

Scientific Drilling

API # 30-015-36374
YATES PETROLEUM

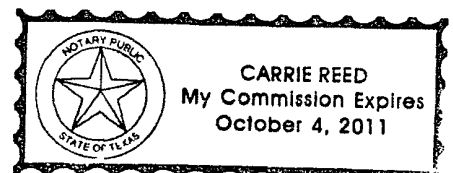
Field: Cottonwood Creek
Site: Eddy County, NM
Well: Link BKT Federal Com #2H
Wellpath: VH - Job #32K1108885
Survey: 11/06/08

This survey is correct to the best of my knowledge
and is supported by actual field data.

.....*L. L. L. L.*.....Company Representative

Notorized this date 22nd of December, 2008.

Carrie Reed
Notary Signature
County of Midland
State of Texas





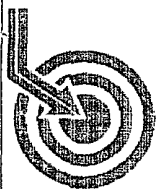
Scientific Drilling International Survey Report

Company: YATES PETROLEUM	Date: 12/17/2008	Time: 14:47:37	Page: 1
Field: Cottonwood Creek	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grd North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE: 0.0	
Well: Link BKT Federal Com #2H	Section (VS) Reference:	Well: (0.00N,0.00E,90.23Azi)	
Wellpath: VH - Job #32K1108885	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 11/06/08 KSRG 0'-2490'	Start Date: 11/06/2008
Company: Scientific Drilling Internatio	Engineer: Pena w/P&M
Tool: Keeper, Keeper Gyro	Tied-to: From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.20	268.60	100.00	-0.17	0.00	-0.17	0.20	0.17	268.60
200.00	0.52	259.50	200.00	-0.79	-0.09	-0.80	0.32	0.80	263.46
300.00	0.16	300.27	300.00	-1.36	-0.10	-1.36	0.41	1.37	265.65
400.00	0.25	258.41	400.00	-1.70	-0.08	-1.70	0.17	1.70	267.40
500.00	0.42	317.72	499.99	-2.16	0.15	-2.16	0.36	2.16	273.99
600.00	0.90	352.92	599.99	-2.50	1.20	-2.50	0.61	2.77	295.66
700.00	0.63	7.75	699.98	-2.53	2.53	-2.52	0.33	3.57	315.03
800.00	1.46	7.86	799.96	-2.29	4.33	-2.27	0.83	4.89	332.30
900.00	1.01	15.44	899.94	-1.89	6.44	-1.87	0.48	6.71	343.85
1000.00	1.07	353.57	999.92	-1.77	8.22	-1.74	0.40	8.40	348.08
1100.00	0.55	355.88	1099.91	-1.91	9.63	-1.87	0.52	9.81	348.98
1200.00	0.63	356.84	1199.91	-1.98	10.65	-1.94	0.08	10.83	349.69
1300.00	0.59	318.03	1299.90	-2.36	11.59	-2.31	0.41	11.82	348.71
1400.00	0.97	335.40	1399.89	-3.06	12.74	-3.01	0.44	13.09	346.70
1500.00	0.75	314.79	1499.88	-3.88	13.97	-3.83	0.38	14.48	344.68
1600.00	1.35	310.90	1599.86	-5.24	15.20	-5.18	0.60	16.06	341.18
1700.00	1.37	337.57	1699.84	-6.60	17.08	-6.53	0.63	18.28	339.08
1800.00	1.45	349.25	1799.81	-7.30	19.43	-7.22	0.30	20.73	339.61
1900.00	1.57	340.31	1899.77	-8.01	21.96	-7.92	0.26	23.34	340.17
2000.00	4.49	341.99	1999.62	-9.70	26.97	-9.59	2.92	28.63	340.43
2100.00	4.52	345.75	2099.31	-11.91	34.51	-11.77	0.30	36.47	341.17
2200.00	4.62	341.96	2198.99	-14.16	42.16	-13.99	0.32	44.42	341.65
2300.00	4.29	345.07	2298.69	-16.40	49.61	-16.20	0.41	52.18	341.92
2400.00	4.83	341.97	2398.37	-18.69	57.22	-18.47	0.59	60.13	342.12
2490.00	4.98	339.48	2488.05	-21.27	64.48	-21.01	0.29	67.82	341.96



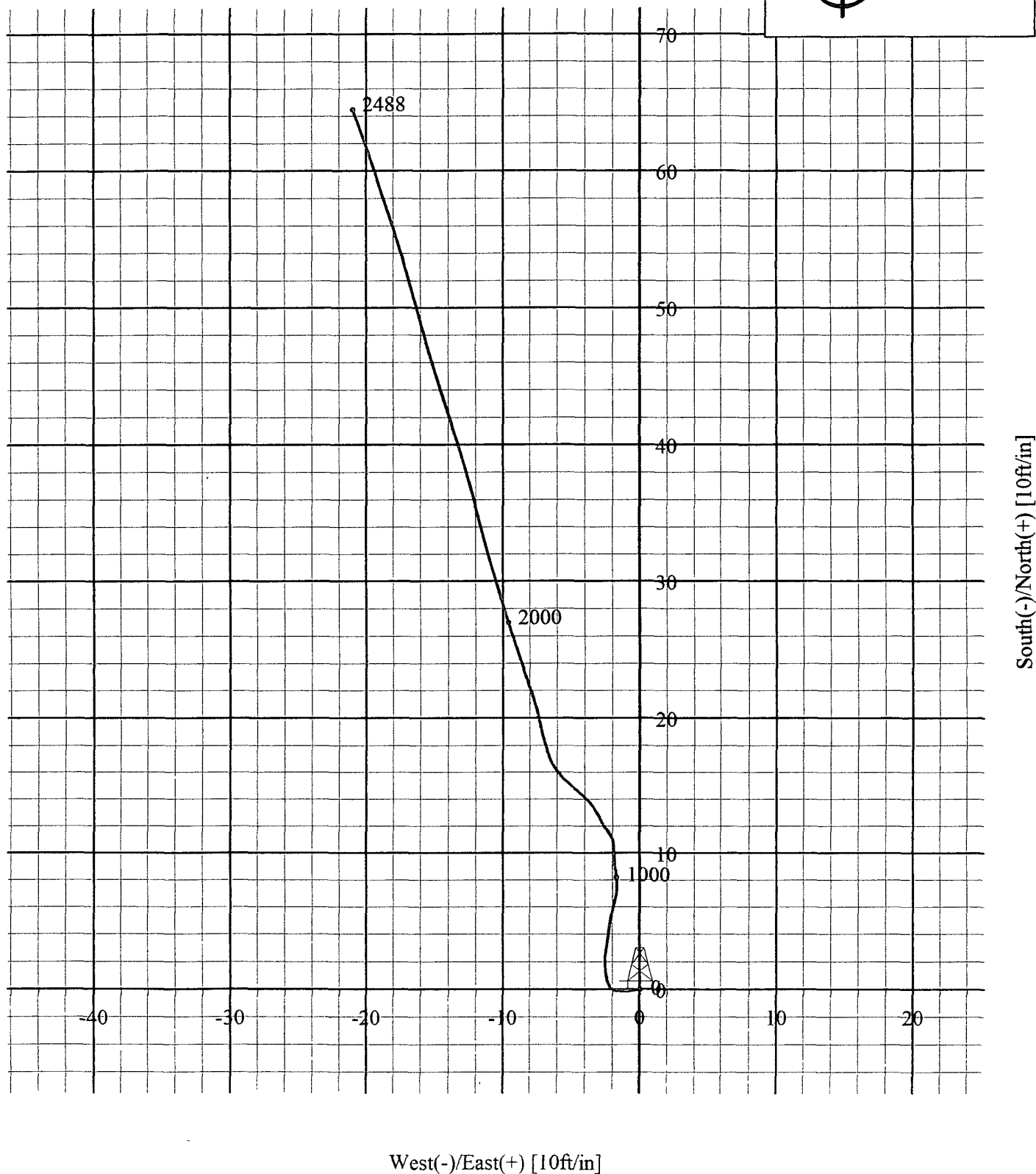
Scientific
Drilling

Field: Cottonwood Creek
Site: Eddy County, NM
Well: Link BKT Federal Com #2H
Wellpath: VH - Job #32K1108885
Survey: 11/06/08

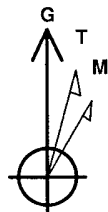


Azimuths to Grid North
True North 0 00°
Magnetic North 0.00°

Magnetic Field
Strength 0nT
Dip Angle 0 00°
Date: 12/17/2008
Model igrf2000



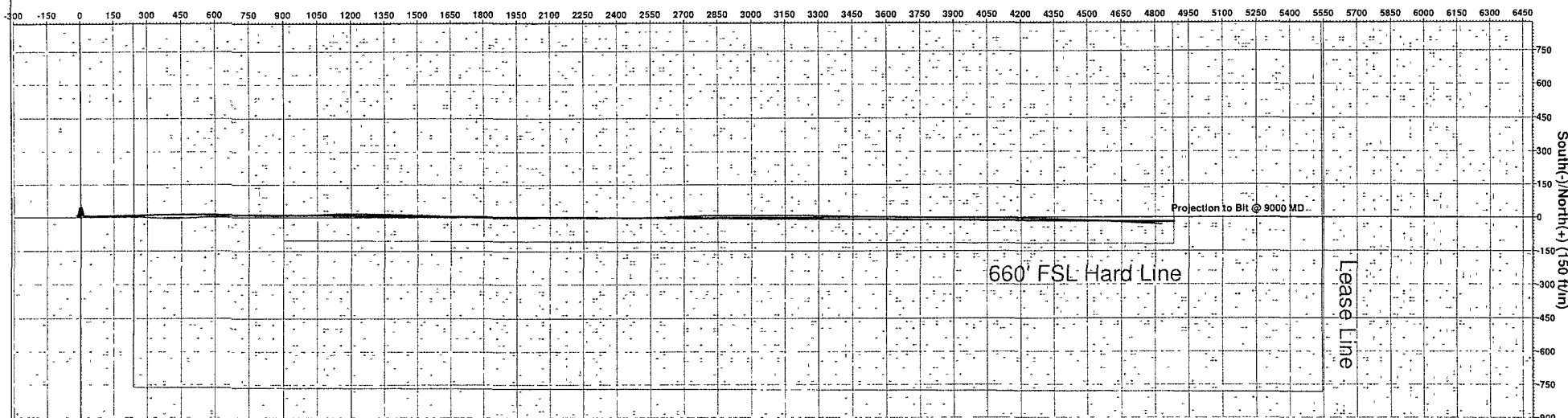
Yates Petroleum Corporation



Azimuths to Grid North
True North 0 10°
Magnetic North: 8 50°

Magnetic Field
Strength 49235 9nT
Dip Angle: 60.74°
Date 8/5/2008
Model IGRF200510

EOW



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	1200 00	0 63	356 84	1199 91	10 64	-1 94	0 00	0 00	-1 98	
2	1608 32	8 00	100 00	1606 91	7 94	25 97	2 00	107 44	25 94	
3	1684 75	8 00	89 00	1682 60	7 11	36 53	2 00	-95 45	36 50	
4	4426 75	8 00	89 00	4397 92	13 77	418 08	0 00	0 00	418 02	
5	5153 32	89 05	90 44	4840 00	11 47	918 18	11 16	1 46	918 13	
6	9119 24	89 05	90 44	4905 75	-18 98	4883 44	0 00	0 00	4883 47	PBHL(2H)

WELL DETAILS #2H

Ground Elevation 3572 00
RKB Elevation WELL @ 3572 00ft (Original Well Elev)
Rig Name Original Well Elev

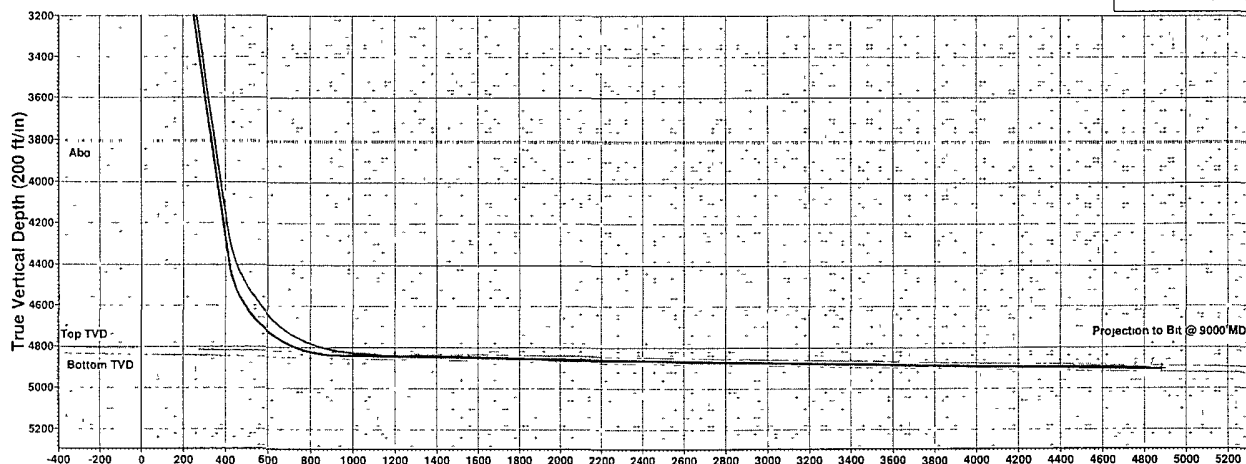
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0 00	0 00	697709 859	484983 100	32° 55' 4 383 N	104° 31' 1 134 W	

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

Plan Plan #4 (#2H/OH)

Created By Nate Bingham Date 9 04, December 03 2008

Checked _____ Date _____



Vertical Section at 90 22° (200 ft/in)

Yates Petroleum Corp.

Eddy County

Link "BKT" Federal Com

#2H

OH

Survey: MWD #1

Patfinder X & Y Survey Report

03 December, 2008

Pathfinder Energy Services

Pathfinder X & Y Survey Report

Company:	Yates Petroleum Corp	Local Co-ordinate Reference:	Well #2H
Project:	Eddy County	TVD Reference:	WELL @ 3572 00ft (Original Well Elev)
Site:	Link "BKT" Federal Com	MD Reference:	WELL @ 3572 00ft (Original Well Elev)
Well:	#2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003 16 Single User Db

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

Site		Link "BKT" Federal Com			
Site Position:		Northing:		Latitude:	
From:	Map		697,709 859 ft		32° 55' 4 383 N
Position Uncertainty:		Easting:		Longitude:	
	0 00 ft		484,983 100 ft		104° 31' 1 134 W
		Slot Radius:		Grid Convergence:	
			"		-0 10 °

Well:	#2H					
Well Position	+N/-S	0 00 ft	Northing:	697,709 859 ft	Latitude:	32° 55' 4 383 N
	+E/-W	0 00 ft	Easting:	484,983 100 ft	Longitude:	104° 31' 1 134 W
Position Uncertainty		0 00 ft	Wellhead Elevation:	ft	Ground Level:	3,572 00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	8/5/2008	8 40	60 74	49,236

Design:	OH			
Audit Notes:				
Version:	1 0	Phase:	ACTUAL	Tie On Depth: 0 00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0 00	0 00	0 00	90 22

Pathfinder Energy Services

Pathfinder X & Y Survey Report

Company:	Yates Petroleum Corp	Local Co-ordinate Reference:	Well #2H
Project:	Eddy County	TVD Reference:	WELL @ 3572 00ft (Original Well Elev)
Site:	Link "BKT" Federal Com	MD Reference:	WELL @ 3572 00ft (Original Well Elev)
Well:	#2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003 16 Single User Db

Survey Program	Date	12/3/2008			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100 00	1,100 00	GYRO (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s	
1,100 00	9,000 00	MWD #1 (OH)	MWD	MWD - Standard	

Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
1,100 00	0 55	355 88	1,099 91	-2,472 09	9 61	-1 87	-1 91	0 00	697,719 47	484,981 23	
1,298 00	6 07	98 59	1,297 55	-2,274 45	9 00	8 42	8 39	3 14	697,718 85	484,991 52	
1,330 00	6 07	106 61	1,329 37	-2,242 63	8 26	11 72	11 68	2 65	697,718 12	484,994 82	
1,362 00	5 89	107 11	1,361 19	-2,210 81	7 29	14 91	14 88	0 59	697,717 15	484,998 01	
1,393 00	5 80	104 32	1,392 03	-2,179 97	6 44	17 94	17 92	0 96	697,716 30	485,001 04	
1,425 00	5 89	104 06	1,423 86	-2,148 14	5 64	21 10	21 08	0 29	697,715 50	485,004 20	
1,457 00	6 51	105 79	1,455 68	-2,116 32	4 75	24 44	24 42	2 02	697,714 60	485,007 54	
1,489 00	7 21	104 07	1,487 45	-2,084 55	3 76	28 14	28 12	2 28	697,713 62	485,011 24	
1,520 00	7 30	104 22	1,518 20	-2,053 80	2 81	31 93	31 92	0 30	697,712 67	485,015 03	
1,552 00	7 21	104 59	1,549 94	-2,022 06	1 80	35 85	35 84	0 32	697,711 66	485,018 95	
1,583 00	7 47	97 56	1,580 69	-1,991 31	1 05	39 73	39 72	3 01	697,710 91	485,022 83	
1,615 00	7 83	90 75	1,612 41	-1,959 59	0 74	43 97	43 96	3 05	697,710 60	485,027 07	
1,647 00	7 65	90 35	1,644 11	-1,927 89	0 70	48 28	48 27	0 59	697,710 56	485,031 38	
1,678 00	7 74	90 08	1,674 84	-1,897 16	0 69	52 43	52 43	0 31	697,710 55	485,035 53	
1,709 00	7 56	89 67	1,705 56	-1,866 44	0 70	56 55	56 55	0 61	697,710 56	485,039 65	
1,741 00	7 39	91 58	1,737 29	-1,834 71	0 65	60 72	60 71	0 94	697,710 51	485,043 82	
1,773 00	7 39	91 27	1,769 02	-1,802 98	0 55	64 83	64 83	0 12	697,710 41	485,047 93	
1,805 00	7 74	89 21	1,800 74	-1,771 26	0 53	69 04	69 04	1 38	697,710 39	485,052 14	
1,836 00	8 18	87 59	1,831 44	-1,740 56	0 65	73 33	73 33	1 59	697,710 51	485,056 43	
1,868 00	7 83	88 05	1,863 13	-1,708 87	0 82	77 79	77 78	1 11	697,710 68	485,060 89	
1,900 00	7 47	88 17	1,894 85	-1,677 15	0 97	82 05	82 04	1 13	697,710 82	485,065 15	

Pathfinder Energy Services

Pathfinder X & Y Survey Report

Company:	Yates Petroleum Corp	Local Co-ordinate Reference:	Well #2H
Project:	Eddy County	TVD Reference:	WELL @ 3572.00ft (Original Well Elev)
Site:	Link "BKT" Federal Com	MD Reference:	WELL @ 3572.00ft (Original Well Elev)
Well:	#2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003 16 Single User Db

Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (%/100ft)	Northing (ft)	Easting (ft)
1.996 00	7 47	88 26	1,990 03	-1,581 97	1 35	94 52	94 51	0 01	697,711 21	485,077 62
2.091 00	7 91	90 18	2,084 18	-1,487 82	1 52	107 23	107 22	0 54	697,711 38	485,090 33
2.186 00	8 44	91 34	2,178 21	-1,393 79	1 34	120 74	120 73	0 58	697,711 20	485,103 84
2.281 00	8 00	92 18	2,272 24	-1,299 76	0 92	134 31	134 31	0 48	697,710 78	485,117 41
2.376 00	7 30	91 43	2,366 39	-1,205 61	0 52	146 95	146 95	0 74	697,710 38	485,130 05
2.472 00	7 65	88 41	2,461 58	-1,110 42	0 55	159 44	159 43	0 55	697,710 40	485,142 54
2.567 00	8 44	88 32	2,555 64	-1,016 36	0 93	172 73	172 72	0 83	697,710 78	485,155 83
2.662 00	8 27	87 26	2,649 63	-922 37	1 46	186 52	186 51	0 24	697,711 32	485,169 62
2.757 00	7 65	86 79	2,743 72	-828 28	2 14	199 66	199 65	0 66	697,712 00	485,182 76
2.853 00	8 35	87 08	2,838 78	-733 22	2 85	213 00	212 99	0 73	697,712 71	485,196 10
2.947 00	8 09	88 59	2,931 81	-640 19	3 36	226 43	226 41	0 36	697,713 22	485,209 53
3.043 00	7 74	87 61	3,026 90	-545 10	3 80	239 64	239 62	0 39	697,713 66	485,222 74
3.138 00	8 44	95 09	3,120 96	-451 04	3 44	252 98	252 96	1 33	697,713 30	485,236 08
3.234 00	7 74	95 20	3,216 00	-356 00	2 23	266 43	266 42	0 73	697,712 09	485,249 53
3.329 00	8 44	93 10	3,310 06	-261 94	1 28	279 76	279 76	0 80	697,711 14	485,262 86
3.424 00	8 00	91 84	3,404 08	-167 92	0 69	293.33	293 33	0 50	697,710 55	485,276 43
3.519 00	7 56	92 51	3,498 20	-73 80	0 20	306 18	306 18	0 47	697,710 06	485,289 28
3.614 00	8 35	91 89	3,592 29	20 29	-0 30	319 32	319 32	0 84	697,709 56	485,302 42
3.709 00	8 27	92 84	3,686 29	114 29	-0 87	333 04	333 04	0 17	697,708 99	485,316 14
3.805 00	7 91	92 31	3,781 34	209 34	-1 47	346 54	346 54	0 38	697,708 39	485,329 64
3.900 00	7 47	92 09	3,875 48	303 48	-1 96	359 24	359 24	0 46	697,707 90	485,342 34
3.995 00	8 35	93 06	3,969 58	397 58	-2 56	372 30	372 30	0 94	697,707 30	485,355 40
4.154 00	8 09	93 61	4,126 94	554 94	-3 88	394 99	395 00	0 17	697,705 98	485,378 09
4.240 00	9 41	88 77	4,211 94	639 94	-4 11	408 06	408 07	1 76	697,705 75	485,391 16
4.271 00	9 58	87 66	4,242 52	670 52	-3 95	413 17	413 18	0 81	697,705 91	485,396 27
4.302 00	10 29	87 90	4,273 05	701 05	-3 74	418 52	418 53	2 29	697,706 12	485,401 62
4.333 00	12 13	87 45	4,303 46	731 46	-3 49	424 54	424 55	5 94	697,706 37	485,407 64

Pathfinder Energy Services

Patfinder X & Y Survey Report

Company:	Yates Petroleum Corp	Local Co-ordinate Reference:	Well #2H:
Project:	Eddy County	TVD Reference:	WELL @ 3572'00ft (Original Well Elev)
Site:	Link "BKT" Federal Com	MD Reference:	WELL @ 3572'00ft (Original Well Elev)
Well:	#2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003 16:Single User Db

Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
4,364 00	14 25	88 37	4,333 64	761 64	-3 24	431 61	431 62	6 87	697,706 62	485,414 71
4,395 00	17 32	88 58	4,363 47	791 47	-3 02	440 03	440 04	9 90	697,706 84	485,423 13
4,426 00	20 14	87 37	4,392 82	820 82	-2 66	449 98	449 99	9 18	697,707 20	485,433 08
4,456 00	22 86	87 84	4,420 73	848 73	-2 20	460 97	460 97	9 08	697,707 66	485,444 07
4,487 00	25 15	88 50	4,449 05	877 05	-1 80	473 57	473 57	7 44	697,708 06	485,456 67
4,518 00	26 73	88 31	4,476 93	904 93	-1 42	487 12	487.13	5 10	697,708 44	485,470 22
4,549 00	29 28	87 59	4,504 29	932 29	-0 90	501 67	501 67	8 30	697,708 96	485,484 77
4,580 00	32 45	86 12	4,530 90	958 90	-0 02	517 55	517 54	10 51	697,709 84	485,500 65
4,611 00	34 91	85 83	4,556 69	984 69	1 19	534 69	534 68	7 95	697,711 05	485,517 79
4,642 00	35 70	86 44	4,581 99	1,009 99	2 40	552 57	552 55	2 79	697,712 26	485,535 67
4,673 00	37 02	87 08	4,606 96	1,034 96	3 43	570 92	570 90	4 43	697,713 29	485,554 02
4,704 00	38 87	87 27	4,631 40	1,059 40	4 37	589 95	589 93	5 98	697,714 23	485,573 05
4,735 00	41 86	87 39	4,655 02	1,083 02	5 31	610 01	609 98	9 65	697,715 17	485,593 11
4,765 00	45 55	87 05	4,676 70	1,104 70	6 31	630 71	630 68	12 32	697,716 17	485,613 81
4,797 00	49 51	86 37	4,698 31	1,126 31	7 67	654 27	654 23	12 47	697,717 53	485,637 37
4,827 00	53 82	87 06	4,716 91	1,144 91	9 02	677 76	677 72	14 48	697,718 88	485,660 86
4,858 00	56 98	88 87	4,734 51	1,162 51	9 92	703 25	703 21	11 27	697,719 77	485,686 35
4,889 00	60 50	90 50	4,750 60	1,178 60	10 05	729 75	729 70	12 21	697,719 91	485,712 85
4,920 00	64 28	91 39	4,764 96	1,192 96	9 60	757 21	757 16	12 46	697,719 46	485,740 31
4,951 00	67 88	91 43	4,777 53	1,205 53	8 90	785 53	785 49	11 61	697,718 76	485,768 63
4,983 00	70 35	91 13	4,788 94	1,216 94	8 23	815 42	815 38	7 77	697,718 09	485,798 52
5,015 00	72 63	90 33	4,799 09	1,227 09	7 85	845 76	845 72	7 51	697,717 71	485,828 86
5,046 00	76 15	89 14	4,807 43	1,235 43	7 99	875 61	875 57	11 94	697,717 85	485,858 71
5,078 00	78 79	88 59	4,814 38	1,242 38	8 61	906 84	906 80	8 42	697,718 47	485,889 94
5,110 00	80 46	87 97	4,820 14	1,248 14	9 55	938 30	938 26	5 56	697,719 41	485,921 40
5,141 00	80 64	87 79	4,825 23	1,253 23	10 68	968 86	968 81	0 82	697,720 54	485,951 96
5,173 00	83 27	87 38	4,829 71	1,257 71	12 02	1,000 51	1,000 46	8 32	697,721 88	485,983 61

Pathfinder Energy Services

Patfinder X & Y Survey Report

Company:	Yates Petroleum Corp	Local Co-ordinate Reference:	Well #2H
Project:	Eddy County	TVD Reference:	WELL @ 3572.00ft (Original Well Elev)
Site:	Link "BKT" Federal Com	MD Reference:	WELL @ 3572.00ft (Original Well Elev)
Well:	#2H	North Reference:	Grid
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Design:	OH	Database:	EDM 2003 16 Single User Db

Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
5,205.00	86.00	87.98	4,832.70	1,260.70	13.31	1,032.34	1,032.28	8.73	697,723.17	486,015.44	
5,237.00	86.35	88.33	4,834.83	1,262.83	14.34	1,064.25	1,064.19	1.55	697,724.20	486,047.35	
5,268.00	85.91	88.20	4,836.93	1,264.93	15.27	1,095.17	1,095.10	1.48	697,725.13	486,078.27	
5,300.00	85.82	87.90	4,839.23	1,267.23	16.36	1,127.07	1,127.00	0.98	697,726.22	486,110.17	
5,332.00	87.76	89.09	4,841.02	1,269.02	17.20	1,159.00	1,158.93	7.11	697,727.06	486,142.10	
5,427.00	91.01	91.02	4,842.04	1,270.04	17.11	1,253.98	1,253.91	3.98	697,726.97	486,237.08	
5,459.00	91.01	91.07	4,841.48	1,269.48	16.52	1,285.97	1,285.90	0.16	697,726.38	486,269.07	
5,529.00	88.46	91.00	4,841.80	1,269.80	15.26	1,355.95	1,355.88	3.64	697,725.12	486,339.05	
5,624.00	88.29	91.64	4,844.50	1,272.50	13.07	1,450.89	1,450.83	0.70	697,722.93	486,433.99	
5,719.00	88.11	91.91	4,847.48	1,275.48	10.13	1,545.80	1,545.75	0.34	697,719.99	486,528.90	
5,814.00	89.25	93.40	4,849.67	1,277.67	5.73	1,640.66	1,640.63	1.97	697,715.59	486,623.76	
5,941.00	88.02	91.32	4,852.70	1,280.70	0.50	1,767.51	1,767.50	1.90	697,710.36	486,750.61	
6,036.00	86.53	90.71	4,857.21	1,285.21	-1.18	1,862.39	1,862.38	1.69	697,708.68	486,845.49	
6,131.00	87.32	89.73	4,862.31	1,290.31	-1.54	1,957.25	1,957.24	1.32	697,708.32	486,940.35	
6,162.00	87.76	89.81	4,863.64	1,291.64	-1.42	1,988.22	1,988.21	1.44	697,708.44	486,971.32	
6,226.00	90.04	89.84	4,864.87	1,292.87	-1.22	2,052.20	2,052.19	3.56	697,708.64	487,035.30	
6,258.00	90.31	89.94	4,864.77	1,292.77	-1.16	2,084.20	2,084.19	0.90	697,708.70	487,067.30	
6,321.00	89.96	89.95	4,864.62	1,292.62	-1.10	2,147.20	2,147.19	0.56	697,708.76	487,130.30	
6,384.00	90.04	90.46	4,864.62	1,292.62	-1.33	2,210.20	2,210.19	0.82	697,708.53	487,193.30	
6,480.00	89.87	90.05	4,864.70	1,292.70	-1.75	2,306.20	2,306.19	0.46	697,708.11	487,289.30	
6,575.00	88.64	89.37	4,865.93	1,293.93	-1.27	2,401.19	2,401.17	1.48	697,708.59	487,384.29	
6,670.00	88.11	89.46	4,868.63	1,296.63	-0.30	2,496.14	2,496.13	0.57	697,709.56	487,479.24	
6,797.00	88.46	87.69	4,872.43	1,300.43	2.85	2,623.04	2,623.01	1.42	697,712.71	487,606.14	
6,892.00	91.10	88.26	4,872.79	1,300.79	6.21	2,717.97	2,717.93	2.84	697,716.07	487,701.07	
7,018.00	89.78	89.94	4,871.82	1,299.82	8.19	2,843.95	2,843.90	1.70	697,718.05	487,827.05	
7,114.00	88.90	89.86	4,872.93	1,300.93	8.36	2,939.94	2,939.89	0.92	697,718.22	487,923.04	
7,241.00	88.90	90.19	4,875.37	1,303.37	8.30	3,066.92	3,066.86	0.26	697,718.16	488,050.02	

Pathfinder Energy Services

Patfinder X & Y Survey Report

Company:	Yates Petroleum Corp	Local/Co-ordinate Reference:	Well #2H
Project:	Eddy County	TVD Reference:	WELL @ 3572 00ft (Original Well Elev)
Site:	Link "BKT" Federal Com	MD Reference:	WELL @ 3572 00ft (Original Well Elev)
Well:	#2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003 16 Single User Db

Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
7,368 00	87 67	89 75	4,879 17	1,307 17	8 37	3,193 86	3,193 80	1 03	697,718 23	488,176 96	
7,495 00	90 66	91 68	4,881 02	1,309 02	6 78	3,320 81	3,320 76	2 80	697,716 64	488,303 91	
7,622 00	89 52	90 96	4,880 82	1,308 82	3 86	3,447 78	3,447 74	1 06	697,713 72	488,430 88	
7,749 00	88 81	91 14	4,882 67	1,310 67	1 53	3,574 74	3,574 71	0 58	697,711 39	488,557 84	
7,875 00	88 11	90 19	4,886 06	1,314 06	0 07	3,700 68	3,700 66	0 94	697,709 93	488,683 78	
7,970 00	88 99	90 34	4,888 46	1,316 46	-0 37	3,795 65	3,795 63	0 94	697,709 49	488,778 75	
8,097 00	88 29	90 08	4,891 48	1,319 48	-0 84	3,922 61	3,922 59	0 59	697,709 02	488,905 71	
8,192 00	88 11	90 26	4,894 46	1,322 46	-1 12	4,017 57	4,017 54	0 27	697,708 74	489,000 67	
8,255 00	89 78	90 94	4,895 62	1,323 62	-1 78	4,080 55	4,080 53	2 86	697,708 08	489,063 65	
8,287 00	90 66	91 24	4,895 50	1,323 50	-2 39	4,112 54	4,112 52	2 91	697,707 47	489,095 64	
8,351 00	90 40	90 77	4,894 90	1,322 90	-3 51	4,176 53	4,176 51	0 84	697,706 35	489,159 63	
8,440 00	89 87	91 53	4,894 70	1,322 70	-5 30	4,265 51	4,265 50	1 04	697,704 56	489,248 61	
8,535 00	90 48	92 09	4,894 41	1,322 41	-8 30	4,360 46	4,360 46	0 87	697,701 56	489,343 56	
8,566 00	90 31	92 15	4,894 19	1,322 19	-9 44	4,391 44	4,391 45	0 58	697,700 42	489,374 54	
8,598 00	90 22	92 00	4,894 04	1,322 04	-10 60	4,423 42	4,423 43	0 55	697,699 26	489,406 52	
8,661 00	90 31	92 77	4,893 75	1,321 75	-13 22	4,486 36	4,486 38	1 23	697,696 64	489,469 46	
8,693 00	89 16	92 49	4,893 90	1,321 90	-14 69	4,518 33	4,518 35	3 70	697,695 17	489,501 43	
8,788 00	89 52	93 36	4,894 99	1,322 99	-19 54	4,613 20	4,613 24	0 99	697,690 32	489,596 30	
8,924 00	87 76	92 76	4,898 22	1,326 22	-26 80	4,748 96	4,749 03	1 37	697,683 06	489,732 06	
9,000 00	87 76	92 76	4,901 19	1,329 19	-30 45	4,824 81	4,824 90	0 00	697,679 41	489,807 91	
Projection to Bit @ 9000' MD											

Pathfinder Energy Services

Patfinder X & Y Survey Report

Company: Yates Petroleum Corp
Project: Eddy County
Site: Link "BKT" Federal Com
Well: #2H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #2H
TVD Reference: WELL @ 3572 00ft (Original Well Elev)
MD Reference: WELL @ 3572 00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003 16 Single User Db

Targets									
Target Name	-hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude Longitude
PBHL(2H)		0 00	0 00	4,906 00	-19 21	4,883 44	697,690 652	489,866 537	32° 55' 4 273 N 104° 30' 3 843 W
- survey misses by 59 89ft at 9000 00ft MD (4901 19 TVD, -30 45 N, 4824 81 E)									
- Point									

Survey Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
9,000 00	4,901 19	-30 45	4,824 81	Projection to Bit @ 9000'MD

Checked By _____ Approved By: _____ Date _____



DIRECTIONAL SURVEY REPORT

YATES PETROLEUM

LINK BKT FED COM #2H

EDDY COUNTY, NEW MEXICO

PREPARED BY: FRANCISCO SINISTERRA

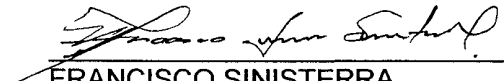
Pathfinder Energy Services, Inc.
6213 W. County Road 112 • Midland, TX • 79706
(432)681-6000

DIRECTIONAL SURVEY COMPANY REPORT

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) MATT SHIPP
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 11/13/08 TO 11/26/08
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: EDDY COUNTY, NM
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

YATES PETROLEUM
LINK BKT FED COM #2H
EDDY COUNTY, NM
RIG: JW #4
9. SURVEY CERTIFIED FROM: 1,298 TO 8,924 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 4,824.91 FEET ON A BEARING OF 90.36 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 9,000 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.


FRANCISCO SINISTERRA
M/LWD SERVICE COORDINATOR

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 11/08/2008
Date Completed: 11/26/2008

YATES PETROLEUM CORPORATION

LINK BKT FEDERAL COM #2H

EDDY COUNTY, NM

Rig:JW #4

PathFinder Office Supervisor: Francisco Sinisterra

PathFinder Field Engineers:Matt Shipp

Jeremy Alexander

Survey Horiz. Reference:WELLHEAD

Ref Coordinates: LAT:32.55.4.3829 N LON:104.31.1.1339 W

GRID Reference:NAD83 new mexico east Transverse Mercator

Ref GRID Coord: X: 484983.1000 Y: 697709.8590

North Aligned To:GRID NORTH

Total Magnetic Correction: 8.47° EAST TO GRID

Vertical Section Plane: 90.22

Survey Vert. Reference: 11.00' Kelly Bushing To Ground

Altitude:3572.00' Ground To MSL

Measured Depth	9000.00	(feet)
Inclination	87.76	(deg)
Azimuth	92.76	(deg)
True Vertical Depth	4901.19	(feet)
Vertical Section	4824.90	(feet)
Survey X cord	489807.92	(feet)
Survey Y cord	697679.40	(feet)
Survey Lat	32.91782253 N	(deg)
Survey Lon	104.50125838 W	(deg)
Rectangular Corr. N/S	30.46 S	(feet)
Rectangular Corr. E/W	4824.82 E	(feet)
Closure Distance	4824.91	(feet)
Direction of Closure	90.36	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION

LINK BKT FEDERAL COM #2H

EDDY COUNTY, NM

Rig:JW #4

PathFinder Office Supervisor: Francisco Sinisterra

PathFinder Field Engineers: Matt Shipp

Jeremy Alexander

Survey Horiz. Reference:WELLHEAD

Ref Coordinates: LAT:32.55.4.3829 N LON:104.31.1.1339 W

Reference:NAD83 new mexico east Transverse Mercator

Ref GRID Coord: X: 484983.1000 Y: 697709.8590

North Aligned To:GRID NORTH

Total Magnetic Correction: 8.47° EAST TO GRID

Vertical Section Plane: 90.22

Survey Vert. Reference: 11.00' Kelly Bushing To Ground

Altitude:3572.00' Ground To MSL

Survey Calculations by PathCalc v1.99 using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
TIE-IN PROVIDED BY SCIENTIFIC @ 1100'MD.										
1100.00	0.55	355.88	1099.91	0.00	-1.91	9.61 N	1.87 W	9.79@	348.99	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
1298.00	6.07	98.59	1297.54	198.00	8.39	8.99 N	8.42 E	12.32@	43.12	3.14
1330.00	6.07	106.61	1329.37	32.00	11.69	8.26 N	11.72 E	14.33@	54.83	2.65
1362.00	5.89	107.11	1361.19	32.00	14.88	7.29 N	14.91 E	16.60@	63.94	0.59
1393.00	5.80	104.32	1392.03	31.00	17.92	6.44 N	17.95 E	19.06@	70.27	0.96
1425.00	5.89	104.06	1423.86	32.00	21.08	5.64 N	21.11 E	21.84@	75.05	0.29
1457.00	6.51	105.79	1455.68	32.00	24.43	4.74 N	24.44 E	24.90@	79.02	2.02
1489.00	7.21	104.07	1487.45	32.00	28.12	3.76 N	28.14 E	28.39@	82.38	2.28
1520.00	7.30	104.22	1518.20	31.00	31.92	2.81 N	31.93 E	32.06@	84.98	0.30
1552.00	7.21	104.59	1549.94	32.00	35.84	1.80 N	35.85 E	35.89@	87.13	0.32
1583.00	7.47	97.56	1580.69	31.00	39.72	1.04 N	39.73 E	39.74@	88.49	3.01
1615.00	7.83	90.75	1612.41	32.00	43.97	0.74 N	43.97 E	43.98@	89.03	3.05
1647.00	7.65	90.35	1644.11	32.00	48.28	0.70 N	48.28 E	48.28@	89.17	0.59
1678.00	7.74	90.08	1674.83	31.00	52.43	0.69 N	52.43 E	52.43@	89.25	0.31
1709.00	7.56	89.67	1705.56	31.00	56.55	0.69 N	56.56 E	56.56@	89.30	0.61
1741.00	7.39	91.58	1737.29	32.00	60.72	0.65 N	60.72 E	60.72@	89.39	0.94
1773.00	7.39	91.27	1769.02	32.00	64.83	0.55 N	64.83 E	64.84@	89.52	0.12
1805.00	7.74	89.21	1800.74	32.00	69.04	0.53 N	69.05 E	69.05@	89.56	1.38
1836.00	8.18	87.59	1831.44	31.00	73.33	0.65 N	73.34 E	73.34@	89.49	1.59
1868.00	7.83	88.05	1863.13	32.00	77.79	0.82 N	77.79 E	77.79@	89.39	1.11
1900.00	7.47	88.17	1894.85	32.00	82.04	0.96 N	82.05 E	82.05@	89.33	1.13
1996.00	7.47	88.26	1990.03	96.00	94.52	1.35 N	94.52 E	94.53@	89.18	0.01

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION
LINK BKT FEDERAL COM #2H
EDDY COUNTY, NM
RIG:JW #4

Page 02/05

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
2091.00	7.91	90.18	2084.18	95.00	107.22	1.52 N	107.23 E	107.24@	89.19	0.54
2186.00	8.44	91.34	2178.21	95.00	120.73	1.34 N	120.74 E	120.74@	89.37	0.58
2281.00	8.00	92.18	2272.24	95.00	134.31	0.92 N	134.31 E	134.32@	89.61	0.48
2376.00	7.30	91.43	2366.39	95.00	146.95	0.52 N	146.95 E	146.95@	89.80	0.74
2472.00	7.65	88.41	2461.57	96.00	159.43	0.54 N	159.44 E	159.44@	89.80	0.55
2567.00	8.44	88.32	2555.64	95.00	172.72	0.92 N	172.73 E	172.73@	89.69	0.83
2662.00	8.27	87.26	2649.63	95.00	186.51	1.46 N	186.52 E	186.53@	89.55	0.24
2757.00	7.65	86.79	2743.71	95.00	199.65	2.14 N	199.66 E	199.67@	89.39	0.66
2853.00	8.35	87.08	2838.78	96.00	212.99	2.85 N	213.00 E	213.02@	89.23	0.73
2947.00	8.09	88.59	2931.81	94.00	226.41	3.36 N	226.43 E	226.45@	89.15	0.36
3043.00	7.74	87.61	3026.90	96.00	239.62	3.79 N	239.64 E	239.67@	89.09	0.39
3138.00	8.44	95.09	3120.96	95.00	252.96	3.44 N	252.98 E	253.00@	89.22	1.33
3234.00	7.74	95.20	3216.00	96.00	266.42	2.23 N	266.43 E	266.44@	89.52	0.73
3329.00	8.44	93.10	3310.05	95.00	279.76	1.28 N	279.77 E	279.77@	89.74	0.80
3424.00	8.00	91.84	3404.08	95.00	293.33	0.69 N	293.33 E	293.33@	89.87	0.50
3519.00	7.56	92.51	3498.20	95.00	306.18	0.20 N	306.18 E	306.18@	89.96	0.47
3614.00	8.35	91.89	3592.29	95.00	319.32	0.30 S	319.32 E	319.32@	90.05	0.84
3709.00	8.27	92.84	3686.29	95.00	333.04	0.87 S	333.04 E	333.04@	90.15	0.17
3805.00	7.91	92.31	3781.34	96.00	346.54	1.48 S	346.54 E	346.54@	90.24	0.38
3900.00	7.47	92.09	3875.48	95.00	359.24	1.96 S	359.24 E	359.24@	90.31	0.46
3995.00	8.35	93.06	3969.58	95.00	372.31	2.56 S	372.30 E	372.31@	90.39	0.94
4154.00	8.09	93.61	4126.94	159.00	395.01	3.88 S	394.99 E	395.01@	90.56	0.17
4240.00	9.41	88.77	4211.94	86.00	408.07	4.11 S	408.06 E	408.08@	90.58	1.76
4271.00	9.58	87.66	4242.52	31.00	413.19	3.95 S	413.17 E	413.19@	90.55	0.81
4302.00	10.29	87.90	4273.05	31.00	418.53	3.74 S	418.52 E	418.53@	90.51	2.29
4333.00	12.13	87.45	4303.46	31.00	424.55	3.50 S	424.54 E	424.55@	90.47	5.94
4364.00	14.25	88.37	4333.64	31.00	431.62	3.24 S	431.61 E	431.62@	90.43	6.87

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION
LINK BKT FEDERAL COM #2H
EDDY COUNTY, NM
RIG:JW #4

Page 03/05

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
4395.00	17.32	88.58	4363.47	31.00	440.04	3.02 S	440.04 E	440.05@	90.39	9.90
4426.00	20.14	87.37	4392.82	31.00	449.99	2.66 S	449.98 E	449.99@	90.34	9.18
4456.00	22.86	87.84	4420.73	30.00	460.97	2.20 S	460.97 E	460.97@	90.27	9.08
4487.00	25.15	88.50	4449.05	31.00	473.57	1.80 S	473.57 E	473.57@	90.22	7.44
4518.00	26.73	88.31	4476.92	31.00	487.13	1.43 S	487.13 E	487.13@	90.17	5.10
4549.00	29.28	87.59	4504.29	31.00	501.67	0.90 S	501.67 E	501.67@	90.10	8.30
4580.00	32.45	86.12	4530.90	31.00	517.54	0.02 S	517.55 E	517.55@	90.00	10.51
4611.00	34.91	85.83	4556.69	31.00	534.69	1.19 N	534.69 E	534.70@	89.87	7.95
4642.00	35.70	86.44	4581.99	31.00	552.56	2.40 N	552.57 E	552.57@	89.75	2.79
4673.00	37.02	87.08	4606.96	31.00	570.90	3.43 N	570.92 E	570.93@	89.66	4.43
4704.00	38.87	87.27	4631.40	31.00	589.93	4.37 N	589.96 E	589.97@	89.58	5.98
4735.00	41.86	87.39	4655.02	31.00	609.98	5.31 N	610.01 E	610.03@	89.50	9.65
4765.00	45.55	87.05	4676.70	30.00	630.68	6.31 N	630.71 E	630.74@	89.43	12.32
4797.00	49.51	86.37	4698.31	32.00	654.23	7.67 N	654.27 E	654.31@	89.33	12.47
4827.00	53.82	87.06	4716.91	30.00	677.72	9.02 N	677.76 E	677.82@	89.24	14.48
4858.00	56.98	88.87	4734.51	31.00	703.21	9.91 N	703.25 E	703.32@	89.19	11.27
4889.00	60.50	90.50	4750.60	31.00	729.70	10.05 N	729.75 E	729.82@	89.21	12.21
4920.00	64.28	91.39	4764.96	31.00	757.16	9.60 N	757.21 E	757.27@	89.27	12.46
4951.00	67.88	91.43	4777.53	31.00	785.49	8.90 N	785.53 E	785.58@	89.35	11.61
4983.00	70.35	91.13	4788.93	32.00	815.38	8.23 N	815.42 E	815.46@	89.42	7.77
5015.00	72.63	90.33	4799.09	32.00	845.72	7.85 N	845.76 E	845.80@	89.47	7.51
5046.00	76.15	89.14	4807.43	31.00	875.57	7.99 N	875.61 E	875.65@	89.48	11.94
5078.00	78.79	88.59	4814.38	32.00	906.80	8.61 N	906.84 E	906.88@	89.46	8.42
5110.00	80.46	87.97	4820.14	32.00	938.26	9.55 N	938.30 E	938.35@	89.42	5.56
5141.00	80.64	87.79	4825.23	31.00	968.81	10.68 N	968.86 E	968.92@	89.37	0.82
5173.00	83.27	87.38	4829.71	32.00	1000.46	12.02 N	1000.51 E	1000.58@	89.31	8.32
5205.00	86.00	87.98	4832.70	32.00	1032.28	13.31 N	1032.34 E	1032.43@	89.26	8.73

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION
LINK BKT FEDERAL COM #2H
EDDY COUNTY, NM
RIG:JW #4

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
5237.00	86.35	88.33	4834.83	32.00	1064.19	14.34 N	1064.26 E	1064.35@	89.23	1.55
5268.00	85.91	88.20	4836.92	31.00	1095.10	15.27 N	1095.17 E	1095.28@	89.20	1.48
5300.00	85.82	87.90	4839.23	32.00	1127.00	16.36 N	1127.07 E	1127.19@	89.17	0.98
5332.00	87.76	89.09	4841.02	32.00	1158.93	17.20 N	1159.01 E	1159.13@	89.15	7.11
5427.00	91.01	91.02	4842.04	95.00	1253.91	17.11 N	1253.98 E	1254.10@	89.22	3.98
5459.00	91.01	91.07	4841.48	32.00	1285.90	16.52 N	1285.97 E	1286.08@	89.26	0.16
5529.00	88.46	91.00	4841.80	70.00	1355.89	15.26 N	1355.95 E	1356.04@	89.36	3.64
5624.00	88.29	91.64	4844.50	95.00	1450.83	13.07 N	1450.89 E	1450.95@	89.48	0.70
5719.00	88.11	91.91	4847.48	95.00	1545.75	10.13 N	1545.80 E	1545.83@	89.62	0.34
5814.00	89.25	93.40	4849.67	95.00	1640.63	5.73 N	1640.67 E	1640.68@	89.80	1.97
5941.00	88.02	91.32	4852.70	127.00	1767.50	0.50 N	1767.51 E	1767.51@	89.98	1.90
6036.00	86.53	90.71	4857.21	95.00	1862.38	1.18 S	1862.39 E	1862.39@	90.04	1.69
6131.00	87.32	89.73	4862.31	95.00	1957.24	1.54 S	1957.25 E	1957.25@	90.05	1.32
6162.00	87.76	89.81	4863.64	31.00	1988.21	1.42 S	1988.22 E	1988.22@	90.04	1.44
6226.00	90.04	89.84	4864.87	64.00	2052.19	1.22 S	2052.20 E	2052.20@	90.03	3.56
6258.00	90.31	89.94	4864.77	32.00	2084.19	1.16 S	2084.20 E	2084.20@	90.03	0.90
6321.00	89.96	89.95	4864.62	63.00	2147.19	1.10 S	2147.20 E	2147.20@	90.03	0.56
6384.00	90.04	90.46	4864.62	63.00	2210.19	1.33 S	2210.20 E	2210.20@	90.03	0.82
6480.00	89.87	90.05	4864.70	96.00	2306.19	1.76 S	2306.20 E	2306.20@	90.04	0.46
6575.00	88.64	89.37	4865.93	95.00	2401.18	1.27 S	2401.19 E	2401.19@	90.03	1.48
6670.00	88.11	89.46	4868.63	95.00	2496.13	0.31 S	2496.15 E	2496.15@	90.01	0.57
6797.00	88.46	87.69	4872.43	127.00	2623.01	2.85 N	2623.04 E	2623.05@	89.94	1.42
6892.00	91.10	88.26	4872.79	95.00	2717.93	6.21 N	2717.98 E	2717.98@	89.87	2.84
7018.00	89.78	89.94	4871.82	126.00	2843.90	8.19 N	2843.95 E	2843.96@	89.84	1.70
7114.00	88.90	89.86	4872.93	96.00	2939.89	8.35 N	2939.94 E	2939.95@	89.84	0.92
7241.00	88.90	90.19	4875.37	127.00	3066.86	8.30 N	3066.92 E	3066.93@	89.84	0.26
7368.00	87.67	89.75	4879.17	127.00	3193.80	8.37 N	3193.86 E	3193.87@	89.85	1.03

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION
LINK BKT FEDERAL COM #2H
EDDY COUNTY, NM
RIG:JW #4

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
7495.00	90.66	91.68	4881.02	127.00	3320.76	6.78 N	3320.81 E	3320.82@	89.88	2.80
7622.00	89.52	90.96	4880.82	127.00	3447.74	3.85 N	3447.78 E	3447.78@	89.94	1.06
7749.00	88.81	91.14	4882.67	127.00	3574.71	1.53 N	3574.74 E	3574.74@	89.98	0.58
7875.00	88.11	90.19	4886.06	126.00	3700.66	0.07 N	3700.69 E	3700.69@	90.00	0.94
7970.00	88.99	90.34	4888.46	95.00	3795.63	0.37 S	3795.65 E	3795.65@	90.01	0.94
8097.00	88.29	90.08	4891.47	127.00	3922.59	0.84 S	3922.62 E	3922.62@	90.01	0.59
8192.00	88.11	90.26	4894.46	95.00	4017.54	1.12 S	4017.57 E	4017.57@	90.02	0.27
8255.00	89.78	90.94	4895.62	63.00	4080.53	1.78 S	4080.55 E	4080.55@	90.02	2.86
8287.00	90.66	91.24	4895.50	32.00	4112.52	2.39 S	4112.55 E	4112.55@	90.03	2.91
8351.00	90.40	90.77	4894.90	64.00	4176.51	3.51 S	4176.53 E	4176.53@	90.05	0.84
8440.00	89.87	91.53	4894.69	89.00	4265.50	5.30 S	4265.51 E	4265.52@	90.07	1.04
8535.00	90.48	92.09	4894.40	95.00	4360.46	8.30 S	4360.46 E	4360.47@	90.11	0.87
8566.00	90.31	92.15	4894.19	31.00	4391.45	9.44 S	4391.44 E	4391.45@	90.12	0.58
8598.00	90.22	92.00	4894.04	32.00	4423.43	10.60 S	4423.42 E	4423.43@	90.14	0.55
8661.00	90.31	92.77	4893.75	63.00	4486.38	13.23 S	4486.37 E	4486.38@	90.17	1.23
8693.00	89.16	92.49	4893.90	32.00	4518.35	14.69 S	4518.33 E	4518.35@	90.19	3.70
8788.00	89.52	93.36	4894.99	95.00	4613.24	19.54 S	4613.20 E	4613.24@	90.24	0.99
8924.00	87.76	92.76	4898.22	136.00	4749.03	26.80 S	4748.96 E	4749.04@	90.32	1.37
STRAIGHT-LINE PROJECTION TO BIT @ 9000'MD.										
9000.00	87.76	92.76	4901.19	76.00	4824.90	30.46 S	4824.82 E	4824.91@	90.36	0.00

PATHFINDER

ENERGY SERVICES

TIE-IN SURVEY INFORMATION SHEET

CLIENT INFORMATION

CLIENT:	Yates Petroleum		
LEASE / WELL No.:	Link BTK Fed Com	#2H	
WELL LOCATION:	Cottonwood Creek(Wolfcamp)		
COUNTY / STATE / COUNTRY:	Eddy	NM	USA
RIG:	JW #4		
API WELL No:	30-015-36374		
JOB No:	101008008-WT-WT		
P.O. / AFE No.			
DIRECTIONAL COMPANY:	PathFinder Energy Services		

WELL SITE INFORMATION

MAGNETIC DECLINATION:			
On Wall Plat:	8.4	LWD Calculated:	8.472287
		Agreed Upon:	8.47
X =	484983.100000	Feet	Y = 697709.859000
			Feet
SITE LATITUDE:	32.917884N	SITE LONGITUDE:	104.516982W
GRID SYSTEM:	TRUE ☐ UTM ☒ LAMBERT ☐	ZONE:	New Mexico East
PROPOSED DRIFT DIRECTION:	90.23		
KELLY BUSHING ELEVATION:	17'		
ALTITUDE:	3584.5	Feet	WATER DEPTH:
			Feet

TIE-IN SURVEY

MEASURED DEPTH:	1100		
DRIFT ANGLE:	0.55		
DRIFT DIRECTION:	355.88		
TRUE VERTICAL DEPTH:	1099.91		
VERTICAL SECTION:	-1.91		
RECTANGULAR COORDINATE (N / S) :	9.61		
RECTANGULAR COORDINATE (E / W) :	-1.87		
CLOSURE DISTANCE / DIRECTION:	67.81	341.95	
SURVEY CALCULATION METHOD:	AA ☐	MC ☒	RC ☐ BT ☐
SOURCE OF TIE-IN DATA (COMPANY):	Scientific Drilling Controls		
COPY OF TIE-IN SURVEY REPORT	☒ YES ☐ NO		

WELL PLAN

KICKOFF DEPTH:	1167	TOTAL DEPTH:	9119
KICKOFF ANGLE:	0.63	MAX ANGLE:	90

PES Engineers:

Mike Ship

**Signature of both field engineers required if applicable

Directional Driller:

Louise Lavelle

DATE: *11/12/08*

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

YATES PETROLEUM
LINK BKT FEDERAL COM #2H
EDDY COUNTY, TEXAS
Rig:JW4

Thu Oct 30 09:15:34 2008

Coordinates

Latitude: 32.917884 N (32 deg. 55 min. 4.3829 sec.)
Longitude: 104.516982 W (-104 deg. 31 min. 1.1339 sec.)
Elevation: 3584.50 feet.
Calculation Date: Oct/30/2008

Magnetic Calculations

Model: IGRF2005
Dip Angle: 60.7391 degrees
Total Magnetic Field: 0.49213 gauss
Magnetic Declination: 8.372485 degrees
Horizontal Intensity: 0.240548 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 8.372485 Degr.

Transverse Mercator Grid Calculations NAD83

Grid System: Transverse Mercator: new mexico east
Ellipsoid: GRS80
X: 484983.1000 feet
Y: 697709.8590 feet
True to Grid: (convergence) 0.099801 degrees
Magnetic to Grid: 8.472287 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 8.472287 Degr.