

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2004

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other

5. Lease Serial No.

NM-78215

6. If Indian, Allottee or Tribe Name

2. Name of Operator

Yates Petroleum Corporation

7. Unit or CA Agreement Name and No.

3. Address

105 S. 4th Str., Artesia, NM 88210

3a. Phone No. (include area code)

505-748-1471

8. Lease Name and Well No.

Hickory ALV Federal #7

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At Surface

99'FNL & 2038'FWL (Unit C, NENW)

At top prod. Interval reported below

Same as above

At total depth

707'FNL & 1924'FWL (Unit C, NENW)

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9. API Well No.

30-015-32996

10. Field and Pool, or Exploratory

Indian Basin Upper Penn Assoc.

11. Sec., T., R., M., on Block and

Survey or Area

Section 17-T22S-R24E

12. County or Parish

Eddy

13. State

New Mexico

14. Date Spudded

RH 8/24/03 RT 8/27/03

15. Date T.D. Reached

9/20/03

16. Date Completed

10/1/03

☐ D & A

☒ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*

4111'GL 4129'KB

18. Total Depth: MD 8600'
TVD NA

19. Plug Back T.D.: MD 8562'
TVD NA

20. Depth Bridge Plug Set: MD NA
TVD NA

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

CNL, Azimuthal Laterolog, Micro Log/HNGS

22. Was Well cored?

☒ No

☐ Yes

(Submit analysis)

Was DST run?

☒ No

☐ Yes

(Submit report)

Directional Survey?

☒ No

☐ Yes

(Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	State Cementer Depth	No. of Sks & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
26"	20"		Surface	40'		Conductor		Surface	
14-3/4"	9-5/8"	36#	Surface	1820'		2425 sx		Surface	
8-3/4"	7"	23# & 26#	Surface	8600'		1100 sx		Surface	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Canyon	8122'	8262'	8122'-8156'			Producing
B)			8210'-8262'		53	Producing
C)			8160'-8174'		15	Producing
D)			8186'-8198'		13	Producing

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
8122'-8156'	Acidize w/15,000g 20% gelled acid
8210'-8262'	Acidize w/2500g 20% gelled IC acid and ball sealers
8160'-8198'	Acidize w/40,000g 20% gel IC-HCL and block

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
10/2/03	11/17/03	24 hrs	⇒	90	209	306	NA	NA	Flowing
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
NA	110 psi	100 psi	⇒	90	209	306	NA		Producing

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			⇒						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			⇒						

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production ⇒	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate ⇒	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production ⇒	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate ⇒	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Sold

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Description, Contents, etc.	Name	Top
					Meas Depth
				San Andres	812'
				Glorieta	2459'
				Upper Yeso	2743'
				Bone Spring	3223'
				2nd Bone Spring	4322'
				3rd Bone Spring	6894'
				Wolfcamp	7260'
				Upper Penn	8100'

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

- ☒ 1. Electrical/Mechanical Logs (1 full set req'd.) 2. Geologic Report 3. DST Report ☒ 4. Directional Survey
 5. Sundry Notice for plugging and cement verification 6. Core Analysis ☒ 7. Other: Deviation Survey

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

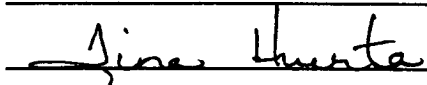
Name (please print)

Tina Huerta

Title

Regulatory Compliance Supervisor

Signature



Date

November 17, 2003

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OPERATOR: YATES PETROLEUM CORP.
WELL/LEASE: HICKORY ALV FED. 7
COUNTY: EDDY

503-0245

STATE OF NEW MEXICO
DEVIATION REPORT

255	0.50	5,007	7.74
494	0.50	5,261	7.30
756	0.50	5,387	7.56
1,002	0.75	5,449	8.00
1,257	1.25	5,827	9.23
1,384	2.25	7,660	7.00
1,444	1.50	7,724	6.77
1,508	1.25	8,194	2.75
1,568	1.50	8,258	2.00
1,667	1.25	8,320	2.00
1,791	1.00	8,416	2.00
1,953	0.75	8,508	2.75
2,432	1.50	8,600	2.25
2,932	1.25		
3,322	1.67		
3,384	2.46		
3,423	3.17		
3,550	3.17		
3,646	4.48		
3,677	4.48		
3,803	5.36		
3,867	5.70		
4,088	6.60		
4,247	6.68		
4,310	6.77		
4,342	6.86		
4,405	6.68		
4,659	6.90		
4,786	6.86		
4,849	7.21		
4,912	7.03		

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OCD-ARTESIA

By: Steve Moore

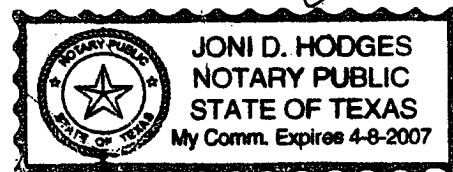
STATE OF TEXAS

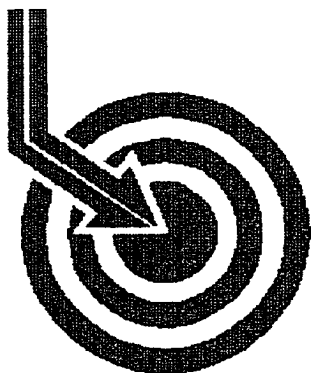
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 29th day of September, 2003, by Steve Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.

Joni D. Hodges
Notary Public for Midland County, Texas

My Commission Expires: 4/08/2007



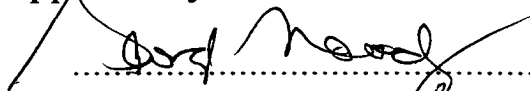


Scientific Drilling

YATES PETROLEUM

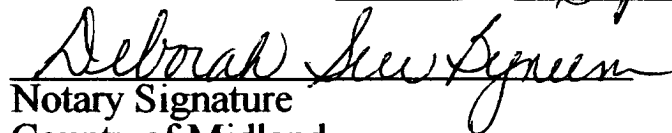
Field: Indian Basin
Site: Eddy County, NM
Well: Hickory ALV Fed. #7
Wellpath: VH - Job #32K0903465

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

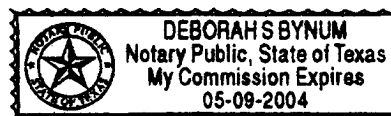


.....Company Representative

Notorized this date 23rd of September, 2003.



Notary Signature
County of Midland
State of Texas



Scientific Drilling

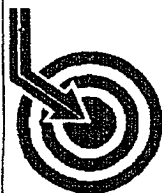
Survey Report

Company: YATES PETROLEUM	Date: 9/23/2003	Time: 14:28:18	Page: 1
Field: Indian Basin	Co-ordinate(N/E) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Hickory ALV Fed. #7	Section (VS) Reference:	Well (0.00N,0.00E,162.68Azi)	
Wellpath: VH - Job #32K0903465	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 09/07/03	Start Date:	9/7/2003
Company: Scientific Drilling	Engineer:	Angel Guebara
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
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.00
100.0	0.25	243.82	100.0	0.0	-0.1	-0.2	0.25	0.2	243.82
200.0	0.23	241.72	200.0	0.1	-0.3	-0.6	0.02	0.6	243.16
300.0	0.32	239.58	300.0	0.2	-0.5	-1.0	0.09	1.1	242.01
400.0	0.18	183.74	400.0	0.4	-0.8	-1.2	0.26	1.5	236.39
500.0	0.46	242.89	500.0	0.6	-1.2	-1.6	0.40	2.0	234.09
600.0	0.36	218.78	600.0	0.9	-1.6	-2.2	0.20	2.7	233.63
700.0	0.31	198.09	700.0	1.3	-2.1	-2.4	0.13	3.2	229.39
800.0	0.45	209.23	800.0	1.8	-2.7	-2.7	0.16	3.8	225.25
900.0	0.26	156.23	900.0	2.3	-3.2	-2.8	0.36	4.3	220.97
1000.0	0.28	226.39	1000.0	2.6	-3.6	-2.9	0.31	4.6	218.72
1100.0	0.82	202.85	1100.0	3.2	-4.4	-3.4	0.57	5.6	217.04
1200.0	0.72	158.51	1200.0	4.4	-5.7	-3.4	0.59	6.6	210.88
1300.0	1.37	152.61	1300.0	6.2	-7.3	-2.6	0.66	7.8	199.68
1400.0	1.44	153.81	1399.9	8.6	-9.5	-1.5	0.08	9.6	189.06
1500.0	1.35	155.55	1499.9	11.1	-11.7	-0.5	0.10	11.7	182.33
1600.0	1.00	174.83	1599.9	13.1	-13.7	0.1	0.52	13.7	179.62
1700.0	0.86	170.57	1699.9	14.7	-15.3	0.3	0.16	15.3	178.91
1800.0	0.87	176.58	1799.9	16.2	-16.8	0.5	0.09	16.8	178.43
1900.0	0.97	173.51	1899.8	17.7	-18.4	0.6	0.11	18.4	178.13
2000.0	1.01	177.73	1999.8	19.4	-20.1	0.7	0.08	20.1	177.92
2100.0	1.05	180.01	2099.8	21.1	-21.9	0.8	0.06	21.9	178.00
2200.0	1.01	176.60	2199.8	22.9	-23.7	0.8	0.07	23.7	178.02
2300.0	1.17	173.65	2299.8	24.7	-25.6	1.0	0.17	25.6	177.80
2400.0	1.12	164.58	2399.8	26.7	-27.5	1.4	0.19	27.6	177.18
2500.0	1.30	160.07	2499.7	28.8	-29.5	2.0	0.20	29.6	176.12
2600.0	1.30	150.70	2599.7	31.0	-31.6	2.9	0.21	31.7	174.68
2700.0	1.42	138.60	2699.7	33.3	-33.5	4.3	0.31	33.8	172.66
2800.0	1.48	136.62	2799.6	35.6	-35.4	6.0	0.08	35.9	170.34
2900.0	1.52	147.08	2899.6	38.0	-37.4	7.6	0.28	38.2	168.48
3000.0	1.34	140.19	2999.6	40.4	-39.5	9.1	0.25	40.5	167.01
3100.0	1.34	134.54	3099.6	42.5	-41.2	10.7	0.13	42.5	165.45
3200.0	1.37	134.87	3199.5	44.6	-42.8	12.4	0.03	44.6	163.90
3275.0	1.29	123.83	3274.5	46.0	-43.9	13.7	0.36	46.0	162.68



Scientific
Drilling

Field: Indian Basin
Site: Eddy County, NM
Well: Hickory ALV Fed. #7
Wellpath: VH - Job #32K0903465

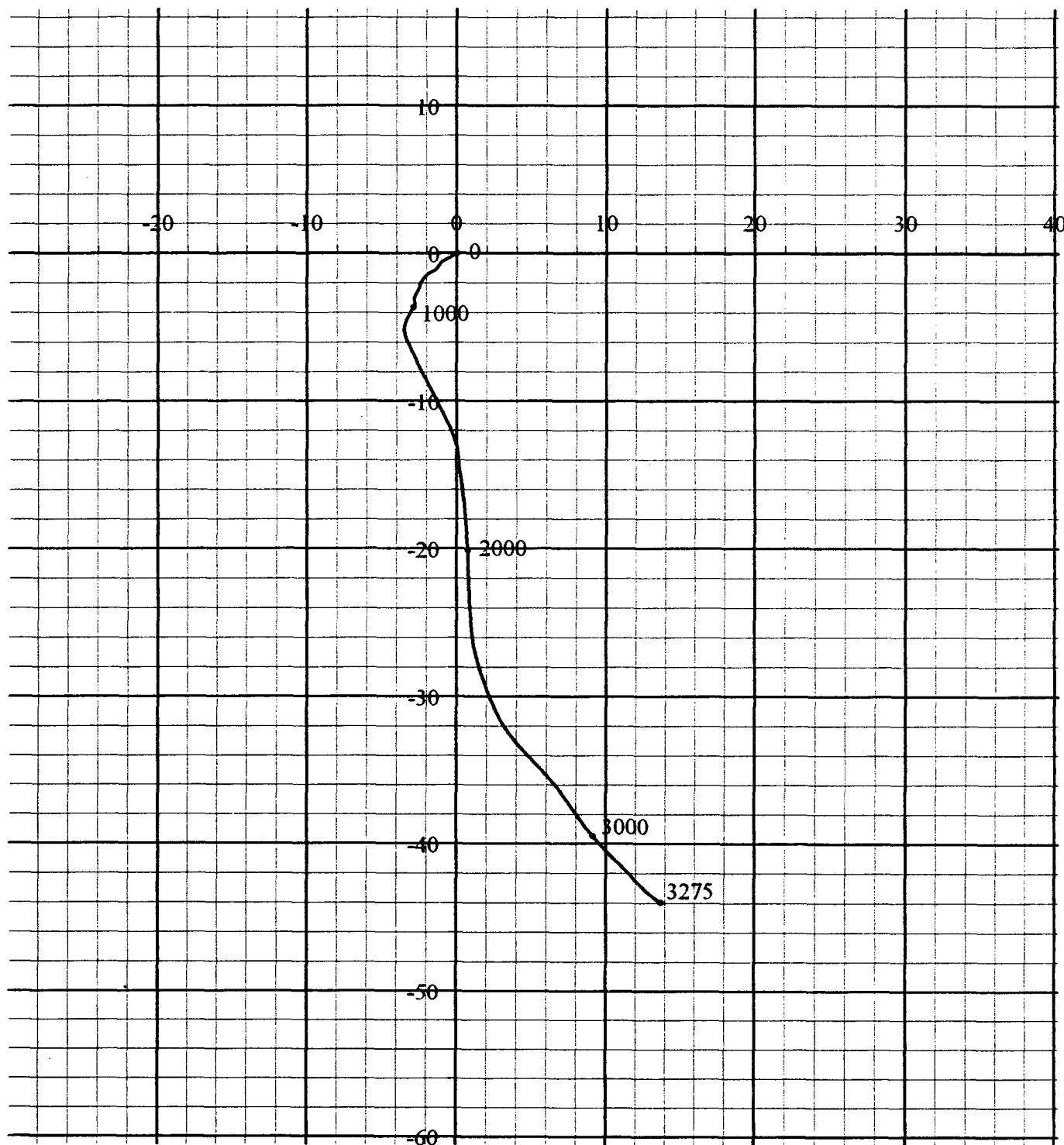


Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 9 23 2003
Model: igrf2000

West(-)/East(+) [10ft/in]

South(-)/North(+) [10ft/in]





DIRECTIONAL SURVEY REPORT

YATES PETROLEUM

HICKORY "ALV" FED. #7

EDDY COUNTY, NEW MEXICO

PREPARED BY: DAVID M. YOUNG

PathFinder Energy Services, Inc.
3329 West Pinhook Road, Lafayette, LA 70508
(337) 233-3982

October 14, 2003

YATES PETROLEUM
105 South 4TH
Artesia, New Mexico 88210

Attn: Tim Bussell

RE: YATES PETROLEUM
HICKORY "ALV" FED. #7
EDDY COUNTY, NEW MEXICO
RIG: PATTERSON #503
OUR FILE NO.: J-WT-0309-0042

Dear Mr. Bussell:

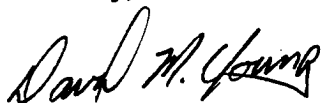
We hereby certify that the enclosed Original Field Survey Data contained in this report represents to the best of our knowledge, a true and accurate survey of the well at the time the survey was run.

SURVEY DATA

- 1 - Original survey report**
- 2 - Survey report copies**

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,



David M. Young
Service Coordinator
PathFinder Energy Services

DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY: (A) JASON WAYMIRE
(B) TROY PAREDEZ
3. POSITION OF SAID PERSON(S): (A) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 09/07/03 TO 09/16/03
5. STATE IN WHICH SURVEY WAS PERFORMED: ONSHORE, NEW MEXICO
6. LOCATION OF WELL: EDDY COUNTY, NEW MEXICO
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

YATES PETROLEUM
HICKORY "ALV" FED. #7
EDDY COUNTY, NEW MEXICO
RIG: PATTERSON #503
9. SURVEY CERTIFIED FROM: 3,320 TO 7,977 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 618.92 FEET ON A BEARING OF 190.56 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT PROJECTED MEASURED DEPTH OF 8,016 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



DAVID M. YOUNG
SERVICE COORDINATOR

BHL Report

Page 1
 Job No: J-WT-0309-0042
 Date: 9/18/2003
 Time: 8:42 am
 Wellpath ID: hick7
 Date Created: 9/6/2003
 Last Revision: 9/16/2003

*Calculated using the Minimum Curvature Method
 Computed using PDS VER2.2.6
 Vertical Section Plane: 190.02 deg.*

Survey Reference: WELLHEAD
 Vertical Section Reference: WELLHEAD
 Closure Reference: WELLHEAD
 TVD Reference: WELLHEAD

YATES PETROLEUM
 HICKORY "ALV" FED #7
 EDDY COUNTY, NEW MEXICO
 RIG: PATTERSON #503

DECL: 9.1° EAST TO TRUE
 KBH = 17.5' ROTARY TO GROUND

PATHFINDER OFFICE SUPERVISOR:
 GLENN COYLE
 PATHFINDER FIELD ENGINEERS:
 J. WAYMIRE / T. PAREDEZ

Measured Depth	8016.00	(ft)
Inclination	1.23	(deg)
Azimuth	220.04	(deg)
True Vertical Depth	7977.16	(ft)
Vertical Section	618.89	(ft)
Rectangular Offsets		
North/South	608.44 S	(ft)
East/West	113.38W	(ft)
Closure Dist & Dir	618.92@ 190.56	(deg)
Dogleg Severity	0.00	(deg/100ft)
Build Rate	0.00	(deg/100ft)
Walk Rate	0.00	(deg/100ft)

Survey Report

Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 190.02 deg.

Survey Reference: WELLHEAD
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

YATES PETROLEUM
HICKORY "ALV" FED #7
EDDY COUNTY, NEW MEXICO
RIG: PATTERSON #503

DECL: 9.1° EAST TO TRUE
KBH = 17.5' ROTARY TO GROUND

PATHFINDER OFFICE SUPERVISOR:
GLENN COYLE
PATHFINDER FIELD ENGINEERS:
J. WAYMIRE / T. PAREDEZ

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft)		Closure Dist. (ft)	Dir. (deg.)	DLS (dg/100ft)
TIED INTO SCIENTIFIC DRILLING @ 3275' MD										
3275.00	1.29	123.83	3274.50	0.00	40.89	43.94 S	13.70 E	46.03@	162.68	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS										
3320.00	1.69	159.92	3319.49	45.00	41.66	44.85 S	14.35 E	47.08@	162.26	2.22
3352.00	2.20	173.28	3351.47	32.00	42.66	45.90 S	14.58 E	48.16@	162.37	2.12
3384.00	2.73	185.85	3383.44	32.00	44.01	47.27 S	14.58 E	49.46@	162.86	2.36
3423.00	3.17	188.40	3422.39	39.00	46.01	49.26 S	14.32 E	51.30@	163.79	1.18
3455.00	3.17	192.00	3454.34	32.00	47.78	51.00 S	14.01 E	52.89@	164.64	0.62
3487.00	3.17	191.82	3486.29	32.00	49.55	52.73 S	13.65 E	54.47@	165.49	0.03
3518.00	3.17	192.00	3517.24	31.00	51.26	54.41 S	13.29 E	56.01@	166.27	0.03
3550.00	3.17	191.03	3549.19	32.00	53.03	56.14 S	12.94 E	57.61@	167.02	0.17
3582.00	3.25	194.20	3581.14	32.00	54.82	57.89 S	12.55 E	59.23@	167.77	0.61
3646.00	4.48	198.15	3644.99	64.00	59.11	62.02 S	11.32 E	63.05@	169.65	1.97
3677.00	4.48	200.44	3675.90	31.00	61.50	64.31 S	10.52 E	65.16@	170.71	0.58
3740.00	4.84	201.23	3738.69	63.00	66.52	69.09 S	8.70 E	69.64@	172.82	0.58
3803.00	5.36	200.17	3801.44	63.00	72.03	74.33 S	6.72 E	74.63@	174.83	0.84
3835.00	5.28	198.86	3833.30	32.00	74.95	77.13 S	5.73 E	77.34@	175.75	0.45
3898.00	5.80	195.08	3896.01	63.00	80.99	82.94 S	3.97 E	83.04@	177.26	1.01
3930.00	6.16	194.11	3927.84	32.00	84.31	86.17 S	3.13 E	86.23@	177.92	1.17
3993.00	6.24	194.37	3990.47	63.00	91.10	92.76 S	1.46 E	92.78@	179.10	0.13
4056.00	6.68	194.90	4053.07	63.00	98.16	99.62 S	0.34W	99.62@	180.19	0.70
4120.00	6.30	191.80	4116.66	64.00	105.38	106.66 S	2.01W	106.68@	181.08	0.81
4184.00	6.24	192.97	4180.27	64.00	112.36	113.48 S	3.51W	113.54@	181.77	0.22
4247.00	6.68	196.31	4242.87	63.00	119.42	120.34 S	5.31W	120.45@	182.53	0.92
4310.00	6.77	190.95	4305.44	63.00	126.78	127.50 S	7.04W	127.69@	183.16	1.01
4342.00	6.86	189.63	4337.22	32.00	130.58	131.24 S	7.72W	131.46@	183.37	0.56
4405.00	6.68	190.07	4399.78	63.00	138.00	138.55 S	8.99W	138.84@	183.71	0.30

Putnam Energy Services

Survey Report

Page 2
Date: 9/18/2003
Wellpath ID: hick7

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft)		Closure Dist. (ft)	Dir. (deg.)	DLS (dg/100ft)
4469.00	6.42	194.90	4463.36	64.00	145.29	145.68 S	10.56W	146.06@	184.15	0.95
4532.00	7.12	192.88	4525.92	63.00	152.70	152.89 S	12.34W	153.38@	184.61	1.17
4564.00	6.95	191.12	4557.68	32.00	156.62	156.72 S	13.15W	157.27@	184.80	0.86
4659.00	6.86	196.57	4651.99	95.00	168.00	167.80 S	15.88W	168.55@	185.41	0.70
4723.00	7.12	192.88	4715.52	64.00	175.76	175.33 S	17.85W	176.23@	185.81	0.81
4786.00	6.86	192.97	4778.05	63.00	183.42	182.80 S	19.57W	183.84@	186.11	0.41
4849.00	7.21	192.00	4840.57	63.00	191.12	190.33 S	21.23W	191.51@	186.37	0.59
4912.00	7.03	193.49	4903.09	63.00	198.92	197.95 S	22.96W	199.27@	186.62	0.41
4944.00	7.21	193.32	4934.84	32.00	202.88	201.81 S	23.88W	203.21@	186.75	0.57
5007.00	7.74	193.67	4997.30	63.00	211.06	209.78 S	25.79W	211.36@	187.01	0.84
5070.00	7.83	192.35	5059.72	63.00	219.58	218.09 S	27.71W	219.84@	187.24	0.32
5134.00	7.83	193.49	5123.13	64.00	228.29	226.59 S	29.66W	228.52@	187.46	0.24
5197.00	7.74	192.53	5185.55	63.00	236.81	234.90 S	31.58W	237.02@	187.66	0.25
5261.00	7.30	189.89	5249.00	64.00	245.19	243.12 S	33.21W	245.37@	187.78	0.87
5324.00	7.30	188.57	5311.49	63.00	253.19	251.02 S	34.50W	253.38@	187.83	0.27
5387.00	7.56	187.47	5373.96	63.00	261.33	259.08 S	35.63W	261.52@	187.83	0.47
5449.00	8.00	184.79	5435.39	62.00	269.70	267.43 S	36.52W	269.91@	187.78	0.92
5513.00	8.00	187.43	5498.76	64.00	278.59	276.28 S	37.47W	278.81@	187.72	0.57
5576.00	9.06	183.74	5561.07	63.00	287.90	285.58 S	38.36W	288.14@	187.65	1.89
5638.00	8.09	189.80	5622.37	62.00	297.11	294.75 S	39.42W	297.37@	187.62	2.14
5701.00	8.35	193.49	5684.73	63.00	306.11	303.56 S	41.24W	306.35@	187.74	0.93
5764.00	8.88	190.51	5747.02	63.00	315.54	312.79 S	43.20W	315.76@	187.86	1.10
5827.00	9.23	189.98	5809.23	63.00	325.45	322.55 S	44.96W	325.67@	187.94	0.57
5890.00	8.27	189.80	5871.50	63.00	335.04	331.99 S	46.61W	335.25@	187.99	1.52
5954.00	7.74	196.22	5934.87	64.00	343.93	340.67 S	48.60W	344.11@	188.12	1.62
6017.00	8.18	200.96	5997.27	63.00	352.54	348.92 S	51.38W	352.69@	188.38	1.25
6080.00	8.44	199.91	6059.61	63.00	361.50	357.46 S	54.56W	361.60@	188.68	0.48
6143.00	8.44	194.66	6121.92	63.00	370.66	366.28 S	57.31W	370.73@	188.89	1.22
6206.00	8.18	193.14	6184.26	63.00	379.74	375.11 S	59.49W	379.80@	189.01	0.54
6270.00	8.40	192.00	6247.59	64.00	388.96	384.12 S	61.50W	389.01@	189.10	0.43
6333.00	8.87	187.87	6309.88	63.00	398.42	393.43 S	63.12W	398.47@	189.12	1.23
6364.00	9.06	187.78	6340.50	31.00	403.24	398.22 S	63.78W	403.29@	189.10	0.61
6428.00	8.00	186.11	6403.79	64.00	412.72	407.64 S	64.94W	412.78@	189.05	1.70
6491.00	7.74	187.08	6466.20	63.00	421.33	416.21 S	65.93W	421.40@	189.00	0.46
6554.00	8.18	189.98	6528.59	63.00	430.05	424.83 S	67.23W	430.12@	188.99	0.95
6616.00	9.32	193.14	6589.87	62.00	439.47	434.07 S	69.13W	439.54@	189.05	1.99
6680.00	9.58	196.40	6653.00	64.00	449.94	444.22 S	71.81W	449.99@	189.18	0.93
6744.00	9.50	197.62	6716.12	64.00	460.47	454.37 S	74.92W	460.50@	189.36	0.34
6838.00	8.88	190.30	6808.91	94.00	475.41	468.90 S	78.56W	475.43@	189.51	1.41
6902.00	8.44	190.51	6872.18	64.00	485.05	478.38 S	80.30W	485.07@	189.53	0.69
6964.00	9.06	192.88	6933.46	62.00	494.48	487.61 S	82.22W	494.49@	189.57	1.16
7027.00	8.71	193.85	6995.71	63.00	504.19	497.08 S	84.47W	504.20@	189.64	0.60
7090.00	8.79	194.73	7057.97	63.00	513.75	506.36 S	86.83W	513.75@	189.73	0.25
7153.00	8.88	192.26	7120.23	63.00	523.40	515.77 S	89.09W	523.41@	189.80	0.62
7217.00	8.88	194.46	7183.46	64.00	533.26	525.38 S	91.37W	533.27@	189.87	0.53

Survey Report

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	Vertical Section (ft)	T O T A L Rectangular Curves (ft)		Closure Dist. Dir. (ft) (deg.)	DLS (dg/100ft)
7280.00	8.79	192.09	7245.71	63.00	542.92	534.79 S 93.59W	542.92@189.93	0.60
7344.00	7.91	191.30	7309.03	64.00	552.21	543.89 S 95.49W	552.21@189.96	1.38
7407.00	7.30	197.98	7371.48	63.00	560.51	551.95 S 97.58W	560.51@190.03	1.69
7471.00	7.47	194.55	7434.95	64.00	568.68	559.85 S 99.88W	568.68@190.12	0.74
7534.00	7.74	194.46	7497.39	63.00	577.00	567.92 S 101.97W	577.00@190.18	0.43
7597.00	7.30	195.43	7559.85	63.00	585.21	575.88 S 104.09W	585.22@190.25	0.73
7660.00	7.03	196.57	7622.36	63.00	593.03	583.44 S 106.26W	593.03@190.32	0.48
7724.00	6.77	194.90	7685.90	64.00	600.67	590.84 S 108.34W	600.69@190.39	0.51
7787.00	5.45	188.31	7748.54	63.00	607.37	597.39 S 109.73W	607.38@190.41	2.37
7851.00	4.31	193.43	7812.30	64.00	612.80	602.73 S 110.73W	612.82@190.41	1.91
7914.00	2.29	206.59	7875.20	63.00	616.37	606.16 S 111.84W	616.39@190.45	3.40
7977.00	1.23	220.04	7938.17	63.00	618.17	607.80 S 112.84W	618.19@190.52	1.79
STRAIGHT LINE PROJECTION TO BIT @ 8016' MD								
8016.00	1.23	220.04	7977.16	39.00	618.89	608.44 S 113.38W	618.92@190.56	0.00