



An Operating Unit of Smith International, Inc.

30-015-37968

DIRECTIONAL SURVEY REPORT

YATES PETROLEUM

JUNIPER BIP FEDERAL #10H

EDDY COUNTY, NEW MEXICO

PREPARED BY: FRANCISCO SINISTERRA

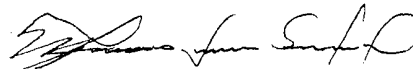
DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) JOHN PATTERSON
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 08-27-10 TO 09-29-10
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: EDDY COUNTY
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

YATES PETROLEUM
JUNIPER BIP FEDERAL #10H
EDDY COUNTY, NM
RIG: SILVEROAK #10

9. SURVEY CERTIFIED FROM: 95 TO 10586 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE
DISPLACED AT 4227.49 FEET ON A BEARING OF 94.53 DEGREES FROM THE
CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 10673 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: 08/27/2010
Date Completed: 09/19/2010

YATES PETROLEUM CORPORATION
JUNIPER BIP FED 10H
EDDY COUNTY
Rig:SILVER OAK #10
PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers:J PATTERSON
T LOVETTE
S BIFFLE

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.15.11.6094 N LON:103.59.44.8051 W
GRID Reference:NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 645686.9110 Y: 456020.5280
North Aligned To:GRID NORTH
Total Magnetic Correction: 7.70° EAST TO GRID
Vertical Section Plane: 94.33
Survey Vert. Reference: 18.00' Rotary Table To Ground
Altitude:3064.00' Ground To MSL

Measured Depth	10673.00	(feet)
Inclination	88.88	(deg)
Azimuth	93.06	(deg)
True Vertical Depth	6722.72	(feet)
Vertical Section	4227.47	(feet)
Survey X cord	649901.21	(feet)
Survey Y cord	455686.85	(feet)
Survey Lat	32.25227047 N	(deg)
Survey Lon	103.98215034 W	(deg)
Rectangular Corr. N/S	333.68 S	(feet)
Rectangular Corr. E/W	4214.30 E	(feet)
Closure Distance	4227.49	(feet)
Direction of Closure	94.53	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 08/27/2010
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YATES PETROLEUM CORPORATION
JUNIPER BIP FED #10H
EDDY COUNTY, NM
Rig:SILVER OAK #10
PathFinder Office Supervisor: FRANCISCO SINISTERRA
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Azimuth	93.06	(deg)
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Survey Y cord	455686.85	(feet)
Survey Lat	32.25227047 N	(deg)
Survey Lon	103.98215034 W	(deg)
Rectangular Corr. N/S	333.68 S	(feet)
Rectangular Corr. E/W	4214.30 E	(feet)
Closure Distance	4227.49	(feet)
Direction of Closure	94.53	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION

JUNIPER BIP FED #10H

EDDY COUNTY, NM

Rig: SILVER OAK #109

PathFinder Office Supervisor: FRANCISCO SINISTERRA

PathFinder Field Engineers: J PATTERSON

T LOVETTE

S BIFFLE

Survey Calculations by RX5 V6.03A using Minimum Curvature

Survey Horiz. Reference: WELLHEAD

Ref Coordinates: LAT: 32.15.11.6094 N LON: 103.59.44.8051 W

GRID Reference: NAD83 new mexico east Transverse Mercator

Ref GRID Coord: X: 645686.9110 Y: 456020.5280

North Aligned To: GRID NORTH

Total Magnetic Correction: 7.70° EAST TO GRID

Vertical Section Plane: 94.33

Survey Vert. Reference: 18.00' Rotary Table To Ground

Altitude: 3064.00' 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 SURFACE AT 0.0' MD.								
0.00	0.00	0.00	0.00	0.00	-0.00	0.00 0.00	0.00@ 0.00	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.								
95.00	0.35	335.15	95.00	95.00	-0.14	0.26 N 0.12 W	0.29@ 335.15	0.37
215.00	0.44	294.81	215.00	120.00	-0.75	0.79 N 0.69 W	1.05@ 318.66	0.24
399.00	1.23	307.36	398.98	184.00	-3.07	2.28 N 2.91 W	3.70@ 308.17	0.44
552.00	1.76	305.36	551.92	153.00	-6.46	4.64 N 6.13 W	7.69@ 307.14	0.35
703.00	0.44	131.89	702.90	151.00	-7.99	5.60 N 7.59 W	9.43@ 306.41	1.45
890.00	2.90	174.42	889.81	187.00	-6.60	0.41 N 6.59 W	6.60@ 273.53	1.39
1076.00	1.85	165.42	1075.65	186.00	-4.82	7.18 S 5.38 W	8.97@ 216.83	0.60
1169.00	1.06	108.34	1168.63	93.00	-3.50	8.91 S 4.18 W	9.84@ 205.16	1.67
1262.00	0.70	42.16	1261.62	93.00	-2.32	8.75 S 2.99 W	9.25@ 198.83	1.08
1356.00	1.76	353.68	1355.60	94.00	-2.23	6.89 S 2.76 W	7.43@ 201.81	1.49
1448.00	2.20	13.48	1447.54	92.00	-2.21	3.77 S 2.50 W	4.53@ 213.56	0.88
1541.00	1.67	24.86	1540.49	93.00	-1.45	0.81 S 1.52 W	1.72@ 241.98	0.70
1634.00	0.88	34.35	1633.46	93.00	-0.62	1.01 N 0.54 W	1.15@ 331.70	0.88
1728.00	0.88	60.30	1727.45	94.00	0.34	1.97 N 0.49 E	2.03@ 13.99	0.42
1820.00	1.41	66.16	1819.44	92.00	1.92	2.77 N 2.14 E	3.50@ 37.64	0.59
1913.00	1.49	79.42	1912.41	93.00	4.10	3.46 N 4.37 E	5.58@ 51.67	0.37
2006.00	1.93	84.41	2005.36	93.00	6.81	3.83 N 7.12 E	8.09@ 61.71	0.50
2099.00	1.41	88.34	2098.32	93.00	9.49	4.02 N 9.82 E	10.61@ 67.76	0.57
2193.00	1.32	126.46	2192.30	94.00	11.56	3.41 N 11.85 E	12.33@ 73.96	0.95
2287.00	2.73	122.38	2286.24	94.00	14.45	1.57 N 14.61 E	14.70@ 83.89	1.51
2380.00	3.69	100.95	2379.09	93.00	19.38	0.19 S 19.42 E	19.42@ 90.56	1.63
2474.00	3.87	96.66	2472.89	94.00	25.55	1.13 S 25.54 E	25.57@ 92.54	0.36
2569.00	4.04	92.87	2567.66	95.00	32.10	1.67 S 32.07 E	32.11@ 92.98	0.33

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION
JUNIPER BIP FED #10H
EDDY COUNTY, NM
RIG:SILVER OAK #10

Page 02/04

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)
2663.00	3.34	120.79	2661.48	94.00	37.86	3.24 S	37.73 E	37.87@	94.91	2.03
2757.00	2.73	173.83	2755.36	94.00	40.72	6.87 S	40.32 E	40.90@	99.67	2.94
2850.00	3.17	186.45	2848.24	93.00	41.03	11.62 S	40.27 E	41.91@	106.10	0.84
2969.00	2.81	196.76	2967.08	119.00	40.28	17.69 S	39.06 E	42.88@	114.36	0.54
3069.00	1.14	194.39	3067.01	100.00	39.58	21.00 S	38.11 E	43.51@	118.86	1.67
3196.00	1.32	263.47	3193.99	127.00	37.92	22.39 S	36.34 E	42.68@	121.64	1.10
3385.00	0.97	5.35	3382.97	189.00	35.81	21.04 S	34.32 E	40.26@	121.51	0.95
3576.00	0.79	116.48	3573.96	191.00	37.06	20.02 S	35.65 E	40.89@	119.31	0.76
3766.00	0.26	127.30	3763.95	190.00	38.64	20.86 S	37.17 E	42.62@	119.31	0.28
3956.00	0.53	78.79	3953.94	190.00	39.85	20.96 S	38.37 E	43.72@	118.64	0.21
4146.00	0.53	48.85	4143.94	190.00	41.31	20.21 S	39.90 E	44.72@	116.86	0.14
4337.00	0.26	106.07	4334.93	191.00	42.35	19.74 S	40.98 E	45.49@	115.73	0.23
4527.00	0.26	283.32	4524.93	190.00	42.35	19.76 S	40.97 E	45.49@	115.75	0.27
4717.00	0.53	271.12	4714.93	190.00	41.05	19.65 S	39.68 E	44.27@	116.35	0.15
4907.00	0.44	239.87	4904.92	190.00	39.57	20.00 S	38.17 E	43.09@	117.65	0.14
5097.00	0.44	336.61	5094.92	190.00	38.63	19.69 S	37.25 E	42.13@	117.87	0.35
5287.00	0.62	315.01	5284.91	190.00	37.51	18.30 S	36.23 E	40.59@	116.80	0.14
5477.00	0.79	221.79	5474.90	190.00	35.93	18.55 S	34.63 E	39.28@	118.17	0.54
5668.00	0.70	335.95	5665.89	191.00	34.58	18.46 S	33.28 E	38.06@	119.02	0.65
5858.00	0.70	307.82	5855.88	190.00	33.06	16.69 S	31.89 E	35.99@	117.63	0.18
6048.00	0.44	340.00	6045.87	190.00	31.79	15.29 S	30.72 E	34.32@	116.47	0.21
6115.00	0.53	270.37	6112.86	67.00	31.37	15.05 S	30.32 E	33.85@	116.40	0.83
6208.00	1.67	94.57	6205.85	93.00	32.30	15.16 S	31.24 E	34.73@	115.88	2.36
6240.00	4.66	90.90	6237.80	32.00	34.06	15.21 S	33.01 E	36.35@	114.75	9.36
6271.00	7.91	90.84	6268.61	31.00	37.45	15.26 S	36.40 E	39.47@	112.75	10.48
6302.00	10.99	90.49	6299.19	31.00	42.53	15.32 S	41.49 E	44.23@	110.27	9.94
6333.00	14.42	90.41	6329.42	31.00	49.33	15.37 S	48.31 E	50.69@	107.65	11.07
6365.00	17.67	91.02	6360.17	32.00	58.16	15.49 S	57.15 E	59.21@	105.16	10.17

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION
JUNIPER BIP FED #10H
EDDY COUNTY, NM
RIG:SILVER OAK #10

Page 03/04

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)
6396.00	21.28	92.14	6389.39	31.00	68.48	15.78 S	67.48 E	69.30@	103.16	11.71
6427.00	25.15	94.02	6417.88	31.00	80.69	16.46 S	79.68 E	81.36@	101.67	12.71
6458.00	29.19	95.94	6445.45	31.00	94.84	17.70 S	93.77 E	95.43@	100.69	13.33
6489.00	33.77	98.54	6471.89	31.00	111.00	19.76 S	109.82 E	111.58@	100.20	15.41
6520.00	38.08	100.59	6496.98	31.00	129.10	22.80 S	127.75 E	129.77@	100.12	14.43
6551.00	42.74	101.64	6520.58	31.00	149.05	26.68 S	147.46 E	149.85@	100.26	15.19
6583.00	46.96	101.43	6543.26	32.00	171.44	31.19 S	169.57 E	172.41@	100.42	13.20
6614.00	51.18	100.64	6563.57	31.00	194.69	35.67 S	192.55 E	195.82@	100.49	13.75
6645.00	55.31	99.50	6582.11	31.00	219.40	40.00 S	217.00 E	220.65@	100.45	13.64
6676.00	59.18	99.39	6598.88	31.00	245.36	44.28 S	242.71 E	246.72@	100.34	12.49
6707.00	62.96	99.40	6613.88	31.00	272.38	48.71 S	269.47 E	273.84@	100.25	12.19
6739.00	66.92	99.38	6627.43	32.00	301.25	53.44 S	298.07 E	302.82@	100.16	12.37
6770.00	71.14	99.60	6638.52	31.00	330.07	58.21 S	326.61 E	331.76@	100.11	13.63
6801.00	75.18	99.17	6647.50	31.00	359.62	63.05 S	355.88 E	361.42@	100.05	13.10
6832.00	78.70	98.46	6654.50	31.00	389.72	67.67 S	385.72 E	391.61@	99.95	11.57
6858.00	81.78	98.20	6658.91	26.00	415.28	71.38 S	411.07 E	417.22@	99.85	11.89
6889.00	84.68	97.67	6662.56	31.00	446.00	75.63 S	441.55 E	447.98@	99.72	9.51
6920.00	85.82	98.26	6665.13	31.00	476.83	79.91 S	472.15 E	478.86@	99.61	4.14
7014.00	87.23	97.79	6670.83	94.00	570.46	93.01 S	565.05 E	572.66@	99.35	1.58
7008.00	89.78	97.53	6673.28	94.00	664.26	105.54 S	658.17 E	666.58@	99.11	2.73
7202.00	89.87	97.76	6673.57	94.00	758.11	118.04 S	751.34 E	760.55@	98.93	0.26
7295.00	88.55	96.09	6674.85	93.00	851.00	129.25 S	843.64 E	853.49@	98.71	2.29
7389.00	87.05	93.78	6678.46	94.00	944.91	137.33 S	937.22 E	947.23@	98.34	2.93
7482.00	87.58	93.72	6682.82	93.00	1037.81	143.41 S	1029.92 E	1039.85@	97.93	0.57
7576.00	86.88	93.26	6687.36	94.00	1131.68	149.12 S	1123.63 E	1133.48@	97.56	0.89
7668.00	90.48	92.40	6689.48	92.00	1223.61	153.66 S	1215.48 E	1225.15@	97.21	4.02
7762.00	90.22	92.44	6688.90	94.00	1317.56	157.63 S	1309.39 E	1318.85@	96.86	0.28
7855.00	89.52	92.58	6689.11	93.00	1410.51	161.71 S	1402.30 E	1411.60@	96.58	0.77

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION
JUNIPER BIP FED #10H
EDDY COUNTY, NM
RIG: SILVER OAK #10

Page 04/04

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)
7949.00	88.29	92.43	6690.91	94.00	1504.44	165.81 S	1496.20 E	1505.36@	96.32	1.32
8042.00	87.76	92.13	6694.12	93.00	1597.33	169.51 S	1589.07 E	1598.08@	96.09	0.65
8134.00	88.55	91.84	6697.08	92.00	1689.20	172.70 S	1680.96 E	1689.81@	95.87	0.92
8227.00	89.25	92.61	6698.86	93.00	1782.12	176.31 S	1773.87 E	1782.61@	95.68	1.12
8320.00	89.60	93.04	6699.80	93.00	1875.08	180.89 S	1866.76 E	1875.50@	95.53	0.60
8413.00	89.60	93.30	6700.45	93.00	1968.06	186.03 S	1959.61 E	1968.42@	95.42	0.28
8506.00	88.81	93.73	6701.74	93.00	2061.04	191.73 S	2052.43 E	2061.36@	95.34	0.97
8600.00	89.52	93.37	6703.11	94.00	2155.02	197.55 S	2146.24 E	2155.31@	95.26	0.85
8693.00	89.34	93.91	6704.03	93.00	2248.01	203.46 S	2239.04 E	2248.27@	95.19	0.61
8786.00	89.69	94.61	6704.82	93.00	2341.01	210.36 S	2331.78 E	2341.25@	95.16	0.84
8880.00	91.19	95.19	6704.10	94.00	2435.00	218.39 S	2425.43 E	2435.25@	95.15	1.71
8998.00	90.48	95.30	6702.38	118.00	2552.97	229.18 S	2542.92 E	2553.23@	95.15	0.61
9091.00	89.52	94.67	6702.38	93.00	2645.96	237.26 S	2635.57 E	2646.23@	95.14	1.23
9185.00	88.72	94.99	6703.82	94.00	2739.95	245.17 S	2729.23 E	2740.22@	95.13	0.92
9278.00	88.90	94.49	6705.75	93.00	2832.92	252.86 S	2821.89 E	2833.19@	95.12	0.57
9372.00	88.81	94.00	6707.63	94.00	2926.91	259.81 S	2915.61 E	2927.16@	95.09	0.53
9465.00	89.08	92.90	6709.34	93.00	3019.88	265.41 S	3008.42 E	3020.11@	95.04	1.22
9559.00	89.60	92.15	6710.43	94.00	3113.82	269.55 S	3102.33 E	3114.01@	94.97	0.97
9652.00	89.25	92.61	6711.36	93.00	3206.76	273.41 S	3195.24 E	3206.92@	94.89	0.62
9745.00	89.78	92.78	6712.15	93.00	3299.72	277.78 S	3288.13 E	3299.85@	94.83	0.60
9838.00	89.25	93.41	6712.93	93.00	3392.70	282.81 S	3380.99 E	3392.80@	94.78	0.89
9932.00	90.48	93.56	6713.16	94.00	3486.68	288.52 S	3474.82 E	3486.78@	94.75	1.32
10026.00	90.56	93.84	6712.30	94.00	3580.67	294.59 S	3568.62 E	3580.76@	94.72	0.31
10119.00	89.96	93.39	6711.88	93.00	3673.67	300.45 S	3661.43 E	3673.74@	94.69	0.81
10213.00	89.16	93.95	6712.60	94.00	3767.66	306.47 S	3755.24 E	3767.72@	94.67	1.04
10305.00	89.34	93.92	6713.81	92.00	3859.65	312.78 S	3847.01 E	3859.70@	94.65	0.20
10399.00	88.11	93.18	6715.90	94.00	3953.61	318.60 S	3940.81 E	3953.66@	94.62	1.53
10493.00	88.37	93.28	6718.78	94.00	4047.55	323.89 S	4034.61 E	4047.59@	94.59	0.30

PathFinder Energy Services, Inc.

Survey Report

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EDDY COUNTY, NM
RIG:SILVER OAK #10

Page 05/04

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
10586.00	88.88	93.06	6721.02	93.00	4140.50	329.03 S	4127.44 E	4140.54@	94.56	0.60
STRAIGHT LINE PROJECTION TO BIT @ 10673' MD.										
10673.00	88.88	93.06	6722.72	87.00	4227.47	333.68 S	4214.30 E	4227.49@	94.53	0.00