

Yates Petroleum Corp.

Eddy County (NAD 83)

Domino "AOJ" Federal Com

#13H

OH

Design: OH

PathfinderX & Y Report

29 March, 2012

PATHFINDER[®]

A Schlumberger Company

30-015-39544



Pathfinder PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp	Local Coordinate Reference:	Well #13H
Project:	Eddy County, (NAD 83)	TVD Reference:	KB = 18.8' @ 3567.8usft (Patterson 511)
Site:	Domino AOJ Federal Com	MD Reference:	KB = 18.8' @ 3567.8usft (Patterson 511)
Well:	#13H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey/Program		Date 3/29/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
200.0	8,500.0	Gyro #1 (OH)	CB-GYRO-MS	Camera based gyro multishot
8,547.0	13,305.0	MWD #1 (OH)	MWD	MWD - Standard

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	VrSec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
0.0	0.00	0.00	0.0	-3,567.8	0.0	0.0	0.0	0.00	607,287.97	684,888.99
200.0	0.75	218.42	200.0	-3,367.8	-1.0	-0.8	0.7	0.37	607,286.95	684,888.17
400.0	0.50	245.54	400.0	-3,167.8	-2.4	-2.4	2.3	0.19	607,285.56	684,886.57
600.0	0.25	241.66	600.0	-2,967.8	-3.0	-3.6	3.4	0.13	607,284.99	684,885.39
800.0	0.50	179.78	800.0	-2,767.8	-4.1	-4.0	3.7	0.22	607,283.91	684,885.01
1,000.0	0.25	134.88	1,000.0	-2,567.8	-5.2	-3.7	3.3	0.18	607,282.73	684,885.32
1,200.0	0.25	185.00	1,200.0	-2,367.8	-6.0	-3.4	3.0	0.11	607,281.99	684,885.59
1,400.0	0.25	113.10	1,400.0	-2,167.8	-6.6	-3.0	2.6	0.15	607,281.38	684,885.95
1,600.0	2.00	47.13	1,599.9	-1,967.9	-4.4	-0.1	-0.2	0.96	607,283.59	684,888.91
1,800.0	2.25	54.25	1,799.8	-1,768.0	0.3	5.7	-5.6	0.18	607,288.26	684,894.66
2,000.0	2.50	44.34	1,999.6	-1,568.2	5.7	11.9	-11.5	0.24	607,293.67	684,900.89
2,200.0	2.25	60.45	2,199.4	-1,368.4	10.8	18.4	-17.6	0.35	607,298.73	684,907.36
2,400.0	2.00	54.57	2,399.3	-1,168.5	14.7	24.6	-23.6	0.17	607,302.68	684,913.62
2,600.0	1.00	64.69	2,599.2	-968.6	17.5	29.0	-27.8	0.52	607,305.45	684,918.04
2,800.0	0.25	180.74	2,799.2	-768.6	17.8	30.6	-29.4	0.57	607,305.76	684,919.61
3,000.0	0.25	340.84	2,999.2	-568.6	17.8	30.5	-29.2	0.25	607,305.74	684,919.46
3,200.0	0.50	294.96	3,199.2	-368.6	18.5	29.5	-28.3	0.19	607,306.52	684,918.53
3,400.0	0.75	304.66	3,399.2	-168.6	19.7	27.7	-26.3	0.14	607,307.63	684,916.66
3,600.0	1.00	291.76	3,599.2	31.4	21.1	25.0	-23.5	0.16	607,309.02	684,913.96
3,800.0	1.00	275.81	3,799.2	231.4	21.9	21.6	-20.1	0.14	607,309.85	684,910.60
4,000.0	0.75	286.91	3,999.1	431.3	22.4	18.6	-17.1	0.15	607,310.41	684,907.62



Pathfinder PathfinderX & Y Report

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Project:	Eddy County (NAD 83)	TVD Reference:	KB = 18'8" @ 3567.8usft (Patterson 511)
Site:	Domino AOJ Federal Com	MD Reference:	KB = 18'8" @ 3567.8usft (Patterson 511)
Well:	#13H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM, 5000 1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	EW (usft)	V. Sec (usft)	DLeg (%/100usft)	Northing (usft)	Easting (usft)
4,200.0	0.50	262.01	4,199.1	631.3	22.7	16.5	-15.0	0.18	607,310.66	684,905.50
4,400.0	0.75	286.11	4,399.1	831.3	22.9	14.4	-12.9	0.18	607,310.91	684,903.38
4,600.0	1.00	298.17	4,599.1	1,031.3	24.1	11.6	-10.0	0.15	607,312.09	684,900.58
4,800.0	0.75	288.27	4,799.1	1,231.3	25.4	8.8	-7.1	0.15	607,313.33	684,897.80
5,000.0	1.00	306.37	4,999.0	1,431.2	26.8	6.2	-4.4	0.18	607,314.77	684,895.15
5,200.0	1.75	272.47	5,199.0	1,631.2	28.0	1.7	0.1	0.54	607,315.94	684,890.69
5,400.0	2.50	274.52	5,398.8	1,831.0	28.4	-5.7	7.5	0.38	607,316.42	684,883.30
5,600.0	1.25	280.62	5,598.7	2,030.9	29.2	-12.2	14.1	0.63	607,317.16	684,876.80
5,800.0	0.75	261.67	5,798.7	2,230.9	29.4	-15.6	17.5	0.30	607,317.37	684,873.36
6,000.0	1.25	244.72	5,998.7	2,430.9	28.3	-18.9	20.7	0.29	607,316.25	684,870.10
6,200.0	1.25	213.75	6,198.6	2,630.8	25.5	-22.1	23.7	0.33	607,313.51	684,866.91
6,400.0	1.50	216.80	6,398.6	2,830.8	21.6	-24.9	26.2	0.13	607,309.60	684,864.13
6,600.0	2.00	232.84	6,598.5	3,030.7	17.4	-29.2	30.3	0.35	607,305.39	684,859.78
6,800.0	2.00	236.90	6,798.4	3,230.6	13.4	-34.9	35.7	0.07	607,301.38	684,854.08
7,000.0	3.00	221.91	6,998.2	3,430.4	7.6	-41.3	41.7	0.59	607,295.58	684,847.66
7,200.0	2.00	240.98	7,198.0	3,630.2	2.0	-47.9	47.9	0.64	607,289.99	684,841.11
7,400.0	2.00	245.04	7,397.9	3,830.1	-1.2	-54.1	53.9	0.07	607,286.82	684,834.89
7,600.0	0.75	244.11	7,597.8	4,030.0	-3.2	-58.4	58.1	0.63	607,284.78	684,830.55
7,800.0	0.25	41.14	7,797.8	4,230.0	-3.4	-59.3	59.0	0.49	607,284.54	684,829.66
8,000.0	0.25	280.19	7,997.8	4,430.0	-3.0	-59.5	59.1	0.22	607,284.94	684,829.52
8,200.0	1.00	285.57	8,197.8	4,630.0	-2.5	-61.6	61.3	0.38	607,285.49	684,827.41
8,400.0	1.25	293.62	8,397.7	4,829.9	-1.1	-65.3	65.0	0.15	607,286.83	684,823.73
8,500.0	1.25	295.71	8,497.7	4,929.9	-0.2	-67.2	67.1	0.05	607,287.74	684,821.75
8,547.0	7.91	265.42	8,544.5	4,976.7	-0.3	-70.9	70.8	14.59	607,287.70	684,818.06
KOP = 8547.0 MD = 8544.5 TVD = 0.3 N = 70.9 E										
8,579.0	11.87	265.41	8,576.1	5,008.3	-0.7	-76.4	76.2	12.38	607,287.27	684,812.58
8,611.0	15.92	267.04	8,607.1	5,039.3	-1.2	-84.1	83.8	12.71	607,286.78	684,804.91



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Site:	Domino AOJ Federal Com	MD Reference:	KB = 18.8 @ 3567.8usft (Patterson 511)
Well:	#13H	North Reference:	Grid = 7.1
Wellbore:	OH	Survey/Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	ΔNS (usft)	ΔEW (usft)	V. Sec (usft)	DLeg (#100usft)	Northing (usft)	Easting (usft)
8,643.0	19.96	269.08	8,637.6	5,069.8	-1.5	-93.9	93.6	12.77	607,286.46	684,795.06
8,674.0	23.74	269.77	8,666.3	5,098.5	-1.6	-105.5	105.1	12.22	607,286.35	684,783.53
8,706.0	27.35	273.11	8,695.2	5,127.4	-1.3	-119.2	118.9	12.14	607,286.72	684,769.74
8,738.0	30.78	275.21	8,723.2	5,155.4	-0.1	-134.7	134.4	11.18	607,287.87	684,754.24
8,770.0	33.85	275.62	8,750.2	5,182.4	1.5	-151.8	151.5	9.62	607,289.48	684,737.22
8,801.0	36.76	275.05	8,775.5	5,207.7	3.2	-169.6	169.5	9.45	607,291.15	684,719.38
8,833.0	40.19	274.45	8,800.5	5,232.7	4.8	-189.4	189.4	10.78	607,292.79	684,699.54
8,865.0	43.79	272.98	8,824.3	5,256.5	6.2	-210.8	210.8	11.66	607,294.17	684,678.18
8,897.0	47.48	273.57	8,846.7	5,278.9	7.5	-233.6	233.6	11.61	607,295.48	684,655.35
8,929.0	50.30	272.56	8,867.7	5,299.9	8.8	-257.7	257.7	9.13	607,296.76	684,631.27
8,961.0	52.76	274.49	8,887.6	5,319.8	10.3	-282.7	282.8	9.02	607,298.31	684,606.27
8,992.0	55.31	275.40	8,905.8	5,338.0	12.5	-307.7	307.9	8.56	607,300.48	684,581.28
9,024.0	58.21	275.76	8,923.4	5,355.6	15.1	-334.3	334.6	9.11	607,303.08	684,554.64
9,056.0	61.99	275.59	8,939.3	5,371.5	17.8	-361.9	362.3	11.82	607,305.82	684,527.04
9,088.0	65.69	275.07	8,953.4	5,385.6	20.5	-390.5	391.0	11.65	607,308.49	684,498.45
9,119.0	69.56	274.32	8,965.2	5,397.4	22.9	-419.1	419.7	12.68	607,310.83	684,469.89
9,151.0	73.25	273.07	8,975.4	5,407.6	24.8	-449.4	450.0	12.11	607,312.78	684,439.62
9,183.0	77.21	272.12	8,983.6	5,415.8	26.2	-480.3	481.0	12.70	607,314.18	684,408.72
9,214.0	81.25	270.90	8,989.4	5,421.6	27.0	-510.7	511.4	13.59	607,314.98	684,378.28
9,247.0	85.82	269.73	8,993.1	5,425.3	27.2	-543.5	544.1	14.29	607,315.16	684,345.50
9,278.0	89.43	269.23	8,994.4	5,426.6	26.9	-574.5	575.0	11.76	607,314.88	684,314.54
LP 9278.0 MD 8994.4 TVD 2669.5 N 574.5 E										
9,310.0	89.96	269.48	8,994.6	5,426.8	26.5	-606.4	606.9	1.83	607,314.52	684,282.54
9,342.0	90.04	269.66	8,994.6	5,426.8	26.3	-638.4	638.8	0.62	607,314.28	684,250.54
9,405.0	89.43	271.89	8,994.8	5,427.0	27.2	-701.4	701.7	3.67	607,315.13	684,187.55
9,469.0	89.16	271.90	8,995.6	5,427.8	29.3	-765.4	765.7	0.42	607,317.24	684,123.59
9,533.0	89.25	273.55	8,996.5	5,428.7	32.3	-829.3	829.7	2.58	607,320.29	684,059.67



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Project	Eddy County (NAD 83)	TVD Reference	KB = 18.8 @ 3567.8usft (Patterson 511)
Site	Domino AOJ Federal Com	MDI Reference	KB = 18.8 @ 3567.8usft (Patterson 511)
Well	#13H	North Reference	Grid
Wellbore	OH	Survey Calculation Method	Minimum Curvature
Design	OH	Database	EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	IVSec (usft)	DLeg (usft)	North (usft)	East (usft)
9,596.0	89.25	273.31	8,997.3	5,429.5	36.1	-892.2	892.6	0.38	607,324.06	683,996.79
9,660.0	89.87	274.52	8,997.8	5,430.0	40.5	-956.0	956.6	2.12	607,328.42	683,932.94
9,723.0	90.04	274.24	8,997.9	5,430.1	45.3	-1,018.9	1,019.6	0.52	607,333.24	683,870.13
9,787.0	90.13	273.74	8,997.8	5,430.0	49.7	-1,082.7	1,083.6	0.79	607,337.69	683,806.28
9,850.0	90.13	274.58	8,997.7	5,429.9	54.3	-1,145.5	1,146.6	1.33	607,342.26	683,743.45
9,914.0	90.40	276.01	8,997.4	5,429.6	60.2	-1,209.3	1,210.6	2.27	607,348.17	683,679.72
9,977.0	90.40	275.54	8,996.9	5,429.1	66.5	-1,271.9	1,273.6	0.75	607,354.50	683,617.05
10,041.0	90.31	275.21	8,996.5	5,428.7	72.5	-1,335.7	1,337.5	0.53	607,360.50	683,553.33
10,104.0	90.48	275.41	8,996.1	5,428.3	78.4	-1,398.4	1,400.5	0.42	607,366.33	683,490.60
10,168.0	90.57	275.15	8,995.5	5,427.7	84.2	-1,462.1	1,464.5	0.43	607,372.22	683,426.87
10,231.0	90.40	274.75	8,995.0	5,427.2	89.7	-1,524.9	1,527.5	0.69	607,377.65	683,364.11
10,295.0	90.13	274.79	8,994.7	5,426.9	95.0	-1,588.7	1,591.5	0.43	607,382.98	683,300.33
10,359.0	89.87	274.55	8,994.7	5,426.9	100.2	-1,652.4	1,655.5	0.55	607,388.19	683,236.55
10,429.0	89.60	274.48	8,995.0	5,427.2	105.7	-1,722.2	1,725.5	0.40	607,393.70	683,166.77
10,493.0	89.78	273.98	8,995.3	5,427.5	110.4	-1,786.0	1,789.4	0.83	607,398.42	683,102.94
10,557.0	89.96	273.94	8,995.5	5,427.7	114.9	-1,849.9	1,853.4	0.29	607,402.84	683,039.09
10,620.0	89.96	273.24	8,995.5	5,427.7	118.8	-1,912.8	1,916.4	1.11	607,406.78	682,976.22
10,684.0	88.29	273.61	8,996.5	5,428.7	122.6	-1,976.6	1,980.4	2.67	607,410.61	682,912.34
10,748.0	88.20	273.51	8,998.5	5,430.7	126.6	-2,040.5	2,044.4	0.21	607,414.58	682,848.50
10,812.0	88.55	273.43	9,000.3	5,432.5	130.5	-2,104.3	2,108.4	0.56	607,418.45	682,784.64
10,875.0	88.72	273.13	9,001.8	5,434.0	134.1	-2,167.2	2,171.4	0.55	607,422.05	682,721.76
10,939.0	88.99	273.08	9,003.1	5,435.3	137.5	-2,231.1	2,235.3	0.43	607,425.52	682,657.87
11,003.0	88.99	273.65	9,004.2	5,436.4	141.3	-2,295.0	2,299.3	0.89	607,429.28	682,593.99
11,066.0	88.99	273.52	9,005.3	5,437.5	145.2	-2,357.9	2,362.3	0.21	607,433.21	682,531.12
11,130.0	89.08	273.15	9,006.4	5,438.6	149.0	-2,421.8	2,426.3	0.59	607,436.94	682,467.24
11,193.0	89.16	273.46	9,007.3	5,439.5	152.6	-2,484.6	2,489.3	0.51	607,440.57	682,404.35
11,256.0	89.52	272.20	9,008.1	5,440.3	155.7	-2,547.6	2,552.3	2.08	607,443.68	682,341.43



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Site:	Domino: AOJ: Federal Com	MD Reference:	KB = 18.8 @ 3567.8usft (Patterson 511)
Well:	#13H	North Reference:	Gnd
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 1: Single User Db

MD (usft)	Incl (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	EW (usft)	V. Sec (usft)	D Leg (1/100usft)	Northing (usft)	Easting (usft)
11,320.0	90.57	273.38	9,008.0	5,440.2	158.8	-2,611.5	2,616.3	2.47	607,446.79	682,277.51
11,384.0	91.01	273.86	9,007.1	5,439.3	162.9	-2,675.3	2,680.3	1.02	607,450.83	682,213.64
11,447.0	91.45	274.06	9,005.8	5,438.0	167.2	-2,738.2	2,743.3	0.77	607,455.18	682,150.81
11,511.0	91.80	274.29	9,004.0	5,436.2	171.9	-2,802.0	2,807.2	0.65	607,459.84	682,087.00
11,574.0	90.92	274.10	9,002.5	5,434.7	176.5	-2,864.8	2,870.2	1.43	607,464.45	682,024.19
11,638.0	91.54	274.49	9,001.1	5,433.3	181.3	-2,928.6	2,934.2	1.14	607,469.24	681,960.39
11,701.0	92.15	274.41	8,999.1	5,431.3	186.2	-2,991.4	2,997.1	0.98	607,474.13	681,897.61
11,765.0	92.33	274.61	8,996.6	5,428.8	191.2	-3,055.1	3,061.1	0.42	607,479.15	681,833.86
11,828.0	91.01	274.76	8,994.7	5,426.9	196.3	-3,117.9	3,124.1	2.11	607,484.30	681,771.10
11,892.0	90.22	275.13	8,994.0	5,426.2	201.8	-3,181.7	3,188.0	1.36	607,489.81	681,707.34
11,955.0	90.75	275.10	8,993.5	5,425.7	207.5	-3,244.4	3,251.0	0.84	607,495.43	681,644.59
12,019.0	90.84	275.18	8,992.6	5,424.8	213.2	-3,308.1	3,315.0	0.19	607,501.16	681,580.85
12,082.0	91.63	275.39	8,991.3	5,423.5	219.0	-3,370.9	3,378.0	1.30	607,506.97	681,518.14
12,146.0	90.84	275.52	8,989.9	5,422.1	225.1	-3,434.5	3,441.9	1.25	607,513.05	681,454.44
12,209.0	91.45	275.71	8,988.6	5,420.8	231.2	-3,497.2	3,504.9	1.01	607,519.21	681,391.76
12,273.0	91.80	275.57	8,986.8	5,419.0	237.5	-3,560.9	3,568.8	0.59	607,525.50	681,328.09
12,336.0	90.57	274.43	8,985.5	5,417.7	243.0	-3,623.6	3,631.8	2.66	607,530.99	681,265.35
12,400.0	91.01	274.44	8,984.6	5,416.8	248.0	-3,687.4	3,695.8	0.69	607,535.94	681,201.55
12,463.0	91.01	274.43	8,983.5	5,415.7	252.8	-3,750.2	3,758.7	0.02	607,540.81	681,138.74
12,526.0	90.66	272.92	8,982.6	5,414.8	256.9	-3,813.1	3,821.7	2.46	607,544.84	681,075.88
12,590.0	91.01	272.82	8,981.7	5,413.9	260.1	-3,877.0	3,885.7	0.57	607,548.05	681,011.97
12,653.0	91.19	272.51	8,980.5	5,412.7	263.0	-3,939.9	3,948.7	0.57	607,550.98	680,949.05
12,718.0	91.19	272.40	8,979.1	5,411.3	265.8	-4,004.9	4,013.7	0.17	607,553.76	680,884.12
12,781.0	91.45	271.81	8,977.7	5,409.9	268.1	-4,067.8	4,076.6	1.02	607,556.07	680,821.18
12,845.0	91.98	272.13	8,975.7	5,407.9	270.3	-4,131.7	4,140.6	0.97	607,558.27	680,757.25
12,908.0	91.10	273.70	8,974.0	5,406.2	273.5	-4,194.6	4,203.5	2.86	607,561.48	680,694.36
12,971.0	91.36	273.50	8,972.7	5,404.9	277.5	-4,257.5	4,266.5	0.52	607,565.43	680,631.50



Pathfinder PathfinderX & Y Report

PATHFINDER
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Company	Yates Petroleum Corp	Local Co-ordinate Reference	Well #13H
Project	Eddy County (NAD 83)	TVD Reference	KB = 18.8 @ 3567.8usft (Patterson 511)
Site	Domino AOJ Federal Com	MD Reference	KB = 18.8 @ 3567.8usft (Patterson 511)
Well	#13H	North Reference	Grid
Wellbore	OH	Survey Calculation Method	Minimum Curvature
Design	OH	Database	EDM 5000 1 Single User Db

MD (usft)	Incl (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V-Sept (usft)	D Lag (ft/100usft)	Northing (usft)	Easting (usft)
13,035.0	91.54	273.46	8,971.1	5,403.3	281.3	-4,321.4	4,330.5	0.29	607,569.31	680,567.63
13,098.0	91.80	273.33	8,969.2	5,401.4	285.1	-4,384.2	4,393.5	0.46	607,573.04	680,504.77
13,162.0	91.28	273.65	8,967.5	5,399.7	289.0	-4,448.1	4,457.4	0.95	607,576.94	680,440.91
13,233.0	91.54	273.77	8,965.8	5,398.0	293.6	-4,518.9	4,528.4	0.40	607,581.53	680,370.08
13,305.0	91.54	273.77	8,963.8	5,396.0	298.3	-4,590.7	4,600.4	0.00	607,586.26	680,298.27
BHL - 13305.0 'MD, 8963.8 'TVD, 298.3 'N, -4590.7 'E										

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates N/S (usft)	E/W (usft)	Comment
8,547.0	8,544.5	-0.3	-70.9	KOP - 8547.0 'MD, 8544.5 'TVD, -0.3 'N, -70.9 'E
9,278.0	8,994.4	26.9	-574.5	LP - 9278.0 'MD, 8994.4 'TVD, 26.9 'N, -574.5 'E
13,305.0	8,963.8	298.3	-4,590.7	BHL - 13305.0 'MD, 8963.8 'TVD, 298.3 'N, -4590.7 'E

Checked By: _____ Approved By: _____ Date: _____



Project: Eddy County (NAD 83)
 Site: Domino "AOJ" Federal Com
 Well: #13H
 Wellbore: OH
 Plan: Post Gyro 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



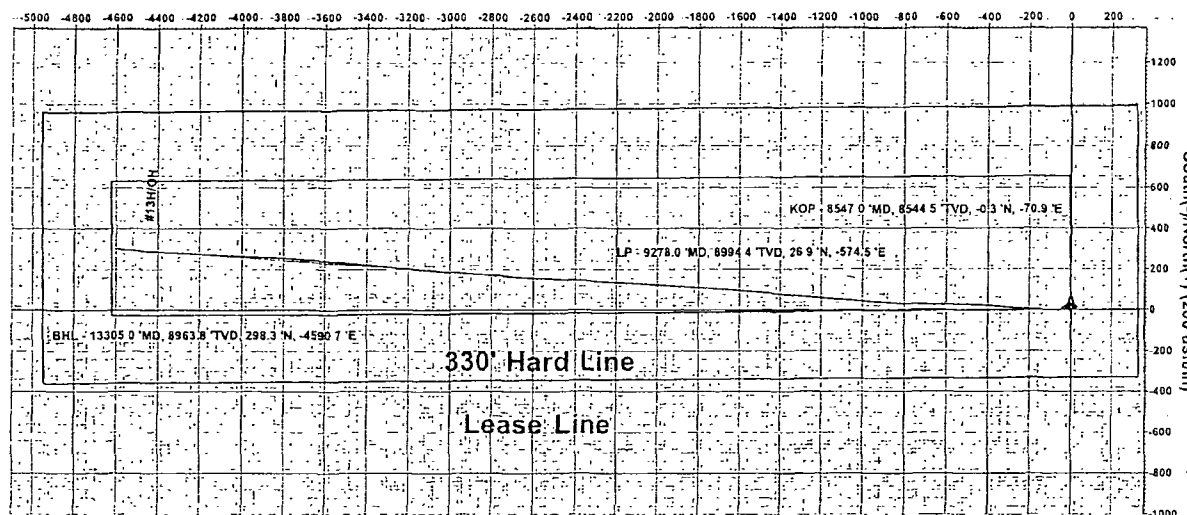
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WELL DETAILS #13H

Ground Elevation: 3549.0
 RKB Elevation: KB = 18.8 @ 3567.8usft (Patterson 511)
 Rig Name: Patterson 511

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	607287.974	684888.988	32°40'7.007"N	103°52'0.593"W	

West(-)/East(+) (200 usft/in)



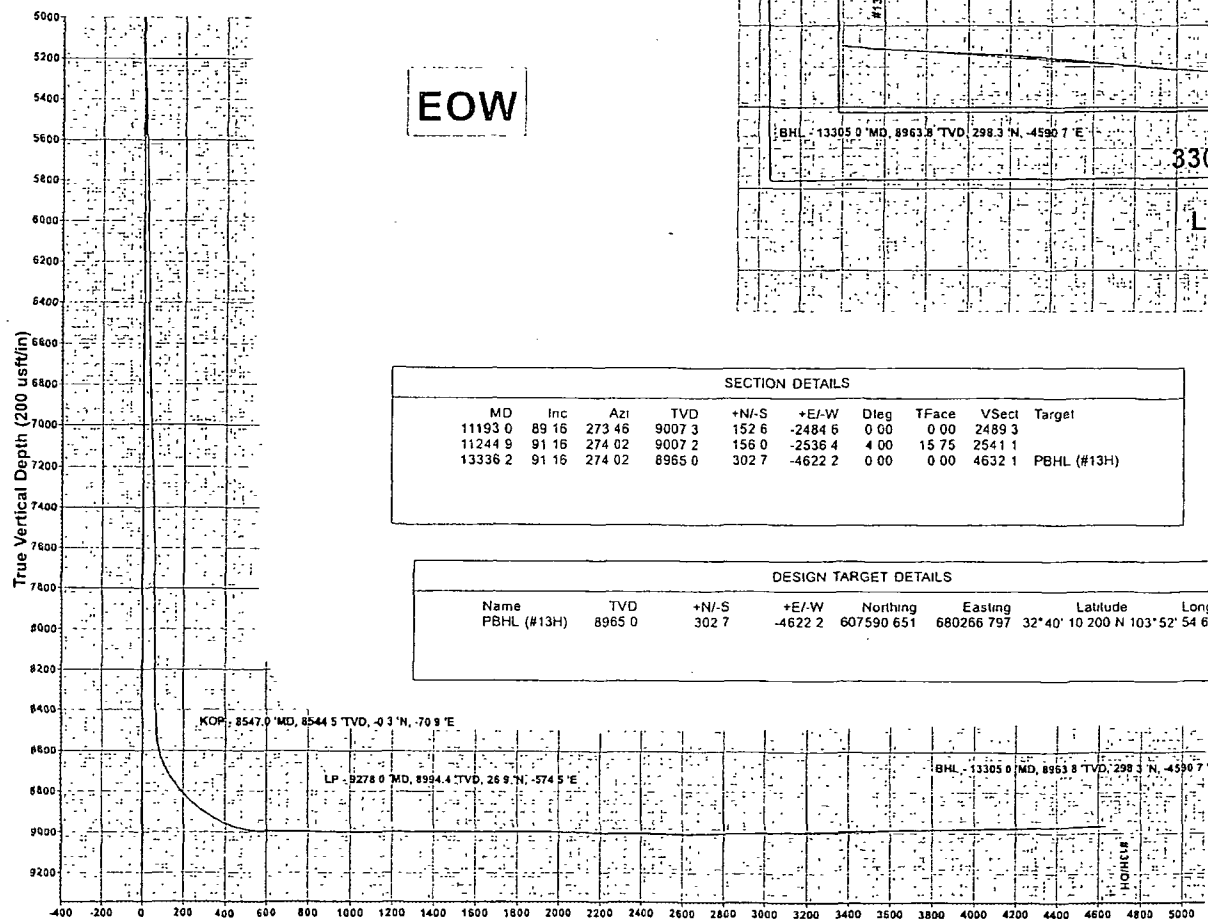
EOW

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
11193.0	89.16	273.46	9007.3	152.6	-2484.6	0.00	0.00	2489.3	
11244.9	91.16	274.02	9007.2	156.0	-2536.4	4.00	15.75	2541.1	
13336.2	91.16	274.02	8965.0	302.7	-4622.2	0.00	0.00	4632.1	PBHL (#13H)

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL (#13H)	8965.0	302.7	-4622.2	607590.651	680266.797	32°40'10.200"N	103°52'54.651"W



Vertical Section at 273.75° (200 usft/in)



Azimuths to Grid North
 True North -0.25°
 Magnetic North 7.43°

Magnetic Field
 Strength 48834.8nT
 Dip Angle 60.55°
 Date 12/29/2011
 Model IGRF200510

Plan Post Gyro Plan #4 (#13H/OH)

Created By Sam Blime Date 11/30, March 29 2012

Checked _____ Date _____

Notes:
 1. This document is the property of Schlumberger.
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 3. It is not to be distributed outside the project without the written consent of Schlumberger.