

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210
Phone (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-6176 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-70986	Acres 422.99	Pool Name LOST TANK DELAWARE
Property Code 39601	Property Name HOMBRE BRH STATE COM	Well Number 1H
OSRID No. 025575	Operator Name YATES PETROLEUM CORP.	Elevation 3632'

Surface Location

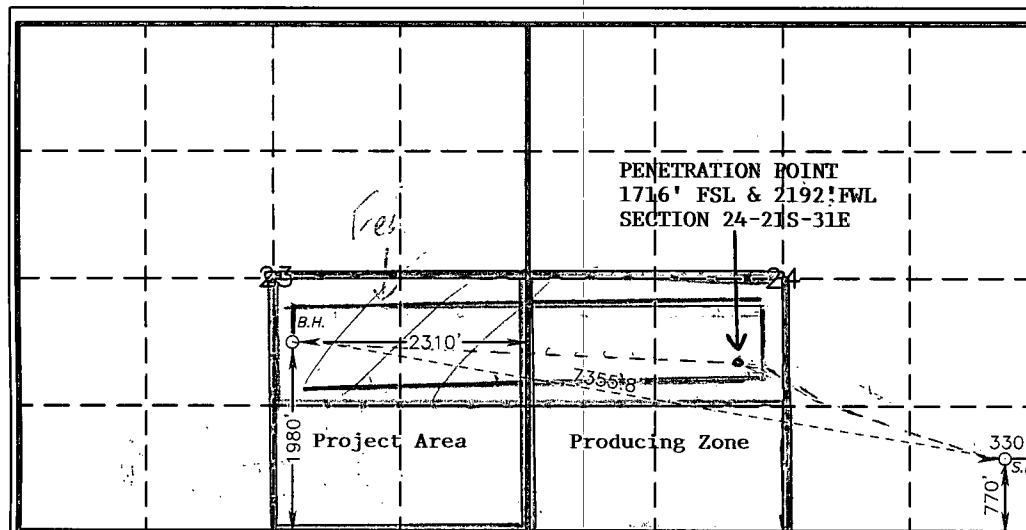
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	24	21 S	31 E		770	SOUTH	330	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	23	21 S	31 E		1980	SOUTH	2310	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



PROPOSED BOTTOM
HOLE LOCATION

Lat - N 32°27'44.18"
Long - W 103°44'51.12"
NMSPCE- N 532401.869
E 722013.228
(NAD-83)

SURFACE LOCATION

Lat - N 32°27'32.24"
Long - W 103°43'26.43"
NMSPCE- N 531235.075
E 729275.943
(NAD-83)

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Travis Hahn 12/20/12
Signature Date

TRAVIS HAHN

Printed Name

THahn@yatespetroleum.com
Email Address

SURVEYOR CERTIFICATION

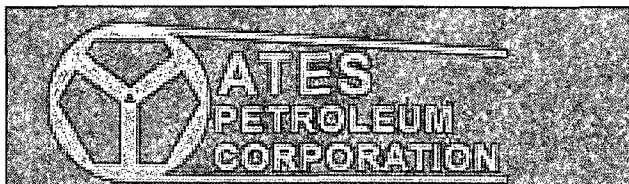
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Surveyed OCTOBER 2011
Signature & Seal of Professional Surveyor GARY L. JONES
Certificate No. Gary L. Jones 7977
BASIN SURVEYS

RECEIVED

DEC 20 2012

NMOCD ARTESIA



Yates Petroleum Corp.

Eddy County (NAD 83)

Hombre BRH State Com

#1H

OH

Plan: Plan #4

PathfinderX & Y Report

13 December, 2012

PATHFINDER[®]

A Schlumberger Company



Pathfinder

PathfinderX & Y Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County (NAD 83)	TVD Reference:	WELL @ 3632.0usft (Original Well Elev)
Site:	Hombre BRH State Com	MD Reference:	WELL @ 3632.0usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	Database:	EDM:5000:1 Single User Db

Project	Eddy 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		

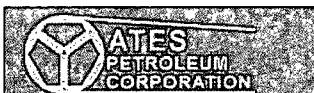
Site	Hombre BRH State Com		
Site Position:		Northing:	531,235.075 usft
From:	Map	Easting:	729,275.943 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32.458955
		Longitude:	-103.724007
		Grid Convergence:	0.33 °

Well	#1H					
Well Position	+N/-S	0.0 usft	Northing:	531,235.075 usft	Latitude:	32.458955
	+E/-W	0.0 usft	Easting:	729,275.943 usft	Longitude:	-103.724007
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,632.0 usft

Wellbore		OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	5/29/2012	7.55	60.38	48,684

Design		Plan #4		
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	279.13

Survey Tool Program		Date 12/13/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	13,664.6	Plan #4 (OH)	MWD	MWD - Standard



Pathfinder

PathfinderX & Y Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County (NAD 83)	TVD Reference:	WELL @ 3632.0usft (Original Well Elev)
Site:	Hombre BRH State Com	MD Reference:	WELL @ 3632.0usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	Database:	EDM 5000.1 Single User Db

Planned 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	-3,632.0	0.0	0.0	0.0	0.00	531,235.08	729,275.94	
100.0	0.00	0.00	100.0	-3,532.0	0.0	0.0	0.0	0.00	531,235.08	729,275.94	
200.0	0.00	0.00	200.0	-3,432.0	0.0	0.0	0.0	0.00	531,235.08	729,275.94	
300.0	0.00	0.00	300.0	-3,332.0	0.0	0.0	0.0	0.00	531,235.08	729,275.94	
400.0	0.00	0.00	400.0	-3,232.0	0.0	0.0	0.0	0.00	531,235.08	729,275.94	
500.0	0.00	0.00	500.0	-3,132.0	0.0	0.0	0.0	0.00	531,235.08	729,275.94	
600.0	0.00	0.00	600.0	-3,032.0	0.0	0.0	0.0	0.00	531,235.08	729,275.94	
700.0	0.00	0.00	700.0	-2,932.0	0.0	0.0	0.0	0.00	531,235.08	729,275.94	
800.0	0.00	0.00	800.0	-2,832.0	0.0	0.0	0.0	0.00	531,235.08	729,275.94	
830.0	0.00	0.00	830.0	-2,802.0	0.0	0.0	0.0	0.00	531,235.08	729,275.94	
Rustler											
900.0	0.00	0.00	900.0	-2,732.0	0.0	0.0	0.0	0.00	531,235.08	729,275.94	
1,000.0	0.00	0.00	1,000.0	-2,632.0	0.0	0.0	0.0	0.00	531,235.08	729,275.94	
1,100.0	0.00	0.00	1,100.0	-2,532.0	0.0	0.0	0.0	0.00	531,235.08	729,275.94	
1,152.0	0.00	0.00	1,152.0	-2,480.0	0.0	0.0	0.0	0.00	531,235.08	729,275.94	
TOS											
1,200.0	0.00	0.00	1,200.0	-2,432.0	0.0	0.0	0.0	0.00	531,235.08	729,275.94	
1,300.0	0.00	0.00	1,300.0	-2,332.0	0.0	0.0	0.0	0.00	531,235.08	729,275.94	
1,400.0	0.00	0.00	1,400.0	-2,232.0	0.0	0.0	0.0	0.00	531,235.08	729,275.94	
1,500.0	0.00	0.00	1,500.0	-2,132.0	0.0	0.0	0.0	0.00	531,235.08	729,275.94	
1,600.0	0.00	0.00	1,600.0	-2,032.0	0.0	0.0	0.0	0.00	531,235.08	729,275.94	
1,700.0	0.00	0.00	1,700.0	-1,932.0	0.0	0.0	0.0	0.00	531,235.08	729,275.94	
1,800.0	0.00	0.00	1,800.0	-1,832.0	0.0	0.0	0.0	0.00	531,235.08	729,275.94	
1,900.0	0.00	0.00	1,900.0	-1,732.0	0.0	0.0	0.0	0.00	531,235.08	729,275.94	
2,000.0	0.00	0.00	2,000.0	-1,632.0	0.0	0.0	0.0	0.00	531,235.08	729,275.94	
2,100.0	3.00	298.01	2,100.0	-1,532.0	1.2	-2.3	2.5	3.00	531,236.30	729,273.63	
2,200.0	6.00	298.01	2,199.6	-1,432.4	4.9	-9.2	9.9	3.00	531,239.99	729,266.71	



Pathfinder

PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County (NAD 83)	TVD Reference:	WELL @ 3632.0usft (Original Well Elev)
Site:	Hombre BRH State Com	MD Reference:	WELL @ 3632.0usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	Database:	EDM 5000.1 Single User Db

Planned 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)	
2,300.0	9.00	298.01	2,298.8	-1,333.2	11.0	-20.8	22.2	3.00	531,246.12	729,255.18	
2,400.0	12.00	298.01	2,397.1	-1,234.9	19.6	-36.8	39.5	3.00	531,254.67	729,239.09	
2,500.0	15.00	298.01	2,494.3	-1,137.7	30.6	-57.5	61.6	3.00	531,265.63	729,218.49	
2,600.0	18.00	298.01	2,590.2	-1,041.8	43.9	-82.5	88.4	3.00	531,278.97	729,193.41	
2,700.0	21.00	298.01	2,684.4	-947.6	59.6	-112.0	120.0	3.00	531,294.64	729,163.94	
2,805.5	24.16	298.01	2,781.8	-850.2	78.6	-147.8	158.4	3.00	531,313.66	729,128.18	
2,900.0	24.16	298.01	2,868.1	-763.9	96.7	-181.9	195.0	0.00	531,331.82	729,094.02	
3,000.0	24.16	298.01	2,959.3	-672.7	116.0	-218.1	233.7	0.00	531,351.04	729,057.88	
3,100.0	24.16	298.01	3,050.5	-581.5	135.2	-254.2	272.4	0.00	531,370.27	729,021.74	
3,200.0	24.16	298.01	3,141.8	-490.2	154.4	-290.3	311.2	0.00	531,389.49	728,985.60	
3,300.0	24.16	298.01	3,233.0	-399.0	173.6	-326.5	349.9	0.00	531,408.71	728,949.45	
3,400.0	24.16	298.01	3,324.2	-307.8	192.9	-362.6	388.6	0.00	531,427.93	728,913.31	
3,500.0	24.16	298.01	3,415.5	-216.5	212.1	-398.8	427.4	0.00	531,447.15	728,877.17	
3,600.0	24.16	298.01	3,506.7	-125.3	231.3	-434.9	466.1	0.00	531,466.37	728,841.03	
3,700.0	24.16	298.01	3,597.9	-34.1	250.5	-471.1	504.8	0.00	531,485.60	728,804.88	
3,800.0	24.16	298.01	3,689.2	57.2	269.7	-507.2	543.6	0.00	531,504.82	728,768.74	
3,900.0	24.16	298.01	3,780.4	148.4	289.0	-543.3	582.3	0.00	531,524.04	728,732.60	
4,000.0	24.16	298.01	3,871.7	239.7	308.2	-579.5	621.0	0.00	531,543.26	728,696.45	
4,100.0	24.16	298.01	3,962.9	330.9	327.4	-615.6	659.8	0.00	531,562.48	728,660.31	
4,200.0	24.16	298.01	4,054.1	422.1	346.6	-651.8	698.5	0.00	531,581.70	728,624.17	
4,300.0	24.16	298.01	4,145.4	513.4	365.8	-687.9	737.2	0.00	531,600.92	728,588.03	
4,359.9	24.16	298.01	4,200.0	568.0	377.4	-709.6	760.4	0.00	531,612.43	728,566.39	
BOS											
4,400.0	24.16	298.01	4,236.6	604.6	385.1	-724.1	776.0	0.00	531,620.15	728,551.88	
4,500.0	24.16	298.01	4,327.8	695.8	404.3	-760.2	814.7	0.00	531,639.37	728,515.74	
4,600.0	24.16	298.01	4,419.1	787.1	423.5	-796.3	853.4	0.00	531,658.59	728,479.60	



Pathfinder

PathfinderX & Y Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County (NAD 83)	TVD Reference:	WELL @ 3632.0usft (Original Well Elev)
Site:	Hombre BRH State Com	MD Reference:	WELL @ 3632.0usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	Database:	EDM:5000.1 Single User Db

Planned 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)	
4,695.3	24.16	298.01	4,506.0	874.0	441.8	-830.8	890.3	0.00	531,676.90	728,445.17	
Bell Canyon											
4,700.0	24.16	298.01	4,510.3	878.3	442.7	-832.5	892.2	0.00	531,677.81	728,443.46	
4,800.0	24.16	298.01	4,601.6	969.6	462.0	-868.6	930.9	0.00	531,697.03	728,407.31	
4,900.0	24.16	298.01	4,692.8	1,060.8	481.2	-904.8	969.6	0.00	531,716.25	728,371.17	
5,000.0	24.16	298.01	4,784.0	1,152.0	500.4	-940.9	1,008.4	0.00	531,735.48	728,335.03	
5,100.0	24.16	298.01	4,875.3	1,243.3	519.6	-977.1	1,047.1	0.00	531,754.70	728,298.88	
5,200.0	24.16	298.01	4,966.5	1,334.5	538.8	-1,013.2	1,085.8	0.00	531,773.92	728,262.74	
5,300.0	24.16	298.01	5,057.7	1,425.7	558.1	-1,049.3	1,124.6	0.00	531,793.14	728,226.60	
5,400.0	24.16	298.01	5,149.0	1,517.0	577.3	-1,085.5	1,163.3	0.00	531,812.36	728,190.46	
5,500.0	24.16	298.01	5,240.2	1,608.2	596.5	-1,121.6	1,202.0	0.00	531,831.58	728,154.31	
5,600.0	24.16	298.01	5,331.5	1,699.5	615.7	-1,157.8	1,240.8	0.00	531,850.80	728,118.17	
5,664.2	24.16	298.01	5,390.0	1,758.0	628.1	-1,181.0	1,265.6	0.00	531,863.14	728,094.98	
Cherry Canyon											
5,700.0	24.16	298.01	5,422.7	1,790.7	635.0	-1,193.9	1,279.5	0.00	531,870.03	728,082.03	
5,800.0	24.16	298.01	5,513.9	1,881.9	654.2	-1,230.1	1,318.3	0.00	531,889.25	728,045.89	
5,900.0	24.16	298.01	5,605.2	1,973.2	673.4	-1,266.2	1,357.0	0.00	531,908.47	728,009.74	
6,000.0	24.16	298.01	5,696.4	2,064.4	692.6	-1,302.3	1,395.7	0.00	531,927.69	727,973.60	
6,100.0	24.16	298.01	5,787.6	2,155.6	711.8	-1,338.5	1,434.5	0.00	531,946.91	727,937.46	
6,200.0	24.16	298.01	5,878.9	2,246.9	731.1	-1,374.6	1,473.2	0.00	531,966.13	727,901.31	
6,300.0	24.16	298.01	5,970.1	2,338.1	750.3	-1,410.8	1,511.9	0.00	531,985.35	727,865.17	
6,400.0	24.16	298.01	6,061.4	2,429.4	769.5	-1,446.9	1,550.7	0.00	532,004.58	727,829.03	
6,500.0	24.16	298.01	6,152.6	2,520.6	788.7	-1,483.1	1,589.4	0.00	532,023.80	727,792.89	
6,600.0	24.16	298.01	6,243.8	2,611.8	807.9	-1,519.2	1,628.1	0.00	532,043.02	727,756.74	
6,700.0	24.16	298.01	6,335.1	2,703.1	827.2	-1,555.3	1,666.9	0.00	532,062.24	727,720.60	
6,785.8	24.16	298.01	6,413.3	2,781.3	843.7	-1,586.3	1,700.1	0.00	532,078.73	727,689.60	
6,800.0	24.11	297.32	6,426.3	2,794.3	846.4	-1,591.5	1,705.6	2.00	532,081.43	727,684.45	



Pathfinder

PathfinderX & Y Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County (NAD 83)	TVD Reference:	WELL @ 3632.0usft (Original Well Elev)
Site:	Hombre BRH Slate Com	MD Reference:	WELL @ 3632.0usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	Database:	EDM:5000:1 Single User Db

Planned 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)	
6,900.0	23.81	292.45	6,517.7	2,885.7	863.4	-1,628.3	1,744.6	2.00	532,098.51	727,647.65	
7,000.0	23.66	287.49	6,609.3	2,977.3	877.2	-1,666.1	1,784.1	2.00	532,112.25	727,609.85	
7,077.2	23.65	283.64	6,680.0	3,048.0	885.5	-1,695.9	1,814.9	2.00	532,120.57	727,580.01	
Brushy Canyon											
7,100.0	23.67	282.51	6,700.9	3,068.9	887.6	-1,704.8	1,824.0	2.00	532,122.64	727,571.11	
7,200.0	23.84	277.56	6,792.4	3,160.4	894.6	-1,744.5	1,864.3	2.00	532,129.65	727,531.48	
7,297.9	24.16	272.81	6,881.9	3,249.9	898.2	-1,784.1	1,904.0	2.00	532,133.23	727,491.83	
7,300.0	24.16	272.81	6,883.7	3,251.7	898.2	-1,785.0	1,904.8	0.00	532,133.28	727,490.99	
7,400.0	24.16	272.81	6,975.0	3,343.0	900.2	-1,825.8	1,945.5	0.00	532,135.28	727,450.11	
7,500.0	24.16	272.81	7,066.2	3,434.2	902.2	-1,866.7	1,986.2	0.00	532,137.29	727,409.23	
7,600.0	24.16	272.81	7,157.5	3,525.5	904.2	-1,907.6	2,026.9	0.00	532,139.29	727,368.35	
7,700.0	24.16	272.81	7,248.7	3,616.7	906.2	-1,948.5	2,067.5	0.00	532,141.30	727,327.47	
7,800.0	24.16	272.81	7,339.9	3,707.9	908.2	-1,989.4	2,108.2	0.00	532,143.31	727,286.59	
7,815.8	24.16	272.81	7,354.3	3,722.3	908.5	-1,995.8	2,114.6	0.00	532,143.62	727,280.15	
KOP (Hombre #1H)											
7,900.0	24.16	272.81	7,431.2	3,799.2	910.2	-2,030.2	2,148.9	0.00	532,145.31	727,245.71	
8,000.0	24.16	272.81	7,522.4	3,890.4	912.2	-2,071.1	2,189.6	0.00	532,147.32	727,204.83	
8,100.0	24.16	272.81	7,613.7	3,981.7	914.3	-2,112.0	2,230.3	0.00	532,149.33	727,163.95	
8,200.0	24.16	272.81	7,704.9	4,072.9	916.3	-2,152.9	2,270.9	0.00	532,151.33	727,123.08	
8,300.0	24.16	272.81	7,796.2	4,164.2	918.3	-2,193.7	2,311.6	0.00	532,153.34	727,082.20	
8,400.0	24.16	272.81	7,887.4	4,255.4	920.3	-2,234.6	2,352.3	0.00	532,155.35	727,041.32	
8,443.5	24.16	272.81	7,927.1	4,295.1	921.1	-2,252.4	2,370.0	0.00	532,156.22	727,023.53	
POP (Hombre #1H)											
8,500.0	24.16	272.81	7,978.6	4,346.6	922.3	-2,275.5	2,393.0	0.00	532,157.35	727,000.44	
8,541.0	24.16	272.81	8,016.0	4,384.0	923.1	-2,292.2	2,409.6	0.00	532,158.18	726,983.70	
Brushy Canyon Marker											
8,597.9	24.16	272.81	8,068.0	4,436.0	924.2	-2,315.5	2,432.8	0.00	532,159.32	726,960.40	
KOP(Hombre #1H)											



Pathfinder

PathfinderX & Y Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County (NAD 83)	TVD Reference:	WELL @ 3632.0usft (Original Well Elev)
Site:	Hombre BRH State Com	MD Reference:	WELL @ 3632.0usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	Database:	EDM 5000.1 Single User Db

Planned 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)	
8,600.0	24.41	272.81	8,069.9	4,437.9	924.3	-2,316.4	2,433.7	12.00	532,159.36	726,959.55	
8,625.0	27.41	272.81	8,092.4	4,460.4	924.8	-2,327.3	2,444.5	12.00	532,159.90	726,948.65	
8,650.0	30.41	272.81	8,114.2	4,482.2	925.4	-2,339.4	2,456.5	12.00	532,160.49	726,936.58	
8,675.0	33.41	272.81	8,135.5	4,503.5	926.1	-2,352.6	2,469.7	12.00	532,161.14	726,923.38	
8,700.0	36.41	272.81	8,156.0	4,524.0	926.8	-2,366.8	2,483.9	12.00	532,161.84	726,909.09	
8,725.0	39.41	272.81	8,175.7	4,543.7	927.5	-2,382.2	2,499.2	12.00	532,162.59	726,893.75	
8,750.0	42.41	272.81	8,194.6	4,562.6	928.3	-2,398.5	2,515.4	12.00	532,163.39	726,877.41	
8,775.0	45.41	272.81	8,212.6	4,580.6	929.2	-2,415.9	2,532.7	12.00	532,164.24	726,860.09	
8,800.0	48.41	272.81	8,229.7	4,597.7	930.1	-2,434.1	2,550.8	12.00	532,165.13	726,841.86	
8,825.0	51.41	272.81	8,245.8	4,613.8	931.0	-2,453.2	2,569.8	12.00	532,166.07	726,822.76	
8,850.0	54.41	272.81	8,260.8	4,628.8	932.0	-2,473.1	2,589.6	12.00	532,167.05	726,802.84	
8,875.0	57.41	272.81	8,274.9	4,642.9	933.0	-2,493.8	2,610.2	12.00	532,168.06	726,782.17	
8,900.0	60.41	272.81	8,287.8	4,655.8	934.0	-2,515.2	2,631.5	12.00	532,169.11	726,760.79	
8,925.0	63.41	272.81	8,299.5	4,667.5	935.1	-2,537.2	2,653.4	12.00	532,170.19	726,738.76	
8,950.0	66.41	272.81	8,310.1	4,678.1	936.2	-2,559.8	2,675.9	12.00	532,171.30	726,716.15	
8,975.0	69.41	272.81	8,319.5	4,687.5	937.4	-2,582.9	2,698.9	12.00	532,172.43	726,693.02	
9,000.0	72.41	272.81	8,327.7	4,695.7	938.5	-2,606.5	2,722.4	12.00	532,173.59	726,669.42	
9,025.0	75.41	272.81	8,334.6	4,702.6	939.7	-2,630.5	2,746.3	12.00	532,174.77	726,645.44	
9,050.0	78.41	272.81	8,340.3	4,708.3	940.9	-2,654.8	2,770.5	12.00	532,175.96	726,621.12	
9,075.0	81.41	272.81	8,344.7	4,712.7	942.1	-2,679.4	2,794.9	12.00	532,177.16	726,596.54	
9,100.0	84.41	272.81	8,347.8	4,715.8	943.3	-2,704.2	2,819.6	12.00	532,178.38	726,571.76	
9,125.0	87.41	272.81	8,349.6	4,717.6	944.5	-2,729.1	2,844.4	12.00	532,179.60	726,546.86	
9,150.0	90.41	272.81	8,350.0	4,718.0	945.7	-2,754.0	2,869.2	12.00	532,180.82	726,521.89	
9,154.0	90.89	272.81	8,350.0	4,718.0	945.9	-2,758.1	2,873.2	12.00	532,181.02	726,517.88	
9,200.0	90.89	272.81	8,349.3	4,717.3	948.2	-2,804.0	2,918.9	0.00	532,183.27	726,471.96	
9,300.0	90.89	272.81	8,347.7	4,715.7	953.1	-2,903.9	3,018.3	0.00	532,188.17	726,372.09	
9,400.0	90.89	272.81	8,346.2	4,714.2	958.0	-3,003.7	3,117.6	0.00	532,193.06	726,272.22	



Pathfinder PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County (NAD 83)	TVD Reference:	WELL @ 3632.0usft (Original Well Elev)
Site:	Hombre BRH State Com	MD Reference:	WELL @ 3632.0usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	Database:	EDM 5000.1 Single User Db

Planned 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)	
9,500.0	90.89	272.81	8,344.6	4,712.6	962.9	-3,103.6	3,217.0	0.00	532,197.96	726,172.36	
9,600.0	90.89	272.81	8,343.1	4,711.1	967.8	-3,203.5	3,316.4	0.00	532,202.86	726,072.49	
9,700.0	90.89	272.81	8,341.5	4,709.5	972.7	-3,303.3	3,415.8	0.00	532,207.75	725,972.62	
9,800.0	90.89	272.81	8,340.0	4,708.0	977.6	-3,403.2	3,515.2	0.00	532,212.65	725,872.75	
9,900.0	90.89	272.81	8,338.4	4,706.4	982.5	-3,503.1	3,614.5	0.00	532,217.55	725,772.88	
10,000.0	90.89	272.81	8,336.9	4,704.9	987.4	-3,602.9	3,713.9	0.00	532,222.44	725,673.02	
10,100.0	90.89	272.81	8,335.3	4,703.3	992.3	-3,702.8	3,813.3	0.00	532,227.34	725,573.15	
10,200.0	90.89	272.81	8,333.8	4,701.8	997.2	-3,802.7	3,912.7	0.00	532,232.23	725,473.28	
10,300.0	90.89	272.81	8,332.2	4,700.2	1,002.1	-3,902.5	4,012.1	0.00	532,237.13	725,373.41	
10,400.0	90.89	272.81	8,330.7	4,698.7	1,007.0	-4,002.4	4,111.5	0.00	532,242.03	725,273.54	
10,500.0	90.89	272.81	8,329.1	4,697.1	1,011.8	-4,102.3	4,210.8	0.00	532,246.92	725,173.68	
10,600.0	90.89	272.81	8,327.6	4,695.6	1,016.7	-4,202.1	4,310.2	0.00	532,251.82	725,073.81	
10,700.0	90.89	272.81	8,326.0	4,694.0	1,021.6	-4,302.0	4,409.6	0.00	532,256.72	724,973.94	
10,800.0	90.89	272.81	8,324.4	4,692.4	1,026.5	-4,401.9	4,509.0	0.00	532,261.61	724,874.07	
10,900.0	90.89	272.81	8,322.9	4,690.9	1,031.4	-4,501.7	4,608.4	0.00	532,266.51	724,774.20	
11,000.0	90.89	272.81	8,321.3	4,689.3	1,036.3	-4,601.6	4,707.7	0.00	532,271.40	724,674.34	
11,100.0	90.89	272.81	8,319.8	4,687.8	1,041.2	-4,701.5	4,807.1	0.00	532,276.30	724,574.47	
11,200.0	90.89	272.81	8,318.2	4,686.2	1,046.1	-4,801.3	4,906.5	0.00	532,281.20	724,474.60	
11,300.0	90.89	272.81	8,316.7	4,684.7	1,051.0	-4,901.2	5,005.9	0.00	532,286.09	724,374.73	
11,400.0	90.89	272.81	8,315.1	4,683.1	1,055.9	-5,001.1	5,105.3	0.00	532,290.99	724,274.86	
11,500.0	90.89	272.81	8,313.6	4,681.6	1,060.8	-5,100.9	5,204.6	0.00	532,295.88	724,175.00	
11,600.0	90.89	272.81	8,312.0	4,680.0	1,065.7	-5,200.8	5,304.0	0.00	532,300.78	724,075.13	
11,700.0	90.89	272.81	8,310.5	4,678.5	1,070.6	-5,300.7	5,403.4	0.00	532,305.68	723,975.26	
11,800.0	90.89	272.81	8,308.9	4,676.9	1,075.5	-5,400.6	5,502.8	0.00	532,310.57	723,875.39	
11,900.0	90.89	272.81	8,307.4	4,675.4	1,080.4	-5,500.4	5,602.2	0.00	532,315.47	723,775.52	
12,000.0	90.89	272.81	8,305.8	4,673.8	1,085.3	-5,600.3	5,701.5	0.00	532,320.37	723,675.66	
12,100.0	90.89	272.81	8,304.3	4,672.3	1,090.2	-5,700.2	5,800.9	0.00	532,325.26	723,575.79	



Pathfinder PathfinderX & Y Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County (NAD 83)	TVD Reference:	WELL @ 3632.0usft (Original Well Elev)
Site:	Hombre BRH State Com	MD Reference:	WELL @ 3632.0usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	Database:	EDM 5000.1:Single User Db

Planned 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)	
12,200.0	90.89	272.81	8,302.7	4,670.7	1,095.1	-5,800.0	5,900.3	0.00	532,330.16	723,475.92	
12,300.0	90.89	272.81	8,301.2	4,669.2	1,100.0	-5,899.9	5,999.7	0.00	532,335.05	723,376.05	
12,400.0	90.89	272.81	8,299.6	4,667.6	1,104.9	-5,999.8	6,099.1	0.00	532,339.95	723,276.18	
12,500.0	90.89	272.81	8,298.1	4,666.1	1,109.8	-6,099.6	6,198.4	0.00	532,344.85	723,176.32	
12,600.0	90.89	272.81	8,296.5	4,664.5	1,114.7	-6,199.5	6,297.8	0.00	532,349.74	723,076.45	
12,700.0	90.89	272.81	8,295.0	4,663.0	1,119.6	-6,299.4	6,397.2	0.00	532,354.64	722,976.58	
12,800.0	90.89	272.81	8,293.4	4,661.4	1,124.5	-6,399.2	6,496.6	0.00	532,359.54	722,876.71	
12,900.0	90.89	272.81	8,291.9	4,659.9	1,129.4	-6,499.1	6,596.0	0.00	532,364.43	722,776.84	
13,000.0	90.89	272.81	8,290.3	4,658.3	1,134.3	-6,599.0	6,695.3	0.00	532,369.33	722,676.98	
13,100.0	90.89	272.81	8,288.8	4,656.8	1,139.1	-6,698.8	6,794.7	0.00	532,374.22	722,577.11	
13,200.0	90.89	272.81	8,287.2	4,655.2	1,144.0	-6,798.7	6,894.1	0.00	532,379.12	722,477.24	
13,300.0	90.89	272.81	8,285.7	4,653.7	1,148.9	-6,898.6	6,993.5	0.00	532,384.02	722,377.37	
13,400.0	90.89	272.81	8,284.1	4,652.1	1,153.8	-6,998.4	7,092.9	0.00	532,388.91	722,277.50	
13,500.0	90.89	272.81	8,282.6	4,650.6	1,158.7	-7,098.3	7,192.2	0.00	532,393.81	722,177.64	
13,600.0	90.89	272.81	8,281.0	4,649.0	1,163.6	-7,198.2	7,291.6	0.00	532,398.70	722,077.77	
13,664.6	90.89	272.81	8,280.0	4,648.0	1,166.8	-7,262.7	7,355.8	0.00	532,401.87	722,013.23	
PBHL (Hombre #1H)											



Pathfinder
PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County (NAD 83)	TVD Reference:	WELL @ 3632.0usft (Original Well Elev)
Site:	Hombre BRH State Com	MD Reference:	WELL @ 3632.0usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	Database:	EDM 5000.1 Single User Db

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
830.0	830.0	Rustler		0.00		
4,695.3	4,506.0	Bell Canyon		0.00		
5,664.2	5,390.0	Cherry Canyon		0.00		
8,541.0	8,016.0	Brushy Canyon Marker		0.00		
1,152.0	1,152.0	TOS		0.00		
7,077.2	6,680.0	Brushy Canyon		0.00		
4,359.9	4,200.0	BOS		0.00		

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------



Project: Eddy County (NAD 83)
Site: Hombre BRH State Com
Well: #1H
Wellbore: OH
Plan: Plan #4

PROJECT DETAILS: Eddy 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



A Schlumberger Company

WELL DETAILS: #1H

Ground Elevation: 3632.0
RKB Elevation: WELL @ 3632.0usft (Original Well Elev)
Rig Name: Original Well Elev

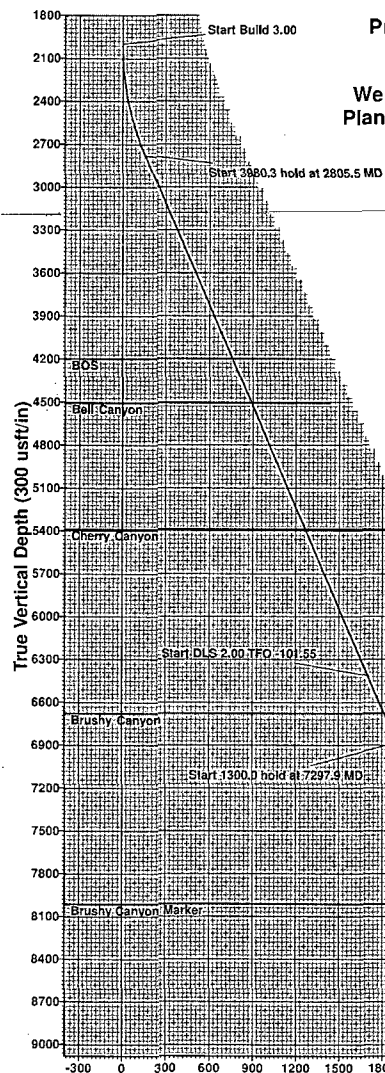
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	531235.075	729275.943	32.458955	-103.724007	

Project: Eddy County (NAD 83)
Site: Hombre BRH State Com
Well: #1H
Wellbore: OH
Plan: Plan #4 (#1H/OH)



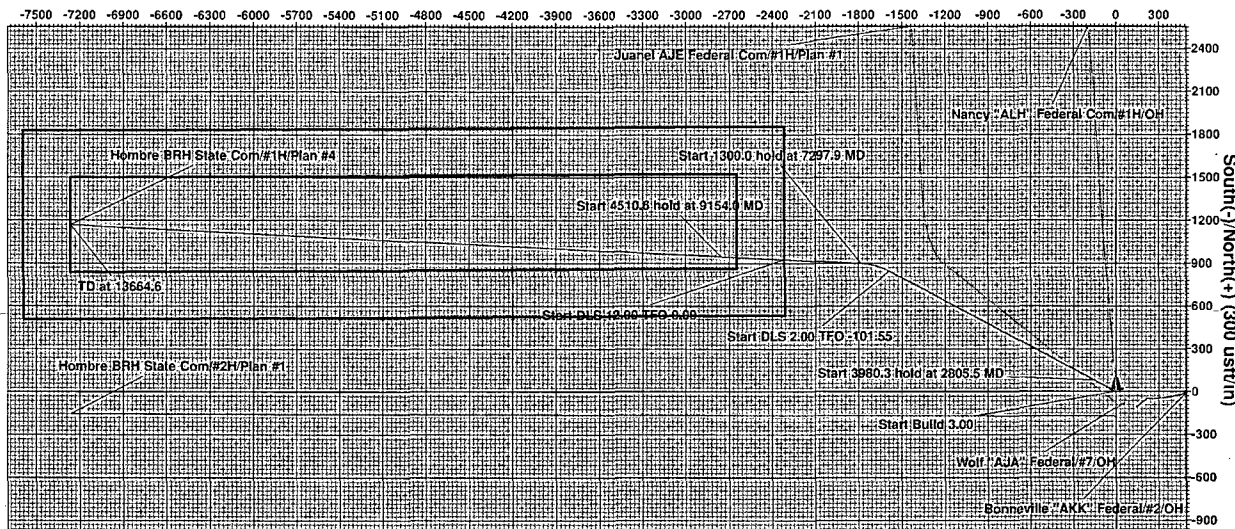
Azimuths to Grid North
True North: -0.33°
Magnetic North: 7.22°

Magnetic Field
Strength: 48684.2snT
Dip Angle: 60.38°
Date: 5/29/2012
Model: IGRF200510



Vertical Section at 279.13° (300 usft/in)

West(-)/East(+) (300 usft/in)



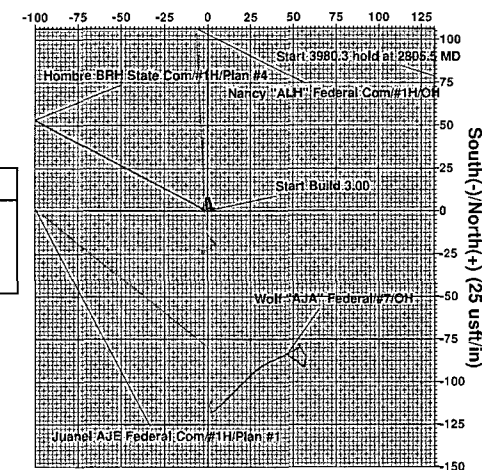
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	
3	2805.5	24.16	298.01	2781.8	78.6	-147.8	3.00	298.01	158.4	
4	6785.8	24.16	298.01	6413.3	843.7	-1586.3	0.00	0.00	1700.1	
5	7297.9	24.16	272.81	6881.9	898.2	-1784.1	2.00	-101.55	1904.0	
6	8597.9	24.16	272.81	8068.0	924.2	-2315.5	0.00	0.00	2432.8	KOP(Hombre #1H)
7	9154.0	90.89	272.81	8350.0	945.9	-2758.1	12.00	0.00	2873.2	
8	13664.6	90.89	272.81	8280.0	1166.8	-7262.7	0.00	0.00	7355.8	PBHL (Hombre #1H)

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
KOP(Hombre #1H)	8068.0	924.2	-2315.5	532159.319	726960.397	32.461531	-103.731497
PBHL (Hombre #1H)	8280.0	1166.8	-7262.7	532401.869	722013.228	32.462274	-103.747532

West(-)/East(+) (25 usft/in)



Plan: Plan #4 (#1H/OH)

Created By: Sam Biffa Date: 15:40, December 13 2012
Checked: Date:

These Data are for informational purposes only. They are not to be used for any other purpose. They are not to be used for any other purpose. They are not to be used for any other purpose.