

DIRECTIONAL SURVEY REPORT

YATES PETROLEUM ENERGY, LLC

JUNIPER BIP FEDERAL #9H

EDDY COUNTY, NM

PREPARED BY: PHIL LEBLANC



March 2, 2010

YATES PETROLEUM CORP.
Mr. Ray Podany
105 South 4th Street
Artesia, NM 88210

RE: YATES PETROLEUM CORP.
JUNIPER BIP FEDERAL #9H
EDDY COUNTY, NM
RIG: PATRIOT 5
API NO.: 30-015-37407
PES FILE NO.: 101009598-GC-WT

Dear Mr. Podany:

We hereby certify that the enclosed Original Field Survey Data contained in this report represents to the best of our knowledge, a true and accurate survey of the well at the time the survey was run.

DIRECTIONAL SURVEY DATA

- 1 – Original Directional Survey Report
- 1 – Directional Survey Report Copy

We appreciate the opportunity to work with you and we look forward to your business support. If you have any questions, I can be reached at (337) 233-3982.

Sincerely,

Phil LeBlanc
M/LWD Service Coordinator
PathFinder Energy Services

PL:sp

cc: Yates Petroleum/Mike Rose; 1 Directional Survey Report Copy



DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) MAGID IBRAHAM
B) MARK TRAHAN
C) JOHN OVERTON
3. POSITION OF SAID PERSON(S): (A-C) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 01/22/10 TO 02/07/10
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 CORPORATION
JUNIPER BIP FEDERAL #9H
EDDY COUNTY, NM
RIG: PATRIOT 5
API NO: 30-015-37407

9. SURVEY CERTIFIED FROM: 5,120 TO 12,043 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE
DISPLACED AT 4459.68 FEET ON A BEARING OF 82.66 DEGREES FROM THE
CENTER OF THE ROTARY TABLE AT PROJECTED BIT DEPTH OF 12,043 FEET,
ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



PHIL LEBLANC
M/LWD SERVICE COORDINATOR

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 01/22/2010
Date Completed: 02/07/2010

YATES PETROLEUM CORPORATION
JUNIPER "BIP" FEDERAL #9H
EDDY COUNTY, NEW MEXICO
Rig: PATRIOT 5
PathFinder Office Supervisor: PHIL LEBLANC
PathFinder Field Engineers: MAGID IBRAHIM
MARK TRAHAN
JOHN OVERTON

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.14.23.3140 N LON: 103.59.47.4291 W
GRID Reference: NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 645476.9000 Y: 451139.5000
North Aligned To: GRID NORTH
Total Magnetic Correction: 7.77° EAST TO GRID
Vertical Section Plane: 82.97
Survey Vert. Reference: 26.50' Rotary Table To Ground
Altitude: 2996.00' Ground To MSL

Measured Depth	12043.00	(feet)
Inclination	89.60	(deg)
Azimuth	84.57	(deg)
True Vertical Depth	7781.87	(feet)
Vertical Section	4459.62	(feet)
Survey X cord	643900.06	(feet)
Survey Y cord	451709.08	(feet)
Survey Lat	32.24133620 N	(deg)
Survey Lon	103.98219614 W	(deg)
Rectangular Corr. N/S	569.58 N	(feet)
Rectangular Corr. E/W	4423.16 E	(feet)
Closure Distance	4459.68	(feet)
Direction of Closure	82.66	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

Page 01/06
Tie-in Date: 01/22/2010
Date Completed: 02/07/2010

YATES PETROLEUM CORPORATION
JUNIPER "BIP" FEDERAL #9H
EDDY COUNTY, NEW MEXICO
Rig: PATRIOT 5
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Survey Calculations by RX5 V6.02B using Minimum Curvature

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.14.23.3140 N LON: 103.59.47.4291 W
GRID Reference: NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 645476.9000 Y: 451139.5000
North Aligned To: GRID NORTH
Total Magnetic Correction: 7.77° EAST TO GRID
Vertical Section Plane: 82.97
Survey Vert. Reference: 26.50' Rotary Table To Ground
Altitude: 2996.00' Ground To MSL

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL		Survey Latitude (deg)	Survey Longitude (deg)	Closure		DLS (dg/100ft)
						Rectangular	Offsets			Dist	Dir	
						(ft)	(ft)			(ft)	(deg)	
THE FOLLOWING ARE MS SURVEY GYROSCOPIC MULTI-SHOT SURVEYS.												
200.00	0.50	58.23	199.72	0.00	4.84	3.02 N	4.50 E	32.23981771 N	103.99649347 W	5.42@	56.18	0.00
400.00	0.50	334.28	399.71	200.00	5.35	4.26 N	4.87 E	32.23982113 N	103.99649228 W	6.47@	48.78	0.33
600.00	0.25	264.33	599.71	200.00	4.64	5.01 N	4.05 E	32.23982318 N	103.99649490 W	6.44@	39.00	0.24
800.00	0.50	278.38	799.70	200.00	3.36	5.09 N	2.76 E	32.23982342 N	103.99649910 W	5.79@	28.44	0.13
1000.00	0.50	273.44	999.70	200.00	1.66	5.27 N	1.02 E	32.23982393 N	103.99650471 W	5.37@	10.98	0.02
1200.00	1.00	355.49	1199.68	200.00	0.88	7.06 N	0.01 E	32.23982886 N	103.99650795 W	7.06@	0.12	0.53
1400.00	1.50	359.54	1399.63	200.00	1.25	11.42 N	0.14 W	32.23984084 N	103.99650842 W	11.42@	359.28	0.25
1600.00	1.50	318.60	1599.57	200.00	0.08	16.00 N	1.90 W	32.23985345 N	103.99651404 W	16.11@	353.24	0.52
1800.00	1.50	310.65	1799.50	200.00	-3.16	19.67 N	5.61 W	32.23986357 N	103.99652603 W	20.46@	344.07	0.10
2400.00	2.75	79.09	2399.28	600.00	5.91	27.51 N	2.57 E	32.23988506 N	103.99649949 W	27.63@	5.33	0.64
2600.00	1.75	94.16	2599.13	200.00	13.70	28.20 N	10.32 E	32.23988688 N	103.99647440 W	30.03@	20.10	0.58
2800.00	0.75	144.22	2799.08	200.00	17.32	26.92 N	14.13 E	32.23988332 N	103.99646208 W	30.40@	27.70	0.70
3000.00	0.50	157.27	2999.07	200.00	18.19	25.05 N	15.24 E	32.23987817 N	103.99645854 W	29.32@	31.31	0.14
3200.00	0.50	177.32	3199.06	200.00	18.36	23.37 N	15.51 E	32.23987356 N	103.99645733 W	28.11@	33.74	0.09
3400.00	0.50	170.42	3399.05	200.00	18.33	21.64 N	15.80 E	32.23986880 N	103.99645675 W	26.79@	36.13	0.03
3600.00	0.75	186.48	3599.04	200.00	18.06	19.48 N	15.80 E	32.23986286 N	103.99645678 W	25.08@	39.04	0.15
3800.00	1.00	181.56	3799.02	200.00	17.50	16.43 N	15.60 E	32.23985449 N	103.99645744 W	22.66@	43.51	0.13
4000.00	1.00	207.66	3998.99	200.00	16.24	13.14 N	14.74 E	32.23984545 N	103.99646025 W	19.75@	48.28	0.23
4200.00	0.75	210.77	4198.97	200.00	14.45	10.47 N	13.26 E	32.23983812 N	103.99646506 W	16.90@	51.71	0.13
4400.00	0.75	208.88	4398.95	200.00	12.88	8.20 N	11.96 E	32.23983189 N	103.99646929 W	14.51@	55.56	0.01
4600.00	0.75	215.99	4598.93	200.00	11.22	6.00 N	10.56 E	32.23982584 N	103.99647385 W	12.15@	60.41	0.05
4800.00	1.00	218.10	4798.91	200.00	9.09	3.57 N	8.72 E	32.23981917 N	103.99647984 W	9.42@	67.75	0.13
5000.00	1.00	206.32	4998.88	200.00	6.89	0.63 N	6.86 E	32.23981111 N	103.99648586 W	6.89@	84.78	0.10

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION
JUNIPER "BIP" FEDERAL #9H
EDDY COUNTY, NEW MEXICO
RIG: PATRIOT 5

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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)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
** TIED INTO MS SURVEY GYROSCOPIC MULTI-SHOT SURVEYS AT 5120' MD.												
5120.00	1.00	195.54	5118.86	120.00	5.91	1.32 S	6.12 E	32.23980577 N	103.99648829 W	6.26@	102.17	0.16
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.												
5167.00	1.14	201.63	5165.85	47.00	5.53	2.15 S	5.84 E	32.23980349 N	103.99648921 W	6.22@	110.22	0.38
5261.00	0.44	240.76	5259.84	94.00	4.75	3.20 S	5.18 E	32.23980062 N	103.99649135 W	6.08@	121.68	0.90
5355.00	0.35	273.94	5353.84	94.00	4.13	3.35 S	4.58 E	32.23980020 N	103.99649330 W	5.67@	126.22	0.26
5449.00	1.06	340.31	5447.83	94.00	3.66	2.51 S	4.00 E	32.23980251 N	103.99649517 W	4.72@	122.16	1.04
5543.00	2.90	348.69	5541.77	94.00	3.29	0.64 N	3.24 E	32.23981117 N	103.99649759 W	3.30@	78.87	1.98
5638.00	5.01	349.40	5636.54	95.00	2.86	7.07 N	2.01 E	32.23982887 N	103.99650150 W	7.35@	15.86	2.22
5700.00	6.63	352.58	5698.22	62.00	2.67	13.28 N	1.05 E	32.23984596 N	103.99650453 W	13.33@	4.54	2.66
5794.00	9.06	355.94	5791.34	94.00	3.02	26.05 N	0.17 W	32.23988106 N	103.99650836 W	26.05@	359.62	2.63
5889.00	9.67	359.11	5885.07	95.00	4.26	41.49 N	0.82 W	32.23992350 N	103.99651032 W	41.50@	358.86	0.84
5983.00	9.58	0.46	5977.75	94.00	6.12	57.20 N	0.88 W	32.23996670 N	103.99651035 W	57.21@	359.11	0.26
6077.00	9.41	2.80	6070.46	94.00	8.45	72.70 N	0.45 W	32.24000930 N	103.99650878 W	72.70@	359.65	0.45
6171.00	8.35	2.63	6163.33	94.00	10.91	87.20 N	0.24 E	32.24004913 N	103.99650640 W	87.20@	0.16	1.13
6265.00	9.50	1.07	6256.19	94.00	13.15	101.77 N	0.70 E	32.24008919 N	103.99650477 W	101.77@	0.39	1.25
6359.00	8.79	2.80	6349.00	94.00	15.47	116.70 N	1.20 E	32.24013023 N	103.99650302 W	116.71@	0.59	0.81
6453.00	9.41	359.59	6441.81	94.00	17.58	131.56 N	1.49 E	32.24017107 N	103.99650191 W	131.57@	0.65	0.85
6548.00	9.15	357.06	6535.57	95.00	19.02	146.87 N	1.05 E	32.24021316 N	103.99650319 W	146.87@	0.41	0.51
6642.00	8.44	356.35	6628.46	94.00	19.96	161.22 N	0.23 E	32.24025261 N	103.99650570 W	161.22@	0.08	0.76
6736.00	7.83	359.04	6721.52	94.00	21.04	174.50 N	0.32 W	32.24028913 N	103.99650733 W	174.50@	359.89	0.76
6830.00	6.07	352.72	6814.82	94.00	21.69	185.84 N	1.06 W	32.24032029 N	103.99650960 W	185.84@	359.67	2.04
6924.00	4.57	345.41	6908.42	94.00	21.18	194.39 N	2.63 W	32.24034382 N	103.99651461 W	194.41@	359.22	1.75
6988.00	4.57	340.13	6972.22	64.00	20.28	199.26 N	4.14 W	32.24035721 N	103.99651944 W	199.30@	358.81	0.66
7082.00	2.02	340.80	7066.05	94.00	19.10	204.34 N	5.96 W	32.24037121 N	103.99652526 W	204.43@	358.33	2.71
7176.00	1.49	70.45	7160.02	94.00	19.94	206.32 N	5.35 W	32.24037663 N	103.99652328 W	206.39@	358.51	2.66
7270.00	1.14	99.09	7254.00	94.00	22.03	206.58 N	3.28 W	32.24037733 N	103.99651657 W	206.60@	359.09	0.78

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION
JUNIPER "BIP" FEDERAL #9H
EDDY COUNTY, NEW MEXICO
RIG: PATRIOT 5

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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)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
7321.00	1.23	115.81	7304.99	51.00	22.98	206.26 N	2.28 W	32.24037644 N	103.99651336 W	206.27@	359.37	0.70
7352.00	2.90	95.55	7335.97	31.00	24.02	206.04 N	1.20 W	32.24037583 N	103.99650987 W	206.04@	359.67	5.80
7383.00	6.42	89.78	7366.86	31.00	26.51	205.97 N	1.31 E	32.24037562 N	103.99650173 W	205.97@	0.37	11.44
7415.00	10.11	91.00	7398.52	32.00	31.07	205.93 N	5.91 E	32.24037546 N	103.99648686 W	206.01@	1.64	11.54
7446.00	13.63	92.15	7428.85	31.00	37.37	205.74 N	12.28 E	32.24037490 N	103.99646625 W	206.11@	3.42	11.38
7477.00	16.71	92.04	7458.77	31.00	45.38	205.45 N	20.39 E	32.24037402 N	103.99644004 W	206.46@	5.67	9.94
7509.00	20.49	89.63	7489.09	32.00	55.49	205.32 N	30.59 E	32.24037358 N	103.99640704 W	207.59@	8.47	12.05
7540.00	23.74	86.38	7517.81	31.00	67.11	205.75 N	42.25 E	32.24037466 N	103.99636934 W	210.04@	11.60	11.20
7572.00	27.00	84.34	7546.72	32.00	80.81	206.87 N	55.91 E	32.24037763 N	103.99632514 W	214.29@	15.12	10.55
7603.00	30.78	81.52	7573.86	31.00	95.78	208.74 N	70.76 E	32.24038262 N	103.99627708 W	220.40@	18.73	12.96
7634.00	35.35	79.03	7599.83	31.00	112.66	211.61 N	87.42 E	32.24039039 N	103.99622317 W	228.96@	22.45	15.38
7666.00	40.01	77.52	7625.15	32.00	132.15	215.60 N	106.56 E	32.24040118 N	103.99616121 W	240.50@	26.30	14.84
7697.00	44.14	76.16	7648.16	31.00	152.80	220.34 N	126.79 E	32.24041403 N	103.99609577 W	254.21@	29.92	13.64
7728.00	48.89	75.69	7669.48	31.00	175.11	225.81 N	148.59 E	32.24042889 N	103.99602517 W	270.32@	33.35	15.36
7760.00	54.17	74.94	7689.39	32.00	199.94	232.17 N	172.82 E	32.24044615 N	103.99594675 W	289.43@	36.66	16.60
7791.00	59.97	74.20	7706.23	31.00	225.66	239.09 N	197.89 E	32.24046496 N	103.99586560 W	310.36@	39.61	18.82
7822.00	65.95	73.93	7720.32	31.00	252.92	246.74 N	224.41 E	32.24048576 N	103.99577976 W	333.53@	42.29	19.36
7847.00	70.52	73.75	7729.59	25.00	275.83	253.26 N	246.68 E	32.24050349 N	103.99570764 W	353.54@	44.25	18.28
7883.00	76.33	74.92	7739.85	36.00	309.92	262.57 N	279.89 E	32.24052879 N	103.99560014 W	383.77@	46.83	16.44
7915.00	80.28	77.91	7746.34	32.00	341.05	269.92 N	310.34 E	32.24054873 N	103.99550157 W	411.30@	48.99	15.36
7947.00	82.31	79.66	7751.18	32.00	372.59	276.07 N	341.37 E	32.24056537 N	103.99540117 W	439.03@	51.04	8.33
7978.00	84.33	80.10	7754.79	31.00	403.33	281.48 N	371.60 E	32.24057998 N	103.99530308 W	466.23@	52.86	6.67
8010.00	86.35	80.46	7757.39	32.00	435.19	286.86 N	403.11 E	32.24059451 N	103.99520135 W	494.76@	54.56	6.41
8041.00	88.99	80.81	7758.65	31.00	466.14	291.90 N	433.67 E	32.24060810 N	103.99510247 W	522.76@	56.06	8.59
8072.00	90.13	82.56	7758.88	31.00	497.13	296.38 N	464.34 E	32.24062015 N	103.99500322 W	550.87@	57.45	6.74
8104.00	89.87	83.71	7758.88	32.00	529.12	300.21 N	496.11 E	32.24063039 N	103.99490042 W	579.87@	58.82	3.68
8135.00	89.96	83.36	7758.93	31.00	560.12	303.70 N	526.92 E	32.24063972 N	103.99480076 W	608.17@	60.04	1.17

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION
JUNIPER "BIP" FEDERAL #9H
EDDY COUNTY, NEW MEXICO
RIG: PATRIOT 5

Page 04/06

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)	DLS (dg/100ft)
8167.00	90.84	84.06	7758.71	32.00	592.12	307.21 N	558.72 E	32.24064908 N	103.99469785 W	637.61@ 61.20	3.51
8198.00	93.12	84.94	7757.64	31.00	623.09	310.18 N	589.56 E	32.24065698 N	103.99459809 W	666.17@ 62.25	7.88
8229.00	94.09	86.17	7755.69	31.00	653.99	312.57 N	620.40 E	32.24066330 N	103.99449830 W	694.70@ 63.26	5.05
8292.00	94.97	87.75	7750.71	63.00	716.64	315.90 N	683.11 E	32.24067191 N	103.99429543 W	752.62@ 65.18	2.86
8355.00	93.03	88.28	7746.32	63.00	779.24	318.08 N	745.92 E	32.24067735 N	103.99409228 W	810.91@ 66.91	3.19
8418.00	91.28	87.90	7743.95	63.00	841.94	320.18 N	808.84 E	32.24068257 N	103.99388875 W	869.90@ 68.40	2.84
8480.00	90.75	88.35	7742.85	62.00	903.66	322.21 N	870.80 E	32.24068761 N	103.99368834 W	928.49@ 69.69	1.12
8543.00	89.25	88.39	7742.85	63.00	966.40	324.00 N	933.77 E	32.24069199 N	103.99348465 W	988.38@ 70.86	2.38
8606.00	87.85	88.39	7744.44	63.00	1029.10	325.77 N	996.72 E	32.24069630 N	103.99328102 W	1048.61@ 71.90	2.22
8669.00	86.61	88.20	7747.49	63.00	1091.75	327.64 N	1059.62 E	32.24070090 N	103.99307757 W	1109.12@ 72.82	1.99
8731.00	87.67	88.66	7750.58	62.00	1153.39	329.34 N	1121.52 E	32.24070503 N	103.99287735 W	1168.87@ 73.63	1.86
8794.00	88.64	89.46	7752.61	63.00	1216.00	330.37 N	1184.47 E	32.24070732 N	103.99267371 W	1229.68@ 74.42	2.00
8857.00	89.78	89.58	7753.48	63.00	1278.58	330.90 N	1247.46 E	32.24070822 N	103.99246997 W	1290.61@ 75.14	1.82
8919.00	88.99	88.30	7754.14	62.00	1340.24	332.04 N	1309.45 E	32.24071083 N	103.99226948 W	1350.89@ 75.77	2.43
8982.00	89.96	88.31	7754.72	63.00	1402.97	333.91 N	1372.42 E	32.24071540 N	103.99206580 W	1412.45@ 76.33	1.54
9045.00	88.99	87.58	7755.30	63.00	1465.73	336.17 N	1435.37 E	32.24072106 N	103.99186215 W	1474.21@ 76.82	1.93
9108.00	89.52	86.69	7756.12	63.00	1528.55	339.32 N	1498.29 E	32.24072917 N	103.99165863 W	1536.23@ 77.24	1.64
9170.00	89.96	86.50	7756.40	62.00	1590.43	343.00 N	1560.18 E	32.24073875 N	103.99145842 W	1597.44@ 77.60	0.77
9233.00	89.43	85.48	7756.73	63.00	1653.34	347.40 N	1623.02 E	32.24075031 N	103.99125512 W	1659.79@ 77.92	1.82
9296.00	90.66	85.93	7756.68	63.00	1716.27	352.12 N	1685.84 E	32.24076273 N	103.99105188 W	1722.23@ 78.20	2.08
9359.00	90.22	85.14	7756.20	63.00	1779.20	357.03 N	1748.65 E	32.24077566 N	103.99084869 W	1784.73@ 78.46	1.44
9422.00	90.13	85.14	7756.01	63.00	1842.16	362.36 N	1811.42 E	32.24078978 N	103.99064561 W	1847.31@ 78.69	0.14
9484.00	89.87	84.76	7756.01	62.00	1904.12	367.82 N	1873.18 E	32.24080424 N	103.99044580 W	1908.95@ 78.89	0.74
9547.00	90.22	84.35	7755.96	63.00	1967.09	373.80 N	1935.90 E	32.24082012 N	103.99024289 W	1971.66@ 79.07	0.86
9610.00	92.42	85.45	7754.51	63.00	2030.04	379.40 N	1998.63 E	32.24083496 N	103.99003995 W	2034.32@ 79.25	3.90
9673.00	92.86	85.50	7751.61	63.00	2092.91	384.36 N	2061.36 E	32.24084806 N	103.98983698 W	2096.89@ 79.44	0.70
9735.00	92.51	85.51	7748.70	62.00	2154.78	389.22 N	2123.11 E	32.24086086 N	103.98963724 W	2158.49@ 79.61	0.56

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION
JUNIPER "BIP" FEDERAL #9H
EDDY COUNTY, NEW MEXICO
RIG: PATRIOT 5

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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)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
9798.00	90.75	85.77	7746.91	63.00	2217.68	394.00 N	2185.90 E	32.24087346 N	103.98943410 W	2221.12@	79.78	2.82
9861.00	91.10	85.68	7745.89	63.00	2280.60	398.70 N	2248.71 E	32.24088582 N	103.98923089 W	2283.78@	79.95	0.57
9923.00	90.04	86.00	7745.28	62.00	2342.52	403.20 N	2310.54 E	32.24089764 N	103.98903085 W	2345.46@	80.10	1.79
9986.00	89.69	86.02	7745.42	63.00	2405.43	407.58 N	2373.39 E	32.24090913 N	103.98882754 W	2408.13@	80.26	0.56
10049.00	88.81	86.25	7746.25	63.00	2468.33	411.83 N	2436.24 E	32.24092025 N	103.98862421 W	2470.80@	80.41	1.44
10112.00	88.20	85.80	7747.89	63.00	2531.22	416.19 N	2499.07 E	32.24093170 N	103.98842096 W	2533.49@	80.54	1.20
10175.00	87.85	85.71	7750.06	63.00	2594.11	420.85 N	2561.86 E	32.24094395 N	103.98821783 W	2596.20@	80.67	0.57
10237.00	88.11	85.07	7752.25	62.00	2656.01	425.83 N	2623.62 E	32.24095710 N	103.98801802 W	2657.95@	80.78	1.11
10300.00	88.99	85.68	7753.84	63.00	2718.94	430.91 N	2686.39 E	32.24097050 N	103.98781493 W	2720.73@	80.89	1.70
10363.00	89.25	85.17	7754.81	63.00	2781.87	435.94 N	2749.18 E	32.24098376 N	103.98761179 W	2733.53@	80.99	0.91
10426.00	88.81	85.50	7755.88	63.00	2844.81	441.06 N	2811.97 E	32.24099728 N	103.98740868 W	2846.35@	81.09	0.87
10489.00	87.67	84.04	7757.81	63.00	2907.74	446.80 N	2874.67 E	32.24101250 N	103.98720581 W	2909.19@	81.17	2.94
10551.00	88.02	83.68	7760.14	62.00	2969.69	453.42 N	2936.27 E	32.24103017 N	103.98700650 W	2971.08@	81.22	0.81
10614.00	88.90	87.93	7761.84	63.00	3032.58	458.03 N	2999.07 E	32.24104228 N	103.98680335 W	3033.84@	81.32	6.89
10677.00	89.25	84.58	7762.86	63.00	3095.46	462.14 N	3061.91 E	32.24105303 N	103.98660004 W	3096.59@	81.42	5.35
10739.00	89.96	85.29	7763.28	62.00	3157.42	467.62 N	3123.67 E	32.24106753 N	103.98640024 W	3158.48@	81.49	1.62
10802.00	89.52	85.47	7763.57	63.00	3220.36	472.69 N	3186.46 E	32.24108092 N	103.98619709 W	3221.33@	81.56	0.75
10866.00	89.52	85.91	7764.10	64.00	3284.29	477.50 N	3250.28 E	32.24109357 N	103.98599063 W	3285.17@	81.64	0.69
10928.00	89.60	86.48	7764.58	62.00	3346.19	481.62 N	3312.14 E	32.24110433 N	103.98579050 W	3346.97@	81.73	0.93
10991.00	89.87	86.55	7764.87	63.00	3409.07	485.45 N	3375.03 E	32.24111430 N	103.98558708 W	3409.76@	81.82	0.44
11054.00	89.69	86.65	7765.11	63.00	3471.94	489.18 N	3437.91 E	32.24112401 N	103.98538363 W	3472.54@	81.90	0.33
11117.00	88.02	86.79	7766.37	63.00	3534.79	492.79 N	3500.80 E	32.24113335 N	103.98518021 W	3535.31@	81.99	2.66
11179.00	88.02	86.55	7768.51	62.00	3596.62	496.38 N	3562.65 E	32.24114270 N	103.98498011 W	3597.07@	82.07	0.39
11241.00	87.76	86.58	7770.80	62.00	3658.46	500.10 N	3624.50 E	32.24115235 N	103.98478003 W	3658.84@	82.14	0.42
11304.00	88.55	86.85	7772.83	63.00	3721.29	503.70 N	3687.36 E	32.24116171 N	103.98457667 W	3721.61@	82.22	1.33
11367.00	89.43	86.66	7773.94	63.00	3784.14	507.27 N	3750.25 E	32.24117095 N	103.98437323 W	3784.40@	82.30	1.43
11429.00	89.25	86.70	7774.65	62.00	3846.01	510.86 N	3812.14 E	32.24118026 N	103.98417301 W	3846.22@	82.37	0.30

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION
JUNIPER "BIP" FEDERAL #9H
EDDY COUNTY, NEW MEXICO
RIG: PATRIOT 5

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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)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
11492.00	88.37	85.98	7775.96	63.00	3908.88	514.88 N	3875.00 E	32.24119075 N	103.98396967 W	3909.06@	82.43	1.80
11555.00	87.32	84.25	7778.33	63.00	3971.79	520.24 N	3937.72 E	32.24120493 N	103.98376674 W	3971.94@	82.47	3.21
11618.00	88.99	84.35	7780.36	63.00	4034.74	526.50 N	4000.38 E	32.24122156 N	103.98356403 W	4034.88@	82.50	2.66
11680.00	89.43	83.58	7781.21	62.00	4096.73	533.01 N	4062.03 E	32.24123892 N	103.98336456 W	4096.85@	82.52	1.43
11743.00	91.45	84.30	7780.73	63.00	4159.71	539.66 N	4124.67 E	32.24125664 N	103.98316188 W	4159.83@	82.55	3.40
11806.00	89.60	83.79	7780.15	63.00	4222.69	546.20 N	4167.33 E	32.24127404 N	103.98295916 W	4222.80@	82.57	3.05
11869.00	89.60	84.38	7780.59	63.00	4285.68	552.69 N	4249.99 E	32.24129133 N	103.98275642 W	4285.77@	82.59	0.94
11932.00	89.52	84.18	7781.07	63.00	4348.66	558.97 N	4312.67 E	32.24130802 N	103.98255361 W	4348.75@	82.62	0.34
11964.00	89.60	84.57	7781.32	32.00	4380.65	562.19 N	4344.52 E	32.24131636 N	103.98245058 W	4380.73@	82.63	1.24
STRAIGHT LINE PROJECTION TO BIT DEPTH AT 12043' MD.												
12043.00	89.60	84.57	7781.87	79.00	4459.62	569.58 N	4423.16 E	32.24133620 N	103.98219614 W	4459.68@	82.66	0.00

** The survey data at tie-in point was furnished by a recognized survey company and entered as submitted. Survey stations above the tie-in point represent recalculated data by PathFinder Energy Services, Inc. and may reflect minor changes due to rounding differences between survey programs. Only survey stations taken by qualified PathFinder personnel are subject to certification.



Project: Eddy County
 Site: Juniper "BIP" Feder
 Well: #9H
 Wellbore: OH
 Plan: Plan #6 (#9H/OH)



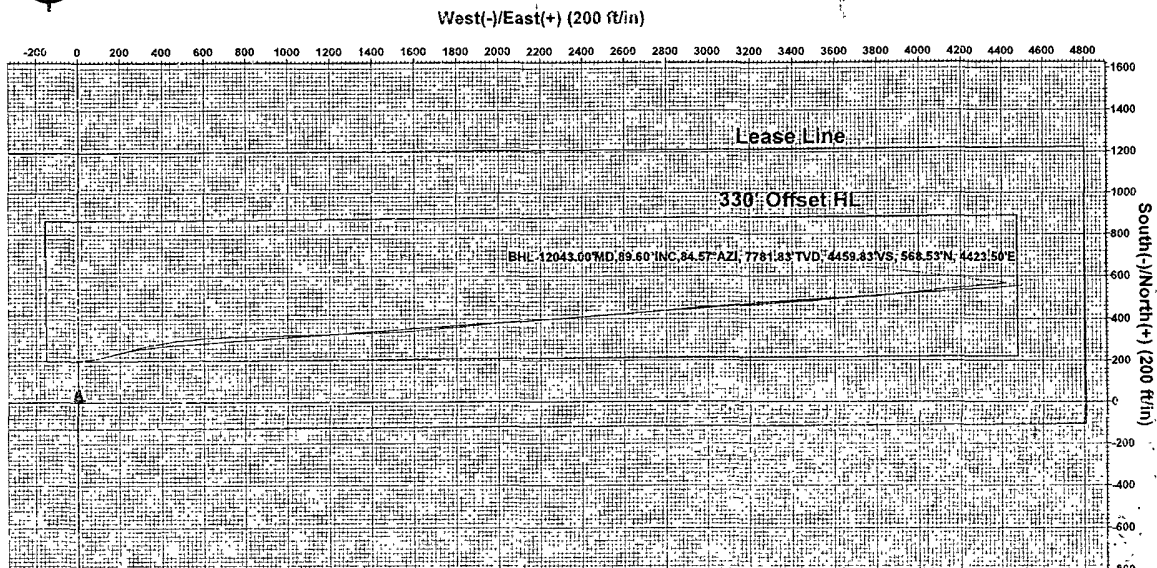
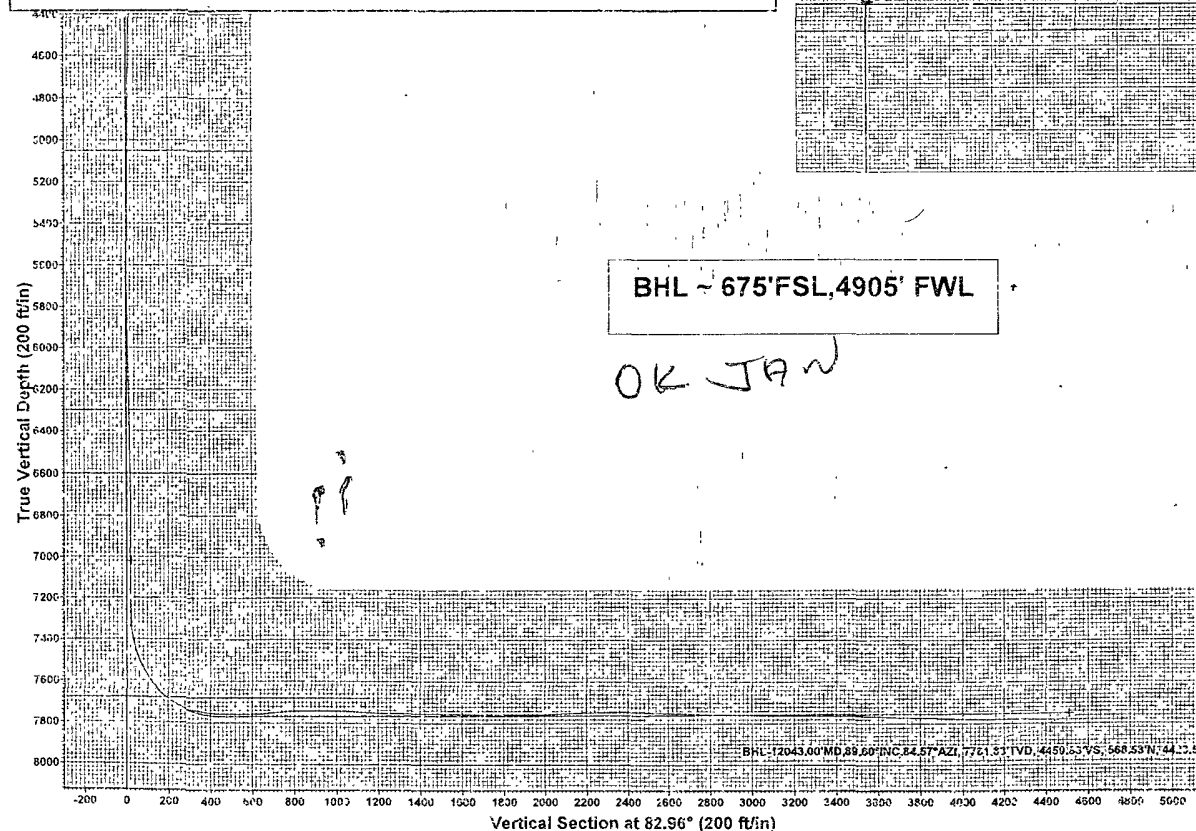
Azimuths to Grid North
 True North: -0.18°
 Magnetic North: 7.77°

Magnetic Field
 Strength: 48723.7snT
 Dip Angle: 60.16°
 Date: 01/10/2010
 Model: IGRF2010

PATHFINDER

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: Gnd

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	D/Leg	T/Face	V/Sec	Target
1	7772.00	58.41	74.54	7696.21	234.99	182.61	0.00	0.00	210.03	
2	8031.16	90.00	86.02	7779.24	273.81	423.61	13.60	19.99	453.97	
3	8045.63	90.29	86.06	7770.20	274.81	438.05	2.00	8.83	468.42	
4	12092.36	90.29	86.06	7750.00	552.55	4475.18	0.00	0.00	4509.17	PBHL(JUN#9H)



WELL DETAILS #9H						
Ground Elevation: 2996.00						
RKS Elevation: Well1 @ 3022.50ft (Patriot #5)						
Rig Name: Patriot #5						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	451139.500	645476.900	32° 14' 23.314 N	103° 59' 47.429 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
End of S-Well	7019.00	200.00	0.00	451339.500	645476.900	Point
PBHL(JUN#9H)	7750.00	552.55	4475.18	451682.049	649952.084	Point

Plan Plan #6 (#9H/OH)
 Created By: Nate Bingham Date: 8/16, February 08 2010
 Checked: _____ Date: _____