

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Oil Cons.
N.M. DIV-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

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:

2. Name of Operator
Yates Petroleum Corporation

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

3a. Phone No. (include area code)
505-748-1471

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

At Surface 1273'FNL & 1034'FWL (Unit D, NWNW)

At top prod. Interval reported below Same as above

Bottomhole 660'FNL & 1980'FWL (Unit C, NENW)

5. Lease Serial No.

NM-78213

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.

Walt Canyon AMA Fed Com #7

9. API Well No.

30-015-32268

10. Field and Pool, or Exploratory

Indian Basin Upper Penn Assoc

11. Sec., T., R., M., on Block and
Survey or Area

Section 10-T22S-R24E

12. County or Parish 13. State

Eddy

New Mexico

14. Date Spudded
RH 4/17/03 RT 4/24/03

15. Date T.D. Reached
5/31/03

16. Date Completed 6/24/03
☐ D & A ☒ Ready to Prod.

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

4001'GL 4019'KB

18. Total Depth: MD 10,650'
TVD NA

19. Plug Back T.D.: MD 10,601'
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

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
14-3/4"	9-5/8"	36#	Surface	1610'		1180 sx		Surface	
8-3/4"	7"	23#, 26#	Surface	8844'		985 sx		2400'	
6-1/8"	4-1/2"	11.6#	8550'	10,650'		165 sx		8450'	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
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25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Canyon	8152'	8206'	8152'-8174'		45	Producing
B)			8188'-8206'		37	Producing
C)						
D)						

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

Depth Interval 8152'-8206' Amount and Type of Material Acidize w/32,500g 20% IC HCL acid with 123 ball sealers

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
6/25/03	7/13/03	24	⇒	275	334	3860	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	125 psi	NA	⇒	275	334	3860	NA	ES BABYAK PETROLEUM ENGINEER 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
				Bone Spring	1978'
				2nd Bone Spring	3768'
				3rd Bone Spring	7236'
				Wolfcamp	7531'
				Upper Penn	8110'
				Upper Penn Dolomite	8160'
				Strawn	9076'
				Atoka	9652'
				Morrow	10142'
				Base Morrow	10568'

32. Additional remarks (include plugging procedure):

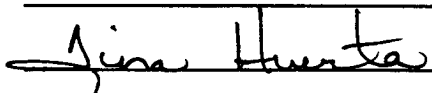
33. Circle enclosed attachments:

- ☒ 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 HuertaTitle Regulatory Compliance Supervisor

Signature


Date July 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: WALT CANYON AMA FED. 7
COUNTY: EDDY

503-0243

STATE OF NEW MEXICO
DEVIATION REPORT

225	1/4
462	1
698	1/2
904	1 1/4
1,154	3/4
1,566	1/4
1,778	1 1/4
2,031	1/2
2,281	1
2,539	1
2,791	1 1/2
3,041	1 1/4
3,298	2



By: Steve Moore

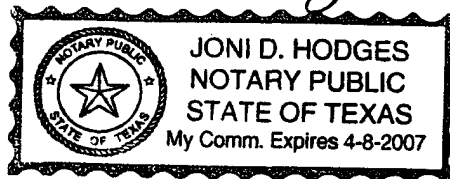
STATE OF TEXAS

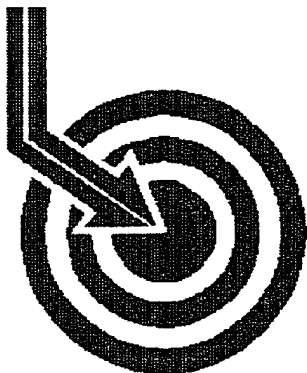
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 5th day of June, 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: Walt Canyon AMA Fed. #7
Wellpath: VH - Job #32K0503209
Survey: 05/02/03

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

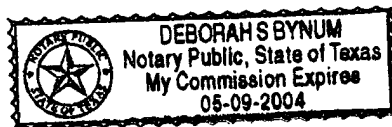
[Signature]

Company Representative

Notorized this date 27th of May, 2003.

[Signature: Deborah S Bynum]

Notary Signature
County of Midland
State of Texas



Scientific Drilling Survey Report

Company: YATES PETROLEUM Field: Indian Basin Site: Eddy County, NM Well: Walt Canyon AMA Fed. #7 Wellpath: VH - Job #32K0503209	Date: 5/27/2003 Time: 11:27:07 Page: 1 Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,0.00Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey: 05/02/03 KSRG 0'-3481' Company: Scientific Drilling Tool: Keeper, Keeper Gyro	Start Date: 5/2/2003 Engineer: Angel Guebara Tied-to: From Surface
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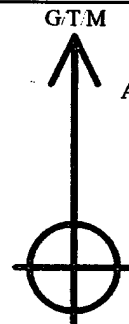
Survey

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	0.24	338.55	100.0	0.2	0.2	-0.1	0.24	0.2	338.55
200.0	0.24	339.90	200.0	0.6	0.6	-0.2	0.01	0.6	339.00
300.0	0.26	331.58	300.0	1.0	1.0	-0.4	0.04	1.1	337.60
400.0	0.20	338.07	400.0	1.3	1.3	-0.6	0.06	1.5	336.73
500.0	0.18	333.31	500.0	1.6	1.6	-0.7	0.03	1.8	336.56
600.0	0.23	331.92	600.0	2.0	2.0	-0.9	0.05	2.2	335.89
700.0	0.29	4.18	700.0	2.4	2.4	-1.0	0.16	2.6	338.25
800.0	0.32	11.15	800.0	2.9	2.9	-0.9	0.05	3.1	343.18
900.0	0.48	38.47	900.0	3.5	3.5	-0.6	0.24	3.6	350.82
1000.0	0.45	28.56	1000.0	4.2	4.2	-0.1	0.09	4.2	358.35
1100.0	0.66	36.98	1100.0	5.0	5.0	0.4	0.22	5.0	4.72
1200.0	0.74	16.23	1200.0	6.1	6.1	0.9	0.26	6.1	8.79
1300.0	0.85	40.78	1300.0	7.3	7.3	1.6	0.35	7.4	12.46
1400.0	0.84	58.30	1400.0	8.2	8.2	2.7	0.26	8.6	18.29
1500.0	0.49	56.59	1499.9	8.8	8.8	3.7	0.35	9.6	22.70
1600.0	0.36	349.96	1599.9	9.4	9.4	4.0	0.48	10.2	23.09
1700.0	0.36	358.35	1699.9	10.0	10.0	3.9	0.05	10.7	21.47
1800.0	0.49	322.51	1799.9	10.6	10.6	3.7	0.29	11.3	18.98
1900.0	0.38	301.59	1899.9	11.2	11.2	3.1	0.19	11.6	15.61
2000.0	0.52	293.45	1999.9	11.5	11.5	2.4	0.15	11.8	11.87
2100.0	0.36	304.45	2099.9	11.9	11.9	1.7	0.18	12.0	8.37
2200.0	0.58	282.62	2199.9	12.2	12.2	1.0	0.28	12.2	4.67
2300.0	0.58	277.92	2299.9	12.3	12.3	0.0	0.05	12.3	0.00
2400.0	0.62	289.37	2399.9	12.6	12.6	-1.0	0.13	12.6	355.41
2500.0	0.55	272.92	2499.9	12.8	12.8	-2.0	0.18	12.9	351.11
2600.0	0.79	272.26	2599.9	12.8	12.8	-3.2	0.24	13.2	346.14
2700.0	0.61	277.57	2699.9	12.9	12.9	-4.4	0.19	13.7	341.28
2800.0	0.94	267.68	2799.9	13.0	13.0	-5.7	0.35	14.2	336.17
2900.0	0.89	278.32	2899.9	13.1	13.1	-7.3	0.18	15.0	330.72
3000.0	1.05	286.37	2999.9	13.4	13.4	-9.0	0.21	16.1	326.26
3100.0	1.00	289.87	3099.8	14.0	14.0	-10.7	0.08	17.6	322.66
3200.0	0.96	296.86	3199.8	14.7	14.7	-12.2	0.13	19.1	320.14
3300.0	0.94	298.14	3299.8	15.4	15.4	-13.7	0.03	20.6	318.37
3400.0	0.90	294.23	3399.8	16.1	16.1	-15.1	0.07	22.1	316.80
3481.0	0.86	291.70	3480.8	16.6	16.6	-16.3	0.07	23.3	315.57



**Scientific
Drilling**

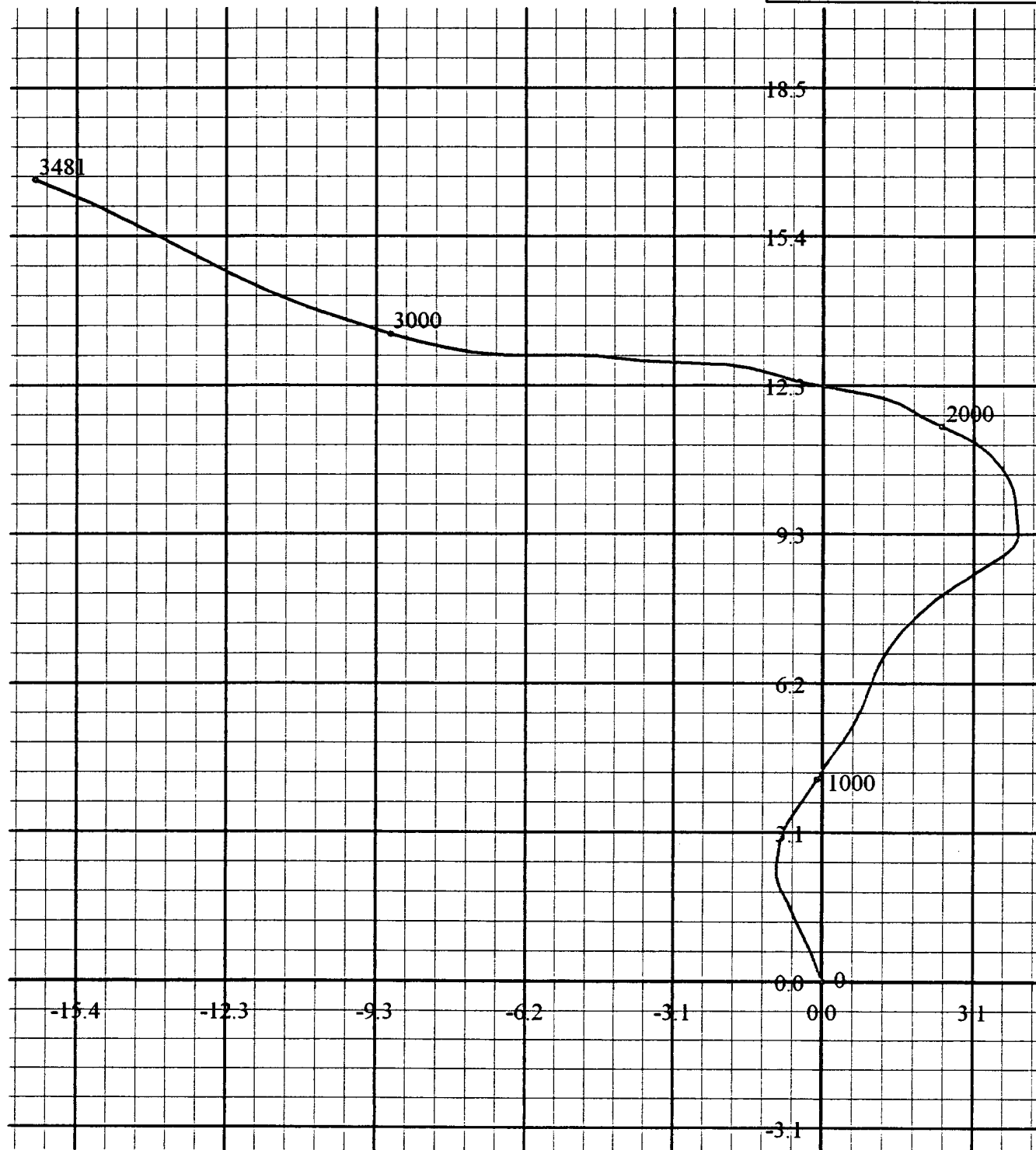
Field: Indian Basin
Site: Eddy County, NM
Well: Walt Canyon AMA Fed. #7
Wellpath: VH - Job #32K0503209
Survey: 05/02/03



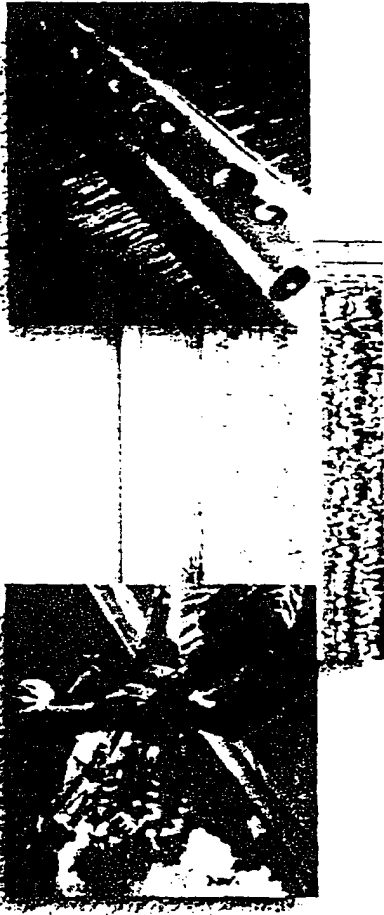
Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 5/27/2003
Model: igrf2000

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



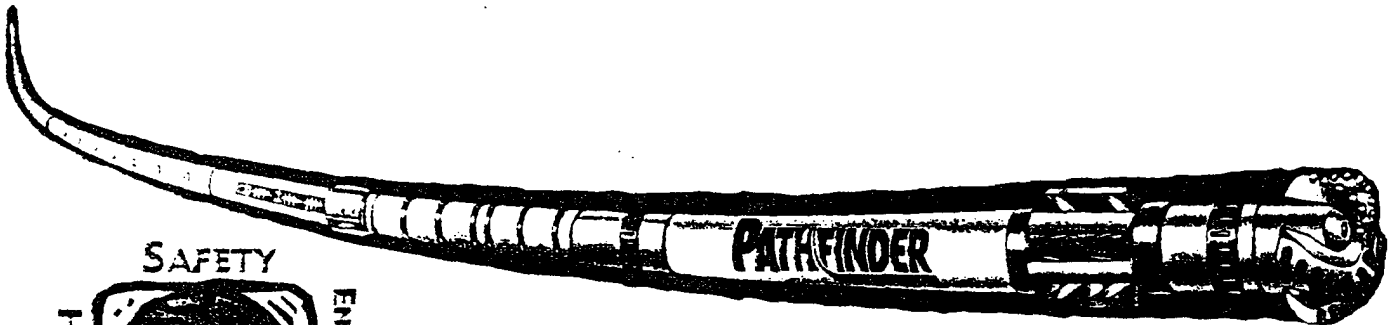
West(-)/East(+) [ft]



Walt Canyon "AMA" Fed. #7
Proposal For: Yates Petroleum
Mr. Tim Bussell

Ron Welch / Directional Coordinator
PathFinder Energy Services

Date 4/7/03
Quote No. 04080301353RW



PathFinder Energy Services

Proposal Report

Page 1
 Proposal No: 1
 Date: 4/16/2003
 Time: 7:42 am
 Wellpath ID: Proposal
 Last Revision: 4/11/2003

Calculated using the Minimum Curvature Method
 Computed using PDS VER2.2.6
 Vertical Section Plane: 58.77 deg.

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

Yates Petroleum
 Eddy, Co. New Mexico
 Indian Basin
 Walt Canyon "AMA" Fed. #7
 Proposal #1

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft) (ft)		DLS (dg/100ft)	Build Rate (dg/100ft)
KOP / TIE IN / START OF BUILD @ 1.50 deg/100 ft / Bone Springs									
3500.00	0.00	0.00	0.00	3500.00	0.00	0.00 N	0.00 E	0.00	0.00
3600.00	1.50	58.77	100.00	3599.99	1.31	0.68 N	1.12 E	1.50	1.50
3700.00	3.00	58.77	100.00	3699.91	5.23	2.71 N	4.48 E	1.50	1.50
3800.00	4.50	58.77	100.00	3799.69	11.77	6.11 N	10.07 E	1.50	1.50
3900.00	6.00	58.77	100.00	3899.27	20.92	10.85 N	17.89 E	1.50	1.50
4000.00	7.50	58.77	100.00	3998.57	32.68	16.94 N	27.94 E	1.50	1.50
4100.00	9.00	58.77	100.00	4097.54	47.03	24.38 N	40.21 E	1.50	1.50
4200.00	10.50	58.77	100.00	4196.09	63.96	33.16 N	54.69 E	1.50	1.50
2nd Bone Springs									
4224.33	10.87	58.77	24.33	4220.00	68.47	35.50 N	58.55 E	1.50	1.50
4300.00	12.00	58.77	75.67	4294.16	83.47	43.28 N	71.37 E	1.50	1.50
4400.00	13.50	58.77	100.00	4391.70	105.54	54.72 N	90.24 E	1.50	1.50
4500.00	15.00	58.77	100.00	4488.62	130.15	67.49 N	111.29 E	1.50	1.50
4600.00	16.50	58.77	100.00	4584.86	157.30	81.56 N	134.50 E	1.50	1.50
END OF BUILD									
4622.46	16.84	58.77	22.46	4606.38	163.74	84.90 N	140.01 E	1.50	1.50
4722.46	16.84	58.77	100.00	4702.09	192.70	99.92 N	164.78 E	0.00	0.00
4822.46	16.84	58.77	100.00	4797.80	221.67	114.94 N	189.54 E	0.00	0.00
4922.46	16.84	58.77	100.00	4893.52	250.63	129.95 N	214.31 E	0.00	0.00
5022.46	16.84	58.77	100.00	4989.23	279.60	144.97 N	239.08 E	0.00	0.00
5122.46	16.84	58.77	100.00	5084.94	308.56	159.99 N	263.85 E	0.00	0.00
5222.46	16.84	58.77	100.00	5180.66	337.53	175.01 N	288.61 E	0.00	0.00
5322.46	16.84	58.77	100.00	5276.37	366.49	190.03 N	313.38 E	0.00	0.00
5422.46	16.84	58.77	100.00	5372.08	395.46	205.05 N	338.15 E	0.00	0.00
5522.46	16.84	58.77	100.00	5467.80	424.42	220.06 N	362.91 E	0.00	0.00
5622.46	16.84	58.77	100.00	5563.51	453.39	235.08 N	387.68 E	0.00	0.00
5722.46	16.84	58.77	100.00	5659.22	482.35	250.10 N	412.45 E	0.00	0.00

PathFinder Energy Services

Proposal Report

Page 2
Date: 4/16/2003
Wellpath ID: Proposal

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft)		DLS (dg/100ft)	Build Rate (dg/100ft)
5822.46	16.84	58.77	100.00	5754.94	511.32	265.12 N	437.22 E	0.00	0.00
5922.46	16.84	58.77	100.00	5850.65	540.28	280.14 N	461.98 E	0.00	0.00
6022.46	16.84	58.77	100.00	5946.36	569.25	295.16 N	486.75 E	0.00	0.00
6122.46	16.84	58.77	100.00	6042.08	598.21	310.18 N	511.52 E	0.00	0.00
6222.46	16.84	58.77	100.00	6137.79	627.18	325.19 N	536.28 E	0.00	0.00
6322.46	16.84	58.77	100.00	6233.50	656.14	340.21 N	561.05 E	0.00	0.00
6422.46	16.84	58.77	100.00	6329.22	685.11	355.23 N	585.82 E	0.00	0.00
6522.46	16.84	58.77	100.00	6424.93	714.07	370.25 N	610.59 E	0.00	0.00
6622.46	16.84	58.77	100.00	6520.64	743.04	385.27 N	635.35 E	0.00	0.00
6722.46	16.84	58.77	100.00	6616.36	772.00	400.29 N	660.12 E	0.00	0.00
6822.46	16.84	58.77	100.00	6712.07	800.97	415.30 N	684.89 E	0.00	0.00
START OF CURVE @ 1.50 deg/100 ft									
6907.67	16.84	58.77	85.21	6793.63	825.65	428.10 N	705.99 E	0.00	0.00
7007.67	15.34	58.77	100.00	6889.71	853.36	442.47 N	729.68 E	1.50	-1.50
7107.67	13.84	58.77	100.00	6986.48	878.54	455.53 N	751.22 E	1.50	-1.50
3rd Bone Springs									
7188.33	12.63	58.77	80.66	7065.00	897.00	465.10 N	767.00 E	1.50	-1.50
7207.67	12.34	58.77	19.34	7083.88	901.18	467.27 N	770.58 E	1.50	-1.50
7307.67	10.84	58.77	100.00	7181.84	921.27	477.68 N	787.75 E	1.50	-1.50
7407.67	9.34	58.77	100.00	7280.29	938.78	486.76 N	802.73 E	1.50	-1.50
7507.67	7.84	58.77	100.00	7379.17	953.71	494.50 N	815.49 E	1.50	-1.50
7607.67	6.34	58.77	100.00	7478.40	966.05	500.90 N	826.04 E	1.50	-1.50
7707.67	4.84	58.77	100.00	7577.92	975.78	505.95 N	834.37 E	1.50	-1.50
7807.67	3.34	58.77	100.00	7677.67	982.91	509.64 N	840.46 E	1.50	-1.50
7907.67	1.84	58.77	100.00	7777.56	987.42	511.98 N	844.32 E	1.50	-1.50
8007.67	0.34	58.77	100.00	7877.54	989.32	512.97 N	845.94 E	1.50	-1.50
Cisco Canyon (7935 TVD) / 100'S & 100'W of hard.									
8030.13	0.00	0.00	22.46	7900.00	989.39	513.00 N	846.00 E	1.50	-1.50
Base of Dolomite									
8555.13	0.00	0.00	525.00	8425.00	989.39	513.00 N	846.00 E	0.00	0.00
Strawn									
8965.13	0.00	0.00	410.00	8835.00	989.39	513.00 N	846.00 E	0.00	0.00
Atoka									
9720.13	0.00	0.00	755.00	9590.00	989.39	513.00 N	846.00 E	0.00	0.00
Morrow									
10185.13	0.00	0.00	465.00	10055.00	989.39	513.00 N	846.00 E	0.00	0.00
Chester									
10455.13	0.00	0.00	270.00	10325.00	989.39	513.00 N	846.00 E	0.00	0.00
PBHL									
10580.13	0.00	0.00	125.00	10450.00	989.39	513.00 N	846.00 E	0.00	0.00



DIRECTIONAL SURVEY REPORT

YATES PETROLEUM

WALT CANYON "AMA" FEDERAL COM #7

EDDY COUNTY, NEW MEXICO

PREPARED BY: DAVID M. YOUNG

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

DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY: A) TRACY GANDY
3. POSITION OF SAID PERSON(S): (A) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 05/03/03 TO 05/16/03
5. STATE IN WHICH SURVEY WAS PERFORMED: LAND, NEW MEXICO
6. LOCATION OF WELL: EDDY COUNTY, NEW MEXICO
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

YATES PETROLEUM
WALT CANYON "AMA" FEDERAL COM #7
EDDY COUNTY, NEW MEXICO
RIG: PATTERSON UTI #503

9. SURVEY CERTIFIED FROM: 3,535 TO 8,332 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE
DISPLACED AT 995.02 FEET ON A BEARING OF 59.13 DEGREES FROM THE
CENTER OF THE ROTARY TABLE AT PROJECTED MEASURED DEPTH OF 8,371
FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



DAVID M. YOUNG
SERVICE COORDINATOR

Pathfinder Energy Services

BHL Report

Page 1
Job No: J-WT-0305-0010
Date: 6/17/2003
Time: 2:45 pm
Wellpath ID: WALT CANYON "AMA" FEDERAL
Date Created: 5/2/2003
Last Revision: 5/16/2003

Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 58.77 deg.

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

YATES PETROLEUM CORP.
WALT CANYON "AMA" FEDERAL COM #7
EDDY COUNTY, NM.
RIG: PATTERSON UTI #503

DECL: 9.1° EAST TO TRUE
KBH=18 FEET ROTARY TO GROUND

MWD OFFICE SUPERVISOR
GLEN COYLE
MWD FIELD ENGINEER
TRACY GANDY

Measured Depth	8371.00	(ft)
Inclination	1.32	(deg)
Azimuth	197.80	(deg)
True Vertical Depth	8237.79	(ft)
Vertical Section	995.00	(ft)
Rectangular Offsets		
North/South	510.53 N	(ft)
East/West	854.06 E	(ft)
Closure Dist & Dir	995.02@ 59.13	(deg)
Dogleg Severity	0.00	(deg/100ft)
Build Rate	0.00	(deg/100ft)
Walk Rate	0.00	(deg/100ft)

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Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft) (ft)		Closure Dist. Dir. (ft) (deg.)	DLS (dg/100ft)
TIED INTO SCIENTIFIC MULTI SHOT @ 3841 FEET MD									
3481.00	0.86	291.70	3480.79	0.00	-5.32	16.61 N	16.29W	23.26@315.56	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS									
3535.00	0.70	12.26	3534.79	54.00	-5.33	17.08 N	16.60W	23.82@315.83	1.88
3598.00	1.85	42.06	3597.77	63.00	-4.10	18.21 N	15.83W	24.13@319.00	2.05
3662.00	2.73	48.30	3661.72	64.00	-1.61	19.99 N	14.00W	24.41@324.99	1.43
3725.00	3.61	53.92	3724.62	63.00	1.84	22.16 N	11.28W	24.87@333.02	1.48
3789.00	4.75	54.19	3788.45	64.00	6.49	24.90 N	7.50W	26.00@343.23	1.78
3853.00	5.98	55.42	3852.17	64.00	12.46	28.34 N	2.61W	28.46@354.74	1.93
3916.00	6.86	58.49	3914.77	63.00	19.50	32.17 N	3.30 E	32.34@ 5.86	1.50
3979.00	7.73	57.35	3977.26	63.00	27.50	36.42 N	10.08 E	37.79@ 15.46	1.40
4042.00	8.62	59.29	4039.62	63.00	36.46	41.12 N	17.70 E	44.77@ 23.29	1.48
4105.00	9.23	59.29	4101.86	63.00	46.23	46.11 N	26.11 E	52.99@ 29.52	0.97
4168.00	10.02	58.41	4163.97	63.00	56.76	51.56 N	35.12 E	62.39@ 34.26	1.28
4232.00	10.99	58.58	4226.90	64.00	68.43	57.66 N	45.07 E	73.18@ 38.01	1.52
4295.00	11.87	59.20	4288.65	63.00	80.92	64.11 N	55.76 E	84.96@ 41.02	1.41
4359.00	12.93	59.90	4351.15	64.00	94.66	71.07 N	67.61 E	98.09@ 43.57	1.67
4422.00	13.72	60.69	4412.46	63.00	109.17	78.26 N	80.22 E	112.07@ 45.71	1.29
4485.00	14.77	60.60	4473.52	63.00	124.67	85.86 N	93.73 E	127.11@ 47.51	1.67
4549.00	16.09	60.87	4535.21	64.00	141.68	94.18 N	108.59 E	143.74@ 49.06	2.07
4613.00	16.90	59.60	4596.58	64.00	159.85	103.21 N	124.36 E	161.61@ 50.31	1.39
4676.00	17.00	58.93	4656.84	63.00	178.21	112.59 N	140.14 E	179.77@ 51.22	0.35
4739.00	17.06	59.07	4717.08	63.00	196.66	122.10 N	155.96 E	198.07@ 51.94	0.12
4802.00	17.24	59.64	4777.28	63.00	215.24	131.57 N	171.94 E	216.50@ 52.58	0.39
4865.00	17.67	60.78	4837.38	63.00	234.13	140.95 N	188.34 E	235.25@ 53.19	0.87
4928.00	17.32	60.08	4897.46	63.00	253.06	150.30 N	204.81 E	254.04@ 53.73	0.65
4991.00	16.88	60.43	4957.68	63.00	271.58	159.49 N	220.90 E	272.46@ 54.17	0.72
5054.00	16.71	60.60	5017.99	63.00	289.77	168.45 N	236.74 E	290.56@ 54.57	0.28

Pathfinder Energy Services

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Date: 6/17/2003

Survey Report

Wellpath ID: WALT CANYON "AMA" FEDERAL

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		Closure Dist. (ft)	Dir. (deg.)	DLS (dg/100ft)
5117.00	17.32	60.52	5078.23	63.00	308.20	177.51 N	252.80 E	308.90@	54.92	0.97
5180.00	17.24	60.87	5138.39	63.00	326.90	186.67 N	269.12 E	327.52@	55.25	0.21
5244.00	16.90	61.52	5199.57	64.00	345.67	195.72 N	285.58 E	346.21@	55.58	0.61
5306.00	16.18	61.66	5259.00	62.00	363.30	204.12 N	301.10 E	363.77@	55.87	1.16
5369.00	16.00	60.52	5319.54	63.00	380.75	212.56 N	316.39 E	381.16@	56.11	0.58
5433.00	15.92	59.90	5381.07	64.00	398.34	221.30 N	331.66 E	398.71@	56.29	0.29
5497.00	16.53	60.69	5442.52	64.00	416.21	230.16 N	347.19 E	416.55@	56.46	1.01
5560.00	16.97	61.83	5502.85	63.00	434.35	238.89 N	363.11 E	434.65@	56.66	0.87
5623.00	16.80	61.66	5563.13	63.00	452.63	247.55 N	379.23 E	452.88@	56.86	0.28
5686.00	16.62	60.87	5623.47	63.00	470.72	256.26 N	395.11 E	470.94@	57.03	0.46
5749.00	16.80	61.22	5683.81	63.00	488.82	265.03 N	410.96 E	489.01@	57.18	0.33
5812.00	16.53	60.87	5744.16	63.00	506.88	273.77 N	426.77 E	507.04@	57.32	0.46
5874.00	16.36	61.13	5803.63	62.00	524.41	282.28 N	442.12 E	524.55@	57.44	0.30
5937.00	16.18	61.75	5864.10	63.00	542.04	290.72 N	457.63 E	542.16@	57.57	0.40
5997.00	15.65	64.56	5921.81	60.00	558.45	298.16 N	472.30 E	558.54@	57.74	1.56
6060.00	16.88	64.21	5982.28	63.00	576.01	305.79 N	488.21 E	576.07@	57.94	1.96
6123.00	16.88	57.70	6042.57	63.00	594.26	314.65 N	504.18 E	594.31@	58.03	3.00
6186.00	16.36	60.69	6102.94	63.00	612.27	323.88 N	519.64 E	612.32@	58.07	1.59
6249.00	16.88	62.27	6163.31	63.00	630.27	332.48 N	535.48 E	630.30@	58.16	1.09
6313.00	16.80	61.13	6224.57	64.00	648.78	341.27 N	551.80 E	648.81@	58.26	0.53
6376.00	16.62	59.29	6284.91	63.00	666.89	350.27 N	567.52 E	666.91@	58.32	0.89
6439.00	16.36	59.81	6345.32	63.00	684.77	359.33 N	582.94 E	684.79@	58.35	0.47
6503.00	16.27	60.87	6406.74	64.00	702.74	368.23 N	598.56 E	702.76@	58.40	0.49
6566.00	17.32	60.16	6467.05	63.00	720.94	377.19 N	614.40 E	720.95@	58.45	1.70
6629.00	17.67	61.66	6527.14	63.00	739.86	386.40 N	630.95 E	739.87@	58.52	0.91
6692.00	16.09	62.19	6587.42	63.00	758.13	395.01 N	647.09 E	758.13@	58.60	2.52
6756.00	16.44	62.10	6648.86	64.00	776.02	403.39 N	662.94 E	776.02@	58.68	0.55
6818.00	17.94	59.29	6708.09	62.00	794.33	412.37 N	678.90 E	794.33@	58.73	2.76
6881.00	17.85	57.97	6768.04	63.00	813.68	422.44 N	695.43 E	813.69@	58.72	0.66
6944.00	16.80	58.41	6828.18	63.00	832.44	432.33 N	711.37 E	832.44@	58.71	1.68
7008.00	16.00	58.85	6889.58	64.00	850.51	441.74 N	726.80 E	850.51@	58.71	1.26
7071.00	15.21	58.58	6950.25	63.00	867.46	450.54 N	741.28 E	867.46@	58.71	1.26
7134.00	14.16	58.32	7011.20	63.00	883.43	458.90 N	754.89 E	883.43@	58.70	1.67
7197.00	13.45	59.55	7072.38	63.00	898.46	466.66 N	767.77 E	898.46@	58.71	1.22
7260.00	12.84	60.52	7133.72	63.00	912.79	473.82 N	780.18 E	912.79@	58.73	1.03
7324.00	12.13	59.46	7196.21	64.00	926.62	480.73 N	792.16 E	926.62@	58.75	1.17
7387.00	11.34	58.58	7257.89	63.00	939.43	487.32 N	803.15 E	939.43@	58.75	1.29
7450.00	10.46	59.72	7319.76	63.00	951.34	493.44 N	813.37 E	951.34@	58.76	1.44
7512.00	9.23	60.52	7380.84	62.00	961.94	498.72 N	822.56 E	961.94@	58.77	2.00
7576.00	8.18	60.34	7444.10	64.00	971.62	503.50 N	830.99 E	971.62@	58.79	1.64
7639.00	6.86	56.65	7506.56	63.00	979.86	507.79 N	838.02 E	979.86@	58.79	2.23
7702.00	5.40	62.98	7569.20	63.00	986.58	511.20 N	843.81 E	986.58@	58.79	2.55
7765.00	3.52	58.41	7632.01	63.00	991.47	513.56 N	848.10 E	991.47@	58.80	3.03
7829.00	2.46	54.28	7695.92	64.00	994.80	515.39 N	850.88 E	994.80@	58.80	1.69
7892.00	1.41	70.89	7758.88	63.00	996.91	516.44 N	852.72 E	996.91@	58.80	1.87

Pathfinder Energy Services

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Date: 6/17/2003

Survey Report

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7954.00	0.97	79.32	7820.87	62.00	998.15	516.78 N	853.95 E	998.15@	58.82	0.76
8017.00	0.79	94.79	7883.86	63.00	999.00	516.85 N	854.91 E	999.00@	58.84	0.47
8081.00	0.79	167.92	7947.86	64.00	999.21	516.38 N	855.44 E	999.21@	58.88	1.47
8144.00	1.49	200.35	8010.84	63.00	998.43	515.19 N	855.25 E	998.43@	58.94	1.47
8208.00	1.06	197.01	8074.83	64.00	997.33	513.84 N	854.78 E	997.34@	58.99	0.68
8271.00	1.14	182.95	8137.82	63.00	996.55	512.66 N	854.58 E	996.56@	59.04	0.45
8332.00	1.32	197.80	8198.80	61.00	995.67	511.38 N	854.34 E	995.65@	59.10	0.60
STRAIGHT LINE PROJECTION TO BIT @ 8371 FEET MD										
8371.00	1.32	197.80	8237.79	39.00	995.00	510.53 N	854.06 E	995.02@	59.13	0.00