

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other		5. Lease Serial No. NM-100831
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr., Other:		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. Samuel Smith Unit #1
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At Surface 1400'FSL & 1170'FEL (Unit I, NESE) At top prod. Interval reported below Same as above At total depth 1000'FSL & 760'FWL (Unit M, SWSW)		9. API Well No. 30-015-32581 S1 10. Field and Pool, or Exploratory Crooked Creek Morrow 11. Sec., T., R., M., on Block and Survey or Area Surf. 32-T23S-R24E BH 33-T23S-R24E 12. County or Parish Eddy 13. State New Mexico

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JUN 23 2004

OCD-ARTESIA

14. Date Spudded RH 2/22/04 RT 2/27/04	15. Date T.D. Reached 4/18/04	16. Date Completed ☐ D & A ☐ Ready to Prod. 6/17/04	17. Elevations (DF, RKB, RT, GL)* 4173'GL 4191'KB
18. Total Depth: MD 10,730' TVD NA	19. Plug Back T.D.: MD 10,635' TVD NA	20. Depth Bridge Plug Set: MD 10,635' composite TVD NA	

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CNL, High Resolution Laterolog Array, Borehole Compensated Sonic, CBL	22. Was Well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit report) Directional Survey? ☒ No ☐ Yes (Submit copy)
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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"	Conductor	Surface	40'				Surface	
17-1/2"	13-3/8"	48#	Surface	430'		450 sx		Surface	
12-1/4"	9-5/8"	36#	Surface	2382'		871 sx		Surface	
8-3/4"	7"	26#	Surface	9300'		1385 sx		Surface	
6-1/8"	4-1/2"	11.6#	Surface	10,730'		180 sx		8400' CBL	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-3/8"	10,233'	10,233'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Morrow	10,346'	10,618'	10,596'-10,604'		49	Producing
B)			10,610'-10,618'		49	Producing
C)			10,346'-10,500'		341	Producing
D)						

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

Depth Interval	Amount and Type of Material
10,596'-10,618'	Acidize w/1000g 7-1/2% MSA acid and 147 ball sealers
	Frac w/20,200# Ceramic 20/40 sand
10,346'-10,500'	Acidize w/2400g 7-1/2% Morrow acid
	Frac w/20,400# prop

ACCEPTED FOR RECORD

JUN 22 2004

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
	6/15/04	24	⇒	0	3784	0	NA	NA	
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
3/8"	1100 psi	Packer	⇒	0	3784	0	NA	SIWOPL	

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 if produced

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

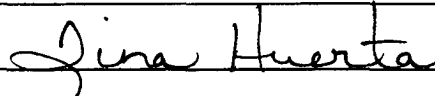
Formation	Top	Bottom	Description, Contents, etc.	Name	Top
					Meas Depth
				1st Bone Spring	2374'
				2nd Bone Spring	5956'
				3rd Bone Spring	7615'
				Wolfcamp	7978'
				Upper Penn	8718'
				Strawn	9328'
				Atoka	9768'
				Morrow	10,221'

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 SupervisorSignature  Date June 16, 2004

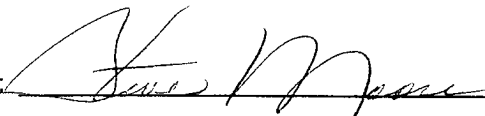
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OPERATOR: YATES PETROLEUM CORP
WELL/LEASE: SAMUEL SMITH UNIT #1
COUNTY: EDDY, NM

510-5054

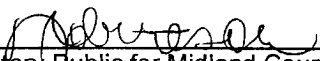
STATE OF NEW MEXICO
DEVIATION REPORT

194	2.00	4323	20.80	6399	23.83	8360	12.27	10216	2.81
410	2.00	4387	21.00	6462	23.90	8422	11.08	10248	2.20
545	2.00	4450	20.90	6525	24.40	8485	10.99	10280	2.64
670	1.00	4514	20.90	6588	24.30	8548	9.10	10312	2.11
922	2.00	4576	21.37	6652	24.89	8611	8.71	10344	1.06
1049	1.25	4639	22.07	6715	24.80	8666	8.71	10375	0.26
1270	0.75	4767	24.09	6778	24.71	8738	7.65	10534	1.75
1523	1.00	4830	24.45	6841	25.06	8801	6.68	10630	3.75
1774	1.00	4893	24.00	6904	24.70	8865	5.98	10730	4.00
2058	1.00	4956	23.92	6968	24.70	8927	5.10		
2333	1.25	5019	23.73	7031	24.53	8991	3.87		
2419	1.50	5082	23.83	7094	24.36	9055	2.20		
2824	1.00	5146	22.77	7157	24.27	9177	2.55		
3059	1.76	5209	21.81	7221	24.36	9180	2.02		
3121	2.90	5272	21.54	7284	24.53	9243	2.20		
3184	4.40	5336	21.72	7347	24.36	9260	1.76		
3247	5.72	5399	23.04	7410	24.18	9387	3.00		
3310	7.20	5462	24.18	7473	24.71	9482	4.50		
3374	8.40	5526	24.97	7537	25.06	9405	4.31		
3436	9.80	5653	24.36	7600	24.36	9494	5.19		
3500	11.26	5716	25.24	7664	24.09	9517	5.28		
3564	12.49	5780	25.94	7727	23.04	9549	5.10		
3688	14.42	5830	26.00	7790	21.63	9581	4.66		
3752	15.39	5893	25.70	7854	20.20	9631	3.87		
3815	16.27	5956	25.76	7917	19.08	9645	2.99		
3878	16.88	6019	25.59	7981	18.29	9677	2.55		
3942	17.20	6083	25.94	8044	16.53	9709	1.76		
4006	17.32	6146	26.56	8107	15.10	9740	1.76		
4069	17.59	6210	26.12	8171	14.30	9772	0.62		
4133	18.20	6272	24.10	8233	13.50	9874	0.50		
4196	19.26	6336	23.65	8296	13.45	10129	4.00		

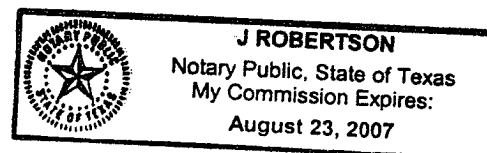
By: 

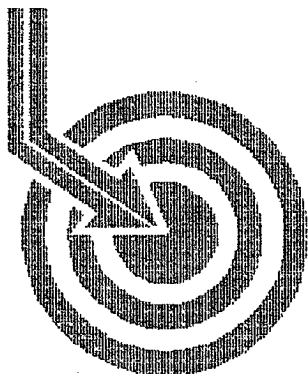
STATE OF TEXAS
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 30th day of April, 2004, by Steve Moore on behalf of Patterson-UTi Drilling Company LP, LLLP.


Notary Public for Midland County, Texas

My Commission Expires: 8/23/2007





Scientific Drilling

YATES PETROLEUM

Field: Crooked Creek
Site: Eddy County, NM
Well: Samuel Smith #1
Wellpath: VH - Job#32K0304160
Survey: 03/08/04

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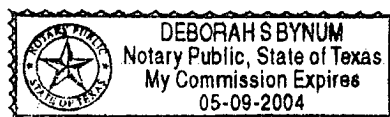
This survey is correct to the best of my knowledge
and is supported by actual field data.

David M. Mady Company Representative

Notorized this date 29th of March, 2004.

Deborah Sue Bynum
Notary Signature

County of Midland
State of Texas





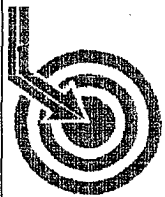
Scientific Drilling Survey Report

Company: YATES PETROLEUM	Date: 3/28/2004	Time: 07:58:54	Page: 1
Field: Crooked Creek	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE: 0.0	
Well: Samuel Smith #1	Section (VS) Reference:	Well: (0.00N,0.00E,101.71Azi)	
Wellpath: VH - Job#32K0304160	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 03/08/04	Start Date: 3/8/2004
Company: Scientific Drilling	Engineer: Gonzales/Webb
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	0.09	0.0	0.0	0.0	0.0	0.00	0.0	0.00
100.0	0.91	240.15	100.0	-0.6	-0.4	-0.7	0.91	0.8	240.15
200.0	1.33	258.08	200.0	-2.3	-1.0	-2.5	0.54	2.7	247.71
300.0	1.30	273.32	300.0	-4.4	-1.2	-4.8	0.35	4.9	255.86
400.0	1.17	277.81	399.9	-6.6	-1.0	-6.9	0.16	7.0	261.78
500.0	1.34	275.26	499.9	-8.8	-0.8	-9.1	0.18	9.1	265.26
600.0	1.12	264.44	599.9	-10.9	-0.7	-11.2	0.32	11.3	266.23
700.0	1.37	265.03	699.9	-12.9	-0.9	-13.4	0.25	13.4	265.99
800.0	1.28	274.95	799.8	-15.2	-0.9	-15.7	0.25	15.7	266.55
900.0	0.82	269.51	899.8	-17.0	-0.9	-17.5	0.47	17.6	267.20
1000.0	0.40	275.35	999.8	-18.0	-0.8	-18.6	0.42	18.6	267.44
1100.0	0.38	267.48	1099.8	-18.7	-0.8	-19.3	0.06	19.3	267.59
1200.0	0.40	259.37	1199.8	-19.4	-0.9	-19.9	0.06	20.0	267.44
1300.0	0.31	290.79	1299.8	-19.9	-0.9	-20.5	0.21	20.6	267.60
1400.0	0.21	228.89	1399.8	-20.3	-0.9	-20.9	0.28	21.0	267.58
1500.0	0.27	213.97	1499.8	-20.5	-1.2	-21.2	0.09	21.2	266.76
1600.0	0.45	213.17	1599.8	-20.8	-1.7	-21.6	0.18	21.6	265.43
1700.0	0.50	220.31	1699.8	-21.1	-2.4	-22.1	0.08	22.2	263.83
1800.0	0.37	195.28	1799.8	-21.3	-3.0	-22.4	0.23	22.6	262.30
1900.0	0.91	192.75	1899.8	-21.4	-4.1	-22.7	0.54	23.0	259.71
2000.0	0.91	208.16	1999.8	-21.6	-5.6	-23.2	0.24	23.9	256.47
2100.0	0.72	199.74	2099.8	-21.9	-6.9	-23.8	0.22	24.8	253.88
2200.0	0.84	194.38	2199.8	-22.0	-8.2	-24.2	0.14	25.6	251.32
2300.0	1.13	194.90	2299.7	-22.1	-9.8	-24.6	0.29	26.5	248.22
2400.0	1.29	202.25	2399.7	-22.4	-11.8	-25.3	0.22	28.0	244.94
2500.0	1.74	194.86	2499.7	-22.7	-14.4	-26.1	0.49	29.8	241.23
2600.0	1.67	191.80	2599.6	-22.8	-17.2	-26.8	0.11	31.9	237.27
2700.0	1.57	190.80	2699.6	-22.7	-20.0	-27.4	0.10	33.9	233.83
2800.0	1.59	177.21	2799.6	-22.4	-22.7	-27.6	0.37	35.7	230.48
2900.0	1.00	173.44	2899.5	-21.8	-25.0	-27.4	0.60	37.1	227.63
3000.0	0.65	181.32	2999.5	-21.4	-26.4	-27.3	0.37	38.0	225.94



Scientific
Drilling

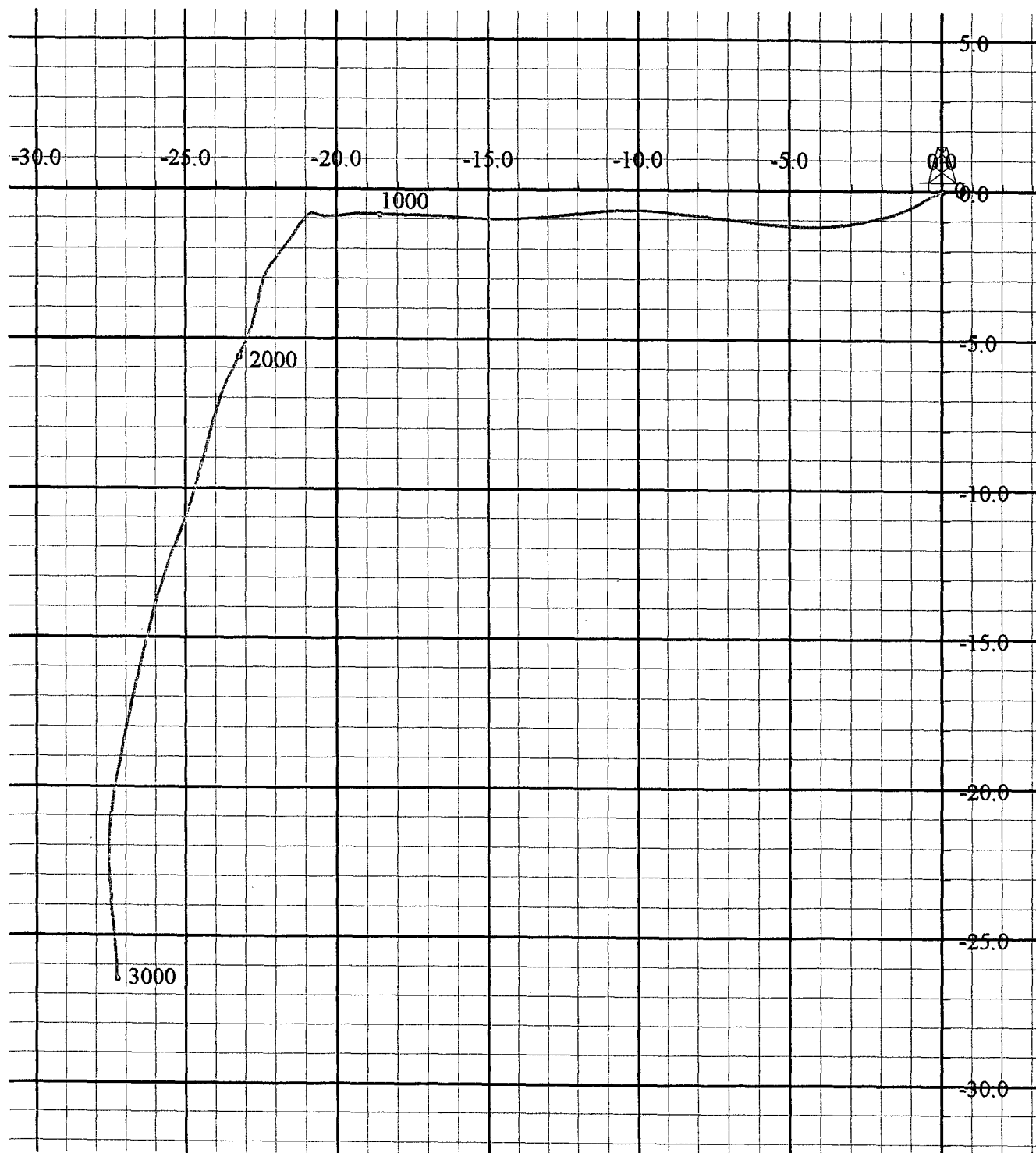
Field: Crooked Creek
Site: Eddy County, NM
Well: Samuel Smith #1
Wellpath: VH - Job#32K0304160
Survey: 03/08/04



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

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 3/28/2004
Model: igrf2000

West(-)/East(+) [5ft/in]



PathFinder

Survey Report

Company: Yates Petroleum Corp. Field: Samuel Smith Unit #1 Site: Samuel Smith Unit #1 Well: Samuel Smith Unit #1 Wellpath: Samuel Smith Unit #1	Date: 4/20/2004 Time: 06:17:13 Page: 1 Co-ordinate(NE) Reference: Well: Samuel Smith Unit #1, True North Vertical (TVD) Reference: System: Mean Sea Level Section (VS) Reference: Well (0.00N,0.00E,101.71Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Field: Samuel Smith Unit #1 Eddy County, New Mexico USA Map System: US State Plane Coordinate System 1927 Geo Datum: NAD27 (Clarke 1866) Sys Datum: Mean Sea Level	Map Zone: New Mexico, Eastern Zone Coordinate System: Well Centre Geomagnetic Model: igrf2000
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Site: Samuel Smith Unit #1

Site Position: From: Geographic Position Uncertainty: 0.00 ft Ground Level: 0.00 ft	Northing: 457239.09 ft Easting: 445559.24 ft	Latitude: 32 15 25.000 N Longitude: 104 30 34.000 W North Reference: True Grid Convergence: -0.09 deg
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Well: Samuel Smith Unit #1 Sec.32 Town 23S Range 24E Well Position: +N/-S 0.00 ft Northing: 457239.09 ft +E/-W 0.00 ft Easting: 445559.24 ft Position Uncertainty: 0.00 ft	Slot Name: Latitude: 32 15 25.000 N Longitude: 104 30 34.000 W
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Wellpath: Samuel Smith Unit #1 Current Datum: Mean Sea Level Magnetic Data: 1/30/2004 Field Strength: 49366 nT Vertical Section: Depth From (TVD) ft	Height 0.00 ft +N/-S ft	Drilled From: Surface Tie-on Depth: 0.00 ft Above System Datum: Mean Sea Level Declination: 9.04 deg Mag Dip Angle: 60.20 deg +E/-W ft Direction deg
0.00	0.00	0.00 101.71

Survey: MWD Survey Company: PathFinder Tool:	Start Date: 3/12/2004 Engineer: Robert Savage Tied-to: From: Scientific Survey
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Survey: MWD Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
3000.00	0.65	181.23	2999.52	-26.48	-27.28	-21.33	0.00	0.00	0.00	
3059.00	1.76	133.40	3058.51	-27.43	-26.62	-20.50	2.39	1.88	-81.07	
3121.00	2.90	127.25	3120.46	-29.04	-24.68	-18.28	1.88	1.84	-9.92	
3184.00	4.40	120.13	3183.33	-31.22	-21.33	-14.55	2.48	2.38	-11.30	
3247.00	5.72	118.46	3246.08	-33.92	-16.47	-9.25	2.11	2.10	-2.65	
3310.00	7.12	112.84	3308.68	-36.94	-10.12	-2.41	2.43	2.22	-8.92	
3374.00	8.44	109.59	3372.09	-40.05	-2.04	6.13	2.17	2.06	-5.08	
3436.00	9.85	108.53	3433.30	-43.26	7.28	15.91	2.29	2.27	-1.71	
3500.00	11.26	108.00	3496.22	-46.93	18.41	27.55	2.21	2.20	-0.83	
3564.00	12.49	105.37	3558.85	-50.70	31.03	40.67	2.10	1.92	-4.11	
3625.00	13.45	104.67	3618.29	-54.24	44.25	54.34	1.59	1.57	-1.15	
3688.00	14.42	101.85	3679.44	-57.71	59.02	69.50	1.88	1.54	-4.48	
3752.00	15.39	97.63	3741.29	-60.47	75.24	85.94	2.27	1.52	-6.59	
3815.00	16.27	96.93	3801.90	-62.65	92.28	103.08	1.43	1.40	-1.11	
3878.00	16.88	92.10	3862.28	-64.05	110.18	120.89	2.39	0.97	-7.67	
3942.00	17.24	97.37	3923.47	-65.61	128.88	139.51	2.48	0.56	8.23	
4006.00	17.32	92.18	3984.58	-67.18	147.80	158.36	2.41	0.12	-8.11	
4069.00	17.59	98.51	4044.69	-68.95	166.59	177.12	3.04	0.43	10.05	
4133.00	18.20	99.66	4105.59	-72.06	186.01	196.76	1.10	0.95	1.80	
4196.00	19.26	100.09	4165.26	-75.53	205.94	216.98	1.70	1.68	0.68	
4260.00	20.05	98.16	4225.53	-78.94	227.19	238.48	1.60	1.23	-3.02	
4323.00	20.84	96.58	4284.56	-81.75	249.01	260.42	1.53	1.25	-2.51	
4387.00	21.02	97.28	4344.33	-84.51	271.71	283.21	0.48	0.28	1.09	
4450.00	20.93	99.66	4403.16	-87.83	294.01	305.72	1.36	-0.14	3.78	

PathFinder

Survey Report

Company: Yates Petroleum Corp.
Field: Samuel Smith Unit #1
Site: Samuel Smith Unit #1
Well: Samuel Smith Unit #1
Wellpath: Samuel Smith Unit #1

Date: 4/20/2004 **Time:** 06:17:13 **Page:** 2
Co-ordinate(NE) Reference: Well: Samuel Smith Unit #1, True North
Vertical (TVD) Reference: System: Mean Sea Level
Section (VS) Reference: Well (0.00N,0.00E,101.71Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey: MWD Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
4514.00	20.93	101.41	4462.94	-92.01	316.48	328.57	0.98	0.00	2.73	
4576.00	21.37	101.24	4520.76	-96.40	338.42	350.94	0.72	0.71	-0.27	
4639.00	22.07	100.89	4579.29	-100.88	361.30	374.25	1.13	1.11	-0.56	
4703.00	23.21	100.89	4638.36	-105.53	385.49	398.89	1.78	1.78	0.00	
4767.00	24.09	100.36	4696.98	-110.26	410.73	424.56	1.41	1.37	-0.83	
4830.00	24.45	99.74	4754.41	-114.78	436.22	450.44	0.70	0.57	-0.98	
4893.00	24.01	98.69	4811.86	-118.92	461.74	476.27	0.98	-0.70	-1.67	
4956.00	23.92	98.95	4869.43	-122.85	487.03	501.83	0.22	-0.14	0.41	
5019.00	23.74	99.13	4927.06	-126.85	512.17	527.25	0.31	-0.29	0.29	
5082.00	23.83	100.01	4984.71	-131.07	537.22	552.64	0.58	0.14	1.40	
5146.00	22.77	100.80	5043.49	-135.64	562.12	577.95	1.73	-1.66	1.23	
5209.00	21.81	100.18	5101.78	-139.99	585.62	601.84	1.57	-1.52	-0.98	
5272.00	21.54	100.18	5160.33	-144.11	608.52	625.10	0.43	-0.43	0.00	
5336.00	21.72	99.22	5219.82	-148.08	631.77	648.68	0.62	0.28	-1.50	
5399.00	23.04	97.63	5278.08	-151.58	655.50	672.62	2.30	2.10	-2.52	
5462.00	24.18	97.99	5335.80	-155.01	680.49	697.79	1.82	1.81	0.57	
5526.00	24.97	99.39	5394.00	-159.04	706.80	724.37	1.53	1.23	2.19	
5589.00	24.27	100.36	5451.28	-163.54	732.66	750.60	1.28	-1.11	1.54	
5653.00	24.36	101.50	5509.60	-168.54	758.53	776.95	0.75	0.14	1.78	
5716.00	25.24	102.20	5566.79	-173.96	784.39	803.38	1.47	1.40	1.11	
5780.00	25.94	101.85	5624.51	-179.72	811.43	831.02	1.12	1.09	-0.55	
5830.00	26.03	101.24	5669.46	-184.11	832.89	852.92	0.56	0.18	-1.22	
5893.00	25.76	101.33	5726.13	-189.49	859.88	880.44	0.43	-0.43	0.14	
5956.00	25.76	100.80	5782.87	-194.75	886.75	907.82	0.37	0.00	-0.84	
6020.00	25.59	99.57	5840.55	-199.65	914.04	935.53	0.87	-0.27	-1.92	
6083.00	25.94	99.66	5897.29	-204.22	941.04	962.90	0.56	0.56	0.14	
6146.00	26.56	101.85	5953.79	-209.43	968.41	990.76	1.83	0.98	3.48	
6210.00	26.12	103.70	6011.15	-215.70	996.10	1019.14	1.46	-0.69	2.89	
6272.00	24.09	100.80	6067.29	-221.31	1021.79	1045.44	3.83	-3.27	-4.68	
6336.00	23.65	99.92	6125.82	-225.97	1047.26	1071.33	0.88	-0.69	-1.37	
6399.00	23.83	98.78	6183.49	-230.09	1072.29	1096.67	0.78	0.29	-1.81	
6462.00	23.92	98.42	6241.10	-233.90	1097.50	1122.13	0.27	0.14	-0.57	
6525.00	24.45	99.92	6298.57	-238.01	1122.98	1147.91	1.29	0.84	2.38	
6588.00	24.36	99.57	6355.94	-242.42	1148.63	1173.93	0.27	-0.14	-0.56	
6652.00	24.89	100.62	6414.12	-247.10	1174.89	1200.58	1.07	0.83	1.64	
6715.00	24.80	101.85	6471.29	-252.25	1200.85	1227.05	0.83	-0.14	1.95	
6778.00	24.71	101.59	6528.50	-257.61	1226.68	1253.43	0.22	-0.14	-0.41	
6841.00	25.06	101.59	6585.65	-262.94	1252.65	1279.94	0.56	0.56	0.00	
6904.00	24.71	100.89	6642.80	-268.11	1278.65	1306.45	0.73	-0.56	-1.11	
6968.00	24.71	100.81	6700.94	-273.14	1304.93	1333.20	0.05	0.00	-0.12	
7031.00	24.53	100.18	6758.21	-277.92	1330.73	1359.44	0.51	-0.29	-1.00	
7094.00	24.36	99.74	6815.56	-282.43	1356.41	1385.50	0.40	-0.27	-0.70	
7157.00	24.27	99.92	6872.97	-286.86	1381.97	1411.43	0.19	-0.14	0.29	
7221.00	24.36	99.92	6931.30	-291.40	1407.93	1437.77	0.14	0.14	0.00	
7284.00	24.53	99.57	6988.65	-295.81	1433.62	1463.82	0.35	0.27	-0.56	
7347.00	24.36	99.39	7046.00	-300.11	1459.34	1489.87	0.29	-0.27	-0.29	
7410.00	24.18	98.86	7103.43	-304.22	1484.90	1515.74	0.45	-0.29	-0.84	
7473.00	24.71	98.60	7160.79	-308.17	1510.67	1541.78	0.86	0.84	-0.41	
7537.00	25.06	97.72	7218.85	-311.99	1537.33	1568.66	0.80	0.55	-1.37	
7600.00	24.36	96.93	7276.08	-315.35	1563.45	1594.91	1.23	-1.11	-1.25	
7664.00	24.09	96.32	7334.44	-318.38	1589.53	1621.07	0.58	-0.42	-0.95	
7727.00	23.04	99.74	7392.19	-321.88	1614.47	1646.19	2.74	-1.67	5.43	
7790.00	21.63	101.94	7450.46	-326.37	1637.98	1670.13	2.60	-2.24	3.49	

PathFinder

Survey Report

Company: Yates Petroleum Corp.	Date: 4/20/2004	Time: 06:17:13	Page: 3
Field: Samuel Smith Unit #1	Co-ordinate(NE) Reference:	Well: Samuel Smith Unit #1, True North	
Site: Samuel Smith Unit #1	Vertical (TVD) Reference:	System: Mean Sea Level	
Well: Samuel Smith Unit #1	Section (VS) Reference:	Well (0.00N,0.00E,101.71Azi)	
Wellpath: Samuel Smith Unit #1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: MWD Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
7854.00	20.22	102.56	7510.24	-331.22	1660.31	1692.98	2.23	-2.20	0.97	
7917.00	19.08	101.24	7569.57	-335.59	1681.04	1714.17	1.94	-1.81	-2.10	
7980.00	18.29	100.80	7629.25	-339.45	1700.85	1734.35	1.27	-1.25	-0.70	
8044.00	16.53	100.97	7690.31	-343.07	1719.66	1753.49	2.75	-2.75	0.27	
8107.00	15.12	101.50	7750.93	-346.41	1736.51	1770.67	2.25	-2.24	0.84	
8171.00	14.33	103.00	7812.82	-349.86	1752.40	1786.94	1.37	-1.23	2.34	
8233.00	13.54	103.52	7873.00	-353.28	1766.94	1801.86	1.29	-1.27	0.84	
8296.00	13.45	102.29	7934.26	-356.56	1781.27	1816.56	0.48	-0.14	-1.95	
8360.00	12.22	101.06	7996.66	-359.45	1795.19	1830.78	1.97	-1.92	-1.92	
8422.00	11.08	100.71	8057.38	-361.81	1807.48	1843.30	1.84	-1.84	-0.56	
8485.00	10.99	100.71	8119.22	-364.05	1819.33	1855.35	0.14	-0.14	0.00	
8549.00	9.15	107.74	8182.23	-366.74	1830.17	1866.51	3.45	-2.87	10.98	
8611.00	8.71	100.89	8243.48	-369.13	1839.48	1876.11	1.85	-0.71	-11.05	
8666.00	8.71	101.15	8297.85	-370.72	1847.65	1884.44	0.07	0.00	0.47	
8738.00	7.65	108.88	8369.11	-373.33	1857.54	1894.65	2.12	-1.47	10.74	
8801.00	6.68	103.17	8431.62	-375.52	1865.07	1902.47	1.91	-1.54	-9.06	
8865.00	5.98	100.01	8495.23	-376.94	1871.98	1909.52	1.22	-1.09	-4.94	
8927.00	5.10	96.67	8556.94	-377.83	1877.90	1915.50	1.51	-1.42	-5.39	
8991.00	3.87	105.46	8620.75	-378.73	1882.80	1920.49	2.20	-1.92	13.73	
9055.00	2.20	105.28	8684.65	-379.63	1886.07	1923.87	2.61	-2.61	-0.28	
9117.00	2.55	101.37	8746.60	-380.22	1888.57	1926.43	0.62	0.56	-6.31	
9180.00	2.02	115.74	8809.55	-380.98	1890.95	1928.91	1.23	-0.84	22.81	
9243.00	2.20	112.22	8872.51	-381.92	1893.07	1931.18	0.35	0.29	-5.59	
9260.00	1.76	110.90	8889.50	-382.13	1893.61	1931.76	2.60	-2.59	-7.76	
9300.00	2.46	108.78	8929.47	-382.63	1895.00	1933.22	1.76	1.75	-5.30	Projection to TD. Vertical @ 8950
9320.55	2.82	108.10	8950.00	-382.93	1895.90	1934.16	1.76	1.76	-3.30	
9405.00	4.31	106.51	9034.28	-384.47	1900.92	1939.39	1.76	1.76	-1.89	
9494.00	5.19	106.07	9122.98	-386.54	1907.99	1946.73	0.99	0.99	-0.49	
9517.00	5.28	107.74	9145.88	-387.15	1910.00	1948.82	0.77	0.39	7.26	
9549.00	5.10	104.14	9177.75	-387.95	1912.78	1951.71	1.16	-0.56	-11.25	
9581.00	4.66	103.61	9209.63	-388.60	1915.42	1954.43	1.38	-1.37	-1.66	
9613.00	3.87	100.09	9241.54	-389.09	1917.75	1956.81	2.60	-2.47	-11.00	
9645.00	2.99	98.42	9273.49	-389.41	1919.64	1958.72	2.77	-2.75	-5.22	
9677.00	2.55	99.74	9305.45	-389.65	1921.17	1960.26	1.39	-1.37	4.12	
9709.00	1.76	89.86	9337.43	-389.77	1922.36	1961.46	2.72	-2.47	-30.87	
9740.00	1.76	100.71	9368.41	-389.86	1923.30	1962.40	1.07	0.00	35.00	
9772.00	0.62	69.42	9400.40	-389.89	1923.95	1963.04	3.97	-3.56	-97.78	
9913.00	1.49	68.63	9541.38	-388.95	1926.37	1965.22	0.62	0.62	-0.56	
10103.00	4.13	99.92	9731.14	-389.23	1935.41	1974.13	1.56	1.39	16.47	
10171.00	4.13	103.79	9798.97	-390.23	1940.20	1979.02	0.41	0.00	5.69	
10216.00	2.81	95.44	9843.88	-390.72	1942.87	1981.74	3.13	-2.93	-18.56	
10248.00	2.20	99.66	9875.85	-390.90	1944.26	1983.13	1.99	-1.91	13.19	
10280.00	2.64	109.59	9907.82	-391.25	1945.56	1984.48	1.89	1.37	31.03	
10312.00	2.11	117.50	9939.80	-391.77	1946.78	1985.77	1.94	-1.66	24.72	
10344.00	1.06	126.02	9971.78	-392.22	1947.54	1986.61	3.35	-3.28	26.62	
10375.00	0.26	76.10	10002.78	-392.37	1947.84	1986.93	2.95	-2.58	-161.03	
10412.00	0.26	76.10	10039.78	-392.33	1948.00	1987.08	0.00	0.00	0.00	

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec			<--- Longitude ---> Deg Min Sec		
Vertical @ 8950 -Rectangle (200x200)			8950.00	-400.00	1930.00	456835.92	447488.58	32	15	21.041 N	104	30	11.524 W

PathFinder

Survey Report

Company: Yates Petroleum Corp.
 Field: Samuel Smith Unit #1
 Site: Samuel Smith Unit #1
 Well: Samuel Smith Unit #1
 Wellpath: Samuel Smith Unit #1

Date: 4/20/2004 Time: 06:17:13 Page: 4
 Co-ordinate(NE) Reference: Well: Samuel Smith Unit #1, True North
 Vertical (TVD) Reference: System: Mean Sea Level
 Section (VS) Reference: Well (0.00N,0.00E,101.71Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec			<--- Longitude ---> Deg Min Sec		
PBHL 10400' TVD -Rectangle (200x200)		10400.00	-400.00	1930.00	456835.92	447488.58	32	15	21.041 N	104	30	11.524 W

Annotation

MD ft	TVD ft	
9300.00	8929.47	Projection to TD.