

State of New Mexico
Energy, Minerals and Natural ResourcesOil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505Form C-105
Revised March 25, 1999

WELL API NO.

30-015-32003

5. Indicate Type of Lease

STATE ☒FEE ☐

6. State Oil & Gas Lease No.

V-3850

7. Lease Name or Unit Agreement Name

Lucy ALC State

8. Well No.

7

9. Pool name or Wildcat

Lost Tank Delaware

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:

OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐

b. Type of Completion:

NEW WORK PLUG DIFF.
WELL ☒ OVER ☐ DEEPEN ☐ BACK ☐ RESVR. ☐ OTHER ☐

2. Name of Operator

Yates Petroleum Corporation

3. Address of Operator

105 South 4th St., Artesia, NM 88210

4. Well Location

Unit Letter B : 660 Feet From The North Line and 2005 Feet From The East Line
Section 34 Township 21S Range 31E NMPM Eddy County

10. Date Spudded

RH 6/9/03

11. Date T.D. Reached

6/23/03

12. Date Compl. (Ready to Prod.)

7/23/03

13. Elevations (DF& RKB, RT, GR, etc.)

3489' GR

3507' KB

14. Elev. Casinghead

NA

15. Total Depth

8300'

16. Plug Back T.D

8150'

17. If Multiple Compl. How Many Zones?

18. Intervals Drilled By

Rotary Tools

40'-8300'

Cable Tools

NA

19. Producing Interval(s), of this completion - Top, Bottom, Name

7356'-7400', 7794'-8024' Basal Brushy Canyon

6826'-6990' Cherry Canyon

6554'-6632' Delaware

20. Was Directional Survey Made

No

21. Type Electric and Other Logs Run

CNL, Azimuthal Laterolog

22. Was Well Cored

No

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"		40'		Conductor	
13-3/8"	48#	850'	17-1/2"	700 sx	Circ
8-5/8"	32#	4100'	11"	1200 sx	Circ
5-1/2"	15.5# & 17#	8300'	7-7/8"	Stage 1: 500 sx Stage 2: 370 sx	TOC 5390' CBL Circ

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET

25. TUBING RECORD

26. Perforation record (interval, size, and number)

8166'-8176' (11) 7390'-7400' (11) 6580'-6590' (11)

7794'-8024' (31) 6826'-6840' (15) 6628'-6632' (5)

7356'-7358' (3) 6986'-6990' (5)

7366'-7370' (5) 6554'-6558' (5)

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED

SEE ATTACHED SHEET

28. PRODUCTION

Date First Production 7/24/03		Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping			Well Status (Prod. or Shut-in) Producing		
Date of Test 8/12/03	Hours Tested 24	Choke Size NA	Prod'n For Test Period	Oil - Bbl 109	Gas - MCF 116	Water - Bbl. 233	Gas - Oil Ratio N/A
Flow Tubing Press. NA	Casing Pressure NA	Calculated 24-Hour Rate	Oil - Bbl. 109	Gas - MCF 116	Water - Bbl. 233	Oil Gravity - API - (Corr.) N/A	

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

Sold

Test Witnessed By

Cecil Lester

30. List Attachments

Logs and Deviation Survey

31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief

Signature Tina Huerta Printed Tina Huerta Title Regulatory Compliance Supervisor Date August 18, 2003

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Bell Canyon _____ 4198'	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____ 860'	T. Cherry Canyon _____ 5240'	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____ 3838'	T. Brushy Canyon _____ 6930'	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Siluro-Devonian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Otzte _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. Spear _____
T. Blinebry _____	T. Gr. Wash _____	T. Morrison _____	A Interval _____
T. Tubb _____	T. Delaware Sand _____	T. Todilto _____	B Interval _____
T. Drinkard _____	T. Bone Spring _____ 8082'	T. Entrada _____	C Interval _____
T. Abo _____	T. Yeso _____	T. Wingate _____	T. _____
T. Wolfcamp _____	Rustler _____ 566'	T. Chinle _____	T. _____
B Zone _____	Livingston Ridge _____ 6815'	T. _____	T. _____
T. Penn _____	Spear _____	T. Permian _____	T. _____
T. Cisco _____		T. Penn "A" _____	T. _____

**OIL OR GAS SANDS
OR ZONES**

No. 1, from.....to.....

No. 2, from.....to.....

No. 3, from.....to.....

No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology

From	To	Thickness In Feet	Lithology

YATES PETROLEUM CORPORATION
Lucy ALC State #7
Section 34-T21S-R31E
Eddy County, New Mexico

COMPLETION REPORT CONTINUED:

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.
DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED

8166'-8176'	Acidize w/1100g gelled 15% IC HCL acid w/17 ball sealers
7794'-8024'	Frac w/53,000g 20# x-link gel spearhead 2000g 7-1/2% IC HCL acid Pumped 47,500# 20/40 Ottawa sand, 76,500# 20/40 Super LC sand concentration
7356'-7400'	Acidize w/1500g 7-1/2% IC HCL w/29 ball sealers
6886'-6890'	Acidize w/750g 7-1/2% IC HCL w/8 ball sealers
6826'-6840'	Acidize w/1000g 7-1/2% IC HCL w/ball sealers
6826'-6990'	Frac w/47,000# 20/40 Ottawa, 78,600# 20/40 Super LC
6554'-6632'	Frac via casing



OPERATOR: YATES PETROLEUM CORP.
WELL/LEASE: LUCY ALC ST. 7
COUNTY: EDDY

510-5046

STATE OF NEW MEXICO
DEVIATION REPORT

413	0.75	4,055	1.70
818	1.50	4,596	1.25
846	0.50	4,848	1.25
909	0.50	5,101	0.50
1,098	0.50	5,608	0.50
1,288	0.60	6,083	1.00
1,383	0.40	6,589	1.00
1,478	0.70	7,062	1.00
1,764	1.20	7,568	1.25
1,858	1.70	8,044	1.00
1,921	1.50	8,265	1.00
2,205	1.30		
2,268	0.90		
2,332	0.70		
2,568	0.50		
2,649	0.80		
2,744	0.70		
2,839	0.90		
2,934	1.80		
3,092	1.10		
3,155	1.40		
3,250	2.30		
3,313	1.70		
3,376	1.10		
3,438	1.10		
3,502	1.80		
3,564	1.30		
3,913	1.60		
3,976	1.80		



By: Steve Moore

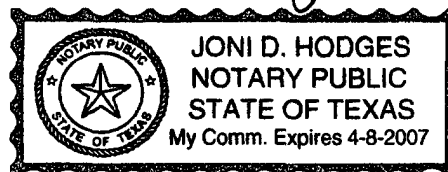
STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 26th day of June, 2003, by Steve Moore on behalf of Patterson-UTL Drilling Company LP, LLLP.

Joni D. Hodges
Notary Public for Midland County, Texas

My Commission Expires: 4/08/2007





DIRECTIONAL SURVEY REPORT

YATES PETROLEUM

LUCY "ALC" STATE #7

EDDY COUNTY, NEW MEXICO

PREPARED BY: DAVID M. YOUNG

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

June 30, 2003

YATES PETROLEUM
105 South Fourth St.
Artesia, New Mexico 88210

Attn: Jim Krogman

RE: **YATES PETROLEUM**
LUCY "ALC" STATE #7
EDDY COUNTY, NEW MEXICO
RIG: PATTERSON UTI 510
OUR FILE NO.: J-WT-0306-0018



Dear Mr. Krogman:

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 (318) 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) TRACY GANDY
3. POSITION OF SAID PERSON(S): (A) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 05/13/03 TO 06/17/03
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
LUCY "ALC" STATE #7
EDDY COUNTY, NEW MEXICO
RIG: PATTERSON UTI 510

9. SURVEY CERTIFIED FROM: 909 TO 4,055 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE
DISPLACED AT 45.02 FEET ON A BEARING OF 84.83 DEGREES FROM THE
CENTER OF THE ROTARY TABLE AT PROJECTED MEASURED DEPTH OF 4,100
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-0306-0018
Date: 6/17/03
Time: 8:46 am
Wellpath ID: yates
Date Created: 6/13/03
Last Revision: 6/17/03

Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 0.00 deg.

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

YATES PETROLEUM
LUCY "ALC" ST #7
EDDY CO NEW MEXICO
RIG: PATTERSON UTI #510

DECL: 8.75° EAST TO TRUE
KBH= 20' KELLY BUSHING TO GROUND

OFFICE SUPERVISOR:
GLENN COYLE
MWD FIELD ENGINEER
TRACY GANDY

Measured Depth	4100.00	(ft)
Inclination	1.67	(deg)
Azimuth	53.22	(deg)
True Vertical Depth	4099.28	(ft)
Vertical Section	4.06	(ft)
Rectangular Offsets		
North/South	4.06 N	(ft)
East/West	44.84 E	(ft)
Closure Dist & Dir	45.02@ 84.83	(deg)
Dogleg Severity	0.00	(deg/100ft)
Build Rate	0.00	(deg/100ft)
Walk Rate	0.00	(deg/100ft)

Pathfinder Energy Services

Survey Report

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

YATES PETROLEUM
LUCY "ALC" ST #7
EDDY CO NEW MEXICO
RIG: PATTERSON UTI #510

DECL: 8.75° EAST TO TRUE
KBH= 20' KELLY BUSHING TO GROUND

OFFICE SUPERVISOR:
GLENN COYLE
MWD FIELD ENGINEER
TRACY GANDY

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. (ft)	Dir. (deg.)	DLS (dg/100ft)
TIE-IN PROVIDED BY RIG TOTCO W/ ASSUMED AZIMUTH										
850.00	0.53	0.00	850.00	0.00	0.00	0.00 N	0.00 E	0.00@	0.00	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS										
909.00	0.53	348.27	909.00	59.00	0.54	0.54 N	0.06W	0.54@	354.13	0.18
1003.00	0.53	353.19	1002.99	94.00	1.40	1.40 N	0.20W	1.41@	352.04	0.05
1098.00	0.53	46.98	1097.99	95.00	2.13	2.13 N	0.07 E	2.13@	1.98	0.50
1193.00	0.30	61.30	1192.99	95.00	2.55	2.55 N	0.61 E	2.63@	13.51	0.26
1288.00	0.62	63.33	1287.98	95.00	2.90	2.90 N	1.29 E	3.18@	23.97	0.34
1383.00	0.44	33.10	1382.98	95.00	3.44	3.44 N	1.95 E	3.95@	29.54	0.34
1478.00	0.70	91.00	1477.98	95.00	3.73	3.73 N	2.73 E	4.63@	36.15	0.63
1574.00	1.00	64.30	1573.97	96.00	4.09	4.09 N	4.07 E	5.77@	44.87	0.51
1668.00	0.90	81.10	1667.95	94.00	4.56	4.56 N	5.54 E	7.17@	50.55	0.31
1764.00	1.20	90.00	1763.94	96.00	4.67	4.67 N	7.29 E	8.66@	57.33	0.35
1858.00	1.67	70.19	1857.91	94.00	5.14	5.14 N	9.56 E	10.85@	61.75	0.72
1921.00	1.49	89.61	1920.88	63.00	5.46	5.46 N	11.24 E	12.50@	64.12	0.89
1984.00	1.49	83.37	1983.86	63.00	5.56	5.56 N	12.88 E	14.02@	66.66	0.26
2047.00	0.88	90.14	2046.85	63.00	5.65	5.65 N	14.17 E	15.26@	68.27	0.99
2142.00	1.06	68.96	2141.84	95.00	5.96	5.96 N	15.72 E	16.82@	69.23	0.42
2205.00	1.32	53.22	2204.82	63.00	6.61	6.61 N	16.85 E	18.10@	68.59	0.66
2268.00	0.88	2.86	2267.81	63.00	7.52	7.52 N	17.45 E	19.01@	66.68	1.61
2332.00	0.70	0.93	2331.81	64.00	8.41	8.41 N	17.49 E	19.40@	64.33	0.28
2427.00	1.14	65.18	2426.80	95.00	9.38	9.38 N	18.35 E	20.61@	62.92	1.10
2490.00	0.62	67.81	2489.79	63.00	9.77	9.77 N	19.24 E	21.58@	63.06	0.83
2586.00	0.53	68.69	2585.78	96.00	10.13	10.13 N	20.13 E	22.54@	63.28	0.09
2649.00	0.79	69.04	2648.78	63.00	10.39	10.39 N	20.81 E	23.26@	63.46	0.41
2744.00	0.70	105.52	2743.77	95.00	10.47	10.47 N	21.98 E	24.35@	64.52	0.50

Pathfinder Energy Services

Survey Report

Page 2
Date: 6/17/03
Wellpath ID: yates

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)
2839.00	0.88	120.72	2838.76	95.00	9.94	9.94 N	23.17 E	25.21@	66.77	0.29
2934.00	1.85	96.20	2933.74	95.00	9.41	9.41 N	25.32 E	27.01@	69.62	1.17
3028.00	1.49	115.36	3027.70	94.00	8.72	8.72 N	27.93 E	29.26@	72.66	0.70
3092.00	1.14	106.40	3091.68	64.00	8.18	8.18 N	29.29 E	30.41@	74.39	0.63
3155.00	1.41	191.91	3154.67	63.00	7.25	7.25 N	29.73 E	30.60@	76.30	2.77
3250.00	2.29	214.24	3249.62	95.00	4.53	4.53 N	28.42 E	28.78@	80.94	1.18
3313.00	1.70	215.90	3312.58	63.00	2.74	2.74 N	27.17 E	27.31@	84.25	0.94
3376.00	1.10	140.10	3375.57	63.00	1.52	1.52 N	27.01 E	27.05@	86.79	2.83
3438.00	1.14	122.22	3437.55	62.00	0.73	0.73 N	27.91 E	27.92@	88.50	0.57
3502.00	1.76	130.04	3501.53	64.00	-0.24	0.24 S	29.20 E	29.20@	90.47	1.01
3564.00	1.32	106.04	3563.51	62.00	-1.05	1.05 S	30.62 E	30.64@	91.97	1.24
3628.00	1.49	85.92	3627.49	64.00	-1.20	1.20 S	32.16 E	32.18@	92.13	0.81
3691.00	1.32	88.64	3690.47	63.00	-1.12	1.12 S	33.70 E	33.72@	91.90	0.29
3786.00	2.11	79.33	3785.43	95.00	-0.77	0.77 S	36.51 E	36.52@	91.21	0.88
3849.00	1.85	56.83	3848.39	63.00	0.00	0.00 N	38.50 E	38.50@	90.00	1.29
3913.00	1.58	57.00	3912.36	64.00	1.05	1.05 N	40.11 E	40.12@	88.51	0.42
3976.00	1.85	62.28	3975.34	63.00	1.99	1.99 N	41.74 E	41.78@	87.27	0.50
4055.00	1.67	53.22	4054.30	79.00	3.27	3.27 N	43.79 E	43.91@	85.72	0.42
STRAIGHT LINE PROJECTION TO BIT @ 4100 FEET MD										
4100.00	1.67	53.22	4099.28	45.00	4.06	4.06 N	44.84 E	45.02@	84.83	0.00