

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

FORM APPROVED
OMB NO. 1004-0137
Expires: November 30, 2000

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
Latigo Petroleum, Inc.

3. Address
550 W. Texas, Suite 700 Midland, TX 79701

3.a Phone No. (Include area code)
(432)684-4293

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

At Surface Unit (K) 1797' FSL & 1525' FWL

At top prod. interval reported below Same

At total depth Same

14. Date Spudded
06/16/1985

15. Date T.D. Reached
07/24/1985

16. Date Completed
☐ D & A ☒ Ready to Prod.
 08/19/1985

5. Lease Serial No.
NMNM57221

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and no.

8. Lease Name and Well No.

Federal AC #1

9. API Well No.

30-015-25289

10. Field and Pool, or Exploratory
Wildcat;Upper Penn

11. Sec., T., R., M., on Block and
Survey or Area Sec. 35, T23S, R23E

12. County or Parish Eddy	13. State NM
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17. Elevations (DF, RKB, RT, GL)*
4416' GR

18. Total Depth: MD
TVD 10,707'

19. Plug Back T.D.: MD
TVD 10,383'

20.	Depth Bridge Plug Set:	MD TVD 10100 CIBP
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21. Type of Electric & Other Mechanical Logs Run (Submit copy of each)

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☒ No ☐ Yes (Submit copy)

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

[illegible]

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"	8426' GL	8434' GL						

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Morrow			10,202' - 10,234'		88	CIBP @ 10,100 w/ 35sx
B) Cisco			8480' - 8506'		28	Open
C)						
D)						

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

Depth Interval	Amount and Type of Material
8480' - 8506'	Frac perfs w/pad 26,000 gals fresh water + 2000 gals 20% NEFE acid + 1000 gals gelled brine w/.50 pda salt + 4000 gals of 20% NEFE Acid + 1000 gals gelled brine w/1.0 pda salt + 8000 gals 20% NEFE acid + 1000 gals of gelled brine w/1.0 pda + 8000 gals of 20% NEFE acid & flush w/16,000 gals fresh wtr.

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
Choice Size	Tbg. Press. Flwg. " " SI	Csg. Press.	24 Hr. Rate ➔	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	APR 20 2005

~~ACCEPTED FOR RECORD~~

APR 20 2005

LES BABYAK
PETROLEUM ENGINEER

Production - Interval B

PETROLEUM ENGINEER									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
03/17/05	03/19/05	60	→	10	650	60	48	0.81	Flowing
Choke Size	Tbg. Press Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
12	SI 22000		→	10	650	60	65,000	Producing	

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. SI	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. SI	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.)

30. Summary of Porous Zones (Include Aquifers):

Show all important zones or 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	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
Dean	7082				
Wolfcamp	7407				
Lwr Wolfcamp	7916				
Cisco	8435				
Canyon	8763				
Strawn	8952				
Lwr Strawn	9202				
Atoka SS	9516				
Atoka LS	9620				
Morrow B	10,202				

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

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

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) Donna Huddleston

Title Production Analyst

Signature

Donna Huddleston

Date 04/13/2005

Title 18 U.S.C. Section 101 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 and false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

RECEIVED

APR 21 2005

ODD-ARTERIA

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator LATIGO PET.				Lease or Unit Name FEDERAL AC					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3/19/2005		Well No. 1	
Completion Date 3/9/2005		Total Depth 11784		Plug Back TD 10,100		Elevation 4416		Unit Ltr - Sec - TWP - Rge	
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 10,442	Perforations: From: 8480 To: 8506				County EDDY	
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 8449	Perforations: From: To:				Pool Not Named	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 8409				Formation Cisco	
Producing Thru TUBING		Reservoir Temp. 156		Mean Annual Temp. 60		Baro. Press.-P _a 13.2		Connection AIR	
L 8409	H 8409	Gg 0.742	%CO ₂ 0.821	%N ₂ 0.326	%H ₂ S 0	Prover N/A	Meter Run 3.068	Taps FLG	

FLOW DATA				TUBING DATA				CASING DATA		Duration of Flow
No.	Prover Line Size	Orifice x Size	Press p.s.i.g.	Diff. h _w	Temp.	Press p.s.i.g.	Temp.	Press p.s.i.g.	Temp.	
SI	3.0 X 1.500					2139				
1						800				6 HRS
2										
3										
4										
5										

RATE OF FLOW CALCULATIONS							
No.	COEFFICIENT (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress Factor F _{pv}	Rate of Flow Q, Mcfd
1	9.64						973
2							
3							
4							
5							

No.	P _r	Temp. R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf bbl.	
1					N/A		
2					A.P. I. Gravity of Liquid Hydrocarbons	Deg.	
3					Specific Gravity Separator Gas	0.742	XXXXXXX
4					Specific Gravity Flowing Fluid	XXXXXX	
5					Critical Pressure	671	P.S.I.A. N/A
					Critical Temperature	394	R. N/A

P _c 2075.6		P _{c2} 4308.1	
No.	P _t ²	P _w	P _w ²
1		860.2	739.9
2			
3			
4			
5			

(1)
$$\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.21}{1.21 - 0.7399} = 1.21$$

(2)
$$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.21}{1.21 - 0.7399} = 1.21$$

AOF = Q
$$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1177.3}{1.21 - 0.7399}$$

Absolute Open Flow 1,177		Mcf/d @ 15.025		Angle of Slope (°): 45		Slope, n: 1	
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Remarks: **CALCULATED FROM KNOWN BOTTOM HOLE PRESSURES.**

Approved By Division:	Conducted By: PRO WELL TESTING	Calculated By: MERV BUECKER	Checked By: MB
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