

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-015-22313

5. LEASE DESIGNATION AND SERIAL NO.

NM-9542-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Grynberg "A" Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Undesignated Morrow

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

Sec 5, T-18-S, R-25-E

12. COUNTY OR PARISH 13. STATE

Eddy

NM

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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

Gulf Oil Corporation

3. ADDRESS OF OPERATOR

P. O. Box 670, Hobbs, NM 88240

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

At surface

660' FNL & 1980' FEL, Sec 5, T-18-S, R-25-E

At proposed prod. zone

O. C. C.

ARTESIA, OFFICE

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

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

359

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

8,400'

20. ROTARY OR CABLE TOOLS

Rotary

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

3602' GL

22. APPROX. DATE WORK WILL START*

10-15-77

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	300'	circ
12 1/4"	8 5/8"	24#	1200'	Circ
7 7/8"	5 1/2"	17#	8400'	500 sacks

BOP: See drawing No. 4 attached

Mud Program: 0-300' fresh water spud mud
300' - 5200' fresh water with paper for seepage
5200' - 8400' Brine water polymer

Gas is not dedicated

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

D. F. Berlin

Assistant

TITLE Area Production Manager

DATE 9-2-77

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

DECLARED WATER BASIN

APPROVED BY

TITLE

C DATE BEHIND THE
CASING MUST BE CIRCULATEDR. L. McMillan
ACTING DISTRICT ENGINEERTHIS APPROVAL IS RESCINDED IF OPERATIONS
ARE NOT COMMENCED WITHIN 3 MONTHS.
EXPIRES JAN - 3 1978
See Instructions On Reverse SideNOTIFY HOSE IN SUFFICIENT TIME TO
WIND-UP CEMENTING AND CASING.RECEIVED
SEP 15 1977
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the corner monumented on the plat.

Well No. 1

Gulf Oil Corp. Grynberg "A" Fed.
County Eddy

B 5 18 South 25 East

660 North 1980

3602.0 Morrow Undes. Morrow 320 Acres

ILLECIBLE

RECEIVED

SEP 15 1977

U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

entire the acreage dedicated to the subject well be colored green and labeled "Dedicated Acreage".

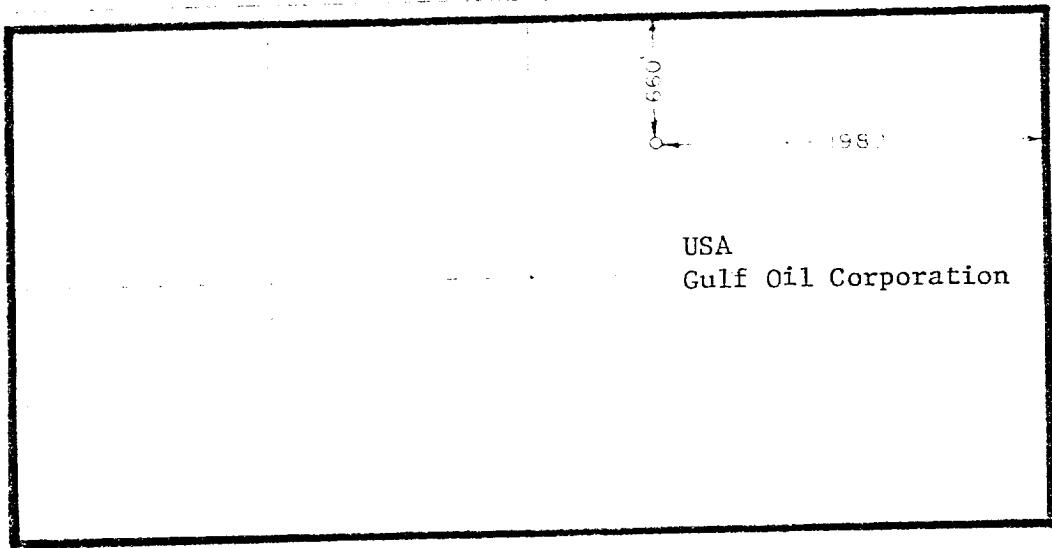
If more than one lease is dedicated to the well, entire each and identify the lease (showing there is no overlapping interest and royalty)

If more than one lease of different ownership is dedicated to the well, show the ownership of each lease (dated 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 (show here the consolidation of interests) (use this form if necessary).

No allowable will be assigned to the well until all interests have been consolidated, communitized, unitized, force pooling, or otherwise for until a non-standard unit, eliminating some of the interests and applying to the entire unit.



D. T. Berlin

D. T. Berlin
Assistant
Area Production Manager

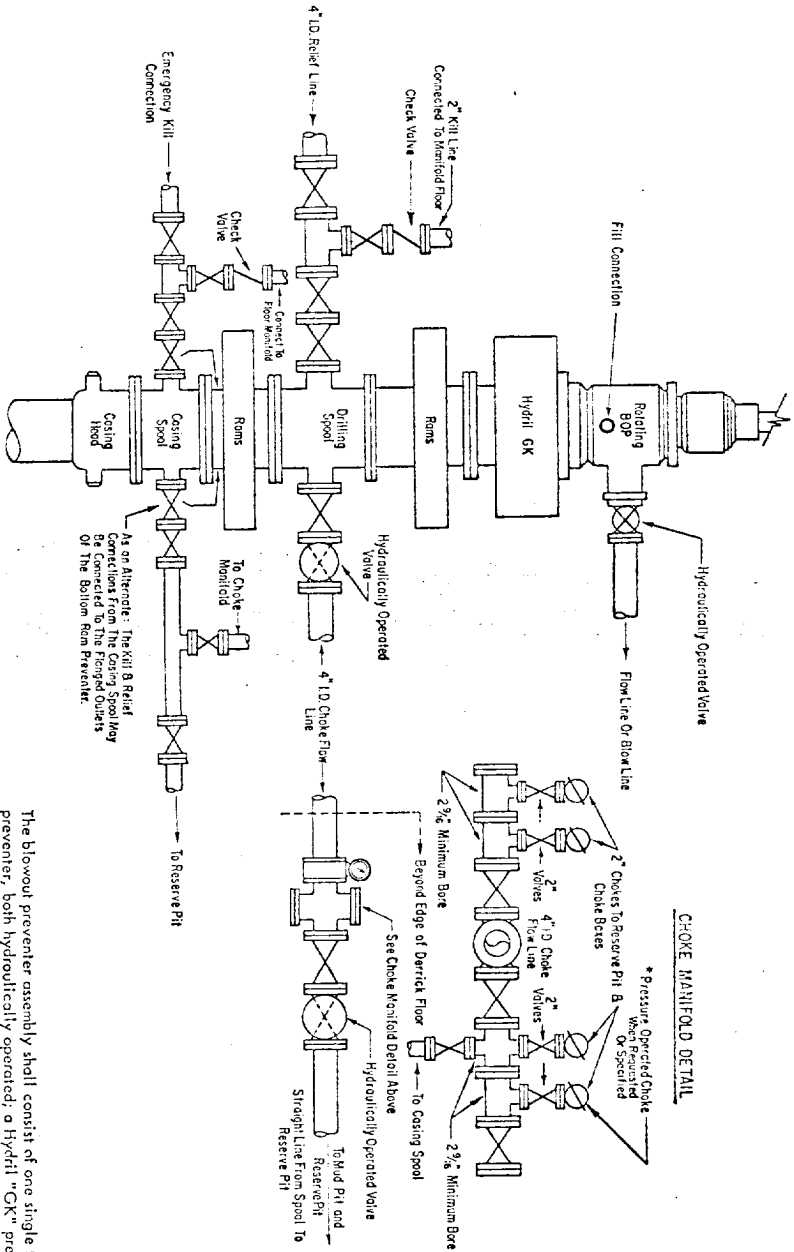
Gulf Oil Corporation

September 2, 1977



August 30, 1977

John W. West



CHOKES MANIFOLD DETAIL

ADDITIONS-DELETIONS-CHANGES
 SPECIFY

5000 # PSI WORKING PRESSURE BLOWOUT PREVENTER HOOK-UP

hydraulic operating system which is to be a closed system. (2) Accumulators with a precharge of nitrogen of not less than 750 PSI and connected so as to receive the aforementioned fluid charge. With the charging pumps shut down, the pressurized fluid volume stored in the accumulators must be sufficient to close all the pressure-operated devices simultaneously within _____ seconds, after closure, the remaining accumulator pressure shall be not less than 1000 PSI with the remaining accumulator fluid volume at least _____ percent of the original. (3) When requested, an additional source of power, remote and equivalent, is to be available to operate the above pumps, or there shall be additional pumps operated by separate power and equal in performance capabilities.

The closing manifold and remote closing manifold shall have a separate control for each pressure-operated device. Controls are to be labeled, with control handles indicating open and closed positions. A pressure reducer and regulator must be provided for operating the Hydraulic preventer. When requested, a second pressure reducer shall be available to limit operating fluid pressures to ram preventers. Gulf Legion No. 38 hydraulic oil, an equivalent or better, is to be used as the fluid to operate the hydraulic equipment.

The choke manifold, choke flow line, relief line, and choke lines are to be supported by metal stands and adequately anchored. The choke flow line, relief line, and choke lines shall be constructed as straight as possible and without sharp bends. Easy and safe access is to be maintained to the choke manifold. If deemed necessary, walkways and stairways shall be erected in and around the choke manifold. All valves are to be selected for operation in the presence of oil, gas, and drilling fluids. The choke flow line valves and relief line valves connected to the drilling spool and all ram type preventers must be equipped with stem extensions, universal joints if needed, and hand wheels which are to extend beyond the edge of the derrick substructure. All other valves are to be equipped with handles.

* To include derrick floor mounted controls.

ADDITIONS - DELETIONS - CHANGES
SPECIFY

Gulf Energy and Minerals Company - U.S.

SOUTHWEST DIVISION

HOBBS AREA

August 31, 1977

C. D. Borland
AREA PRODUCTION MANAGER

P. O. Box 670
Hobbs, NM 88240

RECEIVED

Re: Application for Permit to Drill
Proposed Grynberg "A" Federal Well No. 1
Eddy County, New Mexico

SEP 15 1977

U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

U. S. Geological Survey
P. O. Box 1157
Hobbs, N.M. 88240

Gentlemen:

We are submitting the information requested in NTL-6 which should accompany application for permit to drill.

Well: Grynberg "A" Federal Well No. 1

1. Location: 660' FNL and 1980' FEL Section 5, T-18-S, R-25-E, Eddy County, New Mexico.

2. Elevation of Unprepared Ground: 3602' GL.

3. Geologic Name of Surface Formation: Quarternary Alluvium.

4. Type Drilling Tools: Rotary.

5. Proposed Drilling Depth: 8400'.

6. Estimated Top of Geologic Markers: San Andres 700', Glorieta 2000', Abo 4050',
Wolfcamp 5200', Cisco Canyon 6350', Strawn 7500',
Atoka 7910', Morrow 8175', Barnett 8350'.

7. Estimated Depth at which Anticipated Gas or Oil-Bearing Formations Expected:

- a. Wolfcamp 5200' - 5300'.
- b. Strawn 7500' - 7600'.
- c. Atoka 7910' - 8000'.
- d. Morrow 8190' - 8350'.

8. Casing Program and Setting Depths:

	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Setting Depth</u>
Surface	13-3/8"	48#	H-40	300'
Intermediate	8-5/8"	24#	K-55	1200'
Production	5-1/2"	17#	K-55	8400'

9. Casing Setting Depth and Cementing Program:

- a. Surface casing will be 13-3/8" set at 300' and cemented with 200 sacks of Howcolite plus 200 sacks of Class C with 2% CaCl₂.
- b. Intermediate casing will be 8-5/8" set at 1200' and cemented with 450 sacks thickset with 3/4#/sk Gilsonite and 1/4#/sk floseal and 200 sacks Class C with 2% CaCl₂.



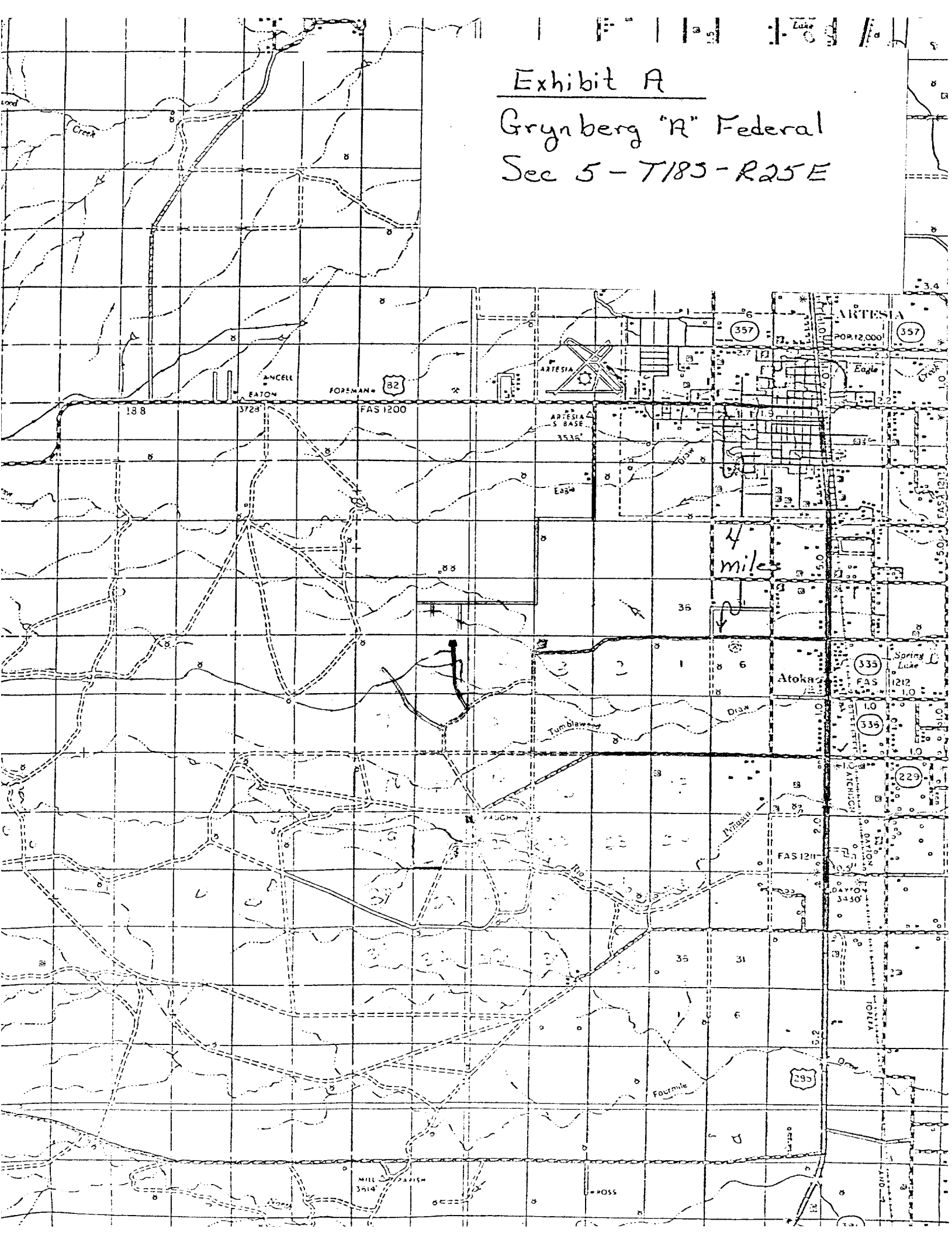
- c. Production casing will be 5-1/2" set approximately 8400' and cemented with Class "H" with 4% gel and Class "H" neat with sufficient volumes to bring cement top to 5000'. Volumes to be determined by caliper log.
10. Pressure Control Equipment: The minimum specifications for pressure control equipment can be seen on the attached Drawing No. 3 of Gulf's blowout preventer hook-up for 3000 psi working pressure.
11. Circulating Media: 0 - 1200' fresh water spud mud; 1200 - 5200' brackish water; 5200 - 8400' salt water polymer with the following properties: viscosity 32-37 sec.; water loss 20 cc's or less, weight 9.0 - 9.5 and 4% KCL. Heavier weight mud will be used if required by well conditions.
12. Testing Logging and Coring Programs:
- a. Formation testing may be done at any depth where samples, drilling rate, or log information indicate a possible show of oil or gas.
 - b. Open hole logs will be run at total depth.
 - c. No cores are planned.
13. Abnormal Pressure or Temperature and Hydrogen Sulfide Gas: We do not anticipate any abnormal pressure or temperature; however, BOP's with remote control and choke manifold as shown on Drawing Nol 3 prior to drilling below intermediate casing.
- The presence of hydrogen sulfide gas is not anticipated.
14. Anticipated Starting Date: Drilling Operations should start between October 1 and October 15, 1977.
15. Other Facets of the Proposed Operation: None

by: *C. D. Borland*
C. D. BORLAND
Area Production Manager

Attachments
RLV/rm

Exhibit A

Grynberg "A" Federal
Sec 5 - T18S - R25E



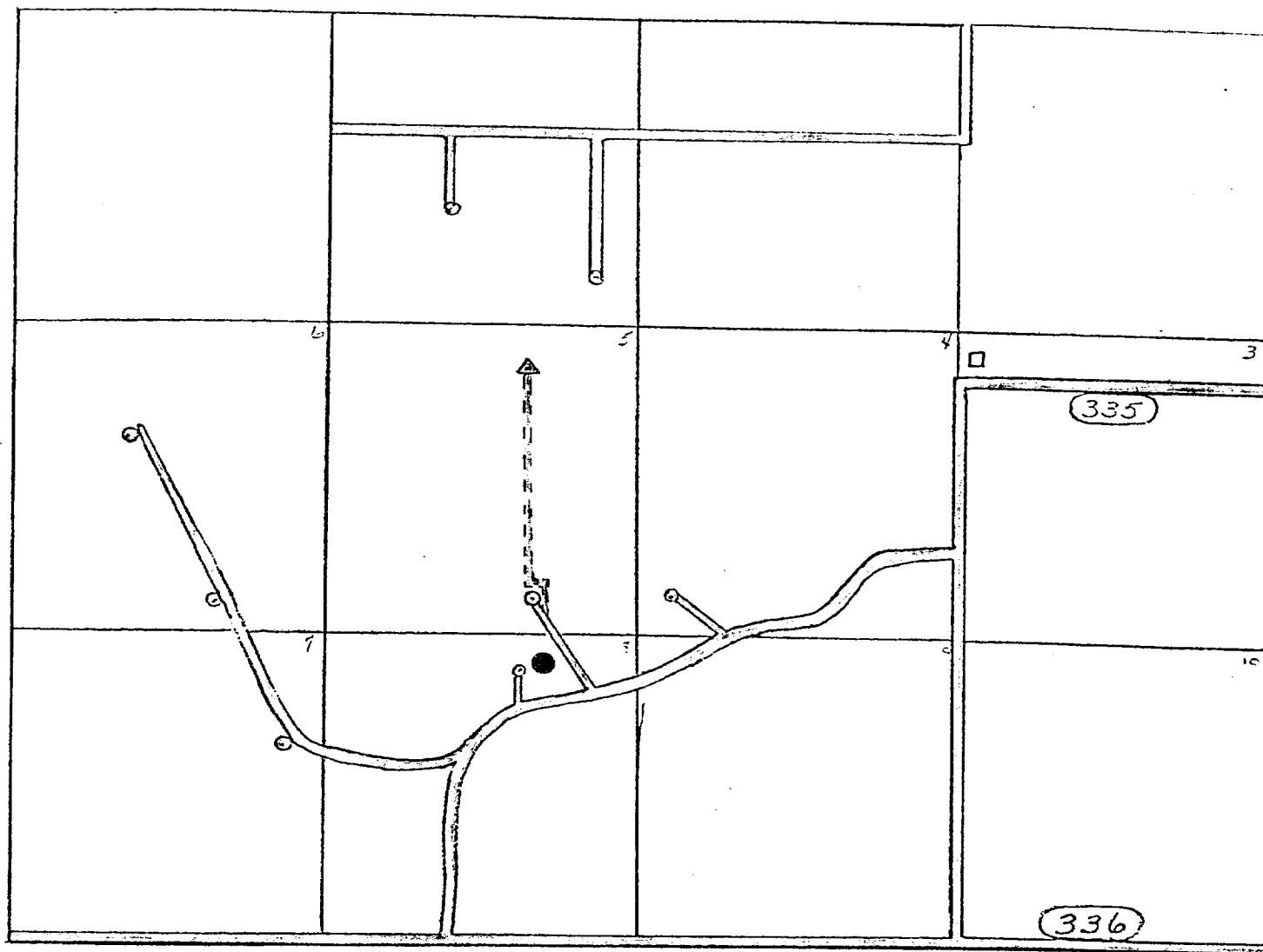


Exhibit B

Grynberg "A" Federal #1

Sec 5 - T18S - R25E

Gulf Oil Corp.

Existing Roads —

Proposed New Access —

Roads to be Improved

Caliche Pit ●

Residence □