Form 9-331
Dec. 1973

5 MMS, Fmn 1 Ladd 1 File

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other

2. NAME OF OPERATOR
LADD PETROLEUM CORP.

3. ADDRESS OF OPERATOR
P O Box 208, Farmington, NM 87401

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1009' FNL - 1813' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
SF 077875-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
U S Argo

9. WELL NO.
3

10. FIELD OR WILDCAT NAME
Pictured Cliffs

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 18 T27N R10W

12. COUNTY OR PARISH
San Juan

13. STATE
NM

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5824' GL; RKB = GL

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	☐		☐
FRACTURE TREAT	☐		☐
SHOOT OR ACIDIZE	☐		☐
REPAIR WELL	☐		☐
PULL OR ALTER CASING	☐		☐
MULTIPLE COMPLETE	☐		☐
CHANGE ZONES	☐		☐
ABANDON*	☐		☐
(other)		XX	Spud and surface casing

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

8-31-82 MI & RU Morrow Rig #3. Spudded 3-3/4" hole at 3:30 p.m. 8-30-82. Drilled to 40'. Rig died. Unable to get started.

9-1 thru 9-14-82 Down for rig repairs

9-15-82 Resume drilling 8-3/4" hole at 10:00 a.m. 9-14-82. Drilled to 95'; ran 2 jts. of 7" O.D., 23#, K-55, 8 rd, ST&C casing. T.E. 90.46' set at 92' GL.

Cement casing with 50 sx class "B" neat w/ 2% CaCl. Total slurry 59 cu.ft. Good returns while cementing; cement to surface.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Thomas A. Dugan TITLE Agent DATE 9-15-82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD

SEP 23 1982

FARMINGTON

BY _____

NMOCC

*See Instructions on Reverse Side

Form 9-331
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SF 077875-A

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TEST WATER SHUT-OFF	☐		☐
FRACTURE TREAT	☐		☐
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REPAIR WELL	☐		☐
PULL OR ALTER CASING	☐		☐
MULTIPLE COMPLETE	☐		☐
CHANGE ZONES	☐		☐
ABANDON*	☐		☐
(other)		XX	2-7/8" casing

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

See reverse for report of 2-7/8" casing and cement.

RECEIVED
SEP 28 1982
OIL CON. COM.

RECEIVED
SEP 27 1982
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED T. A. Dugan Thomas A. Dugan TITLE Petroleum Engineer DATE 9-20-82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD
SEP 27 1982
FARMINGTON DISTRICT
BY

NMOCC

*See Instructions on Reverse Side

9-17-82 1400' - Drilling (3-4 min/ft) MW 11.2 Vis 45
Drilled with no problems. Built 2nd reserve pit. Mixed 166 sx barite, 17 sx gel and ½ sk dresco.

22-1/4 hrs - drilling
1-1/4 hrs - trip
1/2 hr - rig service

9-18-82 ~~1765~~ Corrected to 1740' - Drilling Wt. 11.0 Vis 47

Trip for Bit #5 at 1720'. Drilling with no problems. Hauled 2-7/8" N-80 tubing./csg. to location. Mixed 1 sk Desco. Anticipate TD ±9:00 a.m.

9-19-82 TD 1800' - W.O.C. - Rig shut down. Wt. 11.0 Vis 50

Reached TD of 1800' at 11:00 a.m. Circ. 3/4 hr. and POOH for logs. Rigged up Dresser Atlas and ran IES and slim hole GR-FDC-CNL from LTD of 1806' to 96'. (Logged 12:45 p.m.-6:00 p.m.). Telecopied logs to Ladd, Midland; decision to run casing at 8:15 p.m. Laid down drill pipe (40 jts.) while W.O.O. Rig clutch went out. Worked on rig 1¼ hrs. Completed laying down D.P. and rigged up to run casing. Rig crew ran 59 jts. (1785.72') 2-7/8", N-80, 6.5#, EUE, 8rd, used tubing for casing with 2-7/8" guide shoe. Landed casing at 1785' (with Omega latch down insert baffle at 1754.31') Ran 6 2-7/8 x 4-7/8 centralizers at 1512, 1542, 1572, 1604, 1723 & 1754. Broke circ. and circ. 3/4 hr. with rig pump and mud. Dowell cemented 2-7/8" casing with 150 sx class "B" cement with ¼# celloflake & 4% gel. Mixed at 14.2#/gal (228 cf) followed by 100 sx class "B" cement with ¼#celloflake/sk. Mixed at 15.6#/gal (118 cf). Total slurry 346 cf. Preceded cement with 10 bbl. mud flush (Dowells CW7). Reciprocated casing 15' while cementing. Circ. mud flush and a small amount of cement to surface. Displaced cement with 10.2 bbl. fresh water. Final pump pressure 800 psi. Bumped plug with 1700#. Held OK. Rel. press. Held OK. Left SI with zero # pressure. CIP & JC at 2:30 a.m. Shut down and wait on cement.

3 NMOCD 1 Ladd DE, G Mayfield 1 Ladd MID, C Phillips 1 File

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: (XX) Initial ☐ Annual ☐ Special			Test Date: 10-22-82
Company: LADD PETROLEUM CORP.	Connection:		
Pool: Fulcher Kutz	Formation: Pictured Cliffs		Unit:
Completion Date: 10-15-82	Total Depth: 1800'	Plug Back TD:	Elevation: 5824'
Farm or Lease Name: U S Argo			
Csg. Size: 2-7/8" / Wt.: 6.5# / d: 2.441 / Set At: 1785	Perforations: From 1598 To 1627		Well No.: 3
Tbg. Size: / Wt.: / d: / Set At:	Perforations: From To		Unit: E / Sec.: 18 / Twp.: 27N / Rge.: 10W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At:		County: San Juan
Producing Thru: Casing	Reservoir Temp. °F:	Mean Annual Temp. °F:	Baro. Press. – P_a:
State: New Mexico			
L: / H: / Gg: .62	% CO_2: / % N_2: / % H_2S:	Prover: / Meter Run: / Taps:	

FLOW DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI									341		7 days
1.	7/16" positive choke								179	64	3 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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	4.171		191	.9962	.9837	1.017	794
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_t	Z
1				
2.				
3.				
4.				
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 353 P_c^2 124,609

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	36,481	194.6	37,860	86749
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.44$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.36$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1080$

Absolute Open Flow 1080 Mcfd @ 15.025 Angle of Slope θ 40° Slope, n .85

Remarks: Dry gas!

Approved By Division	Conducted By: J Anderson	Calculated By: J Anderson	Checked By: