

Results of Directional Survey

API number:	30-025-39947		
OGRID:		Operator:	YATES PETROLEUM CORPORATION
		Property:	QUIJOTE BQJ STATE COM # 1H

surface	ULSTR:	O	02	T	26S	R	32E
				480	FSL	1650	FEL

BH Loc	ULSTR:	B	02	T	26S	R	32E
13428	MD	9138.1	TVD	4951	FSL	1832	FEL
				329	FNL		

Top Perf/OH	ULSTR:	O	02	T	26S	R	32E
9517	MD	9136.0	TVD	1043	FSL	1754	FEL

Bot Perf/OH	ULSTR:	B	02	T	26S	R	32E
13330	MD	9137.7	TVD	4853	FSL	1831	FEL
				427	FNL		

	MD	N/S	E/W	VD
	9511	556.84	-103.49	9136.02
TOP PERFS/OH	9517	562.82	-103.98	9136.04
	9574	619.62	-108.66	9136.26
	13259	4302.36	-179.59	9137.31
BOT PERFS/OH	13330	4373.34	-180.90	9137.69
	13353	4396.34	-181.32	9137.81

NEXT TO LAST	13374	4417.34	-181.66	9137.86
LAST READING	13428	4471.34	-182.36	9138.07
TD	13428	4471.34	-182.36	9138.07

Surface Location	480	FS	1650	FE
Projected BHL	4951	FS	1832	FE
Location of				
Top Perfs/OH	1043	FS	1754	FE
Bottom Perfs/OH	4853	FS	1831	FE

SUMMARY of Subsurface Locations

Surface Location	O-02-26S-32E	480	FS	1650	FE	Vert. Depth
Top Perfs/OH	O-02-26S-32E	1043	FS	1754	FE	9136.04
Bottom Perfs/OH	B-02-26S-32E	4853	FS	1831	FE	9137.69
Projected TD	B-02-26S-32E	4951	FS	1832	FE	9138.07

OPERATOR
WELL/LEASE
COUNTY

YATES PETROLEUM CORPORATION
QUIJOTE BQJ STATE COM # 1 H
LEA

HOBBS OCD

SEP 02 2011

STATE OF NEW MEXICO
DEVIATION REPORT

RECEIVED

253	0.13
500	1.08
700	2.05
856	2.46

SUR: O-2-26s-32e, 480/S & 1650/E
BHL: B-2-26s-32e, 4951/S & 1832/E
API # 30-025-39947

STATE OF TEXAS

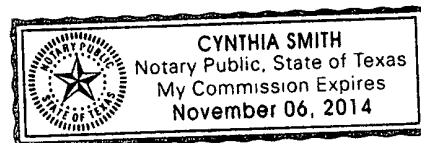
BY: *Linda Robinson*

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on
Robinson on behalf of Patterson-UTM Drilling Company LLC.

6/10/11, by Linda

Cynthia Smith
Notary Public for Midland County, Texas
My Commission Expires:



SUR: O-2-26s-32e, 480/S & 1650/E
 BHL: B-2-26s-32e, 4951/S & 1832/E
 API # 30-025-39947

HOBBS OCD

SEP 02 2011



Job Number: SVCO-110514
 Company: Yates Petroleum Corporation
 Lease/Well: QUIJOTE DQJ STATE COM 1H
 Location: Lea County, NM
 Rig Name: Patterson #36
 RKB: 20'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 7.26°
 Grid: East To Grid
 File name: F:\SURVEY\2011SU~1\YATES\QUIJOT1H.SVY
 Date/Time: 12-May-11 / 09:21
 Curve Name: Surface - 10220' M.D. (Gyroscopic)

RECEIVED

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method
 Vertical Section Plane 358.29
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
 Surface MD to 10,220' MD is, to the best of
 our knowledge a true and accurate account of
 the well bore.
 Dana Justice 5/16/11
 MS Energy Services Date

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
200.00	.25	350.03	200.00	.43	-.08	.43	.44	350.03	.12
400.00	.75	293.79	399.99	1.39	-1.35	1.43	1.94	315.81	.32
600.00	1.50	294.68	599.95	3.01	-4.93	3.15	5.77	301.42	.38
800.00	2.25	278.56	799.84	4.69	-11.19	5.02	12.13	292.73	.45
1000.00	1.25	245.42	999.75	4.36	-17.05	4.87	17.60	284.35	.69
1200.00	1.25	243.30	1199.71	2.48	-20.99	3.10	21.13	276.73	.02
1400.00	1.50	242.18	1399.65	.27	-25.25	1.03	25.25	270.62	.13
1600.00	1.50	245.06	1599.58	-2.05	-29.94	-1.16	30.01	266.08	.04
1800.00	1.75	249.93	1799.50	-4.20	-35.18	-3.15	35.43	263.19	.14

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	
2000.00	1.75	245.81	1999.41	-6.50	-40.83	-5.28	41.35	260.95	.06
2200.00	1.50	238.69	2199.33	-9.11	-45.86	-7.74	46.75	258.76	.16
2400.00	1.00	227.57	2399.28	-11.65	-49.38	-10.17	50.74	256.72	.28
2600.00	1.00	214.85	2599.25	-14.26	-51.67	-12.71	53.60	254.57	.11
2800.00	1.25	220.60	2799.21	-17.35	-54.08	-15.73	56.80	252.21	.14
3000.00	.75	223.36	2999.18	-19.96	-56.40	-18.27	59.83	250.51	.25
3200.00	.25	30.24	3199.17	-20.53	-57.08	-18.82	60.66	250.21	.50
3400.00	1.50	43.11	3399.15	-18.25	-55.07	-16.59	58.02	251.67	.63
3600.00	.75	16.00	3599.11	-15.08	-52.92	-13.49	55.03	254.10	.45
3800.00	1.00	2.76	3799.08	-12.07	-52.48	-10.50	53.85	257.04	.16
4000.00	1.00	32.76	3999.06	-8.86	-51.45	-7.32	52.21	260.22	.26
4200.00	1.50	79.89	4199.01	-6.94	-47.93	-5.50	48.43	261.76	.55
4400.00	1.75	97.16	4398.93	-6.86	-42.32	-5.59	42.87	260.80	.27
4600.00	.25	144.41	4598.90	-7.59	-39.04	-6.43	39.77	258.99	.80
4800.00	.25	114.54	4798.90	-8.13	-38.39	-6.98	39.24	258.04	.06
5000.00	.25	73.79	4998.89	-8.19	-37.57	-7.06	38.45	257.70	.09
5200.00	.25	73.05	5198.89	-7.94	-36.73	-6.84	37.58	257.80	.00
5400.00	.25	35.82	5398.89	-7.46	-36.06	-6.38	36.82	258.31	.08
5600.00	.25	115.08	5598.89	-7.29	-35.41	-6.23	36.15	258.37	.16
5800.00	.25	89.21	5798.89	-7.47	-34.58	-6.43	35.38	257.81	.06
6000.00	.25	112.34	5998.89	-7.63	-33.74	-6.62	34.59	257.26	.05
6200.00	.25	100.47	6198.88	-7.87	-32.91	-6.89	33.83	256.54	.03
6400.00	.25	168.73	6398.88	-8.38	-32.39	-7.41	33.46	255.49	.14
6600.00	.25	144.85	6598.88	-9.17	-32.05	-8.21	33.34	254.04	.05
6800.00	.75	150.98	6798.87	-10.67	-31.17	-9.73	32.94	251.11	.25
7000.00	.75	172.54	6998.86	-13.11	-30.36	-12.20	33.07	246.65	.14
7200.00	1.00	168.10	7198.83	-16.12	-29.83	-15.22	33.91	241.62	.13
7400.00	1.50	175.66	7398.78	-20.43	-29.28	-19.55	35.70	235.09	.26
7600.00	1.50	174.21	7598.71	-25.65	-28.81	-24.78	38.58	228.33	.02

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	
7800.00	1.50	173.77	7798.65	-30.85	-28.27	-30.00	41.84	222.49	.01
8000.00	1.50	178.72	7998.58	-36.07	-27.92	-35.22	45.62	217.74	.06
8200.00	1.75	182.28	8198.50	-41.74	-27.99	-40.89	50.26	213.84	.13
8400.00	1.50	177.84	8398.42	-47.41	-28.01	-46.55	55.06	210.57	.14
8600.00	1.50	175.40	8598.35	-52.63	-27.70	-51.78	59.48	207.76	.03
8800.00	1.00	176.90	8798.30	-56.99	-27.40	-56.14	63.23	205.68	.25
9000.00	.50	217.26	8998.28	-59.42	-27.83	-58.57	65.62	205.10	.35
9200.00	.75	291.62	9198.27	-59.64	-29.58	-58.73	66.57	206.38	.39
9400.00	.50	266.97	9398.26	-59.20	-31.66	-58.23	67.14	208.14	.18
9600.00	.75	232.33	9598.25	-60.05	-33.57	-59.02	68.79	209.21	.22
9800.00	.75	247.69	9798.23	-61.34	-35.82	-60.25	71.03	210.28	.10
10000.00	1.25	246.93	9998.20	-62.69	-39.04	-61.50	73.85	211.91	.25
10200.00	1.50	263.29	10198.15	-63.86	-43.64	-62.52	77.34	214.35	.23
Last Survey Depth Recorded									
10220.00	1.50	265.47	10218.14	-63.91	-44.16	-62.56	77.68	214.65	.29



HOBBS OCD

SEP 02 2011

RECEIVED

A Schlumberger Company

DIRECTIONAL SURVEY REPORT

YATES PETROLEUM

QUIJOTE BQJ STATE COM #1H

LEA COUNTY, NEW MEXICO

SUR: O-2-26s-32e, 480/S & 1650/E
BHL: B-2-26s-32e, 4951/S & 1832/E
API # 30-025-39947

PREPARED BY: FRANCISCO SINISTERRA

Pathfinder

6213 W Interstate 20
Midland, Texas 79706
Tel 432 687 1647
Fax 432 687 1544



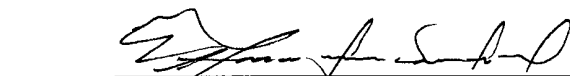
DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) BRYANT BLAKEMORE
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 05-16-11 TO 05-29-11
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: LEA COUNTY, NM
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

YATES PETROLEUM
QUIJOTE BQJ STATE COM #1H
LEA COUNTY, NM
RIG: PATTERSON 36

9. SURVEY CERTIFIED FROM: 8627 TO 13374 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE
DISPLACED AT 4475.05 FEET ON A BEARING OF 357.66 DEGREES FROM THE
CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 13428 FEET,
ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.


FRANCISCO SINISTERRA
MWD COORDINATOR

PathFinder Energy Services, Inc.

BHL Report

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Tie-in Date: 05/15/2011
Date Completed: 05/29/2011

YATES PETROLEUM CORPORATION

QUIJOTE BQJ STATE COM #1H

LEA COUNTY, NM

Rig:PATTERSON 36

PathFinder Office Supervisor: FRANCISCO SINISTERRA

PathFinder Field Engineers:BRYANT BLAKEMORE

RYAN MILLER

KIRK DAVIS

Survey Horiz. Reference:WELLHEAD

Ref Coordinates: LAT:32.3.58.7892 N LON:103.38.32.2922 W

GRID Reference:NAD83 new mexico east Transverse Mercator

Ref GRID Coord: X: 755396.4600 Y: 388553.8500

North Aligned To:GRID NORTH

Total Magnetic Correction: 7.25° EAST TO GRID

Vertical Section Plane: 357.68

Survey Vert. Reference: 21.60' Kelly Bushing To Ground

Altitude:3262.00' Ground To MSL

Measured Depth	13428.00	(feet)
Inclination	89.78	(deg)
Azimuth	359.25	(deg)
True Vertical Depth	9138.07	(feet)
Vertical Section	4475.05	(feet)
Survey X cord	755214.07	(feet)
Survey Y cord	393025.17	(feet)
Survey Lat	32.07862419 N	(deg)
Survey Lon	103.64279978 W	(deg)
Rectangular Corr. N/S	4471.34 N	(feet)
Rectangular Corr. E/W	182.36 W	(feet)
Closure Distance	4475.05	(feet)
Direction of Closure	357.66	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION

QUIJOTE BQJ STATE COM #1H

LEA COUNTY, NM

Rig:PATTERSON 36

PathFinder Office Supervisor: FRANCISCO SINISTERRA

PathFinder Field Engineers: BRYANT BLAKEMORE JAMES BURLESON

RYAN MILLER

KIRK DAVIS

Survey Calculations by RX5 V6.03E using Minimum Curvature

Survey Horiz. Reference:WELLHEAD

Ref Coordinates: LAT:32.3.58.7892 N LON:103.38.32.2922 W

GRID Reference:NAD83 new mexico east Transverse Mercator

Ref GRID Coord: X: 755396.4600 Y: 388553.8500

North Aligned To:GRID NORTH

Total Magnetic Correction: 7.25° EAST TO GRID

Vertical Section Plane: 357.68

Survey Vert. Reference: 21.60' Kelly Bushing To Ground

Altitude:3262.00' Ground To MSL

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 TO MS ENERGY GYRO SURVEY @ 8600' MD.										
8600.00	1.50	175.40	8598.35	0.00	-51.47	52.63 S	27.70 W	59.47@	207.76	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
8627.00	0.97	314.19	8625.35	27.00	-51.65	52.82 S	27.84 W	59.71@	207.79	8.59
8658.00	4.22	350.21	8656.31	31.00	-50.33	51.52 S	28.22 W	58.74@	208.71	11.23
8690.00	8.44	354.06	8688.11	32.00	-46.82	48.02 S	28.66 W	55.92@	210.83	13.25
8721.00	12.84	355.48	8718.57	31.00	-41.10	42.32 S	29.17 W	51.40@	214.58	14.22
8753.00	17.85	355.92	8749.42	32.00	-32.64	33.88 S	29.80 W	45.12@	221.33	15.66
8784.00	22.77	355.92	8778.48	31.00	-21.89	23.15 S	30.56 W	38.34@	232.86	15.87
8816.00	26.91	354.62	8807.52	32.00	-8.46	9.76 S	31.68 W	33.15@	252.89	13.05
8848.00	30.25	354.57	8835.61	32.00	6.82	5.48 N	33.13 W	33.58@	279.40	10.44
8879.00	33.24	354.55	8861.97	31.00	23.10	21.72 N	34.67 W	40.91@	302.06	9.65
8911.00	36.14	353.62	8888.28	32.00	41.28	39.83 N	36.55 W	54.06@	317.46	9.21
8942.00	39.04	353.43	8912.84	31.00	60.14	58.62 N	38.69 W	70.23@	326.58	9.36
8974.00	42.12	353.62	8937.14	32.00	80.90	79.30 N	41.03 W	89.29@	332.64	9.63
9006.00	44.85	352.88	8960.36	32.00	102.85	101.17 N	43.62 W	110.17@	336.67	8.68
9037.00	47.84	352.53	8981.76	31.00	125.19	123.41 N	46.47 W	131.87@	339.36	9.68
9069.00	51.35	351.93	9002.50	32.00	149.44	147.55 N	49.77 W	155.72@	341.36	11.06
9100.00	54.61	351.48	9021.16	31.00	174.06	172.04 N	53.34 W	180.12@	342.77	10.58
9132.00	57.86	350.80	9038.94	32.00	200.48	198.32 N	57.44 W	206.47@	343.85	10.31
9163.00	61.47	351.05	9054.60	31.00	227.05	224.73 N	61.66 W	233.04@	344.66	11.67
9195.00	64.54	351.18	9069.12	32.00	255.37	252.90 N	66.06 W	261.39@	345.36	9.60
9226.00	67.36	351.51	9081.75	31.00	283.50	280.89 N	70.32 W	289.56@	345.94	9.15
9258.00	70.00	350.89	9093.38	32.00	313.12	310.34 N	74.88 W	319.25@	346.43	8.45
9290.00	72.55	351.42	9103.66	32.00	343.23	340.29 N	79.54 W	349.46@	346.84	8.12
9321.00	75.27	352.23	9112.25	31.00	372.85	369.77 N	83.78 W	379.14@	347.23	9.13

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION
QUIJOTE BQJ STATE COM #1H
LEA COUNTY, NM
RIG:PATTERSON 36

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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)
9353.00	78.61	352.91	9119.48	32.00	403.90	400.67 N	87.81 W	410.18@ 347.64	10.64
9384.00	81.51	353.55	9124.83	31.00	434.34	430.99 N	91.40 W	440.58@ 348.03	9.57
9416.00	83.36	354.12	9129.04	32.00	465.99	462.53 N	94.81 W	472.14@ 348.42	6.04
9447.00	84.77	354.70	9132.25	31.00	496.77	493.21 N	97.81 W	502.82@ 348.78	4.91
9479.00	86.53	355.10	9134.67	32.00	528.64	524.99 N	100.65 W	534.55@ 349.15	5.64
9511.00	88.64	354.72	9136.02	32.00	560.57	556.84 N	103.49 W	566.37@ 349.47	6.70
9574.00	90.92	355.86	9136.26	63.00	623.51	619.62 N	108.66 W	629.07@ 350.05	4.05
9668.00	90.22	354.84	9135.33	94.00	717.43	713.30 N	116.28 W	722.72@ 350.74	1.32
9762.00	89.69	355.26	9135.40	94.00	811.33	806.95 N	124.39 W	816.48@ 351.24	0.72
9856.00	89.78	355.53	9135.84	94.00	905.25	900.65 N	131.94 W	910.26@ 351.67	0.30
9951.00	89.52	356.97	9136.42	95.00	1000.22	995.44 N	138.15 W	1004.98@ 352.10	1.54
10046.00	89.25	358.11	9137.44	95.00	1095.21	1090.34 N	142.23 W	1099.58@ 352.57	1.23
10140.00	88.90	357.93	9138.95	94.00	1189.19	1184.28 N	145.47 W	1193.18@ 353.00	0.42
10235.00	89.52	359.34	9140.26	95.00	1284.17	1279.24 N	147.74 W	1287.74@ 353.41	1.62
10329.00	91.80	359.96	9139.18	94.00	1378.10	1373.22 N	148.31 W	1381.21@ 353.84	2.51
10424.00	91.10	359.87	9136.78	95.00	1473.00	1468.19 N	148.45 W	1475.68@ 354.23	0.74
10519.00	91.01	0.40	9135.03	95.00	1567.89	1563.18 N	148.23 W	1570.19@ 354.58	0.57
10613.00	90.22	0.48	9134.02	94.00	1661.78	1657.17 N	147.51 W	1663.72@ 354.91	0.85
10708.00	90.22	0.31	9133.65	95.00	1756.67	1752.16 N	146.85 W	1758.31@ 355.21	0.18
10803.00	90.13	0.13	9133.36	95.00	1851.58	1847.16 N	146.49 W	1852.96@ 355.47	0.21
10898.00	90.22	0.40	9133.07	95.00	1946.48	1942.16 N	146.05 W	1947.64@ 355.70	0.30
10992.00	90.40	0.48	9132.57	94.00	2040.37	2036.16 N	145.33 W	2041.34@ 355.92	0.21
11088.00	90.48	0.40	9131.83	96.00	2136.26	2132.15 N	144.59 W	2137.05@ 356.12	0.12
11182.00	90.04	0.48	9131.40	94.00	2230.15	2226.15 N	143.87 W	2230.79@ 356.30	0.48
11277.00	90.22	0.40	9131.19	95.00	2325.03	2321.14 N	143.14 W	2325.55@ 356.47	0.21
11394.00	90.57	0.83	9130.38	117.00	2441.88	2438.13 N	141.88 W	2442.26@ 356.67	0.47
11464.00	90.66	358.99	9129.63	70.00	2511.82	2508.13 N	141.99 W	2512.14@ 356.76	2.63
11558.00	89.87	358.20	9129.19	94.00	2605.80	2602.10 N	144.30 W	2606.09@ 356.83	1.19

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION
QUIJOTE BQJ STATE COM #1H
LEA COUNTY, NM
RIG:PATTERSON 36

Page 03/03

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)
11653.00	89.16	358.29	9130.00	95.00	2700.80	2697.05 N	147.21 W	2701.06@	356.88	0.75
11746.00	89.96	359.52	9130.71	93.00	2793.77	2790.02 N	148.98 W	2794.00@	356.94	1.58
11841.00	89.52	359.25	9131.14	95.00	2888.73	2885.02 N	150.00 W	2888.91@	357.02	0.54
11935.00	88.55	358.90	9132.73	94.00	2982.68	2978.99 N	151.52 W	2982.84@	357.09	1.10
12030.00	89.78	359.69	9134.11	95.00	3077.63	3073.97 N	152.69 W	3077.76@	357.16	1.54
12060.98	90.04	359.60	9134.16	30.98	3108.59	3104.95 N	152.88 W	3108.71@	357.18	0.89
12125.00	89.78	359.43	9134.26	64.02	3172.58	3168.97 N	153.42 W	3172.68@	357.23	0.49
12219.00	89.43	0.31	9134.91	94.00	3266.51	3262.96 N	153.64 W	3266.58@	357.30	1.01
12313.00	88.37	0.13	9136.71	94.00	3360.40	3356.95 N	153.27 W	3360.44@	357.39	1.14
12408.00	89.34	1.01	9138.61	95.00	3455.26	3451.92 N	152.33 W	3455.28@	357.47	1.38
12503.00	90.92	358.99	9138.40	95.00	3550.17	3546.91 N	152.33 W	3550.18@	357.54	2.70
12597.00	90.40	358.02	9137.31	94.00	3644.15	3640.87 N	154.78 W	3644.16@	357.57	1.17
12690.00	89.87	358.20	9137.09	93.00	3737.15	3733.82 N	157.85 W	3737.16@	357.58	0.60
12785.00	90.40	357.23	9136.87	95.00	3832.15	3828.74 N	161.64 W	3832.15@	357.58	1.16
12879.00	90.22	357.14	9136.36	94.00	3926.14	3922.63 N	166.25 W	3926.15@	357.57	0.21
12974.00	90.04	357.49	9136.15	95.00	4021.14	4017.52 N	170.70 W	4021.15@	357.57	0.41
13069.00	89.78	357.41	9136.29	95.00	4116.14	4112.43 N	174.93 W	4116.15@	357.56	0.29
13164.00	89.78	358.99	9136.66	95.00	4211.13	4207.38 N	177.91 W	4211.14@	357.58	1.66
13259.00	89.43	358.99	9137.31	95.00	4306.11	4302.36 N	179.59 W	4306.11@	357.61	0.37
13353.00	89.96	358.90	9137.81	94.00	4400.08	4396.34 N	181.32 W	4400.08@	357.64	0.57
13374.00	89.78	359.25	9137.86	21.00	4421.07	4417.34 N	181.66 W	4421.07@	357.65	1.87
STRAIGHT LINE PROJECTION TO BIT @ 13428'MD.										
13428.00	89.78	359.25	9138.07	54.00	4475.05	4471.34 N	182.36 W	4475.05@	357.66	0.00



A Schlumberger Company

TIE-IN SURVEY INFORMATION SHEET

CLIENT INFORMATION

CLIENT:	YATES PETROLEUM CORPORATION		
LEASE / WELL No.:	QUIJOTE BQJ STATE COM	#1H	
WELL LOCATION:	LEA COUNTY		
COUNTY / STATE / COUNTRY:	LEA COUNTY	NEW MEXICO	USA
RIG:	PATTERSON # 36		
API WELL No:	30-025-39947		
JOB No:	700002286-WT-WT		
P.O. / AFE No.	10-339-0		
DIRECTIONAL COMPANY:	PATHFINDER ENERGY SERVICES		

WELL SITE INFORMATION

TOTAL MAGNETIC CORRECTION (TMC):			
On Wall Plat:	7.257962	LWD Calculated:	7.25662
Agreed Upon:	7.25		
X =	755396 460000	Feet	Y = 388553 850000
		Feet	
SITE LATITUDE:	32.066330 N	SITE LONGITUDE:	103.642303 W
GRID SYSTEM:	TRUE ☐ UTM ☒ LAMBERT ☐	ZONE:	NEW MEXICO EAST
PROPOSED DRIFT DIRECTION:	357.61		
KELLY BUSHING ELEVATION:	21.6'		
ALTITUDE:	3262	Feet	WATER DEPTH: N/A
		Feet	

TIE-IN SURVEY

MEASURED DEPTH:	8600		
DRIFT ANGLE:	1.5		
DRIFT DIRECTION:	175.4		
TRUE VERTICAL DEPTH:	8598.35		
VERTICAL SECTION:	-51.78		
RECTANGULAR COORDINATE (N / S) :	-52.63		
RECTANGULAR COORDINATE (E / W) :	-27.7		
CLOSURE DISTANCE / DIRECTION:	59.48	207.76	
SURVEY CALCULATION METHOD:	AA ☐	MC ☒	RC ☐ BT ☐
SOURCE OF TIE-IN DATA (COMPANY):	MS ENERGY		
COPY OF TIE-IN SURVEY REPORT	☒ YES		☐ NO

WELL PLAN

KICKOFF DEPTH:	8772	TOTAL DEPTH:	13585
KICKOFF ANGLE:	0°	MAX ANGLE:	90°

PES Engineers: BRYANT BLAKEMORE
RYAN MILLER

**Signature of both field engineers required if applicable

Directional Driller: PHILLIP GARRISON

DATE: 24-Apr-2011

MS ENERGY SERVICES
ODESSA, TEXAS

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

* **YATES PETROLEUM** *

JOB NUMBER: SVCO-110514

WELL NAME: QUIJOTE DQJ STATE COM. #1H

LOCATION: LEA COUNTY, NEW MEXICO

SURVEY DATE: MAY 12, 2011

SURVEY ENGINEER: S. SMITH

MAGNETIC DECLINATION: 07.26 GRID NORTH

GYRO REFERENCE BEARING: GRID NORTH

VERTICAL SECTION CALCULATED IN A
PROPOSAL DIRECTION OF: 358.29
SURF. ELEVATION: 20

***** DEPTH MEASURED IN FEET *****

***** THIS DIRECTIONAL SURVEY REPORT IS *****
***** CORRECT TO THE BEST OF MY KNOWLEDGE *****
***** AND IS SUPPORTED BY ACTUAL FIELD DATA! *****
COMMENTS: PATTERSON 36
RKB 20'
TBUSSELL@YATESPETROLEUM.COM**
MIKEL@YATESPETROLEUM.COM

***** COMPANY REPRESENTATIVE *****

MS ENERGY SERVICES
ODESSA, TEXAS

JOB NUMBER: SVCO-110514

WELL NAME: QUIJOTE DQJ STATE COM. #1H

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R PROP.	INCL	BEARING AZIMUTH	COORDINATES		D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
						LATITUDE	DEPARTURE				
0.0	0.00	0.00	0.000	00.00	000.00	0.00 N	0.00 E	0.00		0.00 AT	000.00
200.0	200.00	0.43	-0.063	00.25	350.03	0.43 N	0.08 W	0.13	0.25	0.44 AT	350.03
400.0	399.99	1.43	-1.307	00.75	293.79	1.39 N	1.35 W	0.32	0.65	1.94 AT	315.81
600.0	599.95	3.15	-4.833	01.50	294.68	3.01 N	4.93 W	0.38	0.75	5.77 AT	301.42
800.0	799.84	5.02	-11.041	02.25	278.56	4.69 N	11.19 W	0.45	0.91	12.13 AT	292.73
1000.0	999.75	4.87	-16.915	01.25	245.42	4.36 N	17.05 W	0.69	1.38	17.60 AT	284.35
1200.0	1199.71	3.10	-20.902	01.25	243.30	2.48 N	20.99 W	0.02	0.05	21.13 AT	276.73
1400.0	1399.65	1.03	-25.230	01.50	242.18	0.27 N	25.25 W	0.13	0.25	25.25 AT	270.62
1600.0	1599.58	-1.16	-29.986	01.50	245.06	2.05 S	29.94 W	0.04	0.08	30.01 AT	266.08
1800.0	1799.50	-3.15	-35.290	01.75	249.93	4.20 S	35.18 W	0.14	0.29	35.43 AT	263.19
2000.0	1999.41	-5.28	-41.010	01.75	245.81	6.50 S	40.83 W	0.06	0.13	41.35 AT	260.95
2200.0	2199.33	-7.74	-46.108	01.50	238.69	9.11 S	45.86 W	0.16	0.32	46.75 AT	258.76
2400.0	2399.28	-10.17	-49.707	01.00	227.57	11.65 S	49.38 W	0.28	0.55	50.74 AT	256.72
2600.0	2599.25	-12.71	-52.069	01.00	214.85	14.26 S	51.67 W	0.11	0.22	53.60 AT	254.57
2800.0	2799.21	-15.73	-54.577	01.25	220.60	17.35 S	54.08 W	0.14	0.27	56.80 AT	252.21
3000.0	2999.18	-18.27	-56.972	00.75	223.36	19.96 S	56.40 W	0.25	0.50	59.83 AT	250.51
3200.0	3199.17	-18.82	-57.668	00.25	030.24	20.53 S	57.08 W	0.50	1.00	60.66 AT	250.21
3400.0	3399.15	-16.59	-55.592	01.50	043.11	18.25 S	55.07 W	0.63	1.26	58.02 AT	251.67
3600.0	3599.11	-13.49	-53.348	00.75	016.00	15.08 S	52.92 W	0.45	0.90	55.03 AT	254.10
3800.0	3799.09	-10.50	-52.814	01.00	002.76	12.07 S	52.48 W	0.16	0.32	53.85 AT	257.04
4000.0	3999.06	-7.32	-51.690	01.00	032.76	8.86 S	51.45 W	0.26	0.52	52.21 AT	260.22
4200.0	4199.01	-5.50	-48.113	01.50	079.89	6.94 S	47.93 W	0.55	1.10	48.43 AT	261.76
4400.0	4398.93	-5.59	-42.506	01.75	097.16	6.86 S	42.32 W	0.27	0.55	42.87 AT	260.80
4600.0	4598.90	-6.43	-39.245	00.25	144.41	7.59 S	39.04 W	0.80	1.59	39.77 AT	258.99
4800.0	4798.90	-6.98	-38.611	00.25	114.54	8.13 S	38.39 W	0.06	0.13	39.24 AT	258.04
5000.0	4998.89	-7.06	-37.797	00.25	073.79	8.19 S	37.57 W	0.09	0.17	38.45 AT	257.70
5200.0	5198.89	-6.84	-36.953	00.25	073.05	7.94 S	36.73 W	0.00	0.00	37.58 AT	257.80
5400.0	5398.89	-6.38	-36.267	00.25	035.82	7.46 S	36.06 W	0.08	0.16	36.82 AT	258.31
5600.0	5598.89	-6.23	-35.611	00.25	115.08	7.29 S	35.41 W	0.16	0.32	36.15 AT	258.37
5800.0	5798.89	-6.43	-34.786	00.25	089.21	7.47 S	34.58 W	0.06	0.11	35.38 AT	257.81
6000.0	5998.89	-6.62	-33.951	00.25	112.34	7.63 S	33.74 W	0.05	0.10	34.59 AT	257.26
6200.0	6198.88	-6.89	-33.126	00.25	100.47	7.87 S	32.91 W	0.03	0.05	33.83 AT	256.54
6400.0	6398.88	-7.41	-32.627	00.25	168.73	8.38 S	32.39 W	0.14	0.28	33.46 AT	255.49
6600.0	6598.88	-8.21	-32.314	00.25	144.85	9.17 S	32.05 W	0.05	0.10	33.34 AT	254.04
6800.0	6798.87	-9.73	-31.473	00.75	150.98	10.67 S	31.17 W	0.25	0.50	32.94 AT	251.11
7000.0	6998.86	-12.20	-30.741	00.75	172.54	13.11 S	30.36 W	0.14	0.28	33.07 AT	246.65
7200.0	7198.83	-15.22	-30.301	01.00	168.10	16.12 S	29.83 W	0.13	0.26	33.91 AT	241.62
7400.0	7398.78	-19.55	-29.873	01.50	175.66	20.43 S	29.28 W	0.26	0.53	35.70 AT	235.09
7600.0	7598.72	-24.78	-29.566	01.50	174.21	25.65 S	28.81 W	0.02	0.04	38.58 AT	228.33
7800.0	7798.65	-30.00	-29.174	01.50	173.77	30.85 S	28.27 W	0.01	0.01	41.84 AT	222.49
8000.0	7998.58	-35.22	-28.987	01.50	178.72	36.07 S	27.92 W	0.06	0.13	45.62 AT	217.74
8200.0	8198.50	-40.89	-29.219	01.75	182.28	41.74 S	27.99 W	0.13	0.27	50.26 AT	213.84
8400.0	8398.42	-46.55	-29.411	01.50	177.84	47.41 S	28.01 W	0.14	0.28	55.06 AT	210.57
8600.0	8598.35	-51.78	-29.259	01.50	175.40	52.63 S	27.70 W	0.03	0.06	59.48 AT	207.76
8800.0	8798.30	-56.14	-29.084	01.00	176.90	56.99 S	27.40 W	0.25	0.50	63.23 AT	205.68
9000.0	8998.29	-58.57	-29.591	00.50	217.26	59.42 S	27.83 W	0.35	0.70	65.62 AT	205.10
9200.0	9198.28	-58.73	-31.341	00.75	291.62	59.64 S	29.58 W	0.39	0.78	66.57 AT	206.38
9400.0	9398.26	-58.23	-33.416	00.50	266.97	59.20 S	31.66 W	0.18	0.36	67.14 AT	208.14
9600.0	9598.25	-59.02	-35.348	00.75	232.33	60.05 S	33.57 W	0.22	0.44	68.79 AT	209.21
9800.0	9798.24	-60.25	-37.633	00.75	247.69	61.34 S	35.82 W	0.10	0.20	71.03 AT	210.28
10000.0	9998.20	-61.50	-40.889	01.25	246.93	62.69 S	39.04 W	0.25	0.50	73.85 AT	211.91
10200.0	10198.15	-62.52	-45.529	01.50	263.29	63.86 S	43.64 W	0.23	0.46	77.34 AT	214.35

MS ENERGY SERVICES
ODESSA, TEXAS

JOB NUMBER: SVCO-110514

WELL NAME: QUIJOTE DQJ STATE COM. #1H

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R PROP.	INCL	BEARING AZIMUTH	COORDINATES LATITUDE DEPARTURE		D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
10220.0	10218.14	-62.56	-46.051	01.50	265.47	63.91 S	44.16 W	0.29	0.06	77.68	AT 214.65

```

*****
*                                     *
*          THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF          *
*                                     *
*10220.00 FEET EQUALS      77.68      FEET AT  214.65          *
*                                     *
*****

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A Schlumberger Company **PathFinder Energy Services, Inc.**

Magnetic & Grid Calculations

YATES PETROLEUM CORPORATION
QUIJOTE BQJ STATE COM #1H
LEA COUNTY, NM
Rig:PATTERSON 36

Thu Apr 21 14:15:42 2011

Coordinates

Latitude: 32.066330 N (32 deg. 3 min. 58.7892 sec.)
Longitude: 103.642303 W (-103 deg. 38 min. 32.2922 sec.)
Elevation: 3283.60 feet.
Calculation Date: Apr/21/2011

Magnetic Calculations

Model: IGRF2010
Dip Angle: 60.0317 degrees
Total Magnetic Field: 0.48529 gauss
Magnetic Declination: 7.624843 degrees
Horizontal Intensity: 0.242413 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 7.624843 Degr

Transverse Mercator Grid Calculations NAD83

Grid System: Transverse Mercator: new mexico east
Ellipsoid: GRS80
X: 755396.4600 feet
Y: 388553.8500 feet
True to Grid: (convergence) -0.366881 degrees
Magnetic to Grid: 7.257962 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 7.257962 Degr.

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

Yates Petroleum Corporation
QUIJOTE BQJ STATE COM #1H
Bone Spring
Rig: PATTERSON #36

Field Calc

Wed Apr 27 17:15:59 2011

Coordinates

Latitude: 32.066330 N (32 deg. 3 min. 58.7880 sec.)
Longitude: 103.642303 W (-103 deg. 38 min. 32.2908 sec.)
Elevation: 3283.60 feet.
Calculation Date: Apr/27/2011

Magnetic Calculations

Model: IGRF2010
Dip Angle: 60.0313 degrees
Total Magnetic Field: 0.48528 gauss
Magnetic Declination: 7.622836 degrees
Horizontal Intensity: 0.242408 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 7.622836 Degr.

Transverse Mercator Grid Calculations NAD83

Grid System: Transverse Mercator: new mexico east
Ellipsoid: GRS80
X: 755396.5830 feet
Y: 388553.7310 feet
True to Grid: (convergence) -0.366881 degrees
Magnetic to Grid: 7.255955 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 7.255955 Degr.



A Schlumberger Company

HOBBS OCD

SEP 02 2011

RECEIVED

DIRECTIONAL SURVEY REPORT

YATES PETROLEUM

QUIJOTE BQJ STATE COM #1H - SHC

LEA COUNTY, NEW MEXICO

SUR: O-2-26s-32e, 480/S & 1650/E
BHL: B-2-26s-32e, 4951/S & 1832/E
API # 30-025-39947

PREPARED BY: FRANCISCO SINISTERRA

Pathfinder

6213 W Interstate 20
Midland, Texas 79706
Tel 432 687 1647
Fax 432 687 1544

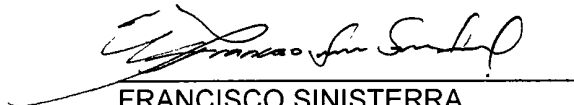


DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) BRYANT BLAKEMORE
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 05-16-11 TO 05-29-11
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: LEA COUNTY, NM
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

YATES PETROLEUM
QUIJOTE BQJ STATE COM #1H - SHC
LEA COUNTY, NM
RIG: PATTERSON 36
9. SURVEY CERTIFIED FROM: 857 TO 4722 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 50.47 FEET ON A BEARING OF 270.71 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 4782 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.


FRANCISCO SINISTERRA
MWD COORDINATOR

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 04/27/2011
Date Completed: 05/01/2011

Yates Petroleum Corporation
QUIJOTE BQJ STATE COM #1H
LEA COUNTY, NEW MEXICO
Rig:PATTERSON #36
PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers:CHARLIE SANDIFER

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.3.58.7880 N LON:103.38.32.2908 W
GRID Reference:NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 755396.5830 Y: 388553.7310
North Aligned To:GRID NORTH
Total Magnetic Correction: 7.26° EAST TO GRID
Vertical Section Plane: 357.61
Survey Vert. Reference: 21.60' Kelly Bushing To Ground
Altitude:3262.00' Ground To MSL

Measured Depth	4782.00	(feet)
Inclination	0.44	(deg)
Azimuth	188.49	(deg)
True Vertical Depth	4780.66	(feet)
Vertical Section	2.73	(feet)
Survey X cord	755345.99	(feet)
Survey Y cord	388554.48	(feet)
Survey Lat	32.06633294 N	(deg)
Survey Lon	103.64246630 W	(deg)
Rectangular Corr. N/S	0.63 N	(feet)
Rectangular Corr. E/W	50.47 W	(feet)
Closure Distance	50.47	(feet)
Direction of Closure	270.71	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

Yates Petroleum Corporation
QUIJOTE BQJ STATE COM #1H
LEA COUNTY, NEW MEXICO
Rig:PATTERSON #36
PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers: CHARLIE SANDIFER

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.3.58.7880 N LON:103.38.32.2908 W
GRID Reference:NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 755396.5830 Y: 388553.7310
North Aligned To:GRID NORTH
Total Magnetic Correction: 7.26° EAST TO GRID
Vertical Section Plane: 357.61
Survey Vert. Reference: 21.60' Kelly Bushing To Ground
Altitude:3262.00' Ground To MSL

Survey Calculations by RX5 V6.03E 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 ASSUMING VERTICAL DEPTH AT 757' MD.										
757.00	0.00	0.00	757.00	0.00	0.00	0.00	0.00	0.00@	0.00	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
857.00	2.46	292.47	856.74	857.00	7.73	7.03 N	17.00 W	18.39@	292.47	0.29
920.00	1.76	272.78	919.69	63.00	8.39	7.59 N	19.21 W	20.66@	291.57	1.58
1015.00	1.49	261.44	1014.66	95.00	8.39	7.48 N	21.89 W	23.14@	288.87	0.44
1110.00	1.32	249.31	1109.63	95.00	7.91	6.91 N	24.14 W	25.11@	285.98	0.36
1205.00	1.67	257.48	1204.60	95.00	7.32	6.22 N	26.51 W	27.23@	283.21	0.43
1301.00	1.58	261.53	1300.56	96.00	6.94	5.73 N	29.19 W	29.74@	281.10	0.15
1395.00	1.58	265.48	1394.52	94.00	6.75	5.43 N	31.76 W	32.22@	279.71	0.12
1491.00	1.49	265.22	1490.49	96.00	6.65	5.22 N	34.32 W	34.72@	278.65	0.09
1586.00	1.58	261.70	1585.45	95.00	6.46	4.93 N	36.85 W	37.18@	277.62	0.14
1682.00	1.76	270.93	1681.41	96.00	6.41	4.77 N	39.63 W	39.92@	276.86	0.34
1777.00	1.58	264.78	1776.37	95.00	6.43	4.67 N	42.40 W	42.65@	276.29	0.27
1872.00	1.76	263.55	1871.33	95.00	6.27	4.39 N	45.15 W	45.36@	275.55	0.19
1967.00	1.85	263.02	1966.28	95.00	6.04	4.04 N	48.12 W	48.29@	274.79	0.10
2062.00	1.93	267.24	2061.23	95.00	5.91	3.77 N	51.24 W	51.38@	274.21	0.17
2252.00	1.85	254.15	2251.13	190.00	5.17	2.78 N	57.39 W	57.46@	272.77	0.23
2442.00	0.88	232.17	2441.08	190.00	3.61	1.05 N	61.49 W	61.50@	270.98	0.57
2632.00	1.06	232.52	2631.05	190.00	1.76	0.92 S	64.04 W	64.05@	269.18	0.09
2822.00	1.41	247.99	2821.00	190.00	-0.04	2.86 S	67.60 W	67.66@	267.58	0.25
3013.00	0.70	239.99	3011.97	191.00	-1.37	4.32 S	70.79 W	70.92@	266.50	0.38
3204.00	0.26	77.92	3202.97	191.00	-1.84	4.82 S	71.38 W	71.54@	266.14	0.50
3394.00	2.02	63.77	3392.92	190.00	-0.41	3.25 S	67.95 W	68.03@	267.26	0.93
3584.00	0.97	29.23	3582.86	190.00	2.31	0.36 S	64.16 W	64.16@	269.68	0.71
3774.00	0.79	26.95	3772.84	190.00	4.82	2.21 N	62.78 W	62.82@	272.01	0.10

PathFinder Energy Services, Inc.

Survey Report

Yates Petroleum Corporation
QUIJOTE BQJ STATE COM #1H
LEA COUNTY, NEW MEXICO
RIG:PATTERSON #36

Page 02/02

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)
3965.00	1.32	32.05	3963.80	191.00	7.79	5.25 N	61.02 W	61.24@	274.91	0.28
4155.00	1.23	98.49	4153.76	190.00	9.21	6.80 N	57.84 W	58.24@	276.70	0.74
4345.00	1.58	127.14	4343.71	190.00	7.15	4.92 N	53.74 W	53.96@	275.23	0.41
4536.00	0.62	138.92	4534.67	191.00	4.67	2.55 N	50.96 W	51.02@	272.86	0.51
4722.00	0.44	188.49	4720.67	186.00	3.18	1.08 N	50.40 W	50.41@	271.23	0.25
STRAIGHT LINE PROJECTION TO BIT @ 4782' MD.										
4782.00	0.44	188.49	4780.66	60.00	2.73	0.63 N	50.47 W	50.47@	270.71	0.00



SHC

A Schlumberger Company

TIE-IN SURVEY INFORMATION SHEET**CLIENT INFORMATION**

CLIENT:	YATES PETROLEUM CORPORATION		
LEASE / WELL No.:	QUIJOTE BQJ STATE COM	#1H	
WELL LOCATION:	LEA COUNTY		
COUNTY / STATE / COUNTRY:	LEA COUNTY	NEW MEXICO	USA
RIG:	PATTERSON # 36		
API WELL No:	30-025-39947		
JOB No:	700002286-WT-WT		
P.O. / AFE No.	10-339-0		
DIRECTIONAL COMPANY:	PATHFINDER ENERGY SERVICES		

WELL SITE INFORMATION

TOTAL MAGNETIC CORRECTION (TMC):			
On Wall Plat:	7.257962	LWD Calculated:	7.25662
		Agreed Upon:	7.25662
X =	755396.460000	Feet	Y = 388553.850000
			Feet
SITE LATITUDE:	32.066330 N	SITE LONGITUDE:	103.642303 W
GRID SYSTEM:	TRUE ☐ UTM ☒ LAMBERT ☐	ZONE:	NEW MEXICO EAST
PROPOSED DRIFT DIRECTION:	357.61		
KELLY BUSHING ELEVATION:	21.6'		
ALTITUDE:	3262	Feet	WATER DEPTH:
			Feet

TIE-IN SURVEY

MEASURED DEPTH:	757		
DRIFT ANGLE:	0		
DRIFT DIRECTION:	0		
TRUE VERTICAL DEPTH:	757		
VERTICAL SECTION:	0		
RECTANGULAR COORDINATE (N / S) :	0		
RECTANGULAR COORDINATE (E / W) :	0		
CLOSURE DISTANCE / DIRECTION:			
SURVEY CALCULATION METHOD:	AA ☐	MC ☐	RC ☐ BT ☐
SOURCE OF TIE-IN DATA (COMPANY):			
COPY OF TIE-IN SURVEY REPORT	☐ YES		☒ NO

WELL PLAN

KICKOFF DEPTH:	8772	TOTAL DEPTH:	13585
KICKOFF ANGLE:	0°	MAX ANGLE:	90°

PES Engineers: CHARLIE SANDIFER

**Signature of both field engineers required if applicable

Directional Driller: PHILLIP GARRISONDATE: 24-Apr-2011



A Schlumberger Company **PathFinder Energy Services, Inc.**

Magnetic & Grid Calculations

YATES PETROLEUM CORPORATION
QUIJOTE BQJ STATE COM #1H
LEA COUNTY, NM
Rig:PATTERSON 36

Thu Apr 21 14:15:42 2011

Coordinates

Latitude: 32.066330 N (32 deg. 3 min. 58.7892 sec.)
Longitude: 103.642303 W (-103 deg. 38 min. 32.2922 sec.)
Elevation: 3283.60 feet.
Calculation Date: Apr/21/2011

Magnetic Calculations

Model: IGRF2010
Dip Angle: 60.0317 degrees
Total Magnetic Field: 0.48529 gauss
Magnetic Declination: 7.624843 degrees
Horizontal Intensity: 0.242413 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 7.624843 Degr

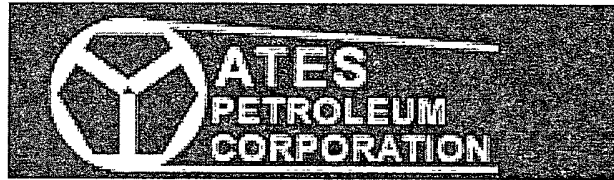
Transverse Mercator Grid Calculations NAD83

Grid System: Transverse Mercator: new mexico east
Ellipsoid: GRS80
X: 755396.4600 feet
Y: 388553.8500 feet
True to Grid: (convergence) -0.366881 degrees
Magnetic to Grid: 7.257962 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 7.257962 Degr.

HOBBS OCD

SEP 02 2011

RECEIVED



Yates Petroleum Corp.

Eddy County

Quijote "BQJ" State Com

#1H

OH

Design: OH

Pathfinder X&Y Report

31 May, 2011

SUR: O-2-26s-32e, 480/S & 1650/E
BHL: B-2-26s-32e, 4951/S & 1832/E
API # 30-025-39947

PATHFINDER

A Schlumberger Company



Pathfinder
Pathfinder X&Y Report

PATHFINDER
A Schlumberger Company

Company: Yates Petroleum Corp
Project: Eddy County
Site: Quijote "BQJ" State Com
Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #1H
TVD Reference: KB=21.5 @ 3283.50usft (Patterson #36)
MD Reference: KB=21.5 @ 3283.50usft (Patterson #36)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Project: Eddy County

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site: Quijote "BQJ" State Com

Site Position:		Northing:	388,553.850 usft	Latitude:	32° 3' 58 789 N
From:	Map	Easting:	755,396.460 usft	Longitude:	103° 38' 32 292 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.37 °

Well: #1H

Well Position	+N/-S	0.00 usft	Northing:	388,553.850 usft	Latitude:	32° 3' 58 789 N
	+E/-W	0.00 usft	Easting:	755,396.460 usft	Longitude:	103° 38' 32.292 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,262 00 usft

Wellbore: OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/21/2011	7.63	60.03	48,530

Design: OH

Audit Notes:

Version: 1 0 Phase: ACTUAL Tie On Depth: 0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0 00	0 00	357 68



Pathfinder
Pathfinder X&Y Report

PATHFINDER
A Schlumberger Company

Company: Yates Petroleum Corp.
Project: Eddy County
Site: Quijote "BQJ" State Com
Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #1H
TVD Reference: KB=21.5 @ 3283.50usft (Patterson #36)
MD Reference: KB=21.5 @ 3283.50usft (Patterson #36)
North Reference: Grd
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey Program Date 5/31/2011

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
200.00	8,600.00	Survey #1 - Gyro (OH)	CB-GYRO-MS	Camera based gyro multishot
8,627.00	13,428.00	Survey #2 - MWD (OH)	MWD	MWD - Standard

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northings (usft)	Easting (usft)
0.00	0.00	0.00	0.00	-3,283.50	0.00	0.00	0.00	0.00	388,553.85	755,396.46
200.00	0.25	350.03	200.00	-3,083.50	0.43	-0.08	0.43	0.12	388,554.28	755,396.38
400.00	0.75	293.79	399.99	-2,883.51	1.39	-1.35	1.44	0.32	388,555.24	755,395.11
600.00	1.50	294.68	599.95	-2,683.55	3.01	-4.93	3.21	0.38	388,556.86	755,391.53
800.00	2.25	278.56	799.84	-2,483.66	4.69	-11.19	5.13	0.45	388,558.54	755,385.27
1,000.00	1.25	245.42	999.75	-2,283.75	4.36	-17.05	5.05	0.69	388,558.21	755,379.41
1,200.00	1.25	243.30	1,199.71	-2,083.79	2.48	-20.99	3.32	0.02	388,556.33	755,375.47
1,400.00	1.50	242.18	1,399.65	-1,883.85	0.27	-25.25	1.30	0.13	388,554.12	755,371.21
1,600.00	1.50	245.06	1,599.58	-1,683.92	-2.05	-29.94	-0.84	0.04	388,551.80	755,366.52
1,800.00	1.75	249.93	1,799.50	-1,484.00	-4.20	-35.18	-2.78	0.14	388,549.65	755,361.28
2,000.00	1.75	245.81	1,999.41	-1,284.09	-6.50	-40.83	-4.84	0.06	388,547.35	755,355.63
2,200.00	1.50	238.69	2,199.33	-1,084.17	-9.11	-45.86	-7.25	0.16	388,544.74	755,350.60
2,400.00	1.00	227.57	2,399.28	-884.22	-11.65	-49.38	-9.64	0.28	388,542.20	755,347.08
2,600.00	1.00	214.85	2,599.25	-684.25	-14.26	-51.67	-12.16	0.11	388,539.59	755,344.79
2,800.00	1.25	220.60	2,799.21	-484.29	-17.35	-54.08	-15.15	0.14	388,536.50	755,342.38
3,000.00	0.75	223.36	2,999.18	-284.32	-19.96	-56.40	-17.66	0.25	388,533.89	755,340.06
3,200.00	0.25	30.24	3,199.17	-84.33	-20.53	-57.08	-18.21	0.50	388,533.32	755,339.38
3,400.00	1.50	43.11	3,399.15	115.65	-18.25	-55.07	-16.00	0.63	388,535.60	755,341.39
3,600.00	0.75	16.00	3,599.11	315.61	-15.08	-52.92	-12.92	0.45	388,538.77	755,343.54
3,800.00	1.00	2.76	3,799.08	515.58	-12.07	-52.48	-9.94	0.16	388,541.78	755,343.98
4,000.00	1.00	32.76	3,999.06	715.56	-8.86	-51.45	-6.77	0.26	388,544.99	755,345.01



Pathfinder
Pathfinder X&Y Report

PATHFINDER
A Schlumberger Company

Company: Yates Petroleum Corp.
Project: Eddy County
Site: Quijote "BQJ" State Com
Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #1H
TVD Reference: KB=21.5 @ 3283.50usft (Patterson #36)
MD Reference: KB=21.5 @ 3283.50usft (Patterson #36)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (*/100usft)	Northing (usft)	Easting (usft)
4,200.00	1 50	79 89	4,199.01	915.51	-6.94	-47.93	-4.99	0 55	388,546 91	755,348.53
4,400.00	1 75	97.16	4,398.93	1,115 43	-6.86	-42.32	-5.14	0.27	388,546 99	755,354 14
4,600.00	0.25	144.41	4,598.90	1,315.40	-7 59	-39.04	-6.01	0.80	388,546 26	755,357 42
4,800 00	0.25	114.54	4,798.90	1,515.40	-8 13	-38 39	-6.57	0 06	388,545 72	755,358.07
5,000.00	0.25	73 79	4,998.89	1,715.39	-8.19	-37 57	-6.66	0.09	388,545 66	755,358 89
5,200.00	0.25	73.05	5,198.89	1,915.39	-7.94	-36.73	-6.45	0.00	388,545.91	755,359.73
5,400 00	0.25	35.82	5,398.89	2,115.39	-7.46	-36.06	-5.99	0.08	388,546.39	755,360 40
5,600 00	0.25	115.08	5,598.89	2,315.39	-7.29	-35 41	-5.85	0 16	388,546.56	755,361 05
5,800.00	0.25	89.21	5,798.89	2,515.39	-7.47	-34.58	-6 06	0.06	388,546.38	755,361.88
6,000.00	0.25	112 34	5,998.89	2,715.39	-7.63	-33.74	-6.26	0.05	388,546 22	755,362 72
6,200 00	0.25	100.47	6,198.88	2,915.38	-7.87	-32.91	-6.54	0.03	388,545.98	755,363 55
6,400.00	0.25	168.73	6,398.88	3,115.38	-8.38	-32.39	-7.06	0.14	388,545.47	755,364 07
6,600.00	0.25	144.85	6,598.88	3,315 38	-9 17	-32.05	-7.86	0.05	388,544 68	755,364 41
6,800 00	0 75	150.98	6,798.87	3,515.37	-10.67	-31.17	-9.40	0.25	388,543 18	755,365.29
7,000 00	0 75	172.54	6,998.86	3,715 36	-13.11	-30.36	-11.87	0.14	388,540 74	755,366.10
7,200.00	1.00	168 10	7,198.83	3,915.33	-16.12	-29 83	-14.89	0.13	388,537 73	755,366.63
7,400 00	1 50	175.66	7,398.78	4,115.28	-20.43	-29.28	-19.23	0.26	388,533.42	755,367.18
7,600 00	1.50	174 21	7,598.71	4,315.21	-25.65	-28 81	-24.46	0.02	388,528.20	755,367 65
7,800.00	1.50	173 77	7,798 65	4,515.15	-30.85	-28.27	-29.68	0 01	388,523 00	755,368 19
8,000 00	1.50	178.72	7,998.58	4,715 08	-36.07	-27.92	-34 91	0.06	388,517 78	755,368 54
8,200 00	1.75	182.28	8,198.50	4,915.00	-41.74	-27.99	-40.58	0.13	388,512 11	755,368 47
8,400.00	1.50	177.84	8,398.42	5,114.92	-47.41	-28.01	-46.24	0 14	388,506.44	755,368 45
8,600.00	1.50	175 40	8,598.35	5,314 85	-52 63	-27 70	-51.47	0 03	388,501 22	755,368 76
8,627.00	0.97	314 19	8,625.35	5,341.85	-52.83	-27.84	-51 66	8.59	388,501 02	755,368 62
8,658.00	4.22	350 21	8,656.31	5,372.81	-51.52	-28.22	-50 34	11.23	388,502 33	755,368 24
8,690.00	8 44	354 06	8,688 11	5,404.61	-48.02	-28 66	-46.82	13.25	388,505 83	755,367 80
8,721 00	12.84	355 48	8,718 57	5,435 07	-42.32	-29.17	-41 11	14 22	388,511 53	755,367 29



Pathfinder
Pathfinder X&Y Report

PATHFINDER
A Schlumberger Company

Company: Yates Petroleum Corp.
Project: Eddy County
Site: Quijote "BQJ" State Com
Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #1H
TVD Reference: KB=21.5 @ 3283.50usft (Patterson #36)
MD Reference: KB=21.5 @ 3283.50usft (Patterson #36)
North Reference: Grd
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi.(azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
8,753.00	17.85	355.92	8,749.42	5,465.92	-33.88	-29.80	-32.65	15.66	388,519.97	755,366.66	
8,784.00	22.77	355.92	8,778.48	5,494.98	-23.15	-30.56	-21.90	15.87	388,530.70	755,365.90	
8,816.00	26.91	354.62	8,807.51	5,524.01	-9.76	-31.68	-8.47	13.05	388,544.09	755,364.78	
8,848.00	30.25	354.57	8,835.61	5,552.11	5.48	-33.13	6.82	10.44	388,559.33	755,363.33	
8,879.00	33.24	354.55	8,861.97	5,578.47	21.71	-34.67	23.10	9.65	388,575.56	755,361.79	
8,911.00	36.14	353.62	8,888.28	5,604.78	39.83	-36.55	41.27	9.21	388,593.68	755,359.91	
8,942.00	39.04	353.43	8,912.84	5,629.34	58.61	-38.69	60.13	9.36	388,612.46	755,357.77	
8,974.00	42.12	353.62	8,937.14	5,653.64	79.29	-41.03	80.89	9.63	388,633.14	755,355.43	
9,006.00	44.85	352.88	8,960.36	5,676.86	101.16	-43.62	102.84	8.68	388,655.01	755,352.84	
9,037.00	47.84	352.53	8,981.76	5,698.26	123.40	-46.47	125.19	9.68	388,677.25	755,349.99	
9,069.00	51.35	351.93	9,002.49	5,718.99	147.54	-49.77	149.44	11.06	388,701.39	755,346.69	
9,100.00	54.61	351.48	9,021.16	5,737.66	172.03	-53.34	174.05	10.58	388,725.88	755,343.12	
9,132.00	57.86	350.80	9,038.94	5,755.44	198.31	-57.44	200.48	10.31	388,752.16	755,339.02	
9,163.00	61.47	351.05	9,054.59	5,771.09	224.73	-61.66	227.04	11.67	388,778.58	755,334.80	
9,195.00	64.54	351.18	9,069.12	5,785.62	252.90	-66.06	255.37	9.60	388,806.75	755,330.40	
9,226.00	67.36	351.51	9,081.75	5,798.25	280.88	-70.32	283.50	9.15	388,834.73	755,326.14	
9,258.00	70.00	350.89	9,093.38	5,809.88	310.34	-74.88	313.11	8.45	388,864.19	755,321.58	
9,290.00	72.55	351.42	9,103.66	5,820.16	340.28	-79.54	343.22	8.12	388,894.13	755,316.92	
9,321.00	75.27	352.23	9,112.25	5,828.75	369.76	-83.78	372.85	9.13	388,923.61	755,312.68	
9,353.00	78.61	352.91	9,119.48	5,835.98	400.67	-87.81	403.89	10.64	388,954.52	755,308.65	
9,384.00	81.51	353.55	9,124.83	5,841.33	430.99	-91.40	434.33	9.57	388,984.84	755,305.06	
9,416.00	83.36	354.12	9,129.04	5,845.54	462.52	-94.81	465.98	6.04	389,016.37	755,301.65	
9,447.00	84.77	354.70	9,132.25	5,848.75	493.21	-97.81	496.76	4.91	389,047.06	755,298.65	
9,479.00	86.53	355.10	9,134.67	5,851.17	524.99	-100.65	528.63	5.64	389,078.84	755,295.81	
9,511.00	88.64	354.72	9,136.02	5,852.52	556.83	-103.49	560.57	6.70	389,110.68	755,292.97	
9,574.00	90.92	355.86	9,136.26	5,852.76	619.61	-108.66	623.51	4.05	389,173.46	755,287.80	
9,668.00	90.22	354.84	9,135.33	5,851.83	713.30	-116.28	717.42	1.32	389,267.15	755,280.18	



Pathfinder
Pathfinder X&Y Report

PATHFINDER
A Schlumberger Company

Company: Yates Petroleum Corp
Project: Eddy County
Site: Quijote "BQJ" State Com
Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #1H
TVD Reference: KB=21.5 @ 3283.50usft (Patterson #36)
MD Reference: KB=21.5 @ 3283.50usft (Patterson #36)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Dleg (°/100usft)	Northing (usft)	Easting (usft)
9,762.00	89.69	355.26	9,135.40	5,851.90	806.95	-124.39	811.32	0.72	389,360.80	755,272.07
9,856.00	89.78	355.53	9,135.84	5,852.34	900.64	-131.94	905.25	0.30	389,454.49	755,264.52
9,951.00	89.52	356.97	9,136.42	5,852.92	995.44	-138.15	1,000.21	1.54	389,549.29	755,258.31
10,046.00	89.25	358.11	9,137.44	5,853.94	1,090.34	-142.23	1,095.20	1.23	389,644.19	755,254.23
10,140.00	88.90	357.93	9,138.95	5,855.45	1,184.27	-145.47	1,189.19	0.42	389,738.12	755,250.99
10,235.00	89.52	359.34	9,140.26	5,856.76	1,279.23	-147.74	1,284.16	1.62	389,833.08	755,248.72
10,329.00	91.80	359.95	9,139.18	5,855.68	1,373.22	-148.32	1,378.10	2.51	389,927.07	755,248.14
10,424.00	91.10	359.87	9,136.78	5,853.28	1,468.19	-148.47	1,472.99	0.74	390,022.04	755,247.99
10,519.00	91.01	0.40	9,135.03	5,851.53	1,563.17	-148.24	1,567.89	0.57	390,117.02	755,248.22
10,613.00	90.22	0.48	9,134.02	5,850.52	1,657.16	-147.52	1,661.78	0.84	390,211.01	755,248.94
10,708.00	90.22	0.31	9,133.65	5,850.15	1,752.16	-146.87	1,756.67	0.18	390,306.01	755,249.59
10,803.00	90.13	0.13	9,133.36	5,849.86	1,847.16	-146.50	1,851.57	0.21	390,401.01	755,249.96
10,898.00	90.22	0.40	9,133.07	5,849.57	1,942.16	-146.06	1,946.48	0.30	390,496.01	755,250.40
10,992.00	90.40	0.48	9,132.56	5,849.06	2,036.15	-145.34	2,040.37	0.21	390,590.00	755,251.12
11,088.00	90.48	0.40	9,131.83	5,848.33	2,132.15	-144.60	2,136.25	0.12	390,686.00	755,251.86
11,182.00	90.04	0.48	9,131.40	5,847.90	2,226.14	-143.88	2,230.14	0.48	390,779.99	755,252.58
11,277.00	90.22	0.48	9,131.19	5,847.69	2,321.14	-143.09	2,325.03	0.19	390,874.99	755,253.37
11,394.00	90.57	0.83	9,130.38	5,846.88	2,438.13	-141.75	2,441.87	0.42	390,991.98	755,254.71
11,464.00	90.66	358.99	9,129.63	5,846.13	2,508.12	-141.86	2,511.81	2.63	391,061.97	755,254.60
11,558.00	89.87	358.20	9,129.19	5,845.69	2,602.09	-144.16	2,605.79	1.19	391,155.94	755,252.30
11,653.00	89.16	358.29	9,130.00	5,846.50	2,697.04	-147.07	2,700.78	0.75	391,250.89	755,249.39
11,746.00	89.96	359.52	9,130.71	5,847.21	2,790.02	-148.85	2,793.76	1.58	391,343.87	755,247.61
11,841.00	89.52	359.25	9,131.14	5,847.64	2,885.01	-149.87	2,888.71	0.54	391,438.86	755,246.59
11,935.00	88.55	358.90	9,132.73	5,849.23	2,978.99	-151.39	2,982.67	1.10	391,532.84	755,245.07
12,030.00	89.78	359.69	9,134.11	5,850.61	3,073.97	-152.56	3,077.62	1.54	391,627.82	755,243.90
12,060.00	90.04	359.60	9,134.16	5,850.66	3,103.96	-152.74	3,107.60	0.92	391,657.81	755,243.72
12,125.00	89.78	359.43	9,134.26	5,850.76	3,168.96	-153.29	3,172.57	0.48	391,722.81	755,243.17



Pathfinder Pathfinder X&Y Report

PATHFINDER
A Schlumberger Company

Company: Yates Petroleum Corp
Project: Eddy County
Site: Quijote "BQJ" State Com
Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #1H
TVD Reference: KB=21.5 @ 3283.50usft (Patterson #36)
MD Reference: KB=21.5 @ 3283.50usft (Patterson #36)
North Reference: Grd
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single-User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (%/100usft)	Northing (usft)	Easting (usft)	
12,219.00	89.43	0.31	9,134.91	5,851.41	3,262.96	-153.51	3,266.50	1.01	391,816.81	755,242.95	
12,313.00	88.37	0.13	9,136.71	5,853.21	3,356.94	-153.14	3,360.39	1.14	391,910.79	755,243.32	
12,408.00	89.34	1.01	9,138.61	5,855.11	3,451.91	-152.20	3,455.25	1.38	392,005.76	755,244.26	
12,503.00	90.92	358.99	9,138.39	5,854.89	3,546.91	-152.20	3,550.16	2.70	392,100.76	755,244.26	
12,597.00	90.40	358.02	9,137.31	5,853.81	3,640.87	-154.65	3,644.14	1.17	392,194.72	755,241.81	
12,690.00	89.87	358.20	9,137.09	5,853.59	3,733.81	-157.72	3,737.14	0.60	392,287.66	755,238.74	
12,785.00	90.40	357.23	9,136.87	5,853.37	3,828.74	-161.51	3,832.14	1.16	392,382.59	755,234.95	
12,879.00	90.22	357.14	9,136.36	5,852.86	3,922.62	-166.12	3,926.13	0.21	392,476.47	755,230.34	
12,974.00	90.04	357.49	9,136.14	5,852.64	4,017.52	-170.57	4,021.13	0.41	392,571.37	755,225.89	
13,069.00	89.78	357.41	9,136.29	5,852.79	4,112.42	-174.80	4,116.13	0.29	392,666.27	755,221.66	
13,164.00	89.78	358.99	9,136.66	5,853.16	4,207.37	-177.78	4,211.12	1.66	392,761.22	755,218.68	
13,259.00	89.43	358.99	9,137.31	5,853.81	4,302.36	-179.46	4,306.09	0.37	392,856.21	755,217.00	
13,353.00	89.96	358.90	9,137.81	5,854.31	4,396.34	-181.19	4,400.07	0.57	392,950.19	755,215.27	
13,374.00	89.78	359.25	9,137.86	5,854.36	4,417.34	-181.53	4,421.06	1.87	392,971.19	755,214.93	
13,428.00	89.78	359.25	9,138.07	5,854.57	4,471.33	-182.24	4,475.04	0.00	393,025.18	755,214.22	

Design Annotations

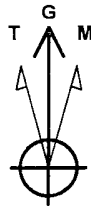
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,627.00	8,625.35	-52.83	-27.84	KOP - 8627.00'MD, 8625.35'TVD', -52.83'N, -27.84'E
9,574.00	9,136.26	619.61	-108.66	LP - 9574.00'MD, 9136.26'TVD', 619.61'N, -108.66'E
13,428.00	9,138.07	4,471.33	-182.24	BHL - 13428.00'MD, 9138.07'TVD', 4471.33'N, -182.24'E

Checked By: _____ Approved By: _____ Date: _____



ATES
PETROLEUM
CORPORATION

Project: Eddy County
Site: Quijote "BQJ" State C
Well: #1H
Wellbore: OH
Plan: Plan #4 (#1H/OH)



Azimuths to Grid North
True North: -0.37°
Magnetic North: 7.26°

Magnetic Field
Strength: 48529.5nT
Dip Angle: 60.03°
Date: 4/21/2011
Model: IGRF2010

PATHFINDER

A Schlumberger Company

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

SECTION DETAILS

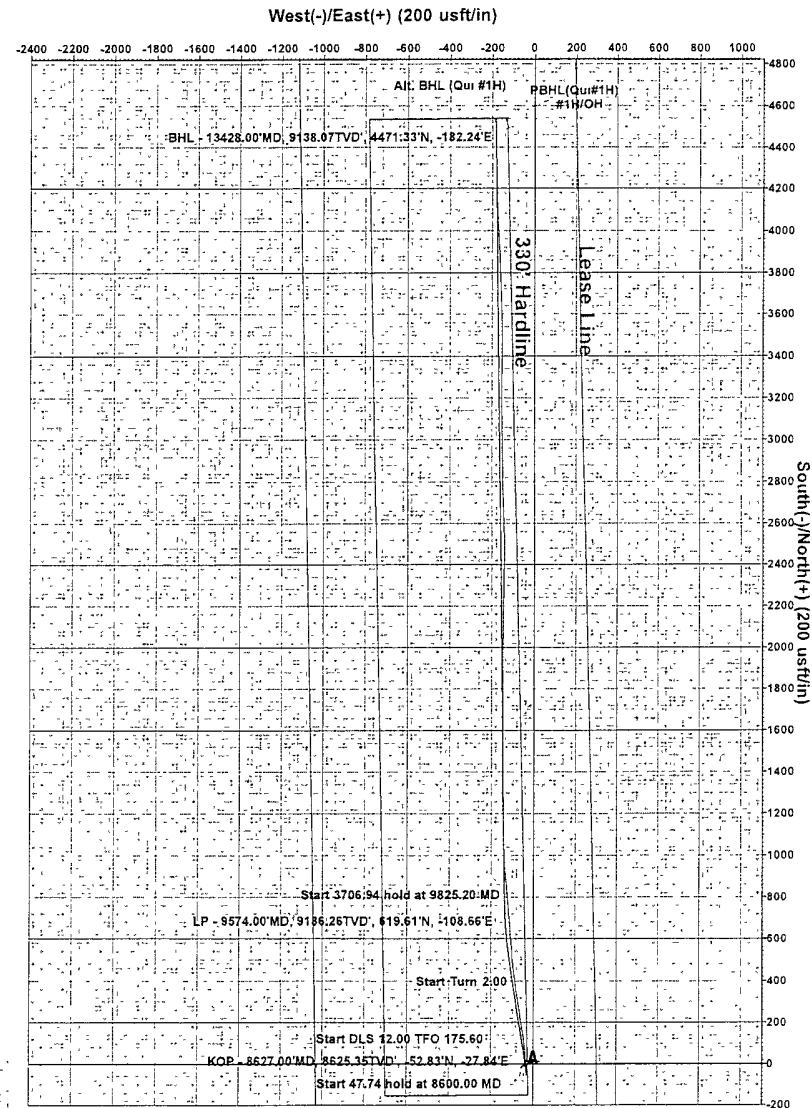
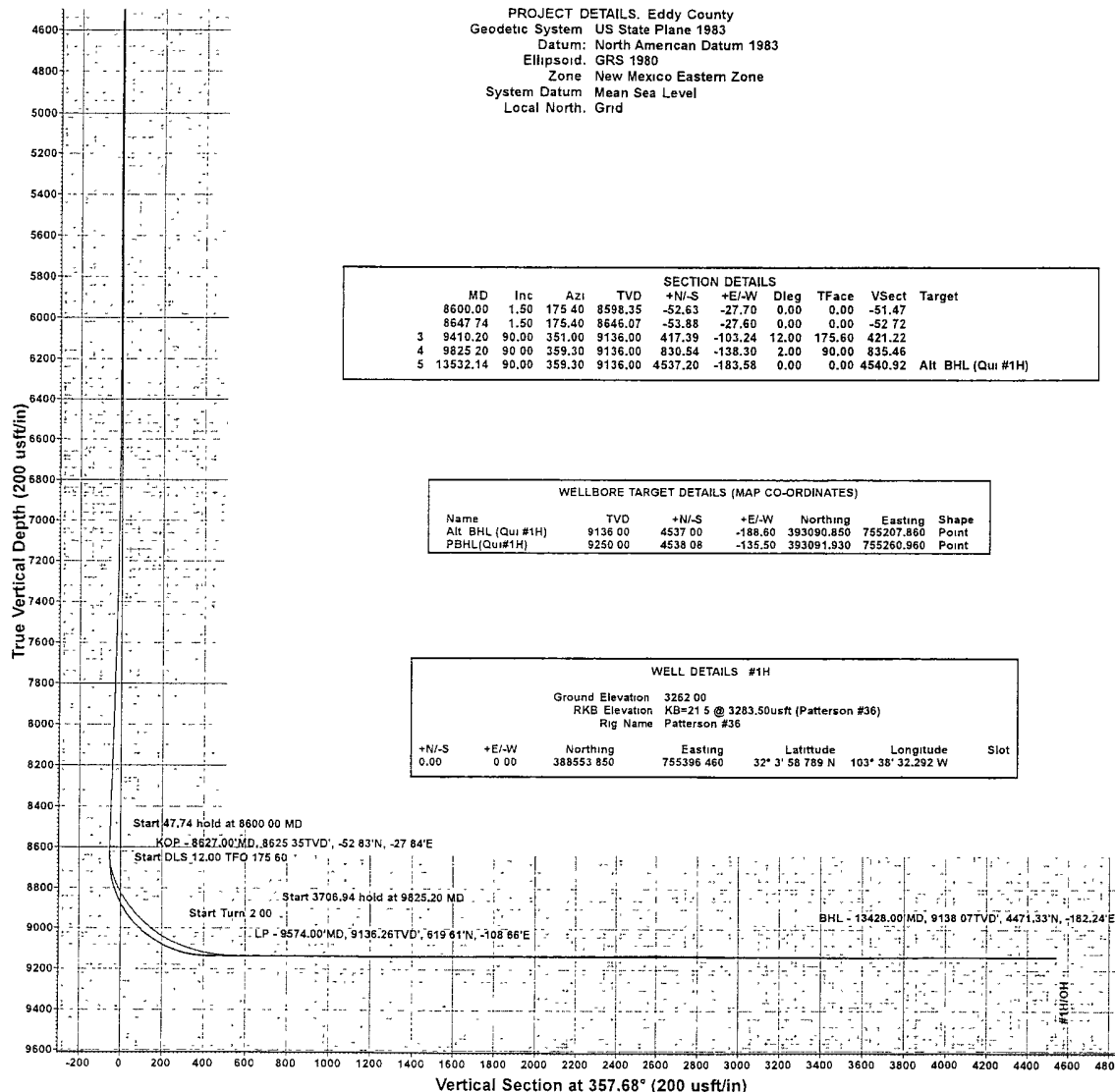
	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
	8600.00	1.50	175.40	8598.35	-52.63	-27.70	0.00	0.00	-51.47	
	8647.74	1.50	175.40	8646.07	-53.88	-27.60	0.00	0.00	-52.72	
3	9410.20	90.00	351.00	9136.00	417.39	-103.24	12.00	175.60	421.22	
4	9825.20	90.00	359.30	9136.00	830.54	-138.30	2.00	90.00	835.46	
5	13532.14	90.00	359.30	9136.00	4537.20	-183.58	0.00	0.00	4540.92	Alt BHL (Qui #1H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Alt BHL (Qui #1H)	9136.00	4537.00	-188.60	393090.850	755207.860	Point
PBHL (Qui #1H)	9250.00	4538.08	-135.50	393091.930	755260.960	Point

WELL DETAILS #1H

		Ground Elevation	3262.00			
		RKB Elevation	KB=21.5 @ 3283.50usft (Patterson #36)			
		Rig Name	Patterson #36			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	388553.850	755396.460	32° 3' 58.789 N	103° 38' 32.292 W	



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

Created By: Sherman Sholars Date: 10-43, May 31, 2011

Checked: _____ Date: _____