

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Gifford, Mitchell & Wisenbaker

3. ADDRESS OF OPERATOR

1280 Midland Nat'l Bank Tower, Midland, TX 79701

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

At surface

1980 FEL and 380' FSL of Section 25

At proposed prod. zone

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

5 miles SW of Cooper, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

380'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

None

16. NO. OF ACRES IN LEASE

320'

19. PROPOSED DEPTH

3800'

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

GR = 3375

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	1400	750 SX
7 7/8"	5 1/2"	14	3800	450 SX

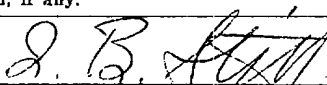
See attached for full description of drilling program.

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"

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

Production Engineer

DATE

9/25/78

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
AS AMENDED

OCT 19 1978

James F. Sims

JAMES F. SIMS
DISTRICT ENGINEER

*See Instructions On Reverse Side

RECEIVED
OCT 24 1978
OIL CONSERVATION COMM.
HOBBBS, N. H.

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.

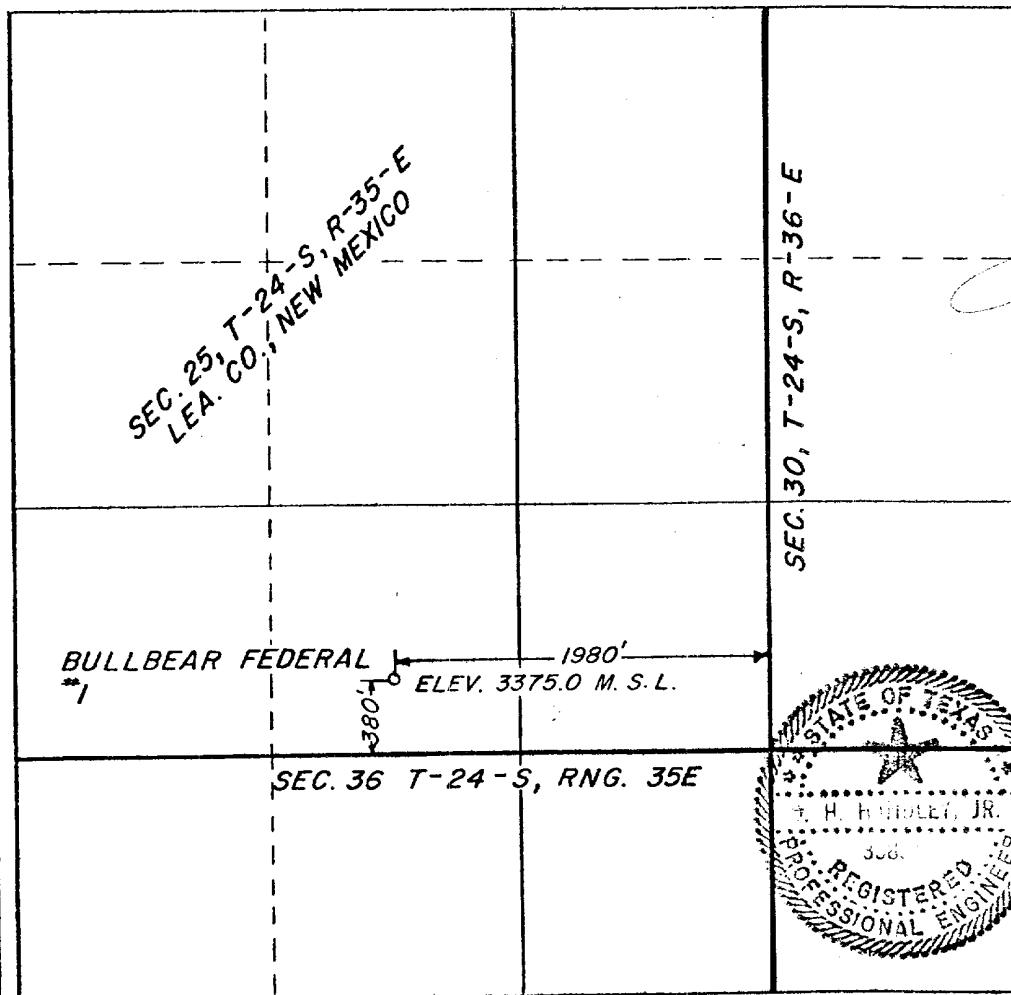
Operator GIFFORD, MITCHELL & WISENBAKER			Lease BULL BEAR FEDERAL		Well No. 1
Unit Letter	Section 25	Township 24-S	Range 35-E	County LEA	
Actual Footage Location of Well: 380 feet from the SOUTH line and 1980 feet from the EAST line					
Ground Level Elev: 3375.0 M.S.L.	Producing Formation Yates		Pool 15-15-15	Dedicated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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

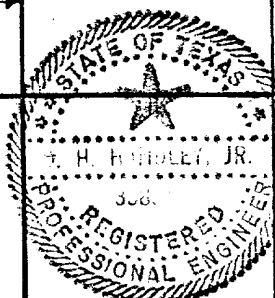
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name *Terrence A. Hurdley*
Position
Office Manager
Company
Gifford, Mitchell & Wisenbaker
Date
9/26/78

I hereby certify that the well location shown on this plot 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
9-25-78
Registered Professional Engineer
and/or Land Surveyor

Terrence A. Hurdley
Certificate No.
33851



RECEIVED

OCT 24 1978

OIL CONSERVATION COMM.
HOBBS, N. M.

23 24

24 19

26

25 30

SCALE : 1" = 1000'

I Hereby Certify That This Plat Was Made From
Notes Taken In The Field In An Actual Bonafide
Survey And That The Same Is True And Correct
To The Best Of My Belief.

PROPOSED G.M.W.
LITTLE HAWK FEDERAL
NO. 1

N00°09'E
3300'

S83°32'06"E / 3000.08'

PROPOSED G.M.W.
BULL BEAR FEDERAL
NO. 1

S89°51'E
1001.88'

S89°51'E / 2981.88'

S80°23'16"E / 2007.31'



Gifford, Mitchell, Wisenbaker

B & W SURVEYING & MAPPING, INC.



MIDLAND, TEXAS

BK. NO. WL-2, PG. 10

PLAT SHOWING LOCATION OF ACCESS
ROAD ON U.S. LANDS IN SECTION 25,
T-25-S, R-35-E
LEA COUNTY, NEW MEXICO

DWN.	M.C.B.	DATE 9/22/78	CKD. EHH	APP. EHH
JOB	WL-070	DWG. NO.	WL-070-1-A	REV.

GIFFORD, MITCHELL & WISENBAKER

#1 Bull Bear Federal

1. Geologic name of the surface formation.

Quaternary Alluvium

2. Estimated tops of important geologic markers.

Rustler	1,000'
Salado	1,600'
Tansill	3,150'
Yates	3,350'

3. Estimated depths at which anticipated water, oil, or other mineral-bearing formations are expected to be encountered.

Water - Ground water anticipated 200 - 300'
Oil - 3,250'

4. Proposed Casing Program:

<u>String</u>	<u>Size, Weight, Grade</u>	<u>Minimum Condition</u>	<u>Depth Interval</u>
Surface	8-5/8" /24/ H-40	Class II	0-1400'
Production	5 1/2" / 14 /H-40	Class II	0-3300'

Casing strings run will be at least as strong as string shown.
Actual pipe run may be different depending on casing available.

5. Minimum specifications for pressure control equipment:

a) Casinghead Equipment

Casinghead: 8-5/8" STC x 4-1/2" 2000 psi WP screwed
Tubinghead: 4-1/2" x 2-3/8" 2000 psi screwed
Tree: 2-3/8" 2000 psi WP screwed

b) Blowout Preventers

Refer to attached drawing. The BOP will be installed after the 8-5/8" surface casing is set and will be no smaller than 10" API nor less than 2000 psi WP.

c) BOP Control Unit

Remotely located, hydraulically operated.

d) Testing

When installed on the 8-5/8" casing, the BOP will be tested to a low pressure (200-300 psi) and to at least 1500 psi. Thereafter, it will

#1 Bull Bear Federal

be tested approximately weekly to 1500 psi. An operational test of the BOP will be performed each round trip but no more than once a day. The pipe ram will be closed around the drill pipe, and the blind rams will be closed while the pipe is out of the hole.

6. Type and anticipated characteristics of drilling fluid:

Surface hole will be drilled with a minimum weight fresh water spud mud compatible with operating conditions.

Production hole will be drilled with brine water. Depending on hole conditions and DST and core requirements, the system may be mudded up as follows:

Type: Saturated Brine
Weight: 9-10 ppg
Funnel Viscosity: 28-35 sec.
Water Loss: 10-30 cc.
Solids: Minimum
pH: 10.5+

Not less than 75 barrels of fluid will be in the pits.

7. Auxiliary Control Equipment:

- a) Lower Kelly Cock
- b) Full opening ball type safety valve to fit each size of drill pipe on the rig floor on trips.

8. Testing, logging, and coring program to be followed:

0 - T.D.: Gamma Ray, Sonic, FDC-CNL, and DLL or DIL
3250-3350: Possible 2DST's depending on shows
3250-3300: Approximate 50' core in pay zone

9. No abnormal temperatures or pressures are anticipated. The pressure can be controlled by the hydrostatic head of drilling fluid in the hole. Hydrogen sulfide gas is expected to be minimal.

10. It is anticipated that the drilling operations will begin in 30 days.

SURFACE USE PLAN

Gifford, Mitchell & Wisenbaker - Exploratory Wells
No. 1 Bull Bear Federal - Lease No. NM-32462 - 380 FSL and 1980 FEL of
Section 25, 24S-35E, Lea County, New Mexico

1. EXISTING ROADS - Detailed map showing drillsite location in relation to a town or known point and all existing roads within three miles of the drillsite are shown on Exhibit "A".

From Jal, go North on paved road 6 miles. Turn West and continue on improved road approximately 3 miles to a graded road going westerly. Proceed westerly on graded road 4 miles, then South 2 miles; then West to drillsite.

2. PLANNED ROADS - It is planned to construct approximately 1000' of new road as shown on Exhibit "A". The existing access road will be improved by grading, widening and adding caliche where necessary. Caliche will be hauled from a pit on the Woolworth ranch located on private lands, which is managed by the Trustees, Jal Public Library fund.

- 1) Width of the new road to be constructed will be approximately 16 feet.
- 2) No grade change will be made in any part of the existing access road or the new road to be constructed in excess of 5 percent.
- 3) No turnouts will be necessary.
- 4) No special drainage features will be necessary.
- 5) No culverts will be required.
- 6) Caliche will be used only on a portion of the road.
- 7) No cattleguards will be required.
- 8) The proposed new road is center-line flagged.

3. LOCATION OF EXISTING WELLS WITHIN TWO MILE RADIUS -

- 1) Water wells - There are windmills located approximately one mile northeast of the drillsite
- 2) Abandoned wells - One dry hole is shown on Exhibit "A" within 2 miles of drillsite.

- 3) Temporarily abandoned wells - None
- 4) Disposal wells - None
- 5) Drilling wells - None
- 6) Producing wells - One as shown on Exhibit "A".
- 7) Shut-In wells - None
- 8) Injection wells - None
- 9) Monitoring or observation wells for other resources - None

4. TANK BATTERIES, PRODUCTION FACILITIES AND LEASE PIPELINES -

- A. There is a tank battery production facility within one mile of the location controlled by lessee, as shown on Exhibit "A".
- B. In the event of production, new facilities are shown on Exhibit "B".
 - 1) Proposed location and attendant lines by flagging if off of well pad shown on Exhibit "B".
 - 2) Dimensions of facilities are shown on Exhibit "B".
 - 3) Production facilities will be constructed on drillsite pad using caliche surface.
 - 4) Equipment and pit will be fenced and flagged to protect livestock and wildlife, if necessary.
- C. Rehabilitation will be done on any disturbed areas no longer needed for operations after completion of the production facilities. This will consist of reshaping the existing surface and seeding as specified.

5. LOCATION AND TYPE OF WATER SUPPLY -

- A. Water will be hauled from an existing water well located approximately 4 miles North of Jal off Highway 18. In the event brine water is used, it will be hauled by truck from a source outside the area. In the event water is pumped, the pipeline will be laid on the surface of the ground along the access road to the drillsite.
- B. No water well will be drilled.

6. SOURCE OF CONSTRUCTION MATERIALS -

- A. Caliche will be obtained from a privately owned pit on the Woolworth ranch, approximately 3 miles Northwest of the drillsite.

- B. No construction materials will be used from Federal or Indian lands.
- C. Caliche secured from private sources will be used where needed on the road and drillsite.
- D. All access roads are shown on Exhibit "A".

7. WASTE DISPOSAL -

- A. Drill cuttings will be disposed of in the reserve pit.
- B. Drilling fluids will be allowed to evaporate in the reserve pit until the pit is dry.
- C. Trash, waste paper, garbage and junk will be burned or buried with a minimum of 24" cover. Waste material will be contained to prevent scattering by wind prior to ultimate disposal.
- D. Any produced water will be contained in tanks and be disposed of in an approved manner. Oil produced will be stored in tanks until sold, at which time it will be hauled from location.
- E. Current laws and regulations pertaining to disposal of human waste will be complied with.
- F. If productive, maintenance waste will be placed in special containers and buried or hauled away periodically.

8. ANCILIARY FACILITIES - No camps, airstrips, et cetera, will be constructed.

9. WELL SITE LAYOUT -

- A. Refer to Exhibit "B" for well site layout.
- B. Dimensions may vary slightly depending on size of drilling rig available.
- C. Terrain at the well site is very flat as shown on Exhibit "B".
- D. The pad will be topped with material obtained from the reserve pit or material hauled in from private property traversed by the access road.
- E. The reserve pit will be approximately 125' x 150' top width.

10. RESTORATION OF SURFACE -

- 1) At the time of completion and abandonment of the well, the pits will be backfilled and the entire disturbed area will be sloped to coincide with the adjacent undisturbed area. The top soil will be distributed over the entire disturbed area. Prior to leaving the drillsite upon rig move out and before reshaping any pit that is to remain open for drying will be fenced until backfilling and reshaping can be done.
- 2) When well is abandoned the new road will be rehabilitated as per BLM recommendations.

- 3) Any rehabilitation of the drill pad will comply with BLM specifications.
- 4) Any oil on pits will be removed or otherwise disposed of to USGS and BLM approval.
- 5) Rehabilitation operations will be completed as soon as practical after abandonment of the well and no later than the Fall after abandonment.

11. OTHER INFORMATION -

- A. Terrain - Flat prairie.
- B. Soil - Sandy.
- C. Sparse vegetation - Mesquite and some native grasses.
- D. There are no buildings, ponds, water wells, archeological, historical or cultural sites in the immediate area.
- E. Surface use is grazing.
- F. Effect on Environment - Drillsite, which is in nearly flat semi-arid, desert country, is in a low environmental risk area. The total effect of drilling and producing in this area would be minimal. No known archeological, historical, or cultural sites exist in the drill or road areas.
- G. Surface ownership - the drillsite and new access road is located on private lands owned by the Woolworth Ranch.
- H. Open Pits - All unattended pits containing mud or other liquids will be fenced.
- I. Well sign - Sign identifying and locating well will be maintained at drillsite commencing with the spudding of the well.

12. OPERATOR'S REPRESENTATIVE - Field representative who can be contacted concerning compliance of this Surface Use Plan is:

Jim Salners
 1280 Midland National Bank Tower
 Midland, TX 79701
 Office Phone: (915) 682-6282
 Home Phone: (915) 683-8927

13. CERTIFICATION - I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by

Gifford, Mitchell & Wisenbaker and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. A copy of this plan will be posted at the well site during the drilling of the well for reference by all contractors and subcontractors.

GIFFORD, MITCHELL & WISENBAKER

Date

10/6/78

By

Joe N. Gifford

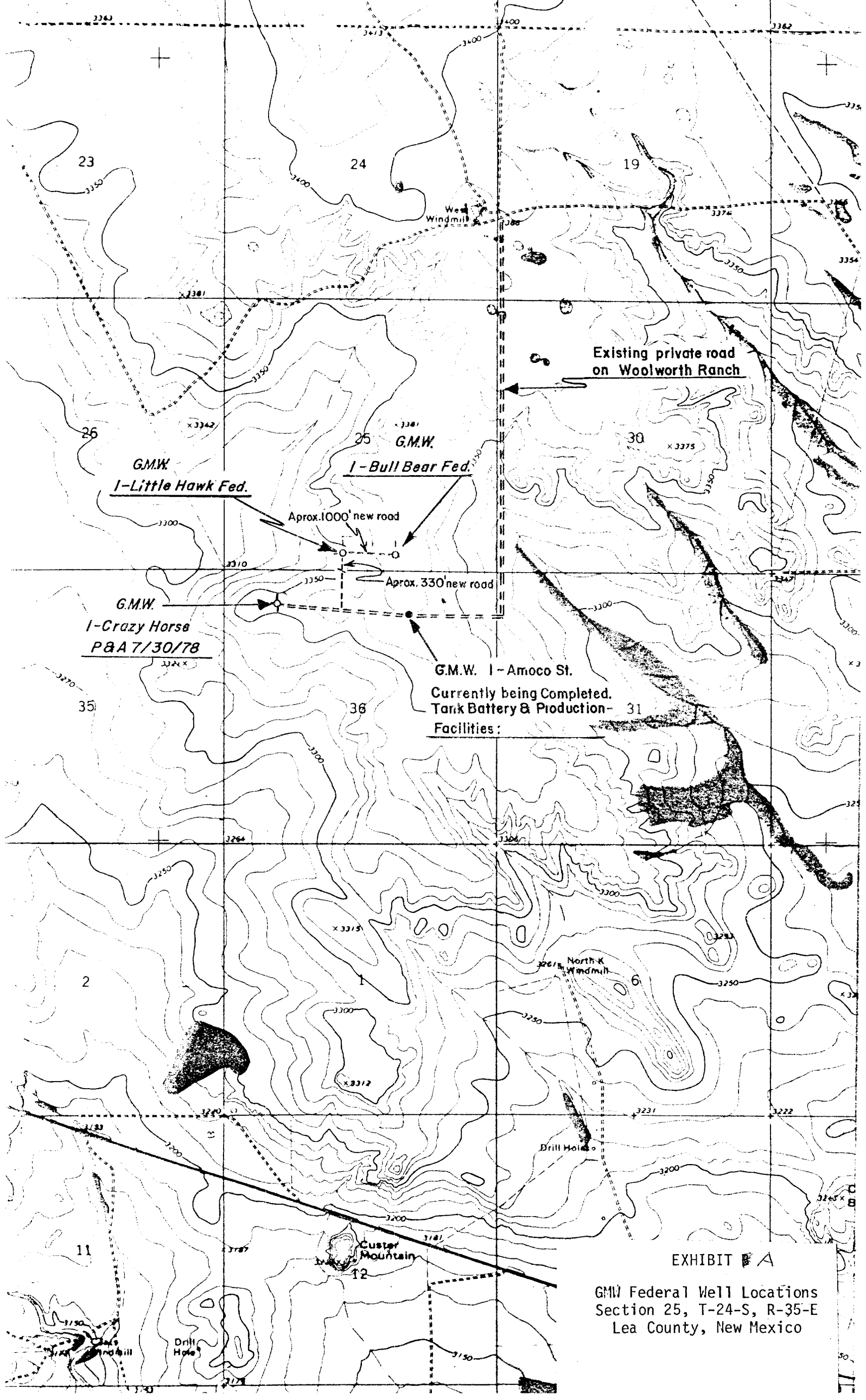
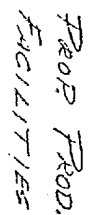
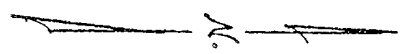


EXHIBIT A

GMW Federal Well Locations
Section 25, T-24-S, R-35-E
Lea County, New Mexico

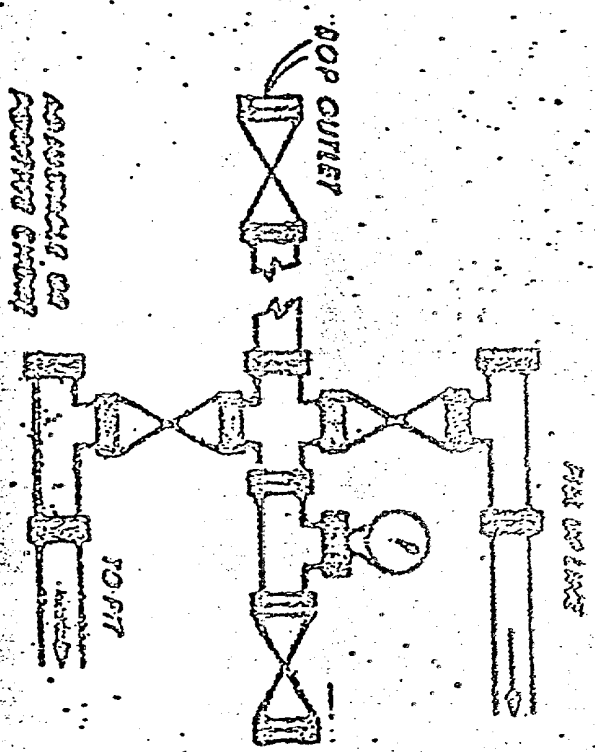
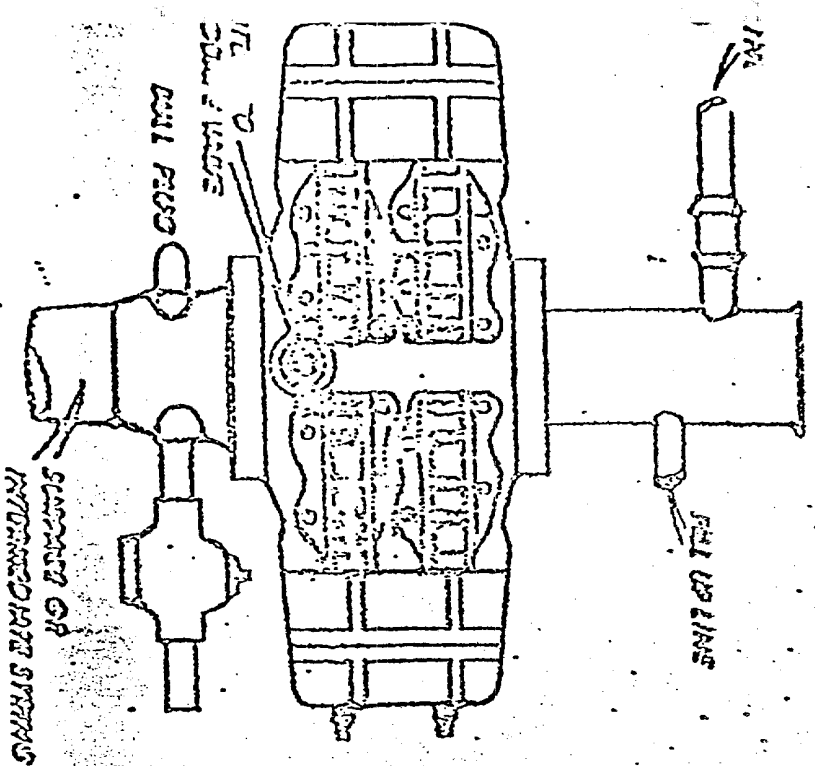
RESERVE
PIT
5' DEEP LINED



CROSS	SECTION	SCALE
2	1"=50'	
2	1"=20'	
5	1"=30'	

LOCATION SITE SURVEY

Gm. BULL BEAR FEDERAL-1 Sec. 25, T. 24 S, R. 35 E,
Lea Co. New Mexico



1. BOP VALVES AND ALL WORKING FITTINGS SHOULD BE IN GOOD WORKING CONDITION.
2. ALL COLTS TO BE INSTALLED AND TIGHT.
3. ALL VALVES TO BE 3000 P.S.I. OR BETTER.
4. AFTER NIPPLING UP TEST RAMS AND PRESSURE UP TO 1500 PSI FOR 15 MINUTES AND CHECK FOR POSSIBLE LEAKS.
5. ALL CREW MEMBERS TO BE FAMILIAR WITH BOP AND ADJUSTATIONS.
6. KEEP HOLE FULL ON TRIPS.
7. USE ONLY FLANGE TYPE FITTINGS.
8. RECHECK COLTS FOR TIGHTNESS BEFORE 5000 FT. OR ENTERING PRODUCTION ZONES.
9. WHEN DRILLING USE:
TOP PREVENTER - DRILL PIPE RAMPS
BOTTOM PREVENTER - DRILL PIPE RAMPS
WHEN RUNNING CASING USE:
TOP PREVENTER - CASING RAMPS
BOTTOM PREVENTER - CASING RAMPS

GIFFORD, MITCHELL & WISENBAKER

SUITE 1280, MIDLAND NATIONAL BANK TOWER

MIDLAND, TEXAS 79701

JOE N. GIFFORD
BASCOM L. MITCHELL
MICHAEL B. WISENBAKER

September 21, 1978

915-682-6282

Re: #1 Bull Bear Federal Wildcat
Lea County, New Mexico
Lease No. NM-32462

Mr. Jim Sims
U. S. Geological Survey
P. O. Box 1157
Hobbs, New Mexico 88240

Dear Mr. Sims:

We have contacted Mr. Carl Martin, Jal, New Mexico, Trustee of the Jal Public Library Fund, manager for the surface owner of the #1 Bull Bear Federal, located in Section 25, T-24-S, R-35-E, Lea County, New Mexico. We have made agreements with Mr. Martin for road right-of-way, drilling water, and location damages.

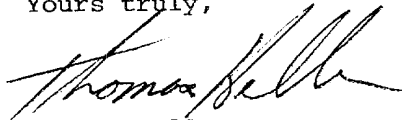
The following work will be completed when the well is abandoned:

Site will be reshaped to conform to existing topography.

Pit will be fenced until dry, then filled to conform to topography.

Access road will be rehabilitated to the satisfaction of the landowner.

Yours truly,



Thomas Heller
Land Manager

TH:mp

Lease No.: NM-32462 ; Well Name and No.: #1 B1 Bear Federal ;
Location: SW/4 SE/4 Sec. 24-S, T. 35-E, R.

Gifford, Mitchell & Wisenbaker Oil Company intends to drill a well on surface owned by Trustees, Jal Public Library Fund. The lessee/operator agrees to complete the following rehabilitation work if the well is a producer:

☒ Yes ☐ No Maintain access road and provide adequate drainage to road.

☐ Yes ☐ No Reshape and reseed any area in excess of the pump and support facilities.

Other requirements: Surface will be restored to as near its original condition as possible.

The following work will be completed when the well is abandoned:

☒ Yes ☐ No Site will require reshaping to conform to existing topography.

☒ Yes ☐ No Pit will be fenced until dry, then filled to conform to topography.

☐ Yes ☒ No Entire disturbed area will be reseeded. If yes, the following seed mixture will be used:

☐ Yes ☒ No Access road will be rehabilitated and reseeded using the same seed mixture as above.

☐ Yes ☐ No Access road will remain for landowner's use.

Other requirements: Access road will remain if so requested by landowner.

Landowner

Name: Mr. Carl Martin
Address: P. O. Box 178
City: Jal
State: New Mexico
Telephone: 505-395-2464
Date: 9-21-78

Operator/Lessee

Name: Gifford, Mitchell & Wisenbaker
Address: 1280 Midland National Bank Tower
City: Midland
State: Texas
Telephone: 915-682-6282
Date: 6-21-78

☒ Yes ☐ No I certify rehabilitation has been discussed with the surface owner.

This agreement covers rehabilitation requirements only and does not affect any other agreements between the lessee/operator and surface owner.

DATE:

Oct. 6, 1978

GIFFORD, MITCHELL & WISENBAKER

By:

Thomas Kelly