,700.0	89.78	359.88	10,524.8	7,202.8	5,293.8	-27.0	5,293.8	1.17	398,906.05	738,994.30	
15,795.0	90.48	0.06	10,524.6	7,202.6	5,388.8	-27.0	5,388.8	0.76	399,001.05	738,994.25	
15,889.0	90.75	359.35	10,523.6	7,201.6	5,482.7	-27.5	5,482.8	0.81	399,095.04	738,993.77	
15,984.0	90.57	359.71	10,522.5	7,200.5	5,577.7	-28.3	5,577.8	0.42	399,190.03	738,992.99	
16,078.0	88.90	359.27	10,522.9	7,200.9	5,671.7	-29.1	5,671.8	1.84	399,284.03	738,992.15	
16,172.0	88.99	359.09	10,524.6	7,202.6	5,765.7	-30.5	5,765.8	0.21	399,378.00	738,990.81	
16,266.0	89.69	359.09	10,525.7	7,203.7	5,859.7	-32.0	5,859.8	0.74	399,471.98	738,989.31	
16,360.0	90.40	359.00	10,525.6	7,203.6	5,953.7	-33.6	5,953.8	0.76	399,565.97	738,987.75	
16,455.0	90.48	359.35	10,524.9	7,202.9	6,048.7	-34.9	6,048.7	0.38	399,660.95	738,986.38	
16,549.0	88.90	359.79	10,525.4	7,203.4	6,142.6	-35.6	6,142.7	1.74	399,754.95	738,985.67	
16,644.0	89.43	359.88	10,526.8	7,204.8	6,237.6	-35.9	6,237.7	0.57	399,849.94	738,985.40	



Pathfinder
PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County(NAD 83)	TVD Reference:	KB = 25 @ 3322.0usft (Cactus 124)
Site:	Jefe.BSJ Federal Com	MD Reference:	KB = 25 @ 3322.0usft (Cactus 124)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)	
16,739.0	90.40	359.88	10,526.9	7,204.9	6,332.6	-36.1	6,332.7	1.02	399,944.93	738,985.20	
16,827.0	89.87	0.32	10,526.7	7,204.7	6,420.6	-35.9	6,420.7	0.78	400,032.93	738,985.36	
16,922.0	90.04	0.76	10,526.8	7,204.8	6,515.6	-35.0	6,515.7	0.50	400,127.93	738,986.25	
17,016.0	90.57	0.41	10,526.3	7,204.3	6,609.6	-34.1	6,609.7	0.68	400,221.92	738,987.21	
17,112.0	89.60	0.67	10,526.2	7,204.2	6,705.6	-33.2	6,705.7	1.05	400,317.92	738,988.11	
17,204.0	90.31	0.58	10,526.2	7,204.2	6,797.6	-32.2	6,797.7	0.78	400,409.91	738,989.12	
17,319.0	90.31	0.58	10,525.6	7,203.6	6,912.6	-31.0	6,912.7	0.00	400,524.90	738,990.28	
PROJECTED BHL - 17319.0 'MD, 10525.6 'TVD, 6912.5 'N, -30.6 'E - FWL:660', FNL:678', FEL:660'											

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,166.0	10,164.7	-6.4	5.1	KOP - 10166.0 'MD, 10164.7 'TVD, -6.5 'N, 5.2 'E
11,100.0	10,600.6	695.2	-9.9	LP - 11100.0 'MD, 10600.6 'TVD, 695.1 'N, -9.5 'E
17,319.0	10,525.6	6,912.6	-31.0	PROJECTED BHL - 17319.0 'MD, 10525.6 'TVD, 6912.5 'N, -30.6 'E
17,319.0	10,525.6	6,912.6	-31.0	FWL:660', FNL:678', FEL:660'

Checked By: _____ Approved By: _____ Date: _____



HOBBS OCD
JAN 16 2013
RECEIVED

Yates Petroleum Corp.

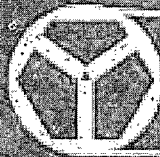
Lea County(NAD 83)
Jefe BSJ Federal Com
#1H
OH

Design: OH

PathfinderX & Y Report

14 November, 2012

PATHFINDER[®]
A Schlumberger Company



**ATES
PETROLEUM
CORPORATION**

PROJECT DETAILS: Lea County(NAD 83)
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

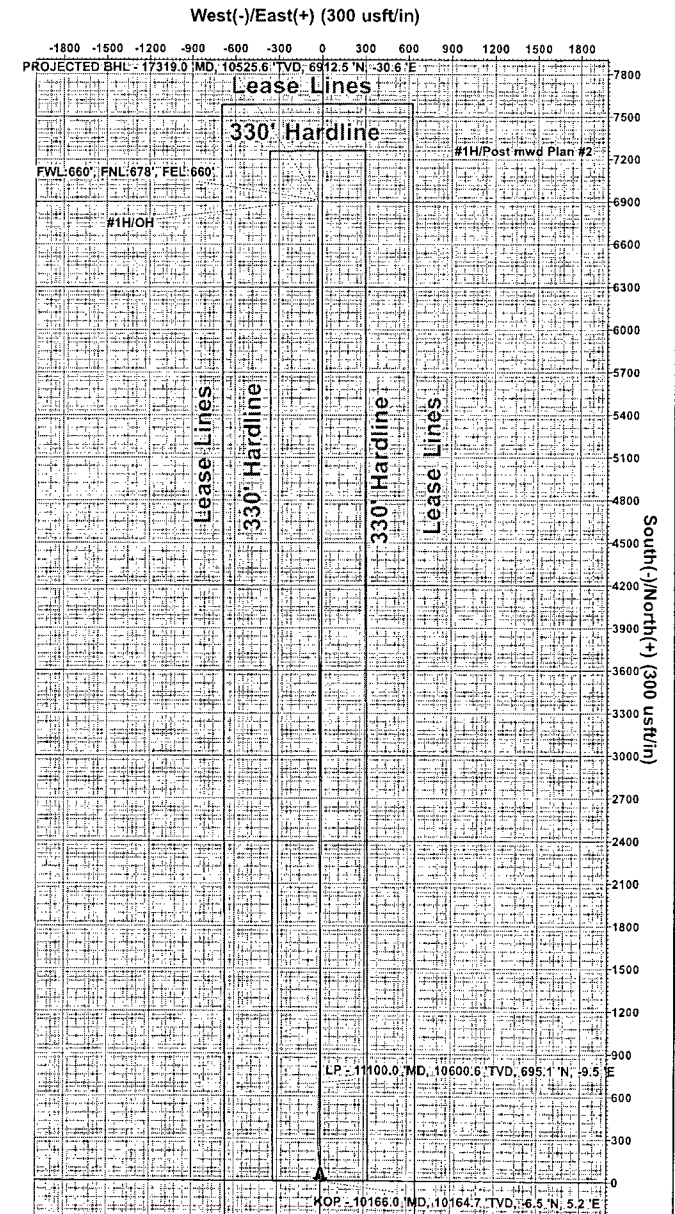
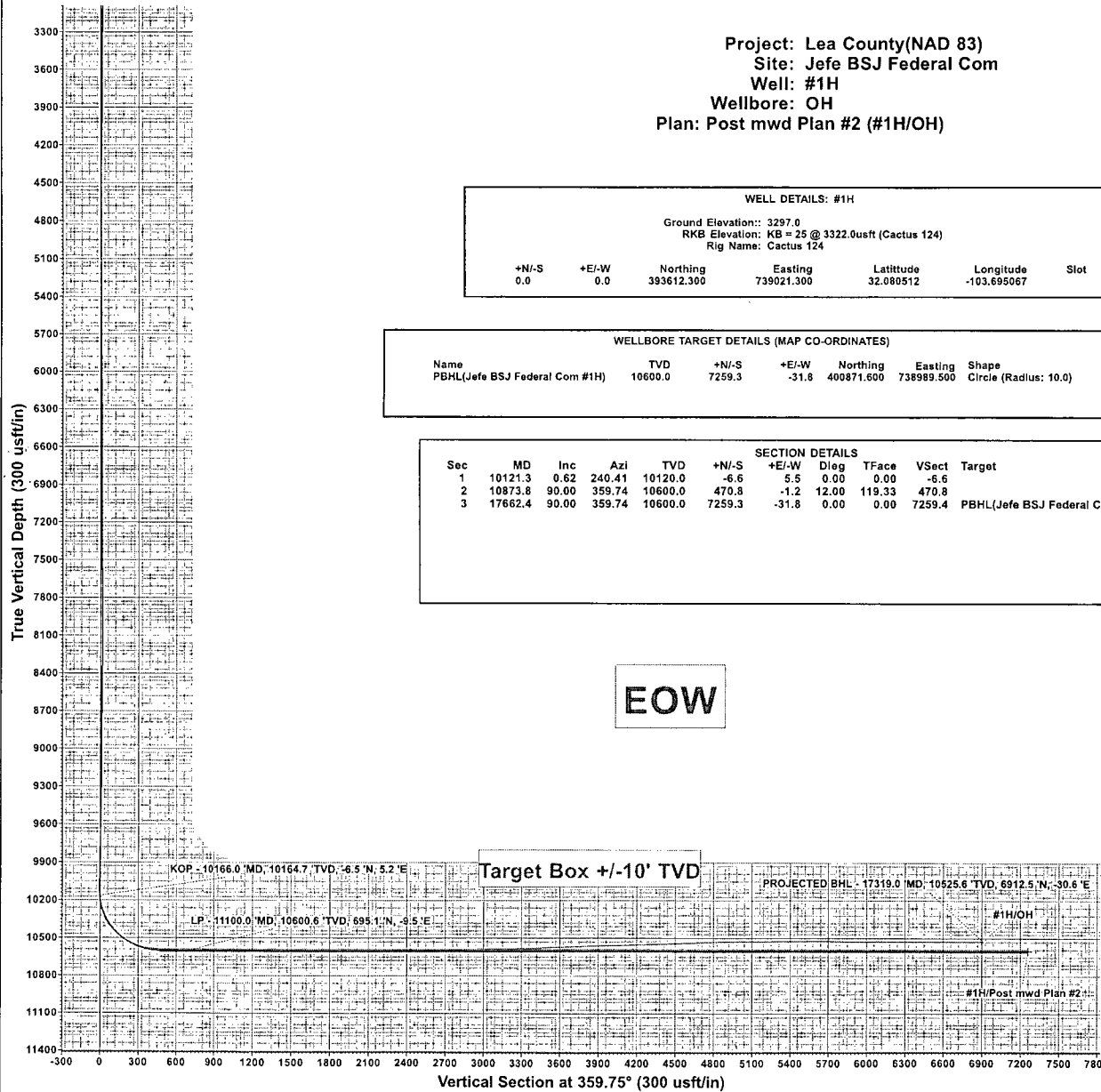


Azimuths to Grid North
True North: -0.34°
Magnetic North: 7.14°

Magnetic Field
Strength: 48440.0snT
Dip Angle: 60.03°
Date: 8/22/2012
Model: IGRF200510

PATHFINDER®

A Schlumberger Company



Plan: Post mwd Plan #2 (#1H/OH)

Created By: Sam Biffle Date: 16/43, November 14 2012

Checked: Date:

Notes: Petroleum Corp
Lea County, NM
Jefe BSJ Federal Com
Jefe BSJ Federal Com
Cactus 124
Nov 14/12 Page 12