

ARTESIA DISTRICT COMMISSION
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
UNITED STATES OF AMERICA
80240

CONTACT RECD
OFFICE FOR 1
OF COPIES REQUIRED
(Other instructions on
reverse side)

30-45-22456 dsk
BLM Roswell District
Modified Form No.
ND60-3160-2

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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 Re-Entry

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Marbob Energy Corporation

3a. Area Code & Phone No.

(505) 748-3303

3. ADDRESS OF OPERATOR

P. O. Drawer 217, Artesia, NM 88210

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

At surface
660 FSL 1980 FEL
At proposed prod. zone
same

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

Approx. 24 air miles east of Artesia, NM 88210

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any) 660'

16. NO. OF ACRES IN LEASE

479

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

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

19. PROPOSED DEPTH

5000'

20. ROTARY OR CABLE TOOLS

Rotary

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

3691.2' GR

22. APPROX. DATE WORK WILL START*

3/1/90

23.

PROPOSED CASING AND CEMENTING PROGRAM

HOLE SIZE	CASING SIZE	WEIGHT/FOOT	GRADE	THREAD TYPE	SETTING DEPTH	QUANTITY OF CEMENT
* 17 1/2"	13 3/8"	48#	K-55	ST&C	478'	500 sx Class C
* 12 1/4"	9 5/8"	36#	K-55	ST&C	3186'	1500 sx Lite & 200 sx Class C
8 3/4"	7"	29#	J-55	LT&C	3086'-5000'	Enough cmt to circ liner

We propose to drill out cmt plugs to 5000', use salt water mud, conditioned as necessary for control of viscosity and water loss or gain, run 7" J-55 LT&C liner from 3086'-5000'. Pay zone will be selectively perforated and stimulated as needed for optimum production.

Former: Amstar Prod. Co. - Fuel E. Co. #1
OTD-11,150 P-A-6-21-78

Post ID-1
3-16-90
Re-entry

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

*Casing already in well.

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

Phonda Nelson

TITLE Production Clerk

DATE 1/30/90

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

312 5-2-90 by Jackson & Hedges

APPROVED BY

TITLE

DATE

3-1-90

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

COMPANY Marbob
LEASE & WELL NO. Greiner Fed #1
FORMATION _____
COUNTY & STATE Eddy

Robert C. Chase
Completion Supervisor
(505) 748-3303



P. O. Drawer 217
Artesia, N.M.
88211-0217

13 3/8 48" @ 478' g/w 5000+ Class C
(CIRC 25sx Cmt)

1 1/2 36" @ 3186' g/w 1500+ Litz + 200+ Class C
(CIRC 100sx)

40sx Plug @ 3150'-3250'

~~60sx Plug @ 4100'-4900'~~

~~60sx Plug @ 6510-6660'~~

~~60sx Plug @ 7800'-7950'~~

~~60sx Plug @ 9275-9475~~

~~60sx Plug @ 10350-10550~~
TD 11150'

SUPPLEMENTAL DRILLING DATA

MARBOB ENERGY CORPORATION
WELL #1 GISSLER FEDERAL
SW/4 SE/4 SEC. 5-17S-30E
EDDY COUNTY, NEW MEXICO
(RE-ENTRY WELL)

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Salt	360'	Queen	2145'
Base Salt	780'	Grayburg	2650'
Yates	1290'	San Andres	2885'
Seven Rivers	1505'	Glorietta	4310'

3. ANTICIPATED POROSITY ZONES:

Water	Above 180' behind pipe
Oil	2500' - 5000'

4. CASING RECORD:

SIZE	WEIGHT	DEPTH	HOLE SIZE	CEMENTING	PULLED
13 3/8'	48#	478'	17 1/2"	500 Sx C	
9 5/8'	36#	3186'	12 1/4"	1500 Sx Lite & 200 Sx C	

4.A CASING DESIGN:

SIZE	INTERVAL	WEIGHT	GRADE	JOINT	CONDITION
7"	3086' 535'-5000'	29#	J-55	LTC	Used

5. SURFACE CONTROL EQUIPMENT: A double ram-type or annular BOP will be used. (See diagram attached as Exhibit "E")

6. CIRCULATING MEDIUM:

0'- 5000'	Salt water mud, conditioned as necessary for control of viscosity and water loss or gain.
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7. AUXILIARY EQUIPMENT: Drill string safety valve.

8. LOGGING PROGRAM: CNL-FDC W/GR Log will be run to TD.

9. ANTICIPATED STARTING DATE: It is planned that operations will commence about March 1, 1990. Duration of drilling, testing and completion operations should be one to four weeks.

SURFACE USE PLAN
FOR
DRILLING, COMPLETION AND PRODUCTION

MARBOB ENERGY CORPORATION
WELL #1 GISSLER FEDERAL
660' FSL & 1980' FEL SEC. 5-17S-30E
EDDY COUNTY, NEW MEXICO
(RE-ENTRY WELL)

This plan is submitted with the application for permit to drill the above described well. The purpose of the plan is to describe the location of the proposed development well, the proposed construction activities and operations plan, the magnitude of surface disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal can be made of the environmental affects associated with the operation.

LOCATED: Approximate 24 air miles east of Artesia,
New Mexico.

FEDERAL LEASE NUMBER: NM 308

LEASE ISSUED: January 30, 1990

RECORD LESSEE: Marbob Energy Corporation

OPERATOR'S AUTHORITY: Operating rights owned by Marbob Energy Corporation.

BOND COVERAGE: Lessees \$150,000 nation-wide bond.

ACRES IN LEASE: 479 acres

SURFACE OWNERSHIP: U.S. Government with a grazing permit
issue to Bogle Farms, Inc., P.O. Box 358,
Dexter, New Mexico 88230.

POOL: Grayburg-Jackson, SR, Q, Gb, SA
(40-acre spacing)

EXHIBITS:

- A. Portion of Eddy County Map
- B. Oil & Gas Map
- C. Road Map & Wells in vicinity of
Proposed Drillsite
- D. Sketch of Well Pad
- E. Sketch of BOP

THIRTEEN POINT PROGRAM

1. EXISTING ROADS: From Artesia go approximately 24.4 miles east on Federal Highway US-82 to Loco Hills, New Mexico. Turn north on Eddy County Road 217 and proceed north for approximately 2.7 miles. Then turn west on dirt road and go .3 miles to well location.
2. PROPOSED NEW ROAD: No new roads are necessary since existing road runs through the drillsite.
3. LOCATION OF EXISTING WELLS: The nearest production to the proposed well is the Gissler B Tract #4 well located south of the proposed re-entry well. This well and all existing wells in the vicinity of the proposed re-entry are shown on Exhibits "B" and "C".
4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:
 - A. If this well is productive, a central tank battery will be located on the well pad of this re-entry well.
 - B. If the well is productive, flowline will be laid along the proposed and existing roadbeds to the battery.
 - C. The closest electric power line is west to the county road 217 which is 1,980 from the well bore. A powerline will be run along the lease road to the well pad and a pole will be inserted in the SE corner of the pad.
5. WATER SUPPLY: It is not planned to drill a water supply well. Water for leasehold operations will be purchased from a commercial water hauler.
6. CONSTRUCTION MATERIALS: It is anticipated that caliche for construction will be recovered from the old well pad and road and will be used to refurbish the well pad.

7. WASTE DISPOSAL:

Such well cutting as exist will be disposed of in a foot pit located on the location. Any drilling fluids will be allowed to evaporate in the said pit until the pit is dry. Water produced during tests will be disposed of in the same pit. Trash, water paper, garbage and junk will be hauled away, or buried and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind, and all trash and debris will be buried or removed from the wellsite within 45 days after completion of the re-entry or completion operations.

8. ANCILLARY FACILITIES: None anticipated.
9. WELLSITE LAYOUT: Refer to Exhibit "D" for direction orientation and access.
 - A. The dimensions and relative location of the drill pad and pit with respect to the well bore are shown on Exhibit "D".
 - B. The well pad will be surfaced with caliche.
10. RESTORATION OF SURFACE:
 - A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the wellsite in as aesthetically pleasing a condition as possible.
 - B. Any unguarded pits containing fluids will be fenced until they are covered with soil.
 - C. After abandonment, all equipment, trash and junk will be removed and the location cleaned. Any special rehabilitation and/or special revegetation requirements of the BLM will be complied with and accomplished as expeditiously as possible.
11. OTHER INFORMATION:
 - A. Topography: The undisturbed wellsite is at an elevation of 3961.2 feet. The terrain of the area surrounding the location is relatively flat. Regional slope is to the southwest toward the Pecos River.
 - B. Soil: Top soil at the wellsite is sand.
 - C. Land Use & Type: The vicinity surrounding the drillsite is semiarid rangeland and its primary use is for production of oil and gas.
 - D. Flora: Flora in the vicinity surrounding the drillsite is sparse. It consists primarily of javalina, saltbush, broomweed and mesquite.
 - E. Fauna: No wildlife was observed, however fauna for this type of habitat normally consists of lizards, snakes, rabbits, rodents, coyotes, skunks, quail, dove, and other small birds.
 - F. Ponds & Streams: None.

- G. Water Wells: The nearest known water well is over 2 miles to the south.
- H. Residences & Other Structures: There are no occupied dwellings within one (1) mile of the proposed drillsite.
- I. Archaeological, Historical & Cultural Sites: An archaeological survey is not required.

12. OPERATOR'S REPRESENTATIVE: Representatives responsible for assuring compliance with the approved Surface Use Plan:

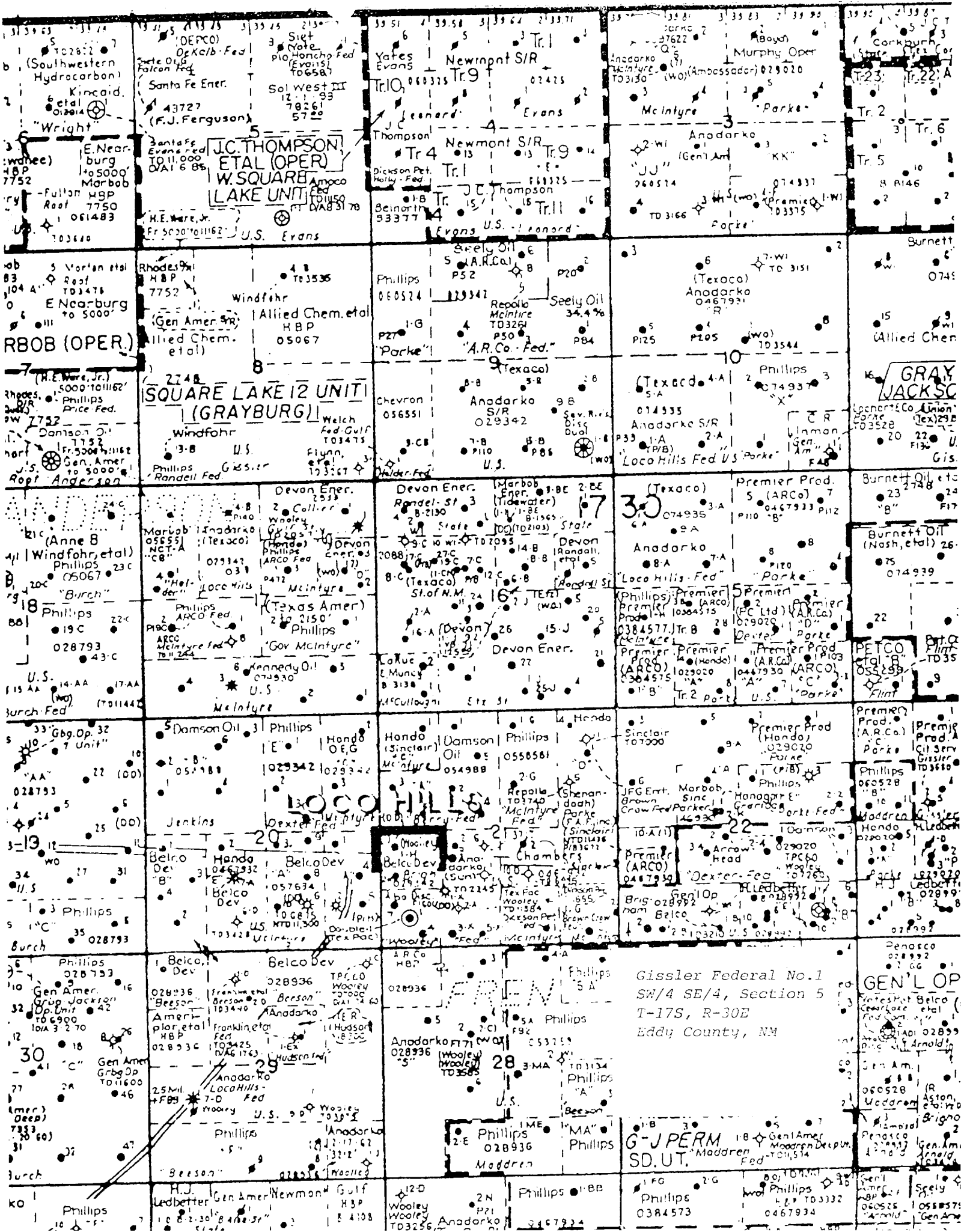
Mack Chase or John R. Gray
P. O. Drawer 217
Artesia, New Mexico 88210
Phone 505-748-3303

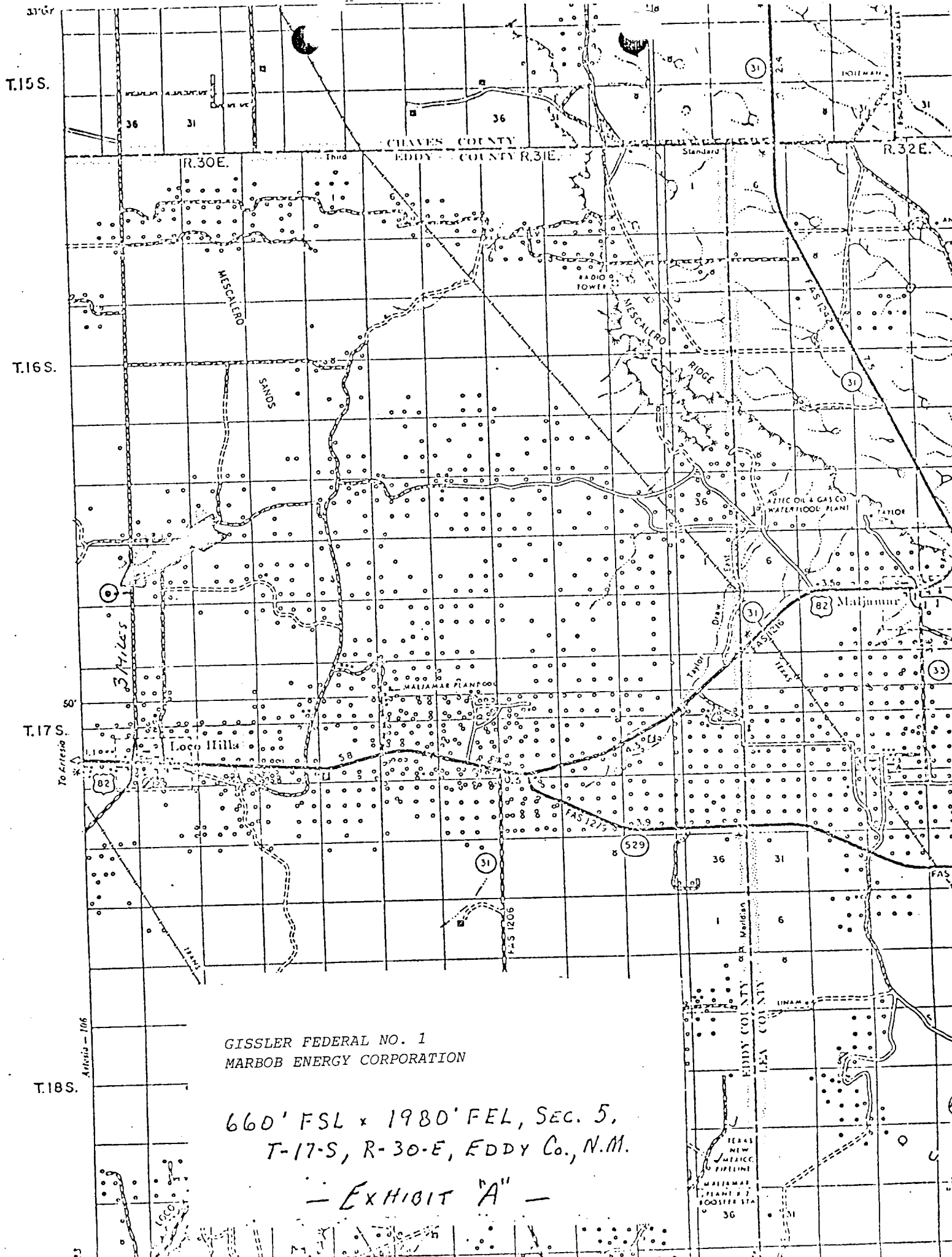
13. CERTIFICATION:

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 MARBOB ENERGY CORPORATION and its sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

1/30/90
Date

John R. Gray
John R. Gray, President
MARBOB ENERGY CORPORATION

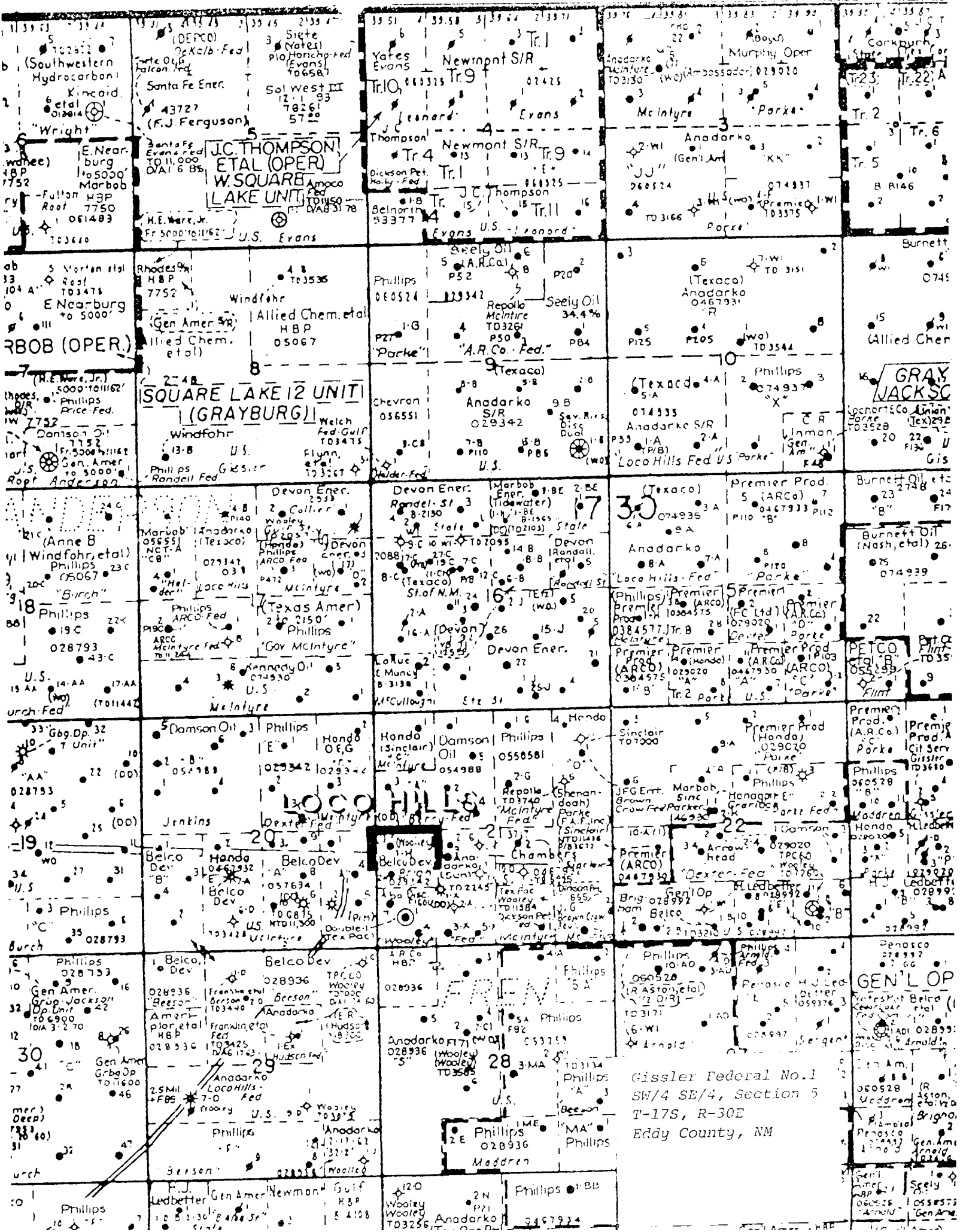




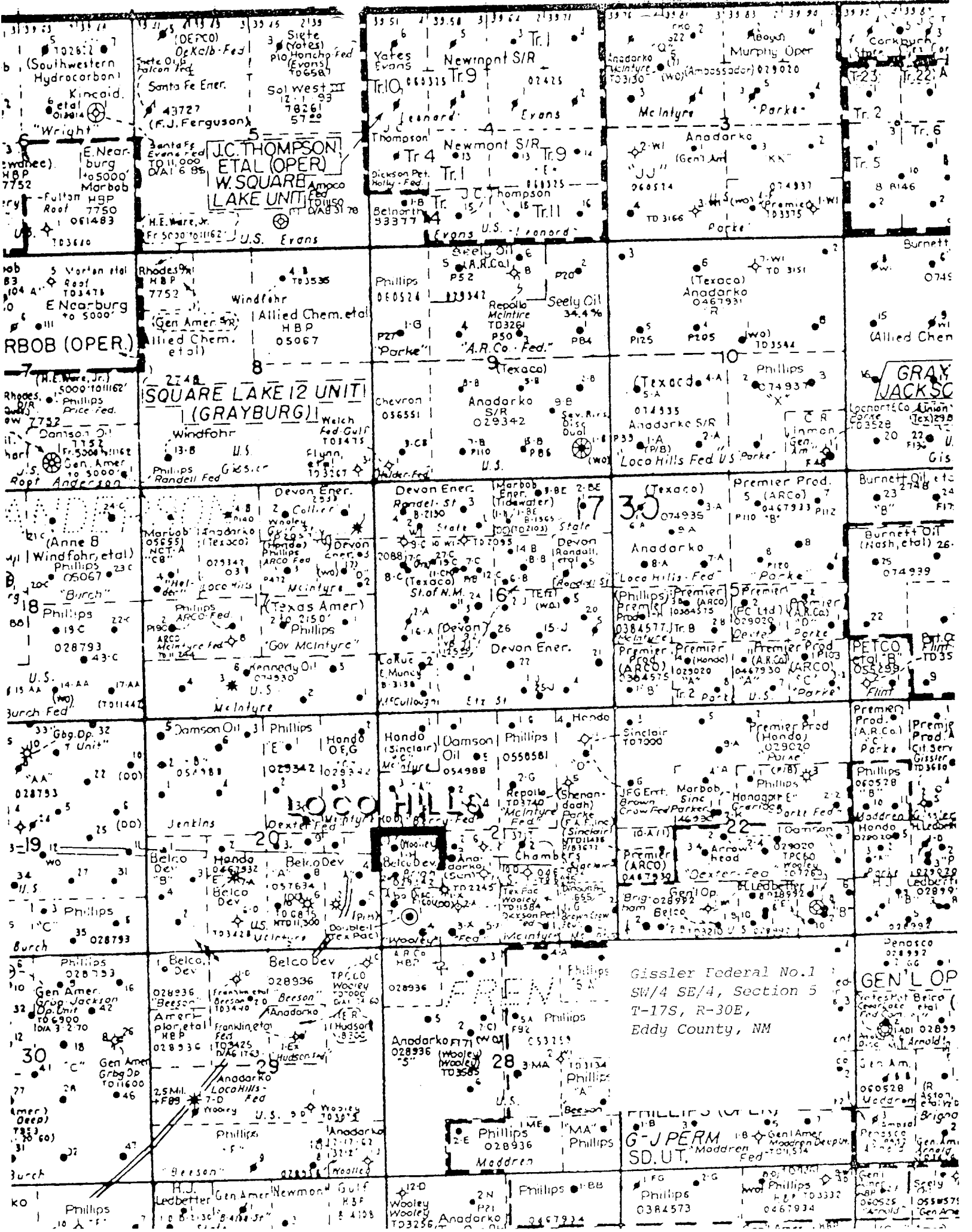
GISSLER FEDERAL NO. 1
MARBOB ENERGY CORPORATION

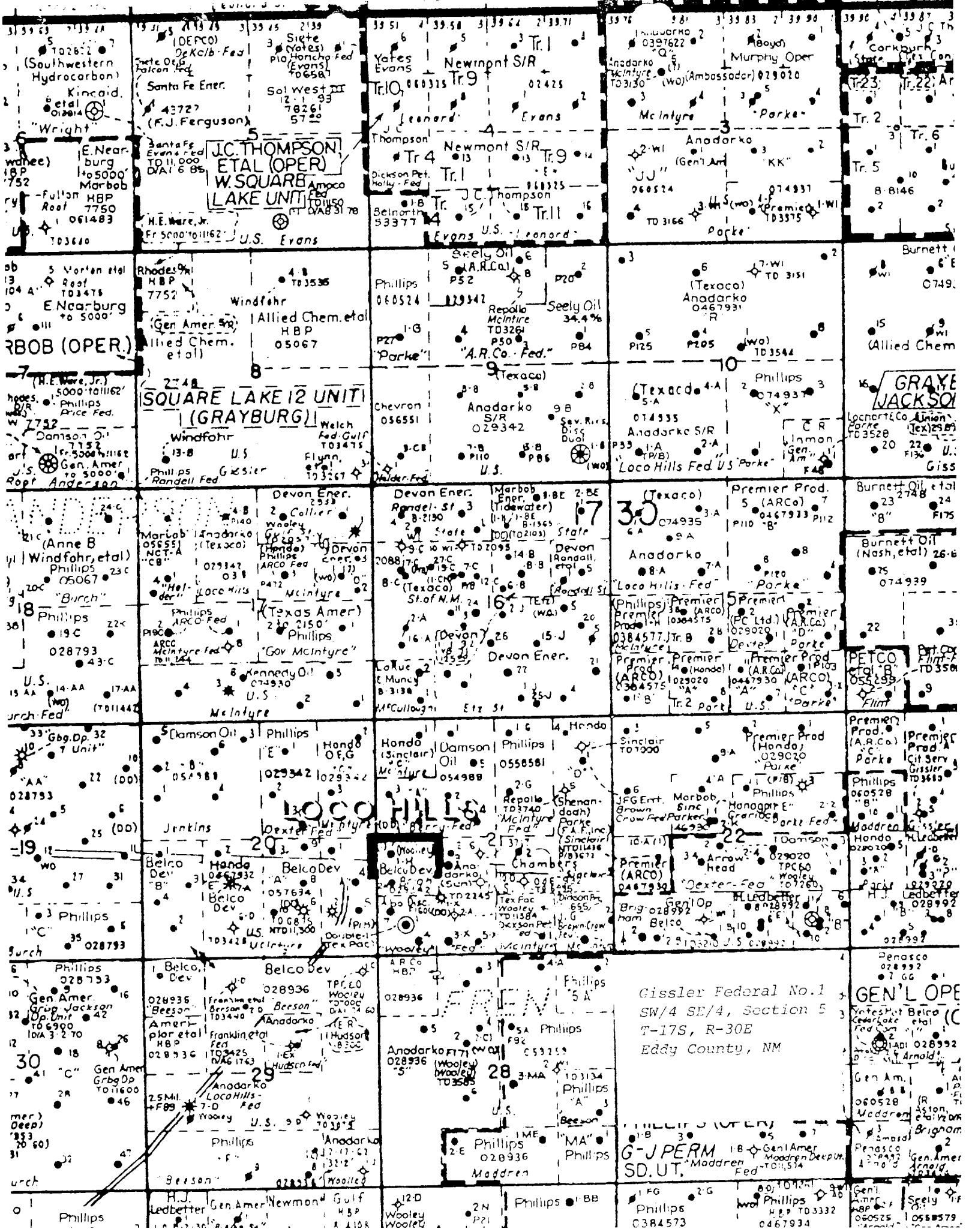
660' FSL x 1980' FEL, SEC. 5,
T-17-S, R-30-E, EDDY Co., N.M.

- EXHIBIT "A" -



Gissler Federal No. 1
SW/4 SE/4, Section 5
T-17S, R-30E
Eddy County, NM

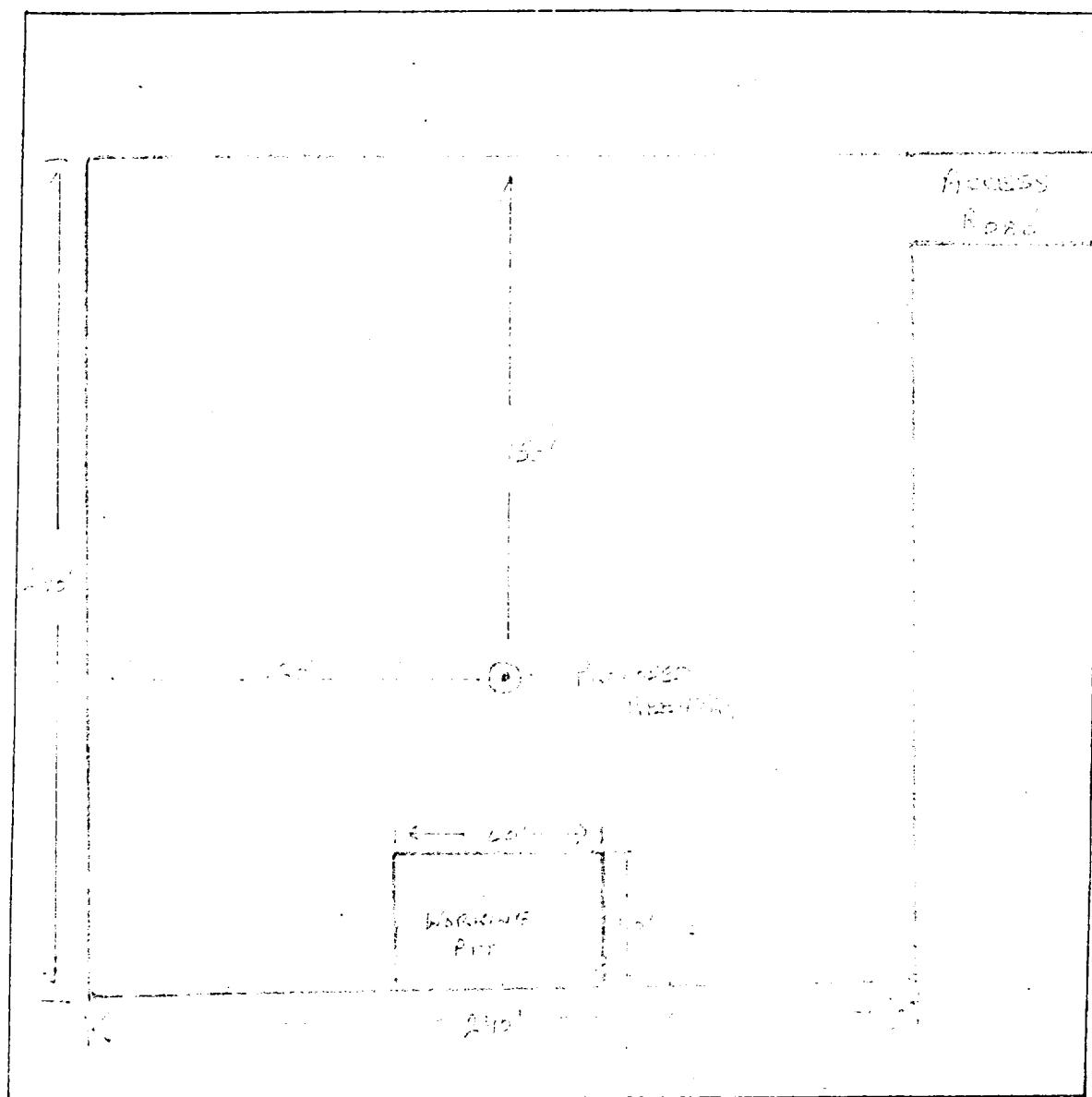




7.185.

- EXHIBIT "A" -

5



LEGEND

$$1 \text{ cm} = 20 \text{ ft.}$$

SUP Exhibit "D"

SKETCH OF PROPOSED WELL PAD
Gissler Federal No.1
SW/4 SE/4, Section 5
T-17S, R-30E
Eddy County, NM

**MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

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

All distances must be from the outer boundaries of the Section

Operator Amoco Production Company			Lease Federal 1 Com.		Well No. 1
Unit Letter O	Section 5	Township 17 South	Range 30 East	County Eddy	
Actual Footage Location of Well: 660 feet from the South line and 1980 feet from the East line					
Ground Level Elev. 3691.2	Producing Formation MORROW		Foot WILDCAT MORROW	Estimated Acreage 320	

1. Outline the acreage dedicated to the subject well by colored pencil or highlighter on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the owner(s) thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the owners been consolidated by communitization, unitization, force-pooling, etc?

RECEIVED

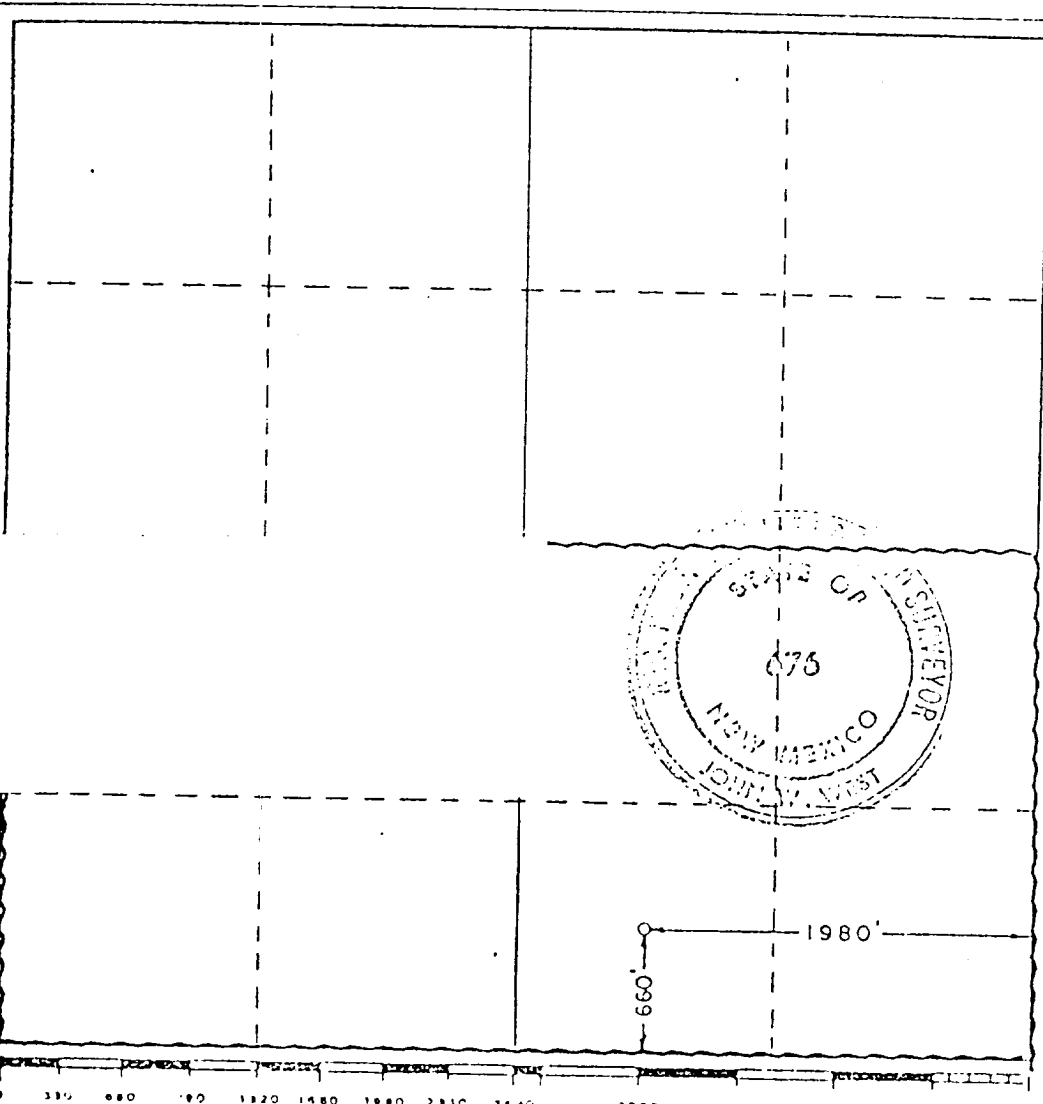
FEB 29 1978

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

☒ 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, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest.



to the
best of my knowledge and belief.

Ray W. Cox
Administrative Supervisor
AMOCO PRODUCTION COMPANY
2-17-78

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: **Jan. 28, 1978**

John W. West
676
Ronald J. Edson

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-122
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

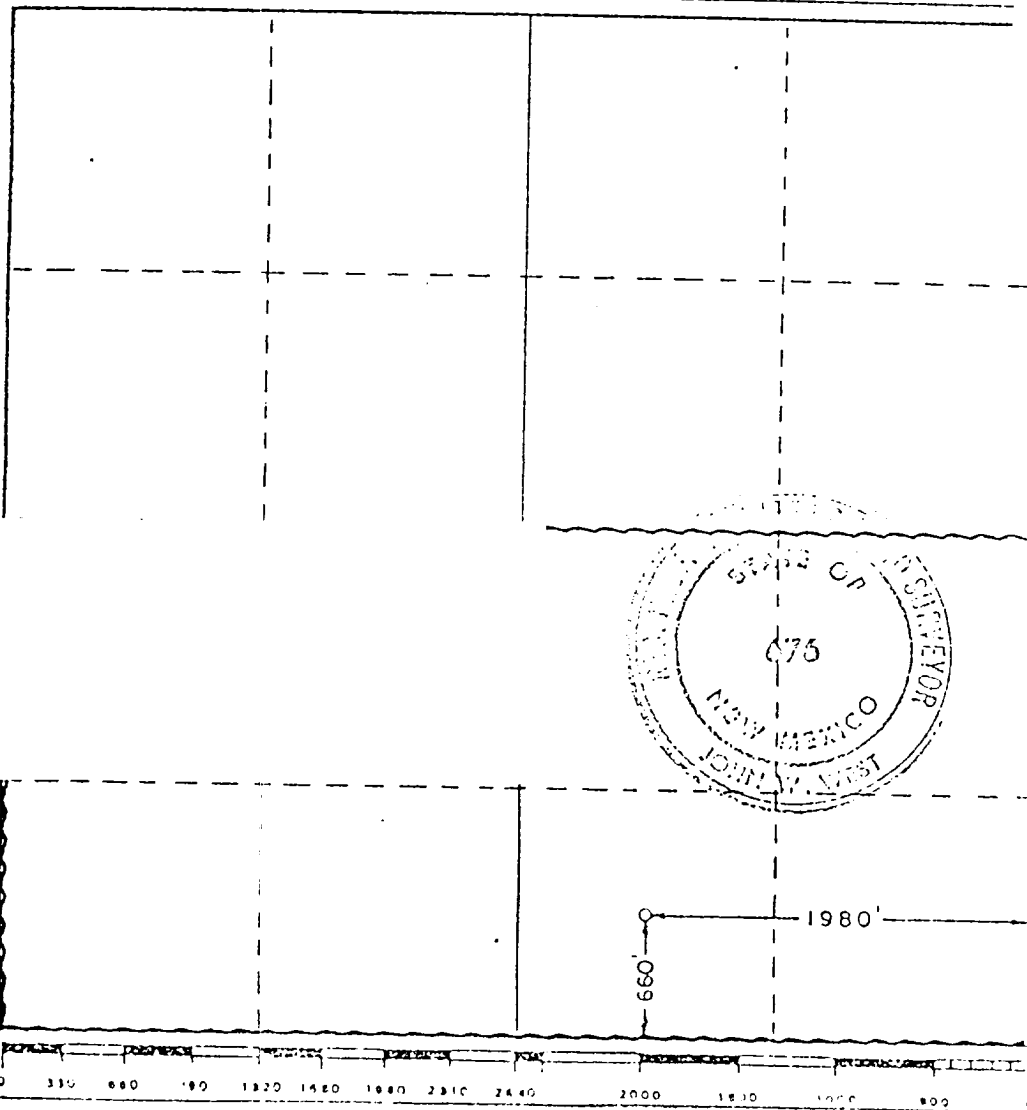
Operator Amoco Production Company			Lease Federal 1 Com.			Well No. 1
Unit Letter O	Section 5	Township 17 South	Range 30 East	County Eddy		
Actual Footage Location of Well: 660 feet from the South line and 1980 feet from the East line						
Ground Level Elev. 3691.2	Producing Formation MORROW GB/SA		Foot GBG JACKSON		Dedicated Acreage 320.40	

1. Outline the acreage dedicated to the subject well by colored pencil or highlighter on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the owner (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the owners 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.



Name Kay W. Cox	
Position Administrative Supervisor	
Company AMOCO PRODUCTION COMPANY	
Date 2-17-78	
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 Jan. 28, 1978	
Signature of Licensed Engineer and/or Licensed Surveyor John W. West	
Certificate No. John W. West 676	Ronald J. Edison 1230

Form 9-330
(Rev. 6-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.6.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other RECEIVED		5. LEASE DESIGNATION AND SERIAL NO. NM 18299	
2. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. NAME OF OPERATOR Amoco Production Company		7. UNIT AGREEMENT NAME	
4. ADDRESS OF OPERATOR P.O. Drawer "A", Levelland, Texas 79336		8. FARM OR LEASE NAME Federal I Com	
14. PERMIT NO.		9. WELL NO. 1	
DATE ISSUED SEP - 7 1978		10. FIELD AND POOL, OR WILDCAT Wildcat - Morrow	
11. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 66C' FSL & 1980' FEL (Unit 0, SW $\frac{1}{4}$ SW $\frac{1}{4}$) Sec. 5		12. COUNTY OR PARISH Eddy	
At top prod. interval reported below		13. STATE NM	
At total depth		19. ELEV. CASINOHEAD	
15. DATE SPUDDED 4-29-78		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 3691.2 GR	
16. DATE T.D. REACHED 6-18-78		20. TOTAL DEPTH, MD & TVD 11150'	
17. DATE COMPL. (Ready to prod.) P+ A		21. PLUG BACK T.D., MD & TVD 10,500'	
22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY 0-11150'	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* None		25. WAS DIRECTIONAL SURVEY MADE No	
26. TYPE ELECTRIC AND OTHER LOGS RUN Dual laterlog micro-SFL, compensated neutron formation density		27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
13 3/8"	48#	478'	17 1/2"
9 5/8"	36#	3186'	12 1/4"
CEMENTING RECORD		AMOUNT PULLED	
500 sacks Class C			
1500 sx Lite & 200 sx Class C			
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
SCREEN (MD)		30. TUBING RECORD	
		SIZE	DEPTH SET (MD)
		PACKER SET (MD)	
31. PERFORATION RECORD (Interval, size and number)			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		AMOUNT AND KIND OF MATERIAL USED	
DEPTH INTERVAL (MD)			
33. PRODUCTION			
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	
WELL STATUS (Producing or shut-in) Abandoned			
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROP'N. FOR TEST PERIOD
OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.
GAS—MCF.		WATER—BBL.	
OIL GRAVITY-API (CORR.)			
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)			
TEST WITNESSED BY D. L. A 12-2-78 9-8-78			
35. LIST OF ATTACHMENTS Logs per item No. 26			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED Ray W. Gay		TITLE Administrative Supervisor	
DATE 8/22/78			