

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY(Other instruct on
reverse side.)30-015-22238
5. LEASE DESIGNATION AND SERIAL NO.

LC 028775 / B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

F. M. Robinson Federal Com

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Grayburg Morrow

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

27-17S-29E

12. COUNTY OR PARISH 13. STATE

Eddy

New Mexico

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Atlantic Richfield Company

3. ADDRESS OF OPERATOR

P. O. Box 1710, Hobbs, New Mexico 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

1825' FSL & 2220' FWL (Unit letter K)

At proposed prod. zone

as above

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

4.4 miles west of Loco Hills & 1.8 miles south

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

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

19. PROPOSED DEPTH

11,100

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3525' GR

22. APPROX. DATE WORK WILL START*

9/1/77

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
	30" conductor		30'	3 yds Redi-mix
26"	20" OD	94# K-55	200'	488 sx
17 1/2"	13-3/8" OD	54.5# K-55	850'	750 sx
12 1/4"	9-5/8" OD	40# K-55	3,500'	1000 sx
8-3/4"	5-1/2" OD	15.5 & 17# K-55 & N-80	11,000'	1300 sx

Propose to drill a development well to test the Morrow gas producing capabilities.
Gas not dedicated

Blowout Preventer Program attached.

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ARTESIA, NEW MEXICO
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AUG 3 1977
O. C. C.
ARTESIA, OFFICE

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

TITLE Dist. Drlg. Supt.

DATE 7/14/77

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

THIS APPROVAL IS RESCINDED IF OPERATIONS
ARE NOT COMMENCED WITHIN 3 MONTHS.
EXPIRES NOV 2 - 1977

DATE

*See Instructions On Reverse Side

AUG 2 - 1977

R. L. PLEMMON
ACTING DISTRICT ENGINEER

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-102
Supersedes O-102
Effective 1965

All distances must be from the outer boundaries of the Section

Atlantic Richfield Co.		F. M. Robinson Fed. Com.		1	
K	27	17 South	29 East	Eddy	
1825	South	2220	West		
3525.0	Morrow Gas	Grayburg Morrow Gas	320		

Indicate acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.

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

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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?

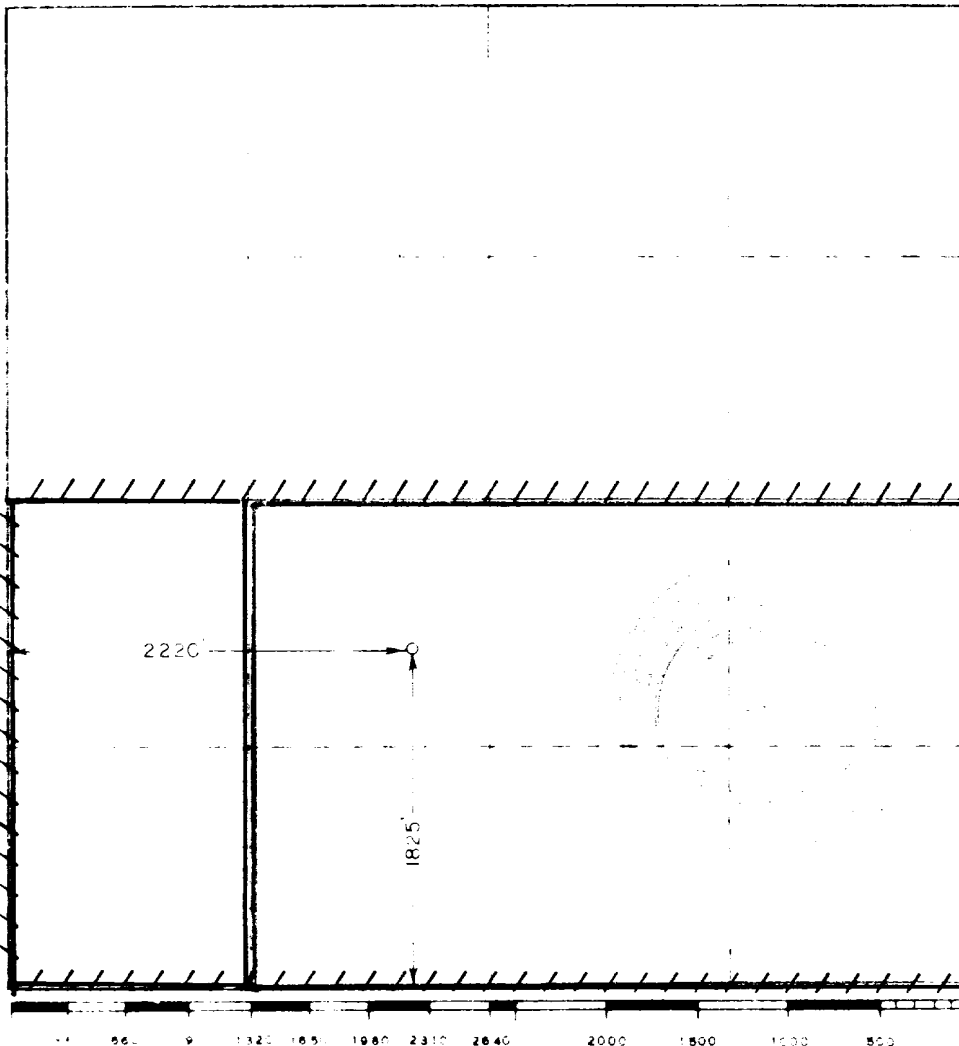
JUL 18 1977

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

**U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO**

If answer is "No," list the owners and tract descriptions which have actually been consolidated on the reverse side of this form if necessary.

Interest will be assigned to the well until all interests have been consolidated by communitization, unitization, force-pooling, or otherwise for 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.

[Signature]
Dist Dirg. Supt.

Atlantic Richfield Company

7/15/77

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.

July 12, 1977

Registered Professional Surveyor
No. 10000

[Signature]
John W West
676

To supplement USGS Form 9-331C " Application for Permit to Drill, Deepen or Plugback", the following additional information is submitted to comply with USGS Order NTL-6.

Operator: Atlantic Richfield Company
Lease & Well No: F. M. Robinson Federal Com #1
Location: Unit Letter K, 2220' FWL & 1825' FSL
Section 27-T17S-R29E, Eddy County, N.M.
Lease, New Mexico LC 028775(a)
Development well - Morrow Gas

1. See Well Location and Acreage Dedication Plat Form C-102.
2. See Form 9-331C for elevation above sea level of unprepared location.
3. The geologic name of the surface formation is: Sand dunes which are recent alluvial underlayed with Triassic.
4. The type of drilling tools and associated equipment to be utilized will be: Rotary.
5. The proposed drilling depth will be 11,100'.
6. The estimated tops of important geologic markers are:

Abo 6118', Wolfcamp 7210', Cisco 9020', Strawn 10,016', Atoka 10,284',
Morrow 10,690', Miss 11,004'.

7. The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are:

Wolfcamp	7800'	Gas
Cisco	9500'	Gas
Atoka	10400'	Gas
Morrow	10800'	Gas

8. The proposed casing program including the size, grade and weight-per-foot of each string has been indicated on Form 9-331C. All strings of casing will be new.
9. See Form 9-331C for amount of cmt. Redi-mix cmt will be used for cmtg conductor pipe. C1 C cmt Thik-set cont'g 10# Gilsonite, $\frac{1}{2}$ # flocele, 2% CaCl followed by C1 C cont'g 2% CaCl, $\frac{1}{4}$ # flocele to be used in cmtg 20" casing. Class C cmt cont'g 4% gel, 2% CaCl, $\frac{1}{4}$ # LCM/sk followed by C1 C cmt cont'g 2% CaCl to be used in cmtg 13-3/8" OD csg. C1 C cmt cont'g 4% gel, LCM followed by C1 C cmt cont'g 2% CaCl and alternate cmtg if weak water flow is encountered @ 1100' will be densified C1 H cmt and if strong water flow will use DV tool to cmt 9-5/8" OD csg. C1 H cmt cont'g 5# KCL, .5% Halad 22, .3% CFR-2 followed by C1 C cont'g 5# KCL, .5% Halad 22, .3% CFR-2 to be used in cmtg 5 $\frac{1}{2}$ " OD csg. DV tool to be run if lost circ encountered in Cisco.

10. The pressure control diagram is attached to Form 9-331C. The following additional information of the pressure control equipment is as follows:
13-3/8" csg: Size - 12"-900 Series, Dbl ram w/hydraulic closing unit
Pressure Ratings: 3000# WP, 6000# T
Testing Procedure: Pressure up to 1500 PSIG before drilling out of csg
Testing Frequency: Pressure tested when installed to 2000 PSIG and operational checks daily & on all trips
9-5/8" Csg: Size - 10"-1500 Series Dbl ram w/hydraulic closing unit, hydril between flanges & with rotating head
Pressure Ratings: 5000# WP, 10,000# T.
Testing Procedures: Press up to 1500 PSIG before drilling out of csg
Testing Frequency: Pressure tested when installed to 2000 PSIG and operational checks daily and on all trips. Yellow-jacket services on trip for 3rd bit under intermediate csg & pressure tested to 5000 PSIG.

11. The type and characteristics of the proposed circulating medium or mediums to be employed for rotary drilling and the quantities and types of mud and weighting material to be maintained will be as follows:

0	-	200'	Spud mud, will use fresh water and drill w/o returns if necessary
200	-	850'	10# Brine Water
850	-	3500'	Fresh Water, Ph control for corrosion
3500	-	7100'	Fresh water w/paper for seepage loss; Ph control for corrosion
7100	-	9900'	4% KCL Brine 9.2#/gal w/Vis high enough for good samples
9900	-	11100'	3% KCL brine polymer 9.8#/gal, 35 Vis, 6-10 WL

12. The testing, logging and coring programs will be:

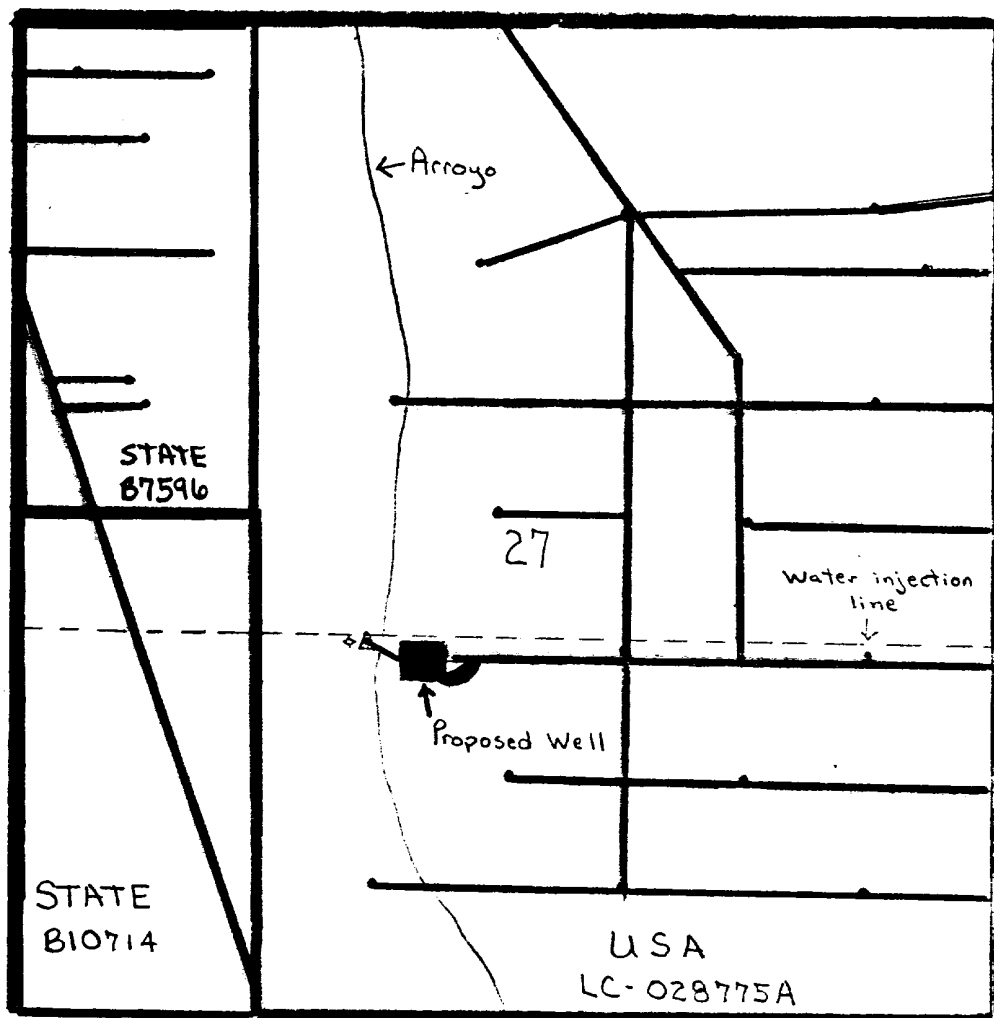
<u>Drill Stem Test</u>	<u>Logs</u>
1 - Wolfcamp	6000'- TD FDC-DLL-RXO
1 - Cisco	3500'-TD CNL-GR
1 - Atoka	
2 - Morrow	

No coring is proposed

13. There are no abnormal pressures or temperatures expected to be encountered other than possible abnormal pressure drilling thru the Grayburg Water flood zone in the area. The mud program will control drilling thru the waterflood zone. No other potential hazards exist.
14. The anticipated starting date will be 9/1/77 and completed approx 11/1/77.
15. The auxiliary equipment to be used will consist of: Kelly cocks & a sub on floor w/full opening valve to be used when needed. Mud logging will be with a one man unit 6000'-TD.


District Drilling Supt.





SEC 27, T-17-S, R-29-E

	Lease Lines
	Existing Road
	New Road
	Water Injection Line
Scale : 1" = 1000'	

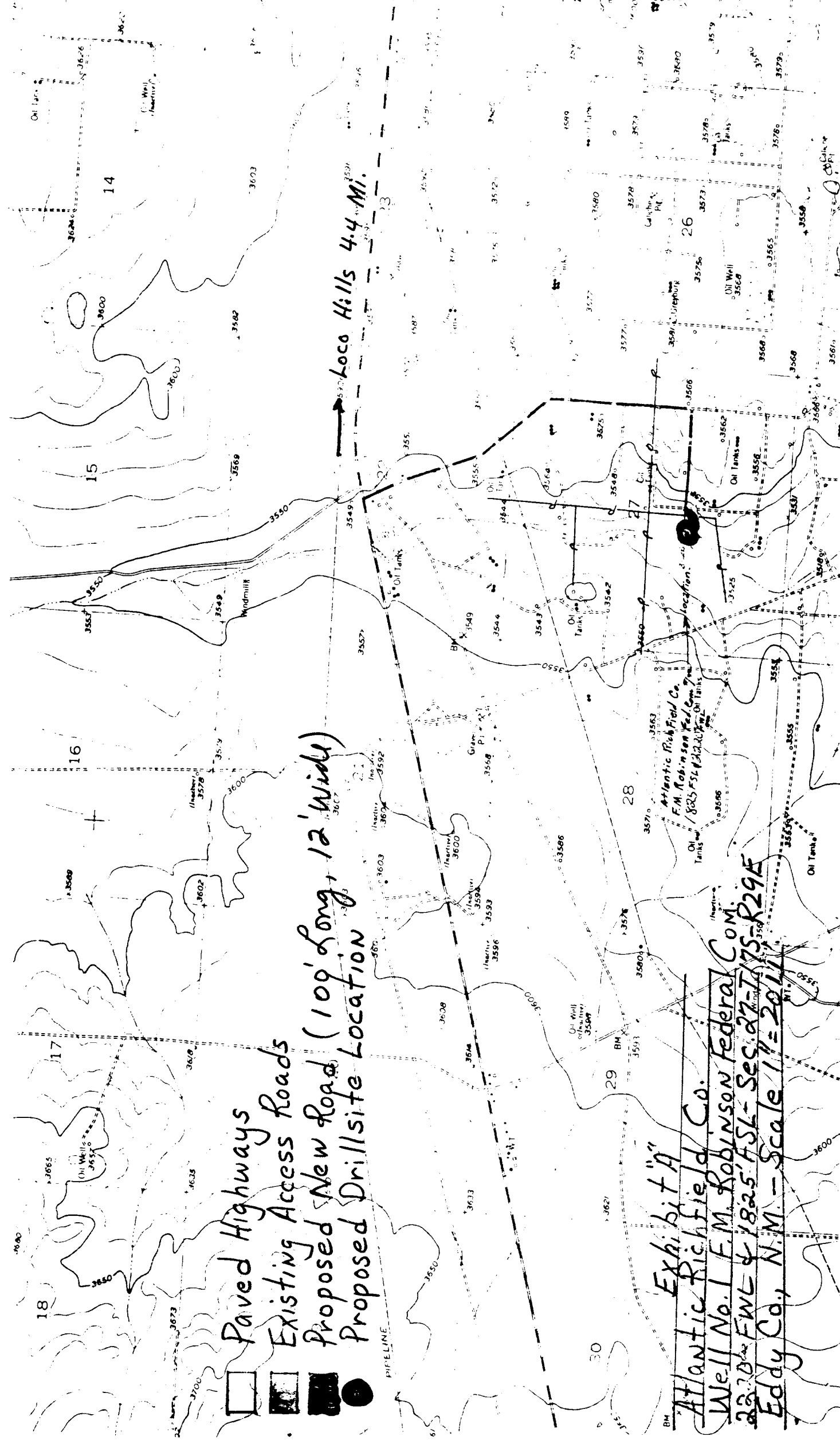
Exhibit "C"

Atlantic Richfield Company

F.M. Robinson Federal Com #1

1825' FSL + 2220' FWL Sec 27, T17S, R29E

Lea Co., N.M.



- Paved Highways
- Existing Access Roads
- Proposed New Road (109' Long, 12' Wide)
- Proposed Drillsite Location

Exhibit "A"
Atlantic Richfield Co.
Well No. 1 F.M. Robinson Federal Com.
2820 FWL & 1825 FSL - Sec 27-T17S-R29E
Eddy Co., N.M. - Scale 1" = 200'