6-USGS (Farmington) 1-Ladd 1-File

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

30-045-24410

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: DRILL XX DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL: OIL WELL ☐ GAS WELL XX OTHER SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR: Ladd Petroleum Corp.

3. ADDRESS OF OPERATOR: Box 208, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 800' FSL - 1800' FWL
At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.: SF 077875A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Argo

9. WELL NO.: #1E

10. FIELD AND POOL, OR WILDCAT: Basin Dakota

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

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 8 miles southeast of Bloomfield, NM

12. COUNTY OR PARISH: San Juan 13. STATE: NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 800'

16. NO. OF ACRES IN LEASE:

17. NO. OF ACRES ASSIGNED TO THIS WELL: W 333.68

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 3690'

19. PROPOSED DEPTH: 6320'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5903' GL

22. APPROX. DATE WORK WILL START*: ASAP

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	250'	175 sx
7-7/8"	4-1/2"	10.5#	6320'	1030 sx

Plan to drill 7-7/8" hole to test the Basin Dakota Foramtion. Plan to run IES log to TD. If productive, paln to set 4-1/2" casing, cement in two stages, selectively perforate, frac, clean out after frac, run 1-1/2" tbg and complete well.

Plan to use BOP furnished by rig while dirlling (10" 3000 psi hydraulic)

Plan to use BOP rental while completing (6" 3000 psi double gate manual)

NMERB: Gas dedicated

JUN 25 1980
OIL CON. COM.
DIST. 3

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Thomas A. Dugan TITLE Agent DATE 5-21-80

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

APPROVED AS AMENDED

APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

1980
James F. Sims
JAMES F. SIMS
DISTRICT ENGINEER

NWU3-36 oh Sent

*See Instructions On Reverse Side

NMOCC

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator	Lease	Well No.
Ladd Petroleum Corporation	Argo	1E

Unit Letter	Section	Township	Range	County
N	18	27 North	10 West	San Juan

Actual Footage Location of Well:
800 feet from the South line and 1800 feet from the West line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
5903	Dakota	Basin Dakota	333.68 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

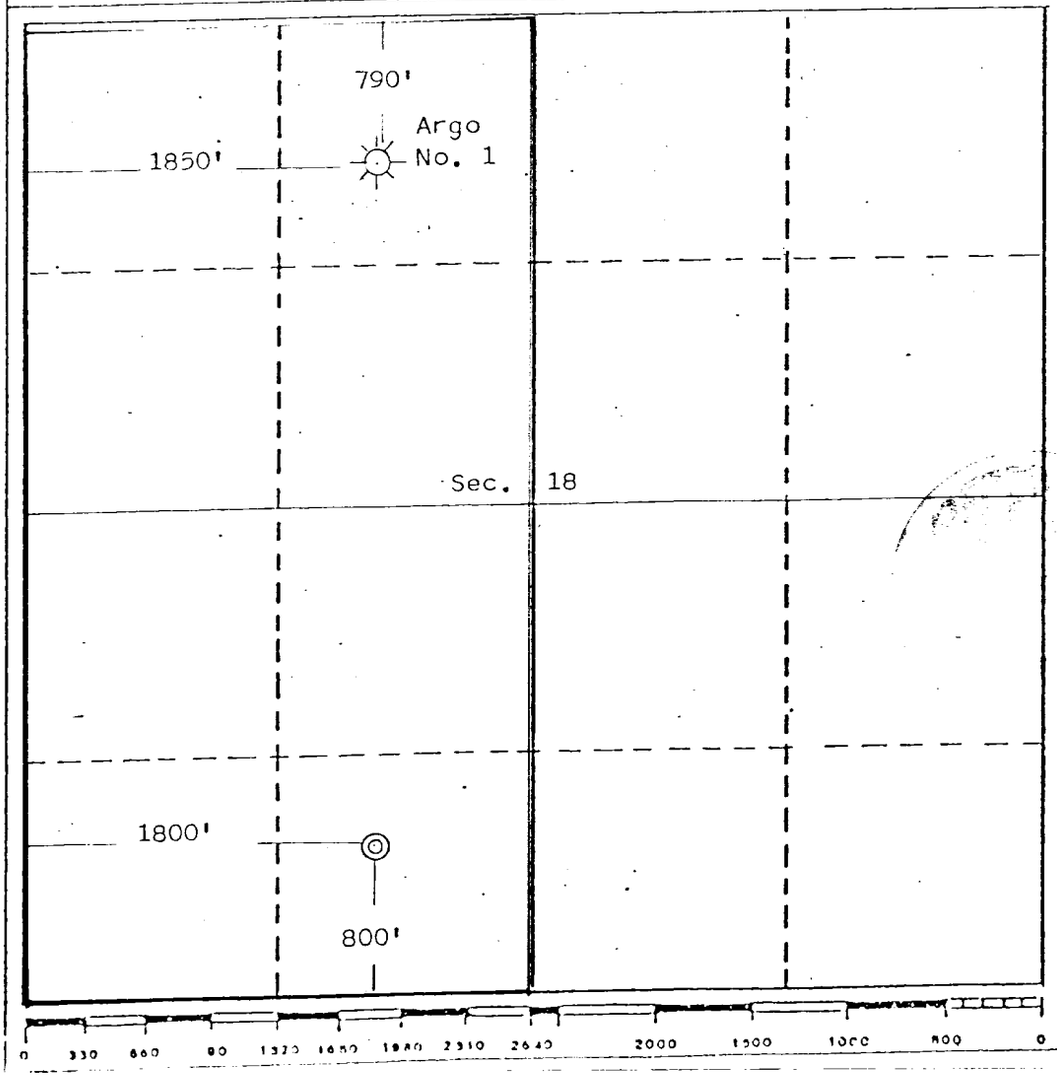
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name: Thomas A. Dugan

Position: Agent

Company: Ladd Petroleum Corp.

Date: 5-21-80

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

EDGAR L. RISENHOOVER
NEW MEXICO
5979
REGISTERED LAND SURVEYOR

Date Surveyed: May 4, 1980

Registered Professional Engineer and/or Land Surveyor

Edgar L Risenhoover

Certificate No. 5979

Edgar L. Risenhoover, L.S.

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 2/09/81	
Company: Ladd Petroleum Corp.	Connection:			
Pool: Basin Dakota	Formation: Dakota		Unit:	
Completion Date: 2/01/81	Total Depth: 6500'	Plug Back TD: 6416'	Elevation: 5903' GR	Farm or Lease Name: Argo
Csg. Size: 4-1/2 / Wt.: 10.5 / d: / Set At: 6500'	Perforations: From 6175 To 6261			Well No.: 1-E
Tbg. Size: 1-1/2 / Wt.: 2.9 / d: / Set At: 6212'	Perforations: From To			Unit: N / Sec.: 18 / Twp.: 27N / Rge.: 10W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - Gas	Packer Set At:			County: San Juan
Producing Thru: tbg	Reservoir Temp. °F:	Mean Annual Temp. °F:	Baro. Press. – P_a:	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.65 est.						

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					970		1570		7 days
1.									
2.									
3.	3/4" Pos choke	112		65°			580		3 hrs.
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							
2.							
3.	12.365		124	.9952	.9608	1.012	1484
4.							
5.							

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

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

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MAY 27 1981
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P_c 1582 P_c^2 2,502,724

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3		592	338,724	2,164,000
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1565$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^{.75} = 1.1152$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^{n} = 1655$

Absolute Open Flow 1655 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .75

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Jones	Jones	