

Results of Directional Survey

API number:	30-025-41972		
OGRID:		Operator:	YATES PETROLEUM CORPORATION
		Property:	TRUCKER BRK STATE # 2H

surface	ULSTR:	M	02	T 24S	R 33E
				575 FSL	200 FWL

BH Loc	ULSTR:	P	02	T 24S	R 33E
15652	MD	10984.8	TVD	474 FSL	352 FEL
					4928 FWL

Top Perf/OH	ULSTR:	M	02	T 24S	R 33E
11358	MD	11123.8	TVD	587 FSL	638 FWL

Bot Perf/OH	ULSTR:	P	02	T 24S	R 33E
15637	MD	10985.4	TVD	475 FSL	367 FEL
					4913 FWL

	MD	N/S	E/W	VD
	11342.00	12.10	422.10	11122.60
TOP PERFS/OH	11358.00	11.74	438.04	11123.84
	11369.00	11.50	449.00	11124.70
	15584.00	-98.90	4659.70	10987.30
BOT PERFS/OH	15637.00	-100.30	4712.62	10985.35
	15652.00	-100.70	4727.60	10984.80

NEXT TO LAST	15584.00	-98.90	4659.70	10987.30
LAST READING	15652.00	-100.70	4727.60	10984.80
TD	15652.00	-100.70	4727.60	10984.80

Surface Location	575 FS	200 FW
Projected BHL	474 FS	4928 FW
Location of		
Top Perfs/OH	587 FS	638 FW
Bottom Perfs/OH	475 FS	4913 FW

SUMMARY of Subsurface Locations

Surface Location	M-02-24S-33E	575 FS	200 FW	Vert. Depth
Top Perfs/OH	M-02-24S-33E	587 FS	638 FW	11123.84
Bottom Perfs/OH	P-02-24S-33E	475 FS	4913 FW	10985.35
Projected TD	P-02-24S-33E	474 FS	4928 FW	10984.80

DEC 15 2014

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Yates Petroleum

Lea County, NM (NAD-83)

Trucker "BRK" State

#2H

OH

Design: OH

Standard Survey Report

22 September, 2014

AM

Survey Report

Company:	Yates Petroleum	Local Co-ordinate Reference:	Well #2H
Project:	Lea County, NM (NAD-83)	TVD Reference:	WELL @ 3631.0usft (Cactus #124 KB=25')
Site:	Trucker "BRK" State	MD Reference:	WELL @ 3631.0usft (Cactus #124 KB=25')
Well:	#2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Houston R5000 Database

Project	Lea County, NM (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		Trucker "BRK" State			
Site Position:		Northing:	453,682.56 usft	Latitude:	32° 14' 41.344 N
From:	Map	Easting:	783,661.32 usft	Longitude:	103° 32' 58.323 W
Position Uncertainty:	2.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.42 °

Well	#2H					
Well Position	+N/-S	0.0 usft	Northing:	452,255.00 usft	Latitude:	32° 14' 27.251 N
	+E/-W	0.0 usft	Easting:	783,219.80 usft	Longitude:	103° 33' 3.585 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,606.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	8/14/2014	7.19	60.13	48,311

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	91.35

Survey Program	Date 9/22/2014			
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
100.0	1,300.0	Survey #1 - Gyro (OH)	CB-GYRO-MS	Camera based gyro multishot
1,431.0	15,652.0	Survey #2 - Crescent MWD Surveys (OH)	MWD	MWD - Standard

Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate	
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.76	35.33	100.0	0.5	0.4	0.4	0.76	0.76	0.00	
200.0	0.89	39.05	200.0	1.7	1.3	1.2	0.14	0.13	3.72	
300.0	1.04	51.67	300.0	2.9	2.5	2.4	0.26	0.15	12.62	
400.0	1.13	44.87	400.0	4.1	3.9	3.8	0.16	0.09	-6.80	
500.0	1.09	45.98	499.9	5.5	5.2	5.1	0.05	-0.04	1.11	
600.0	1.11	48.06	599.9	6.8	6.6	6.5	0.04	0.02	2.08	
700.0	1.30	53.63	699.9	8.1	8.3	8.1	0.22	0.19	5.57	
800.0	1.16	51.87	799.9	9.4	10.0	9.8	0.14	-0.14	-1.76	
900.0	0.85	44.60	899.9	10.6	11.3	11.1	0.33	-0.31	-7.27	

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Well:	#2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Houston R5000 Database

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.0	0.67	53.17	999.8	11.4	12.3	12.0	0.21	-0.18	8.57
1,100.0	0.52	48.01	1,099.8	12.1	13.1	12.8	0.16	-0.15	-5.16
1,200.0	0.51	35.91	1,199.8	12.7	13.7	13.4	0.11	-0.01	-12.10
1,300.0	0.39	24.04	1,299.8	13.4	14.1	13.8	0.15	-0.12	-11.87
1,431.0	0.30	348.30	1,430.8	14.2	14.2	13.9	0.17	-0.07	-27.28
1,620.0	0.30	348.80	1,619.8	15.1	14.0	13.7	0.00	0.00	0.26
1,809.0	0.00	349.30	1,808.8	15.6	13.9	13.5	0.16	-0.16	0.00
1,998.0	0.30	28.70	1,997.8	16.1	14.2	13.8	0.16	0.16	0.00
2,186.0	0.10	243.60	2,185.8	16.4	14.2	13.9	0.21	-0.11	-77.18
2,375.0	0.30	32.30	2,374.8	16.8	14.4	14.0	0.21	0.11	78.68
2,564.0	0.20	25.50	2,563.8	17.5	14.8	14.4	0.06	-0.05	-3.60
2,754.0	0.30	356.60	2,753.8	18.3	14.9	14.5	0.08	0.05	-15.21
2,943.0	0.30	310.00	2,942.8	19.1	14.5	14.0	0.13	0.00	-24.66
3,132.0	0.20	302.60	3,131.8	19.6	13.8	13.4	0.06	-0.05	-3.92
3,321.0	0.30	296.80	3,320.8	20.0	13.1	12.6	0.05	0.05	-3.07
3,510.0	0.10	299.20	3,509.8	20.3	12.5	12.0	0.11	-0.11	1.27
3,700.0	0.30	23.20	3,699.8	20.8	12.6	12.1	0.16	0.11	44.21
3,890.0	0.20	358.20	3,889.8	21.6	12.8	12.2	0.08	-0.05	-13.16
4,078.0	0.20	44.10	4,077.8	22.2	13.0	12.4	0.08	0.00	24.41
4,268.0	0.40	21.10	4,267.8	23.0	13.4	12.9	0.12	0.11	-12.11
4,364.0	0.20	69.70	4,363.8	23.4	13.7	13.2	0.32	-0.21	50.63
4,458.0	0.40	81.70	4,457.8	23.5	14.2	13.6	0.22	0.21	12.77
4,553.0	0.80	118.90	4,552.8	23.2	15.1	14.6	0.57	0.42	39.16
4,648.0	0.40	217.10	4,647.8	22.6	15.5	14.9	0.99	-0.42	103.37
4,743.0	0.50	238.70	4,742.8	22.2	14.9	14.4	0.21	0.11	22.74
4,838.0	0.40	154.30	4,837.8	21.7	14.7	14.2	0.64	-0.11	-88.84
4,933.0	0.60	151.20	4,932.8	20.9	15.1	14.6	0.21	0.21	-3.26
5,027.0	0.40	171.50	5,026.8	20.2	15.4	14.9	0.28	-0.21	21.60
5,122.0	0.30	161.20	5,121.8	19.6	15.5	15.1	0.12	-0.11	-10.84
5,216.0	0.40	165.90	5,215.8	19.0	15.7	15.2	0.11	0.11	5.00
5,254.0	0.40	182.80	5,253.8	18.8	15.7	15.3	0.31	0.00	44.47
5,401.0	0.40	150.60	5,400.8	17.8	15.9	15.5	0.15	0.00	-21.90
5,591.0	0.40	137.40	5,590.8	16.8	16.7	16.3	0.05	0.00	-6.95
5,781.0	0.40	114.30	5,780.8	16.0	17.8	17.4	0.08	0.00	-12.16
5,970.0	0.60	113.70	5,969.8	15.3	19.3	18.9	0.11	0.11	-0.32
6,160.0	0.40	107.80	6,159.8	14.7	20.8	20.5	0.11	-0.11	-3.11
6,350.0	0.30	239.00	6,349.8	14.3	21.0	20.7	0.34	-0.05	69.05
6,537.0	0.70	239.90	6,536.7	13.4	19.6	19.3	0.21	0.21	0.48
6,726.0	0.70	235.70	6,725.7	12.2	17.7	17.4	0.03	0.00	-2.22
6,916.0	0.70	240.30	6,915.7	11.0	15.7	15.4	0.03	0.00	2.42
7,107.0	0.50	218.00	7,106.7	9.7	14.2	13.9	0.16	-0.10	-11.68
7,296.0	1.10	217.20	7,295.7	7.7	12.6	12.4	0.32	0.32	-0.42
7,484.0	1.10	235.10	7,483.7	5.2	10.0	9.9	0.18	0.00	9.52

Survey Report

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Site:	Trucker "BRK" State	MD Reference:	WELL @ 3631.0usft (Cactus #124 KB=25')
Well:	#2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Houston R5000 Database

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,673.0	0.90	244.60	7,672.6	3.5	7.2	7.1	0.14	-0.11	5.03
7,863.0	0.50	249.60	7,862.6	2.6	5.0	5.0	0.21	-0.21	2.63
8,051.0	0.80	250.10	8,050.6	1.8	3.0	3.0	0.16	0.16	0.27
8,241.0	0.50	240.30	8,240.6	1.0	1.1	1.0	0.17	-0.16	-5.16
8,430.0	0.40	238.40	8,429.6	0.2	-0.2	-0.2	0.05	-0.05	-1.01
8,620.0	0.40	251.60	8,619.6	-0.3	-1.4	-1.4	0.05	0.00	6.95
8,809.0	0.80	250.30	8,808.6	-1.0	-3.3	-3.3	0.21	0.21	-0.69
8,999.0	0.30	271.60	8,998.6	-1.4	-5.0	-5.0	0.28	-0.26	11.21
9,188.0	0.60	358.90	9,187.6	-0.4	-5.5	-5.5	0.35	0.16	46.19
9,283.0	0.60	331.80	9,282.5	0.5	-5.8	-5.8	0.30	0.00	-28.53
9,475.0	1.60	294.80	9,474.5	2.5	-8.7	-8.8	0.61	0.52	-19.27
9,664.0	1.10	301.30	9,663.5	4.6	-12.6	-12.7	0.28	-0.26	3.44
9,854.0	0.50	295.10	9,853.4	5.9	-14.9	-15.1	0.32	-0.32	-3.26
10,044.0	1.00	223.50	10,043.4	5.0	-16.8	-17.0	0.51	0.26	-37.68
10,139.0	1.10	181.80	10,138.4	3.5	-17.4	-17.5	0.79	0.11	-43.89
10,234.0	1.10	183.00	10,233.4	1.7	-17.5	-17.6	0.02	0.00	1.26
10,328.0	0.40	153.70	10,327.4	0.5	-17.4	-17.4	0.83	-0.74	-31.17
10,393.0	0.30	140.30	10,392.4	0.2	-17.2	-17.2	0.20	-0.15	-20.62
10,488.0	0.70	156.50	10,487.4	-0.6	-16.8	-16.8	0.44	0.42	17.05
10,577.0	1.50	101.50	10,576.4	-1.3	-15.5	-15.4	1.39	0.90	-61.80
10,642.0	2.20	82.00	10,641.3	-1.3	-13.4	-13.4	1.43	1.08	-30.00
KOP: 10642.0' MD, 10641.3' TVD									
10,677.0	6.40	82.70	10,676.2	-0.9	-10.8	-10.8	12.00	12.00	2.00
10,725.0	13.20	86.30	10,723.5	-0.2	-2.7	-2.7	14.22	14.17	7.50
10,771.0	19.70	86.90	10,767.6	0.5	10.3	10.3	14.14	14.13	1.30
10,818.0	25.20	86.40	10,811.0	1.6	28.2	28.2	11.71	11.70	-1.06
10,865.0	29.20	86.00	10,852.8	3.0	49.7	49.6	8.52	8.51	-0.85
10,911.0	33.40	85.90	10,892.1	4.7	73.5	73.4	9.13	9.13	-0.22
10,958.0	38.30	85.20	10,930.2	6.8	100.9	100.8	10.46	10.43	-1.49
11,003.2	42.35	85.29	10,964.6	9.3	130.1	129.8	8.96	8.96	0.21
Cross 330' Hardline: 11003.2' MD, 10964.6' TVD, 42.35° INC									
11,006.0	42.60	85.30	10,966.7	9.4	132.0	131.7	8.96	8.96	0.19
11,053.0	47.80	88.30	10,999.8	11.2	165.3	164.9	11.95	11.06	6.38
11,100.0	54.10	91.00	11,029.4	11.4	201.7	201.4	14.13	13.40	5.74
11,149.0	59.20	91.50	11,056.3	10.5	242.6	242.3	10.44	10.41	1.02
11,196.0	62.30	90.10	11,079.3	10.0	283.6	283.3	7.09	6.60	-2.98
11,244.0	68.20	88.50	11,099.4	10.5	327.2	326.9	12.66	12.29	-3.33
11,292.0	76.20	88.70	11,114.1	11.6	372.9	372.5	16.67	16.67	0.42
11,307.0	78.60	88.80	11,117.3	11.9	387.5	387.1	16.01	16.00	0.67
11,342.0	84.10	90.60	11,122.6	12.1	422.1	421.7	16.52	15.71	5.14
11,369.0	87.00	92.20	11,124.7	11.5	449.0	448.6	12.26	10.74	5.93
11,400.0	89.60	93.50	11,125.6	9.9	479.9	479.6	9.38	8.39	4.19
EOC: 11400.0' MD, 11125.6' TVD, 89.60° INC, 93.50° AZ, 479.6' VS									
11,463.0	90.00	93.50	11,125.8	6.1	542.8	542.5	0.63	0.63	0.00

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11,558.0	91.40	92.00	11,124.7	1.5	637.7	637.5	2.16	1.47	-1.58
11,652.0	91.40	92.20	11,122.4	-1.9	731.6	731.4	0.21	0.00	0.21
11,747.0	90.30	93.20	11,121.0	-6.4	826.5	826.4	1.56	-1.16	1.05
11,841.0	90.70	92.60	11,120.1	-11.2	920.4	920.4	0.77	0.43	-0.64
11,936.0	92.20	92.20	11,117.7	-15.1	1,015.2	1,015.3	1.63	1.58	-0.42
12,031.0	93.10	92.00	11,113.3	-18.6	1,110.1	1,110.2	0.97	0.95	-0.21
12,125.0	92.90	91.80	11,108.4	-21.7	1,203.9	1,204.1	0.30	-0.21	-0.21
12,220.0	92.70	91.50	11,103.8	-24.5	1,298.7	1,299.0	0.38	-0.21	-0.32
12,315.0	92.40	91.40	11,099.6	-26.9	1,393.6	1,393.9	0.33	-0.32	-0.11
12,410.0	92.20	91.10	11,095.7	-28.9	1,488.5	1,488.8	0.38	-0.21	-0.32
12,504.0	92.00	91.00	11,092.3	-30.7	1,582.4	1,582.7	0.24	-0.21	-0.11
12,599.0	91.70	91.10	11,089.2	-32.4	1,677.4	1,677.7	0.33	-0.32	0.11
12,694.0	91.50	90.90	11,086.6	-34.1	1,772.3	1,772.6	0.30	-0.21	-0.21
12,789.0	90.90	91.30	11,084.6	-35.9	1,867.3	1,867.6	0.76	-0.63	0.42
12,883.0	92.00	91.90	11,082.2	-38.5	1,961.2	1,961.6	1.33	1.17	0.64
12,978.0	92.20	92.00	11,078.7	-41.7	2,056.1	2,056.5	0.24	0.21	0.11
13,073.0	92.40	91.80	11,074.9	-44.9	2,151.0	2,151.4	0.30	0.21	-0.21
13,167.0	92.30	91.80	11,071.1	-47.8	2,244.8	2,245.3	0.11	-0.11	0.00
13,262.0	92.30	92.00	11,067.2	-51.0	2,339.7	2,340.3	0.21	0.00	0.21
13,357.0	92.40	91.80	11,063.4	-54.1	2,434.6	2,435.2	0.24	0.11	-0.21
13,451.0	92.60	92.30	11,059.3	-57.5	2,528.4	2,529.1	0.57	0.21	0.53
13,546.0	92.50	92.80	11,055.0	-61.7	2,623.2	2,624.0	0.54	-0.11	0.53
13,641.0	92.50	91.80	11,050.9	-65.5	2,718.1	2,718.9	1.05	0.00	-1.05
13,736.0	92.20	91.60	11,047.0	-68.3	2,812.9	2,813.8	0.38	-0.32	-0.21
13,831.0	92.20	91.30	11,043.3	-70.7	2,907.8	2,908.7	0.32	0.00	-0.32
13,924.0	91.80	91.40	11,040.1	-72.9	3,000.8	3,001.6	0.44	-0.43	0.11
14,020.0	92.00	91.60	11,036.9	-75.4	3,096.7	3,097.6	0.29	0.21	0.21
14,114.0	92.30	91.10	11,033.4	-77.6	3,190.6	3,191.5	0.62	0.32	-0.53
14,209.0	91.30	91.10	11,030.4	-79.5	3,285.5	3,286.5	1.05	-1.05	0.00
14,304.0	91.10	90.90	11,028.4	-81.1	3,380.5	3,381.5	0.30	-0.21	-0.21
14,398.0	91.00	90.60	11,026.7	-82.4	3,474.5	3,475.4	0.34	-0.11	-0.32
14,493.0	91.70	90.40	11,024.4	-83.2	3,569.4	3,570.4	0.77	0.74	-0.21
14,588.0	91.70	90.70	11,021.6	-84.1	3,664.4	3,665.3	0.32	0.00	0.32
14,682.0	91.50	91.00	11,019.0	-85.5	3,758.3	3,759.3	0.38	-0.21	0.32
14,778.0	92.20	90.70	11,015.9	-86.9	3,854.3	3,855.3	0.79	0.73	-0.31
14,872.0	91.60	90.40	11,012.8	-87.8	3,948.2	3,949.2	0.71	-0.64	-0.32
14,967.0	91.50	90.50	11,010.2	-88.6	4,043.2	4,044.1	0.15	-0.11	0.11
15,062.0	92.20	90.50	11,007.2	-89.4	4,138.1	4,139.1	0.74	0.74	0.00
15,151.0	92.10	90.70	11,003.8	-90.3	4,227.1	4,228.0	0.25	-0.11	0.22
15,245.0	92.40	91.00	11,000.1	-91.7	4,321.0	4,321.9	0.45	0.32	0.32
15,340.0	92.30	91.10	10,996.2	-93.5	4,415.9	4,416.9	0.15	-0.11	0.11
15,434.0	92.10	91.30	10,992.6	-95.4	4,509.8	4,510.8	0.30	-0.21	0.21
15,527.0	92.00	91.30	10,989.3	-97.5	4,602.7	4,603.7	0.11	-0.11	0.00

Survey Report

Company:	Yates Petroleum	Local Co-ordinate Reference:	Well #2H
Project:	Lea County, NM (NAD-83)	TVD Reference:	WELL @ 3631.0usft (Cactus #124 KB=25')
Site:	Trucker "BRK" State	MD Reference:	WELL @ 3631.0usft (Cactus #124 KB=25')
Well:	#2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Houston R5000 Database

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,584.0	92.10	91.50	10,987.3	-98.9	4,659.7	4,660.7	0.39	0.18	0.35
Final MWD Survey: 15584.0' MD, 10987.3' TVD, -98.9' +N-S, 4659.7' +E-W									
15,652.0	92.10	91.50	10,984.8	-100.7	4,727.6	4,728.6	0.00	0.00	0.00
TD: 15652.0' MD, 10984.8' TVD - BHL: 15652.0' MD, 10984.8' TVD, 92.10° INC, 91.50° AZ, -100.7' +N-S, 4727.6' +E-W, 4728.6' VS									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates:		Comment
		+N-S (usft)	+E-W (usft)	
10,642.0	10,641.3	-1.3	-13.4	KOP: 10642.0' MD, 10641.3' TVD
11,003.2	10,964.6	9.3	130.1	Cross 330' Hardline: 11003.2' MD, 10964.6' TVD, 42.35° INC
11,400.0	11,125.6	9.9	479.9	EOC: 11400.0' MD, 11125.6' TVD, 89.60° INC, 93.50° AZ, 479.6' VS
15,584.0	10,987.3	-98.9	4,659.7	Final MWD Survey: 15584.0' MD, 10987.3' TVD, -98.9' +N-S, 4659.7' +E-W
15,652.0	10,984.8	-100.7	4,727.6	TD: 15652.0' MD, 10984.8' TVD
15,652.0	10,984.8	-100.7	4,727.6	BHL: 15652.0' MD, 10984.8' TVD, 92.10° INC, 91.50° AZ, -100.7' +N-S, 4727.6

Checked By: _____	Approved By: _____	Date: _____
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HOBBSOCD

DEC 10 2014

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Yates Petroleum

Lea County, NM (NAD-83)

Trucker "BRK" State

#2H

OH

Design: OH

Survey Report - Geographic

22 September, 2014

1.2

Survey Report - Geographic

Company:	Yates Petroleum	Local Co-ordinate Reference:	Well #2H
Project:	Lea County, NM (NAD-83)	TVD Reference:	WELL @ 3631.0usft (Cactus #124 KB=25')
Site:	Trucker "BRK" State	MD Reference:	WELL @ 3631.0usft (Cactus #124 KB=25')
Well:	#2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Houston R5000 Database

Project	Lea County, NM (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	Trucker "BRK" State		
Site Position:		Northing:	453,682.56 usft
From:	Map	Easting:	783,661.32 usft
Position Uncertainty:	2.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 14' 41.344 N
		Longitude:	103° 32' 58.323 W
		Grid Convergence:	0.42 °

Well	#2H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 14' 27.251 N
		Longitude:	103° 33' 3.585 W
		Ground Level:	3,606.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	8/14/2014	7.19
			Dip Angle
			(°)
			60.13
			Field Strength
			(nT)
			48,311

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			91.35

Survey Program	Date	9/22/2014		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
100.0	1,300.0	Survey #1 - Gyro (OH)	CB-GYRO-MS	Camera based gyro multishot
1,431.0	15,652.0	Survey #2 - Crescent MWD Surveys (OH)	MWD	MWD - Standard

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Map	Map	Latitude	Longitude
Depth	(°)	(°)	Depth	(usft)	(usft)	Northing	Easting		
(usft)			(usft)			(usft)	(usft)		
0.0	0.00	0.00	0.0	0.0	0.0	452,255.00	783,219.80	32° 14' 27.251 N	103° 33' 3.585 W
100.0	0.76	35.33	100.0	0.5	0.4	452,255.54	783,220.18	32° 14' 27.256 N	103° 33' 3.581 W
200.0	0.89	39.05	200.0	1.7	1.3	452,256.69	783,221.05	32° 14' 27.267 N	103° 33' 3.571 W
300.0	1.04	51.67	300.0	2.9	2.5	452,257.85	783,222.26	32° 14' 27.279 N	103° 33' 3.556 W
400.0	1.13	44.87	400.0	4.1	3.9	452,259.11	783,223.66	32° 14' 27.291 N	103° 33' 3.540 W
500.0	1.09	45.98	499.9	5.5	5.2	452,260.47	783,225.04	32° 14' 27.304 N	103° 33' 3.524 W
600.0	1.11	48.06	599.9	6.8	6.6	452,261.78	783,226.45	32° 14' 27.317 N	103° 33' 3.507 W
700.0	1.30	53.63	699.9	8.1	8.3	452,263.10	783,228.08	32° 14' 27.330 N	103° 33' 3.488 W
800.0	1.16	51.87	799.9	9.4	10.0	452,264.40	783,229.79	32° 14' 27.343 N	103° 33' 3.468 W
900.0	0.85	44.60	899.9	10.6	11.3	452,265.55	783,231.11	32° 14' 27.354 N	103° 33' 3.453 W
1,000.0	0.67	53.17	999.8	11.4	12.3	452,266.43	783,232.10	32° 14' 27.363 N	103° 33' 3.441 W

Survey Report - Geographic

Company:	Yates Petroleum	Local Co-ordinate Reference:	Well #2H
Project:	Lea County, NM (NAD-83)	TVD Reference:	WELL @ 3631.0usft (Cactus #124 KB=25')
Site:	Trucker "BRK" State	MD Reference:	WELL @ 3631.0usft (Cactus #124 KB=25')
Well:	#2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Houston R5000 Database

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,100.0	0.52	48.01	1,099.8	12.1	13.1	452,267.08	783,232.90	32° 14' 27.369 N	103° 33' 3.432 W
1,200.0	0.51	35.91	1,199.8	12.7	13.7	452,267.75	783,233.50	32° 14' 27.376 N	103° 33' 3.425 W
1,300.0	0.39	24.04	1,299.8	13.4	14.1	452,268.42	783,233.90	32° 14' 27.382 N	103° 33' 3.420 W
1,431.0	0.30	348.30	1,430.8	14.2	14.2	452,269.16	783,234.01	32° 14' 27.390 N	103° 33' 3.419 W
1,620.0	0.30	348.80	1,619.8	15.1	14.0	452,270.13	783,233.81	32° 14' 27.399 N	103° 33' 3.421 W
1,809.0	0.00	349.30	1,808.8	15.6	13.9	452,270.62	783,233.72	32° 14' 27.404 N	103° 33' 3.422 W
1,998.0	0.30	28.70	1,997.8	16.1	14.2	452,271.05	783,233.96	32° 14' 27.408 N	103° 33' 3.419 W
2,186.0	0.10	243.60	2,185.8	16.4	14.2	452,271.41	783,234.05	32° 14' 27.412 N	103° 33' 3.418 W
2,375.0	0.30	32.30	2,374.8	16.8	14.4	452,271.76	783,234.16	32° 14' 27.415 N	103° 33' 3.417 W
2,564.0	0.20	25.50	2,563.8	17.5	14.8	452,272.47	783,234.57	32° 14' 27.422 N	103° 33' 3.427 W
2,754.0	0.30	356.60	2,753.8	18.3	14.9	452,273.27	783,234.68	32° 14' 27.430 N	103° 33' 3.410 W
2,943.0	0.30	310.00	2,942.8	19.1	14.5	452,274.08	783,234.27	32° 14' 27.438 N	103° 33' 3.415 W
3,132.0	0.20	302.60	3,131.8	19.6	13.8	452,274.58	783,233.62	32° 14' 27.443 N	103° 33' 3.423 W
3,321.0	0.30	296.80	3,320.8	20.0	13.1	452,274.98	783,232.90	32° 14' 27.447 N	103° 33' 3.431 W
3,510.0	0.10	299.20	3,509.8	20.3	12.5	452,275.28	783,232.31	32° 14' 27.450 N	103° 33' 3.438 W
3,700.0	0.30	23.20	3,699.8	20.8	12.6	452,275.82	783,232.36	32° 14' 27.456 N	103° 33' 3.437 W
3,890.0	0.20	358.20	3,889.8	21.6	12.8	452,276.61	783,232.55	32° 14' 27.463 N	103° 33' 3.435 W
4,078.0	0.20	44.10	4,077.8	22.2	13.0	452,277.17	783,232.77	32° 14' 27.469 N	103° 33' 3.432 W
4,268.0	0.40	21.10	4,267.8	23.0	13.4	452,278.03	783,233.24	32° 14' 27.477 N	103° 33' 3.427 W
4,364.0	0.20	69.70	4,363.8	23.4	13.7	452,278.40	783,233.51	32° 14' 27.481 N	103° 33' 3.424 W
4,458.0	0.40	81.70	4,457.8	23.5	14.2	452,278.50	783,233.99	32° 14' 27.482 N	103° 33' 3.418 W
4,553.0	0.80	118.90	4,552.8	23.2	15.1	452,278.23	783,234.90	32° 14' 27.479 N	103° 33' 3.407 W
4,648.0	0.40	217.10	4,647.8	22.6	15.5	452,277.64	783,235.28	32° 14' 27.473 N	103° 33' 3.403 W
4,743.0	0.50	238.70	4,742.8	22.2	14.9	452,277.16	783,234.73	32° 14' 27.469 N	103° 33' 3.410 W
4,838.0	0.40	154.30	4,837.8	21.7	14.7	452,276.65	783,234.52	32° 14' 27.464 N	103° 33' 3.412 W
4,933.0	0.60	151.20	4,932.8	20.9	15.1	452,275.92	783,234.90	32° 14' 27.456 N	103° 33' 3.408 W
5,027.0	0.40	171.50	5,026.8	20.2	15.4	452,275.16	783,235.19	32° 14' 27.449 N	103° 33' 3.404 W
5,122.0	0.30	161.20	5,121.8	19.6	15.5	452,274.60	783,235.32	32° 14' 27.443 N	103° 33' 3.403 W
5,216.0	0.40	165.90	5,215.8	19.0	15.7	452,274.05	783,235.47	32° 14' 27.438 N	103° 33' 3.401 W
5,254.0	0.40	182.80	5,253.8	18.8	15.7	452,273.78	783,235.50	32° 14' 27.435 N	103° 33' 3.401 W
5,401.0	0.40	150.60	5,400.8	17.8	15.9	452,272.82	783,235.73	32° 14' 27.426 N	103° 33' 3.398 W
5,591.0	0.40	137.40	5,590.8	16.8	16.7	452,271.76	783,236.50	32° 14' 27.415 N	103° 33' 3.389 W
5,781.0	0.40	114.30	5,780.8	16.0	17.8	452,271.00	783,237.56	32° 14' 27.408 N	103° 33' 3.377 W
5,970.0	0.60	113.70	5,969.8	15.3	19.3	452,270.33	783,239.06	32° 14' 27.401 N	103° 33' 3.360 W
6,160.0	0.40	107.80	6,159.8	14.7	20.8	452,269.73	783,240.60	32° 14' 27.395 N	103° 33' 3.342 W
6,350.0	0.30	239.00	6,349.8	14.3	21.0	452,269.27	783,240.81	32° 14' 27.390 N	103° 33' 3.339 W
6,537.0	0.70	239.90	6,536.7	13.4	19.6	452,268.44	783,239.40	32° 14' 27.382 N	103° 33' 3.356 W
6,726.0	0.70	235.70	6,725.7	12.2	17.7	452,267.21	783,237.45	32° 14' 27.370 N	103° 33' 3.379 W
6,916.0	0.70	240.30	6,915.7	11.0	15.7	452,265.98	783,235.48	32° 14' 27.358 N	103° 33' 3.402 W
7,107.0	0.50	218.00	7,106.7	9.7	14.2	452,264.75	783,233.96	32° 14' 27.346 N	103° 33' 3.420 W
7,296.0	1.10	217.20	7,295.7	7.7	12.6	452,262.65	783,232.35	32° 14' 27.325 N	103° 33' 3.438 W
7,484.0	1.10	235.10	7,483.7	5.2	10.0	452,260.18	783,229.78	32° 14' 27.301 N	103° 33' 3.469 W
7,673.0	0.90	244.60	7,672.6	3.5	7.2	452,258.51	783,226.95	32° 14' 27.285 N	103° 33' 3.502 W
7,863.0	0.50	249.60	7,862.6	2.6	5.0	452,257.58	783,224.83	32° 14' 27.276 N	103° 33' 3.526 W
8,051.0	0.80	250.10	8,050.6	1.8	3.0	452,256.85	783,222.82	32° 14' 27.269 N	103° 33' 3.550 W
8,241.0	0.50	240.30	8,240.6	1.0	1.1	452,255.98	783,220.86	32° 14' 27.260 N	103° 33' 3.573 W
8,430.0	0.40	238.40	8,429.6	0.2	-0.2	452,255.23	783,219.58	32° 14' 27.253 N	103° 33' 3.588 W
8,620.0	0.40	251.60	8,619.6	-0.3	-1.4	452,254.67	783,218.38	32° 14' 27.247 N	103° 33' 3.602 W
8,809.0	0.80	250.30	8,808.6	-1.0	-3.3	452,254.02	783,216.52	32° 14' 27.241 N	103° 33' 3.624 W
8,999.0	0.30	271.60	8,998.6	-1.4	-5.0	452,253.59	783,214.77	32° 14' 27.237 N	103° 33' 3.644 W
9,188.0	0.60	358.90	9,187.6	-0.4	-5.5	452,254.59	783,214.26	32° 14' 27.247 N	103° 33' 3.650 W
9,283.0	0.60	331.80	9,282.5	0.5	-5.8	452,255.53	783,214.01	32° 14' 27.256 N	103° 33' 3.653 W
9,475.0	1.60	294.80	9,474.5	2.5	-8.7	452,257.54	783,211.10	32° 14' 27.276 N	103° 33' 3.686 W
9,664.0	1.10	301.30	9,663.5	4.6	-12.6	452,259.59	783,207.16	32° 14' 27.297 N	103° 33' 3.732 W
9,854.0	0.50	295.10	9,853.4	5.9	-14.9	452,260.89	783,204.85	32° 14' 27.310 N	103° 33' 3.759 W

Survey Report - Geographic

Company:	Yates Petroleum	Local Co-ordinate Reference:	Well #2H
Project:	Lea County, NM (NAD-83)	TVD Reference:	WELL @ 3631.0usft (Cactus #124 KB=25')
Site:	Trucker "BRK" State	MD Reference:	WELL @ 3631.0usft (Cactus #124 KB=25')
Well:	#2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Houston R5000 Database

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,044.0	1.00	223.50	10,043.4	5.0	-16.8	452,260.03	783,202.96	32° 14' 27.302 N	103° 33' 3.781 W
10,139.0	1.10	181.80	10,138.4	3.5	-17.4	452,258.52	783,202.36	32° 14' 27.287 N	103° 33' 3.788 W
10,234.0	1.10	183.00	10,233.4	1.7	-17.5	452,256.70	783,202.28	32° 14' 27.269 N	103° 33' 3.789 W
10,328.0	0.40	153.70	10,327.4	0.5	-17.4	452,255.50	783,202.38	32° 14' 27.257 N	103° 33' 3.788 W
10,393.0	0.30	140.30	10,392.4	0.2	-17.2	452,255.17	783,202.59	32° 14' 27.253 N	103° 33' 3.786 W
10,488.0	0.70	156.50	10,487.4	-0.6	-16.8	452,254.45	783,202.98	32° 14' 27.246 N	103° 33' 3.781 W
10,577.0	1.50	101.50	10,576.4	-1.3	-15.5	452,253.72	783,204.34	32° 14' 27.239 N	103° 33' 3.765 W
10,642.0	2.20	82.00	10,641.3	-1.3	-13.4	452,253.72	783,206.41	32° 14' 27.239 N	103° 33' 3.741 W
KOP: 10642.0' MD, 10641.3' TVD									
10,677.0	6.40	82.70	10,676.2	-0.9	-10.8	452,254.06	783,209.01	32° 14' 27.242 N	103° 33' 3.711 W
10,725.0	13.20	86.30	10,723.5	-0.2	-2.7	452,254.76	783,217.14	32° 14' 27.248 N	103° 33' 3.616 W
10,771.0	19.70	86.90	10,767.6	0.5	10.3	452,255.51	783,230.14	32° 14' 27.255 N	103° 33' 3.465 W
10,818.0	25.20	86.40	10,811.0	1.6	28.2	452,256.57	783,248.05	32° 14' 27.264 N	103° 33' 3.256 W
10,865.0	29.20	86.00	10,852.8	3.0	49.7	452,258.00	783,269.48	32° 14' 27.277 N	103° 33' 3.007 W
10,911.0	33.40	85.90	10,892.1	4.7	73.5	452,259.69	783,293.31	32° 14' 27.292 N	103° 33' 2.729 W
10,958.0	38.30	85.20	10,930.2	6.8	100.9	452,261.83	783,320.74	32° 14' 27.311 N	103° 33' 2.409 W
11,003.2	42.35	85.29	10,964.6	9.3	130.1	452,264.26	783,349.89	32° 14' 27.333 N	103° 33' 2.070 W
Cross 330' Hardline: 11003.2' MD, 10964.6' TVD, 42.35° INC									
11,006.0	42.60	85.30	10,966.7	9.4	132.0	452,264.41	783,351.77	32° 14' 27.334 N	103° 33' 2.048 W
11,053.0	47.80	88.30	10,999.8	11.2	165.3	452,266.23	783,385.05	32° 14' 27.350 N	103° 33' 1.660 W
11,100.0	54.10	91.00	11,029.4	11.4	201.7	452,266.42	783,421.53	32° 14' 27.349 N	103° 33' 1.236 W
11,149.0	59.20	91.50	11,056.3	10.5	242.6	452,265.52	783,462.44	32° 14' 27.337 N	103° 33' 0.759 W
11,196.0	62.30	90.10	11,079.3	10.0	283.6	452,264.95	783,503.43	32° 14' 27.329 N	103° 33' 0.282 W
11,244.0	68.20	88.50	11,099.4	10.5	327.2	452,265.50	783,547.00	32° 14' 27.331 N	103° 32' 59.775 W
11,292.0	76.20	88.70	11,114.1	11.6	372.9	452,266.61	783,592.65	32° 14' 27.339 N	103° 32' 59.243 W
11,307.0	78.60	88.80	11,117.3	11.9	387.5	452,266.93	783,607.28	32° 14' 27.341 N	103° 32' 59.073 W
11,342.0	84.10	90.60	11,122.6	12.1	422.1	452,267.11	783,641.87	32° 14' 27.340 N	103° 32' 58.670 W
11,369.0	87.00	92.20	11,124.7	11.5	449.0	452,266.45	783,668.78	32° 14' 27.331 N	103° 32' 58.357 W
11,400.0	89.60	93.50	11,125.6	9.9	479.9	452,264.91	783,699.72	32° 14' 27.314 N	103° 32' 57.997 W
EOC: 11400.0' MD, 11125.6' TVD, 89.60° INC, 93.50° AZ, 479.6' VS									
11,463.0	90.00	93.50	11,125.8	6.1	542.8	452,261.07	783,762.60	32° 14' 27.271 N	103° 32' 57.265 W
11,558.0	91.40	92.00	11,124.7	1.5	637.7	452,256.51	783,857.48	32° 14' 27.219 N	103° 32' 56.161 W
11,652.0	91.40	92.20	11,122.4	-1.9	731.6	452,253.07	783,951.39	32° 14' 27.179 N	103° 32' 55.068 W
11,747.0	90.30	93.20	11,121.0	-6.4	826.5	452,248.59	784,046.27	32° 14' 27.127 N	103° 32' 53.963 W
11,841.0	90.70	92.60	11,120.1	-11.2	920.4	452,243.84	784,140.15	32° 14' 27.074 N	103° 32' 52.871 W
11,936.0	92.20	92.20	11,117.7	-15.1	1,015.2	452,239.86	784,235.03	32° 14' 27.027 N	103° 32' 51.766 W
12,031.0	93.10	92.00	11,113.3	-18.6	1,110.1	452,236.38	784,329.87	32° 14' 26.986 N	103° 32' 50.663 W
12,125.0	92.90	91.80	11,108.4	-21.7	1,203.9	452,233.27	784,423.69	32° 14' 26.948 N	103° 32' 49.570 W
12,220.0	92.70	91.50	11,103.8	-24.5	1,298.7	452,230.54	784,518.53	32° 14' 26.915 N	103° 32' 48.466 W
12,315.0	92.40	91.40	11,099.6	-26.9	1,393.6	452,228.13	784,613.41	32° 14' 26.884 N	103° 32' 47.362 W
12,410.0	92.20	91.10	11,095.7	-28.9	1,488.5	452,226.06	784,708.31	32° 14' 26.857 N	103° 32' 46.257 W
12,504.0	92.00	91.00	11,092.3	-30.7	1,582.4	452,224.34	784,802.23	32° 14' 26.833 N	103° 32' 45.164 W
12,599.0	91.70	91.10	11,089.2	-32.4	1,677.4	452,222.60	784,897.16	32° 14' 26.809 N	103° 32' 44.059 W
12,694.0	91.50	90.90	11,086.6	-34.1	1,772.3	452,220.95	784,992.11	32° 14' 26.785 N	103° 32' 42.953 W
12,789.0	90.90	91.30	11,084.6	-35.9	1,867.3	452,219.12	785,087.07	32° 14' 26.760 N	103° 32' 41.848 W
12,883.0	92.00	91.90	11,082.2	-38.5	1,961.2	452,216.50	785,181.00	32° 14' 26.728 N	103° 32' 40.755 W
12,978.0	92.20	92.00	11,078.7	-41.7	2,056.1	452,213.27	785,275.89	32° 14' 26.689 N	103° 32' 39.650 W
13,073.0	92.40	91.80	11,074.9	-44.9	2,151.0	452,210.12	785,370.76	32° 14' 26.651 N	103° 32' 38.546 W
13,167.0	92.30	91.80	11,071.1	-47.8	2,244.8	452,207.17	785,464.63	32° 14' 26.615 N	103° 32' 37.453 W
13,262.0	92.30	92.00	11,067.2	-51.0	2,339.7	452,204.02	785,559.50	32° 14' 26.577 N	103° 32' 36.349 W
13,357.0	92.40	91.80	11,063.4	-54.1	2,434.6	452,200.88	785,654.37	32° 14' 26.539 N	103° 32' 35.245 W
13,451.0	92.60	92.30	11,059.3	-57.5	2,528.4	452,197.52	785,748.22	32° 14' 26.499 N	103° 32' 34.152 W
13,546.0	92.50	92.80	11,055.0	-61.7	2,623.2	452,193.29	785,843.03	32° 14' 26.450 N	103° 32' 33.049 W
13,641.0	92.50	91.80	11,050.9	-65.5	2,718.1	452,189.49	785,937.86	32° 14' 26.405 N	103° 32' 31.945 W
13,736.0	92.20	91.60	11,047.0	-68.3	2,812.9	452,186.67	786,032.74	32° 14' 26.370 N	103° 32' 30.841 W

Survey Report - Geographic

Company:	Yates Petroleum	Local Co-ordinate Reference:	Well #2H
Project:	Lea County, NM (NAD-83)	TVD Reference:	WELL @ 3631.0usft (Cactus #124 KB=25')
Site:	Trucker "BRK" State:	MD Reference:	WELL @ 3631.0usft (Cactus #124 KB=25')
Well:	#2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Houston R5000 Database

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
13,831.0	92.20	91.30	11,043.3	-70.7	2,907.8	452,184.27	786,127.64	32° 14' 26.340 N	103° 32' 29.736 W
13,924.0	91.80	91.40	11,040.1	-72.9	3,000.8	452,182.08	786,220.56	32° 14' 26.311 N	103° 32' 28.654 W
14,020.0	92.00	91.60	11,036.9	-75.4	3,096.7	452,179.57	786,316.47	32° 14' 26.279 N	103° 32' 27.538 W
14,114.0	92.30	91.10	11,033.4	-77.6	3,190.6	452,177.35	786,410.38	32° 14' 26.251 N	103° 32' 26.445 W
14,209.0	91.30	91.10	11,030.4	-79.5	3,285.5	452,175.53	786,505.32	32° 14' 26.226 N	103° 32' 25.340 W
14,304.0	91.10	90.90	11,028.4	-81.1	3,380.5	452,173.87	786,600.28	32° 14' 26.202 N	103° 32' 24.234 W
14,398.0	91.00	90.60	11,026.7	-82.4	3,474.5	452,172.64	786,694.26	32° 14' 26.183 N	103° 32' 23.140 W
14,493.0	91.70	90.40	11,024.4	-83.2	3,569.4	452,171.81	786,789.23	32° 14' 26.168 N	103° 32' 22.034 W
14,588.0	91.70	90.70	11,021.6	-84.1	3,664.4	452,170.90	786,884.18	32° 14' 26.152 N	103° 32' 20.929 W
14,682.0	91.50	91.00	11,019.0	-85.5	3,758.3	452,169.51	786,978.13	32° 14' 26.132 N	103° 32' 19.835 W
14,778.0	92.20	90.70	11,015.9	-86.9	3,854.3	452,168.08	787,074.07	32° 14' 26.110 N	103° 32' 18.718 W
14,872.0	91.60	90.40	11,012.8	-87.8	3,948.2	452,167.18	787,168.01	32° 14' 26.095 N	103° 32' 17.625 W
14,967.0	91.50	90.50	11,010.2	-88.6	4,043.2	452,166.44	787,262.98	32° 14' 26.080 N	103° 32' 16.519 W
15,062.0	92.20	90.50	11,007.2	-89.4	4,138.1	452,165.61	787,357.92	32° 14' 26.065 N	103° 32' 15.414 W
15,151.0	92.10	90.70	11,003.8	-90.3	4,227.1	452,164.68	787,446.86	32° 14' 26.049 N	103° 32' 14.378 W
15,245.0	92.40	91.00	11,000.1	-91.7	4,321.0	452,163.28	787,540.77	32° 14' 26.029 N	103° 32' 13.285 W
15,340.0	92.30	91.10	10,996.2	-93.5	4,415.9	452,161.54	787,635.68	32° 14' 26.005 N	103° 32' 12.180 W
15,434.0	92.10	91.30	10,992.6	-95.4	4,509.8	452,159.58	787,729.59	32° 14' 25.978 N	103° 32' 11.087 W
15,527.0	92.00	91.30	10,989.3	-97.5	4,602.7	452,157.47	787,822.50	32° 14' 25.951 N	103° 32' 10.005 W
15,584.0	92.10	91.50	10,987.3	-98.9	4,659.7	452,156.08	787,879.45	32° 14' 25.933 N	103° 32' 9.343 W
Final MWD Survey: 15584.0' MD, 10987.3' TVD, -98.9° +N/-S, 4659.7' +E/-W									
15,652.0	92.10	91.50	10,984.8	-100.7	4,727.6	452,154.30	787,947.38	32° 14' 25.910 N	103° 32' 8.552 W
TD: 15652.0' MD, 10984.8' TVD - BHL: 15652.0' MD, 10984.8' TVD, 92.10° INC, 91.50° AZ, -100.7° +N/-S, 4727.6' +E/-W, 4728.6' VS									

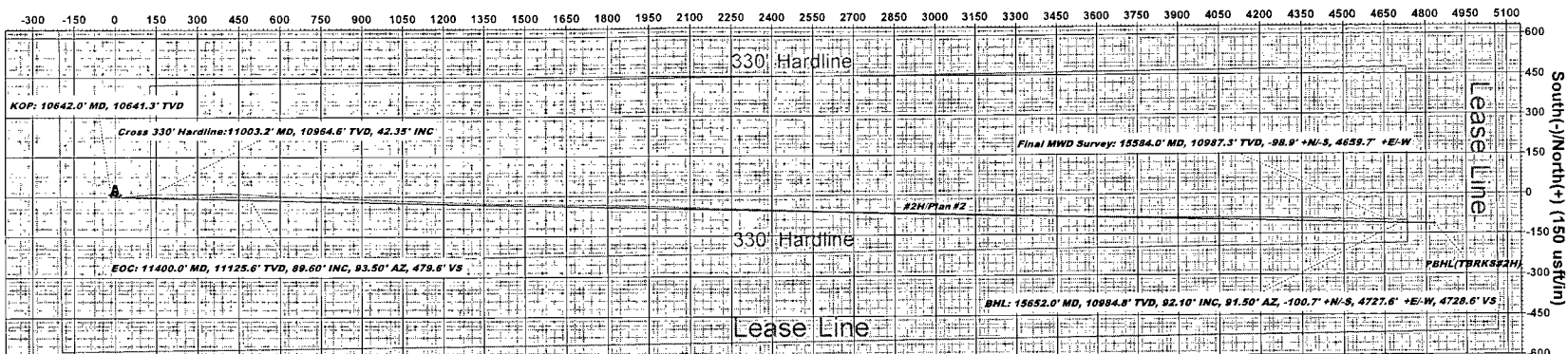
Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,642.0	10,641.3	-1.3	-13.4	KOP: 10642.0' MD, 10641.3' TVD
11,003.2	10,964.6	9.3	130.1	Cross 330' Hardline: 11003.2' MD, 10964.6' TVD, 42.35° INC
11,400.0	11,125.6	9.9	479.9	EOC: 11400.0' MD, 11125.6' TVD, 89.60° INC, 93.50° AZ, 479.6' VS
15,584.0	10,987.3	-98.9	4,659.7	Final MWD Survey: 15584.0' MD, 10987.3' TVD, -98.9° +N/-S, 4659.7' +E/-W
15,652.0	10,984.8	-100.7	4,727.6	TD: 15652.0' MD, 10984.8' TVD
15,652.0	10,984.8	-100.7	4,727.6	BHL: 15652.0' MD, 10984.8' TVD, 92.10° INC, 91.50° AZ, -100.7° +N/-S, 4727.6

Checked By: _____ Approved By: _____ Date: _____



Yates Petroleum
Project: Lea County, NM (NAD-83)
Site: Trucker "BRK" State
Well: #2H
Wellbore: OH
Plan: Plan #2 (#2H/OH)

West(-)/East(+) (150 usft/in)

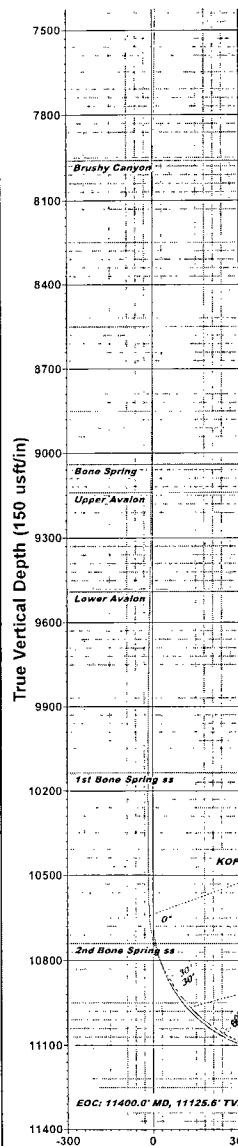


WELL DETAILS: #2H

Ground Elevation:: 3606.0
RKB Elevation: WELL @ 3631.0usft (Cactus #124 KB=25')
Rig Name: Cactus #124 KB=25'

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL(TBRKS#2H)	10980.0	-114.0	4832.4	452141.00	788052.20
330C(TBRK#2H)	10983.5	-111.6	4732.4	452143.36	787952.19



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	10652.9	0.00	0.00	10652.9	0.0	0.0	0.00	0.00	0.0	
3	11419.4	91.98	91.35	11130.1	-11.6	493.8	12.00	91.35	494.0	
4	15661.7	91.98	91.35	10983.5	-111.6	4732.4	0.00	0.00	4733.7	330C(TBRK#2H)
5	15761.7	91.98	91.35	10980.0	-114.0	4832.3	0.00	0.00	4833.6	

PROJECT DETAILS: Lea County, NM (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: -0.42°
Magnetic North: 6.77°

Magnetic Field
Strength: 48310.6snT
Dip Angle: 60.13°
Date: 8/14/2014
Model: IGRF2010

Vertical Section at 91.35° (150 usft/in)

Crescent Directional Drilling
7715 West Industrial Ave. Midland, Tx 79706
Phone: 432-618-1135

Plan: Plan #2 (#2H/OH)
Created By: Adrian Castro Date: 7:08, September 22 2014





Job Number: SVMO-141220
 Company: Yates Petroleum Corporation
 Lease/Well: Trucker BRK State 2-H
 Location: Lea County, NM
 Rig Name: Cactus #124
 RKB: 25'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 6.79°
 Grid: East To Grid North
 File name: S:\2014SU-1\YATES\MO\TRUCKE-112H.SVY
 Date/Time: 10-Sep-14 / 12:26
 Curve Name: Surface - 1300' M.D. (Rate Gyro)

MS SURVEY

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method

Vertical Section Plane .00

Vertical Section Referenced to Wellhead

Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
 Surface MD to 1,300' MD is, to the best of
 our knowledge a true and accurate account of
 the well bore.

Harley Patterson 9/10/14
 MS Energy Services Date

HOBSOCD

DEC 10 2014

RECEIVED

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.76	35.33	100.00	.54	.38	.54	.66	35.33	.76
200.00	.89	39.05	199.99	1.69	1.26	1.69	2.10	36.70	.14
300.00	1.04	51.67	299.97	2.85	2.46	2.85	3.76	40.76	.26
400.00	1.13	44.87	399.95	4.11	3.87	4.11	5.64	43.22	.16
500.00	1.09	45.98	499.94	5.47	5.24	5.47	7.58	43.78	.05
600.00	1.11	48.06	599.92	6.78	6.65	6.78	9.50	44.44	.04
700.00	1.30	53.63	699.90	8.10	8.28	8.10	11.59	45.64	.22
800.00	1.16	51.87	799.87	9.40	9.99	9.40	13.72	46.75	.14
900.00	.85	44.60	899.86	10.55	11.31	10.55	15.47	46.99	.33

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	
1000.00	.67	53.17	999.85	11.43	12.30	11.43	16.79	47.10	.21
1100.00	.52	48.01	1099.84	12.08	13.10	12.08	17.83	47.32	.16
1200.00	.51	35.91	1199.84	12.75	13.70	12.75	18.72	47.06	.11
Last Survey Depth Recorded									
1300.00	.39	24.04	1299.84	13.42	14.10	13.42	19.47	46.42	.15