

NMOCC COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN _____ Llicate*
(Other instructions on
reverse side)Form approved.
Budget Bureau No. 42-R1425.

30-015-22408

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

5. LEASE DESIGNATION AND SERIAL NO.

LC-29390-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Keohane et al "B" Fed Com

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Undes. Artesia Morrow

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

Sec 28, T-18-S, R-31-E

12. COUNTY OR PARISH

Eddy

13. STATE

NM

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, NM 88240

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

At surface

2230' FNL & 660' FWL, Section 28-T-18-S, R-31-E

At proposed prod. zone

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

10. 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

11,950'

20. ROTARY OR CABLE TOOLS

Rotary

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

3615' GL

22. APPROX. DATE WORK WILL START*

2-18-78

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#	620'	Circ
12 1/4"	9 5/8"	40#	4520'	Circ
8 3/4"	7"	26 & 23#	11,950'	Approx TOC 9000'

Mud: 0-4520' - Spud mud and Fresh water
4520-10,900' - Brackish water 9-10 ppg
10900 - TD - Salt Water Polymer

Note: See attached BOP Drawings #2 and #4

Gas is dedicated.

RECEIVED
JAN 12 1978
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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 Area Production Manager

DATE 1-11-78

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

JAN 25 1978

APPROVED BY

TITLE ACTING DISTRICT ENGINEER

DATE JAN 25 1978

CONDITIONS OF APPROVAL, IF ANY:

THIS APPROVAL IS RESCINDED IF OPERATIONS
ARE NOT COMMENCED WITHIN 3 MONTHS.
EXPIRES APR 25 1978

*See Instructions On Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

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

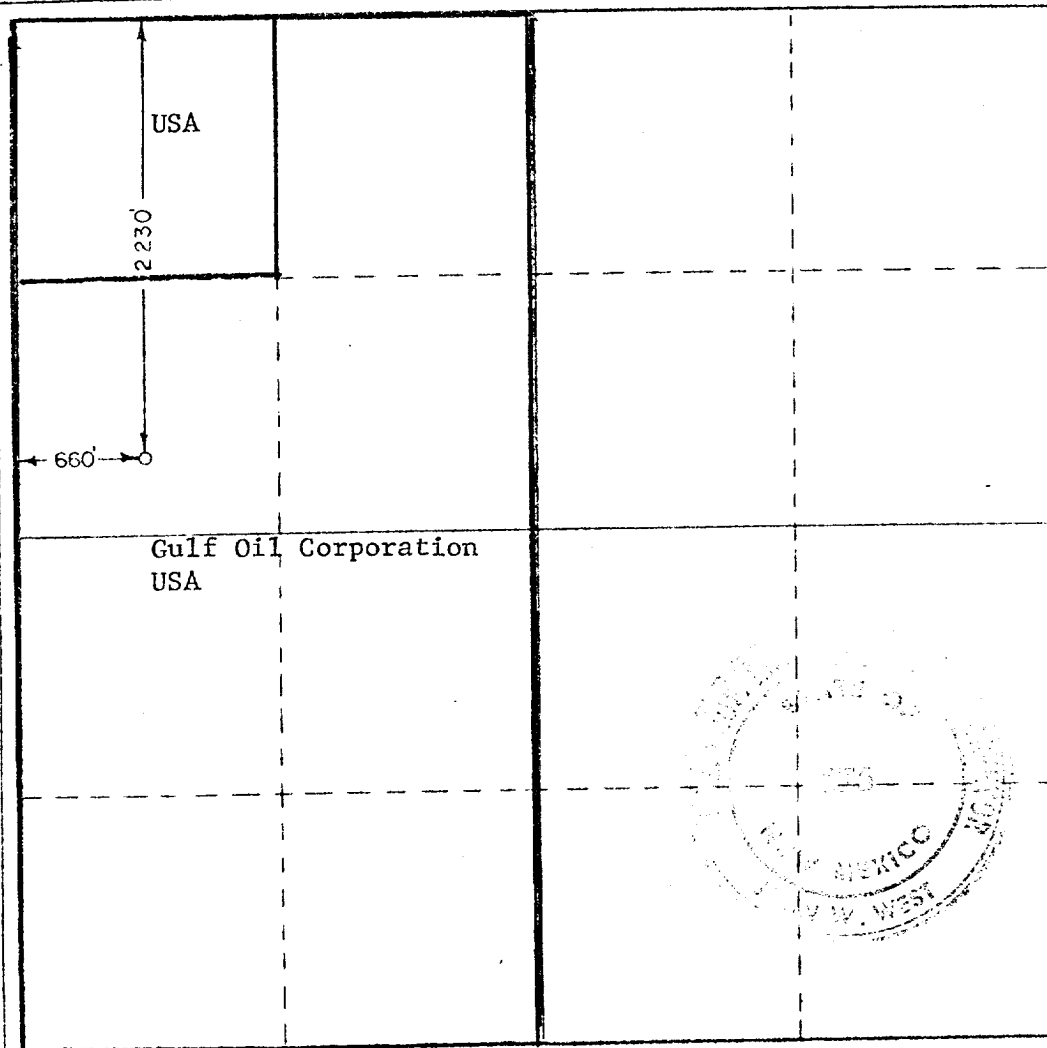
Operator Gulf Oil Corp.		Lease Koehane et al B, Fed. Com.		Well No. 1
Unit Letter E	Section 28	Township 18 South	Range 31 East	County Eddy
Actual Footage Location of Well: 660 feet from the West line and 2230 feet from the North line				
Ground Level Elev. 3614.7	Producing Formation Morrow	Pool Unders Artesia Morrow	Dedicated Acreage 320 Acres	

- Outline the 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 (as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interests of all been consolidated by communitization, unitization, force-pooling, etc?

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

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.

C. D. Borland

Name

C. D. Borland

Position

Area Production Manager

Company

Gulf Oil Corporation

Date

1-11-78

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.

Date Surveyed

1/9/78

Registered Professional Engineer and Land Surveyor

John W. West

Certificate No.

John W. West

676

Ronald J. Eidson

3239

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

Gulf Energy and Minerals Company - U. S.

SOUTHWEST DIVISION
HOBBS AREA

C. D. Borland
AREA PRODUCTION MANAGER

January 10, 1978

P. O. Box 670
Hobbs, NM 88240

Re: Application for Permit to Drill
Proposed Keohane et al "B" Federal
Com Well No. 1, Eddy County, NM

U. S. Geological Survey
P. O. Drawer "U"
Artesia, New Mexico 88210

Gentlemen:

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

Well: Keohane et al "B" Federal Com Well No. 1

1. Location: 2230' FNL & 660' FWL, Section 28, T18S, R31E, Eddy County, N. M.
2. Elevation of Unprepared Ground: 3614' GL.
3. Geologic Name of Surface Formation: Quarternary alluvium.
4. Type Drilling Tools: Rotary.
5. Proposed Drilling Depth: 11,950'.
6. Estimated Top of Geologic Markers: Anhydrite, 535'; Base Salt, 1960'; Bone Springs, 6090'; Wolfcamp, 9770'; Strawn, 10765'; Atoka, 11080'; Morrow, 11525'; Barnett, 11925'.
7. Estimated Depths at which Anticipated Gas or Oil-Bearing Formations Expected:
 - a. Atoka 11,100' - 11,350'
 - b. Morrow 11,550' - 11,900'
8. Casing Program and Setting Depths:

	SIZE	WEIGHT	GRADE	SETTING DEPTH
Surface	13-3/8"	48#	H-40	620'
Intermediate	9-5/8"	40#	K-55	4,520'
Production	7"	26# & 23#	K-55 & N-80	11,950'

9. Casing Setting Depth and Cementing Program:

- a. Surface casing will be 13-3/8" set at 620' and cemented with 300 sacks of Class "C" with 6% gel, 1/4#/sack Flocele, 2% CaCl₂ and 200 sacks of Class "C" with 2% CaCl₂.



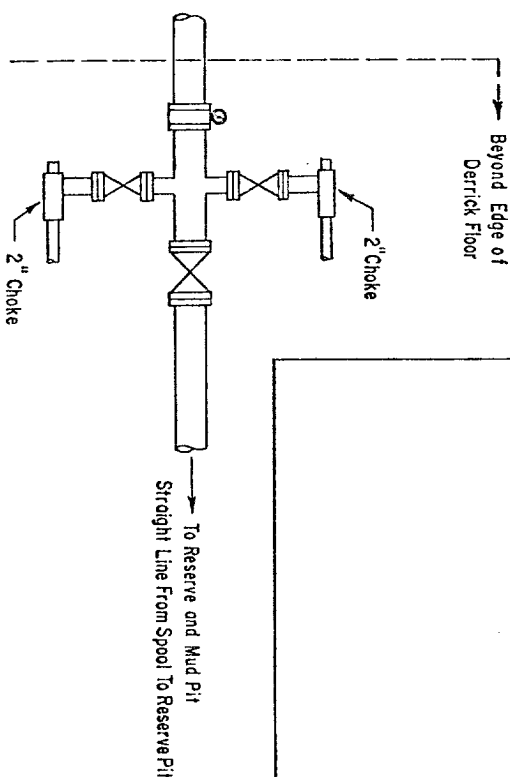
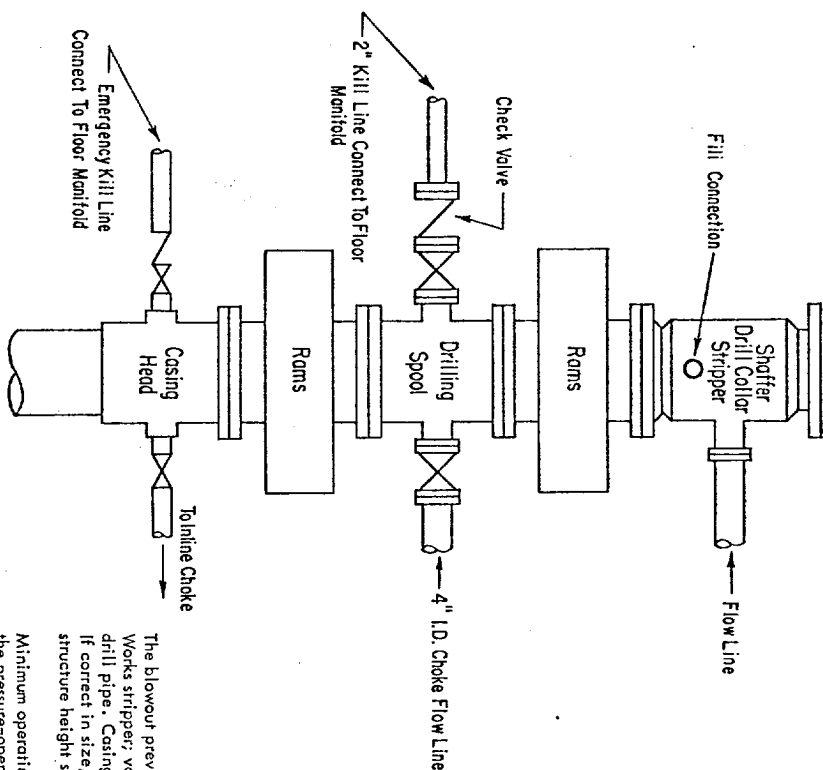
January 10, 1978

- b. Intermediate casing will be 9-5/8" set at 4520' and cemented with 1000 sacks of Class "C" with 16% gel, 0.2% CFR-2, 3% CaCl_2 and 300 sacks Class "C" with 2% CaCl_2 .
- c. Production casing will be 7" set approximately 11,950' and cemented with Class "H" with 0.75% CFR-2, 5#/sack KCL with volume necessary to bring cement top to 9000' using caliper survey for volumes.
10. Pressure Control Equipment: The minimum specifications for pressure control equipment can be seen on the attached Drawing No. 4 of Gulf's blowout preventer hook-up for 3000 psi working pressure.
11. Circulating Media: 0' - 620', fresh water spud mud; 620' - 4520', fresh water; 4520' - 10900', brackish water; 10900' - 11950', salt water polymer with the following properties: Viscosity, 34-38 sec.; Water loss, 5 cc's or less; Weight, 9.5 - 10.5 ppg. 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.
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 No. 4 will be installed prior to drilling below intermediate casing.
- The presence of hydrogen sulfide gas is not anticipated.
14. Anticipated Starting Date: Drilling operations should begin between February 1, 1978 and March 1, 1978.
15. Other Facets of the Proposed Operation: None.



C. D. BORLAND
Area Production Manager

Attachments



ADDITIONS - DELETIONS - CHANGES
SPECIFY

3000 PSI WORKING PRESSURE BLOWOUT PREVENTER HOOK-UP

The blowout preventer assembly shall consist of one blind ram preventer and one pipe ram preventer, both hydraulically operated; a Shafter Tool Works stripper; valves; chokes and connections, as illustrated. If a tapered drill string is used, a ram preventer must be provided for each size of drill pipe. Casing and tubing rams to fit the preventers are to be available as needed. The ram preventers may be two singles or a double type. If correct in size, the flanged outlets of the ram preventer may be used for connecting to the 4-inch I.D. choke flow line and kill line. The sub-structure height shall be sufficient to install a rotating blowout preventer.

Minimum operating equipment for the preventers shall be as follows: (1) Pump (s), driven by a continuous source of power, capable of closing all the pressure-operated devices simultaneously within _____ seconds. The pump (s) is to be connected to a closed type hydraulic operating system. (2) When requested, accumulators with a precharge of nitrogen of not less than 750 PSI and connected so as to receive a fluid charge from the above pump (s). With the charging pump (s) 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 pump (s), or there shall be an additional pump (s) operated by separate power and equal in performance capabilities.

The 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 if a Hydril preventer is used. 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, and choke lines are to be supported by metal stands and adequately anchored. The choke flow 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. All valves are to be selected for operation in the presence of oil, gas, and drilling fluids. The choke flow line valve 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.

hydraulic operating system which 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. When the charging pumps shut down, the pressurized fluid volume stored in the accumulators must be sufficient to close all the pressure-actuated devices simultaneously within _____ seconds after closure, the remaining accumulator pressure shall be not less than 1000 PSI with the remaining accumulator fluid volume of 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 HydriL preventer. When requested, a second pressure reducer shall be available to limit operating fluid pressures to ram preventers. 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 HydriL preventer. When requested, a second pressure reducer shall be available to limit operating fluid pressures to ram preventers. 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 HydriL preventer. When requested, a second pressure reducer shall be available to limit operating fluid pressures to ram preventers.

The choke manifold, choke flow 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 oil 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.

Exhibit "A"
Keohane "B" Fed. Com.
Sec 28 T18S-R31E
Gulf Oil Corp.

#1

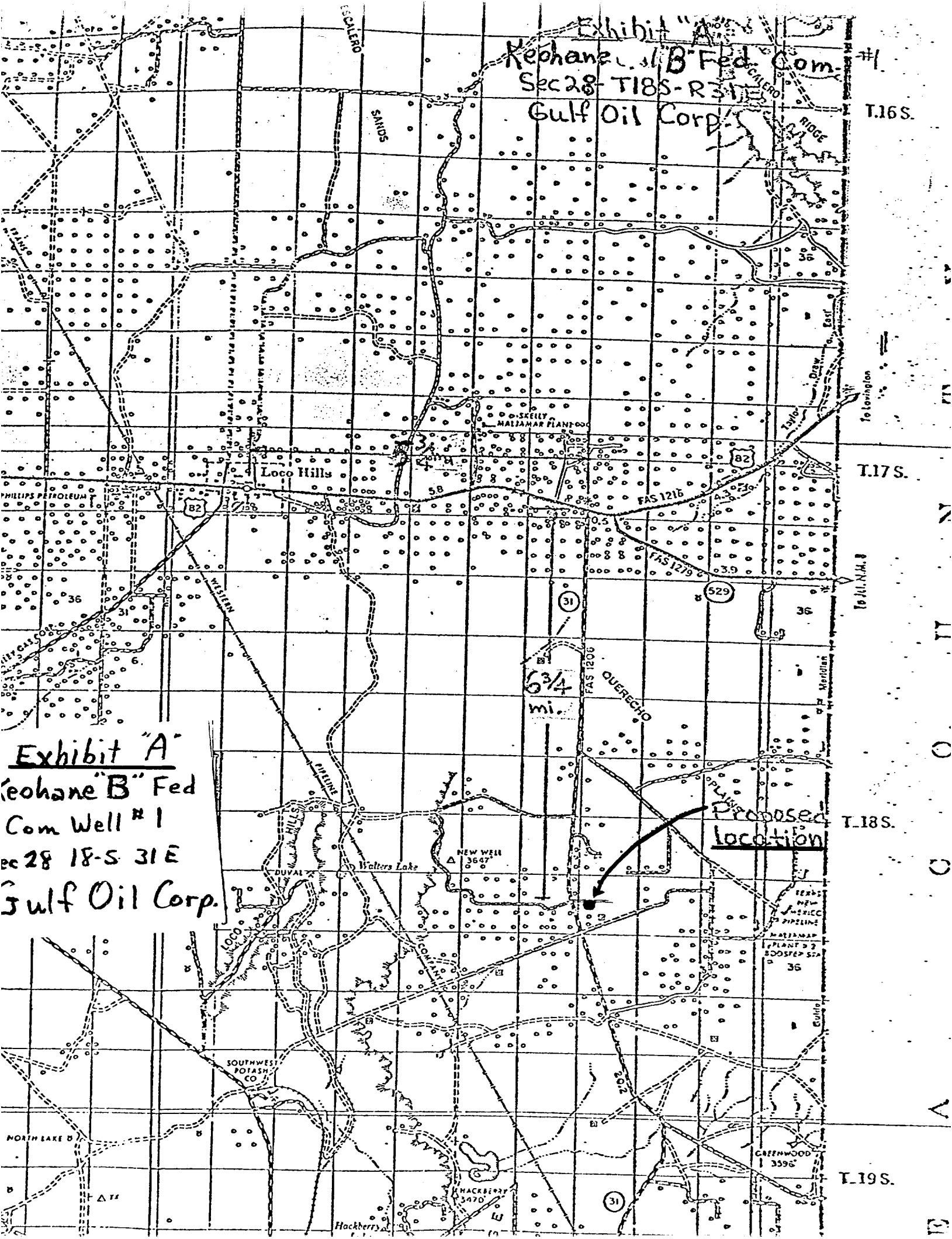
T.16S.

T.17S.

T.18S.

T.19S.

Exhibit "A"
Keohane "B" Fed
Com Well #1
Sec 28 18-S 31 E
Gulf Oil Corp.



The map is a hand-drawn site plan or survey map. It features a grid system with sections labeled 20, 21, 28, 29, 31, 32, and 33. A large arrow points from the text 'Proposed location' to a specific spot on the grid. The map includes various numbered points and symbols, including a circle with a crosshair labeled 'House'. The map also shows roads, a river, and other geographical features.

Keohane et al. ¹B Fed. Com. #1

Gulf Oil Corp.