



United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Drawer 1857
Roswell, New Mexico 88201

Copy to SP
RECEIVED

NOV 27 1973

O. C. C.
ARTESIA, OFFICE

November 26, 1973

**Mr. Julian Ard
Post Office Box 1030
Midland, Texas 79701**

Dear Mr. Ard:

Your Notice of Intention to Drill well No. 1 Shasherry Unit in the SW 1/4 sec. 25, T. 19 S., R. 30 E., N.M.P.M., Eddy County, New Mexico, Lease New Mexico 06767, to a depth of 12,500 feet to test the Morrow formation in the Potash Area, is hereby approved.

Drilling of the well must be in compliance with the enclosed "Drilling Well Control Requirements for Deep Wells Drilled on Federal Oil and Gas Leases in the Artesia District" dated June 22, 1973.

One copy of the Notice is returned herewith. Please notify the District Engineer, Geological Survey, Post Office Drawer U, Artesia, New Mexico, 88210, in sufficient time for a representative to witness all cementing operations. The office phone number is Area Code 505-746-4841.

Sincerely yours,

(ORIG. SENT BY AIR MAIL)

CARL C. TRAYWICK
Acting Area Oil & Gas Supervisor

Attachment

cc:
Washington *Denver*
Mining Branch (2)
✓ MDOCC-Artesia (2) (w/2 cys Notice)
Artesia (w/cy Notice)
Roswell (2) (w/cy Notice)
Roswell (chrono)

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NOV 2 1964

D. G. D.
ARTESIA OFFICE



UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

WASH. D. C.

NOV 2 1964

TO: SAC, ALBUQUERQUE (100-100000)
FROM: SAC, DENVER (100-100000)
SUBJECT: [Illegible]

RE: [Illegible]

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N. M. O. C. C. COPY

Form 9-331C
(May 1963)SUBMIT IN T. J. CATE*
(Other instructions on
reverse side)Form approved.
Budget Bureau No. 42-R1425.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

Julian Ard

3. ADDRESS OF OPERATOR

P. O. Box 1030 - Midland, Texas 79701

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

1980' from North & East lines of Sec. 25, T-19-S, R-30-E

At proposed prod. zone

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

25 miles Northeast of Carlsbad, New Mexico

15. DISTANCE FROM PROPOSED*

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

1980 Feet

16. NO. OF ACRES IN LEASE

600

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.

None

19. PROPOSED DEPTH

12,500

20. ROTARY OR CABLE TOOLS

Rotary

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

3306 GR

22. APPROX. DATE WORK WILL START*

December 1, 1973

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#	850	650 sx 1E. WT. & 200 sx Class "C"
11"	8-5/8"	24# & 32#	4250	2 stage w/ 900 sx & 800 sx
7-7/8"	5-1/2"	17# & 20#	12500	600 sx Class "C" 2% CaCl2

13-3/8" surface casing will be cemented to surface of ground.

8-5/8" casing will be cemented in 2-stages w/900 sx Class "C", 2% CaCl2 on 1st stage
and 600 sx Class "C" 2% CaCl2 on 2nd stage, top 14 cement slurry should be
at approximately 700 feet. (of cement)

MUD PROGRAM

See proposed Mud Program attached.

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BLOW-OUT EQUIPMENT

See diagrams attached. (2)

NOV 27 1973

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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

Julian Ard

TITLE

Owner

DATE

11-8-73

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*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.



United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Drawer U
Artesia, New Mexico 88210

June 22, 1973

NOTICE

DRILLING WELL CONTROL REQUIREMENTS FOR DEEP WELLS DRILLED ON FEDERAL OIL AND GAS LEASES IN THE ARTESIA DISTRICT

The following requirements are established in accordance with 30 CFR 221.24, 221.36, and 221.37. Blowout preventer equipment, choke equipment, drilling fluid characteristics, drilling fluid monitors, and the conduct of drilling procedures shall be such as are necessary to prevent the blowout of any well. In addition to all other applicable rules, regulations, and accepted good operating practices, drilling shall be in accordance with the following safety requirements:

1. After setting the 8-5/8-inch casing string and before drilling into the Wolfcamp formation, the blowout preventers and related control equipment shall be pressure tested to rated working pressures by an independent service company. Any equipment failing to test satisfactorily shall be repaired or replaced. This office should be notified in sufficient time for a representative to witness the tests and shall be furnished a copy of the pressure test report. In addition, the pipe rams and bag-type preventer shall be actuated at least once each 24 hours and the blind rams each time the drill pipe is out of the hole.
2. Accumulators shall maintain a pressure capacity reserve at all times to provide for repeated operation of hydraulic preventers.
3. A drill string safety valve in the open position shall be maintained on the rig floor at all times while drilling operations are being conducted.
4. Blowout prevention drills shall be conducted as necessary to insure that each drilling crew is properly trained to carry out emergency duties.
5. Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be installed and operating before

drilling into the Wolfcamp formation
and used until production casing is run and cemented. Monitoring
equipment shall consist of the following:

- (1) A recording pit level indicator to determine pit volume gains and losses.
 - (2) A mud volume measuring device for accurately determining mud volume necessary to fill the hole on trips.
 - (3) A flow sensor on the flow-line to warn of any abnormal mud returns from the well.
6. When coming out of the hole with drill pipe, the annulus shall be filled with mud before the mud level drops below 150 feet. The volume of mud required to fill the hole shall be watched, and any time there is an indication of swabbing, or influx of formation fluids, proper blowout prevention precautions must be taken. The mud shall not be circulated and conditioned except on or near bottom, unless well conditions prevent running the pipe to bottom.
7. A copy of these requirements shall be posted on the rig floor or in the dog house during the drilling of the well.


James A. Knauf
District Engineer

Lease No. M 96761
Well 11th Trd 1-Hackberry Unit
Drill site 1980/NBL 25-1 S-30F
Depth 12 1/2' Morrow test
Approved _____

N. 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.

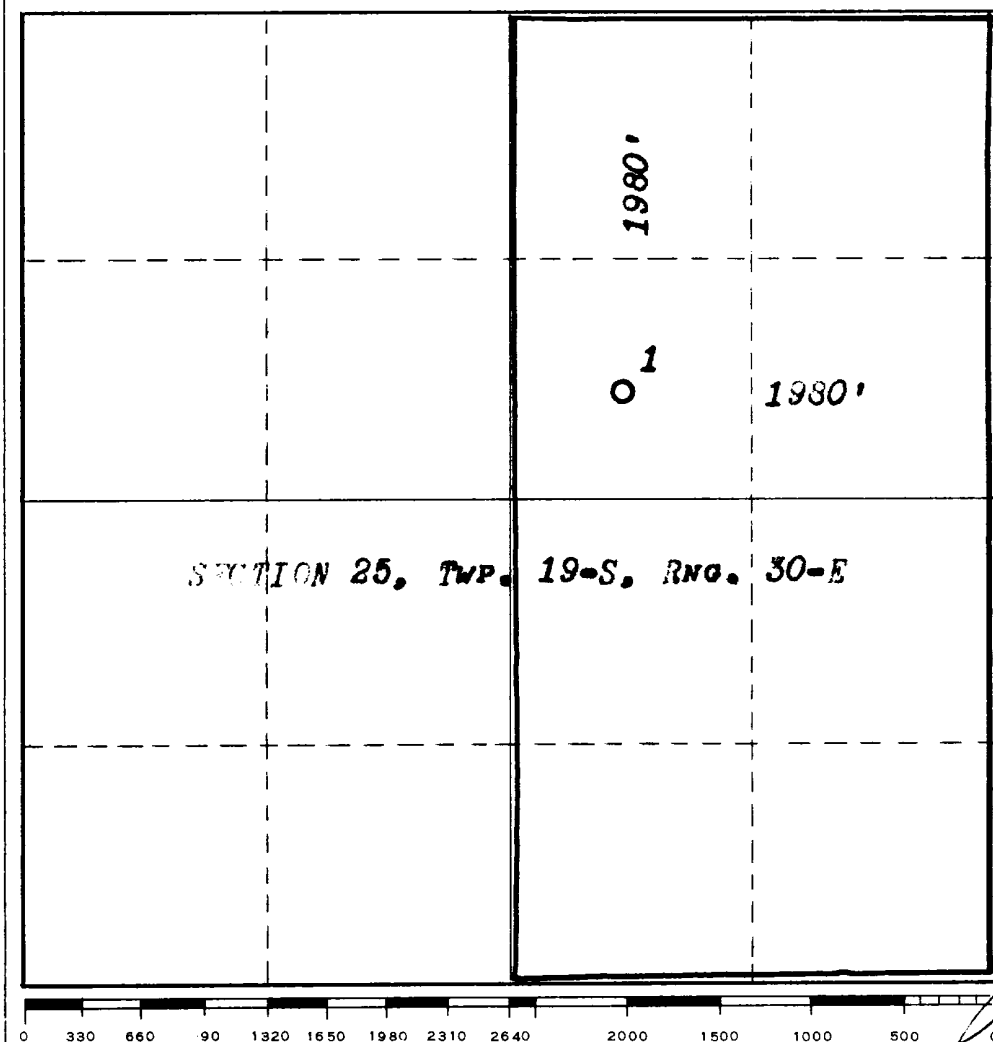
Operator Julian Ard		Lease hackberry unit		Well No. 1
Unit Letter G	Section 25	Township 19-South	Range 30-East	County Eddy
Actual Footage Location of Well: 1980 feet from the North line and 1980 feet from the East line				
Ground Level Elev. 3306	Producing Formation Norow Sand	Pool Wildcat	Dedicated Acreage: 320 Acres	

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



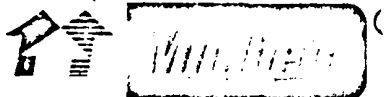
CERTIFICATION

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

Name
Julian Ard
Position
Owner
Company
Julian Ard
Date
11-8-73

I hereby certify that the well location shown on this plat was located from field notes of original surveys made by me or under my supervision and that the same are true to the best of my knowledge and belief.

Date Surveyed
Nov. 7, 1973
Registered Professional Engineer and/or Land Surveyor
[Signature]
Certificate No.
754



Drilling Fluids Division

Date October 22, 1973

Company ARD DRILLING COMP.

Location Section 25-T19S-R30E

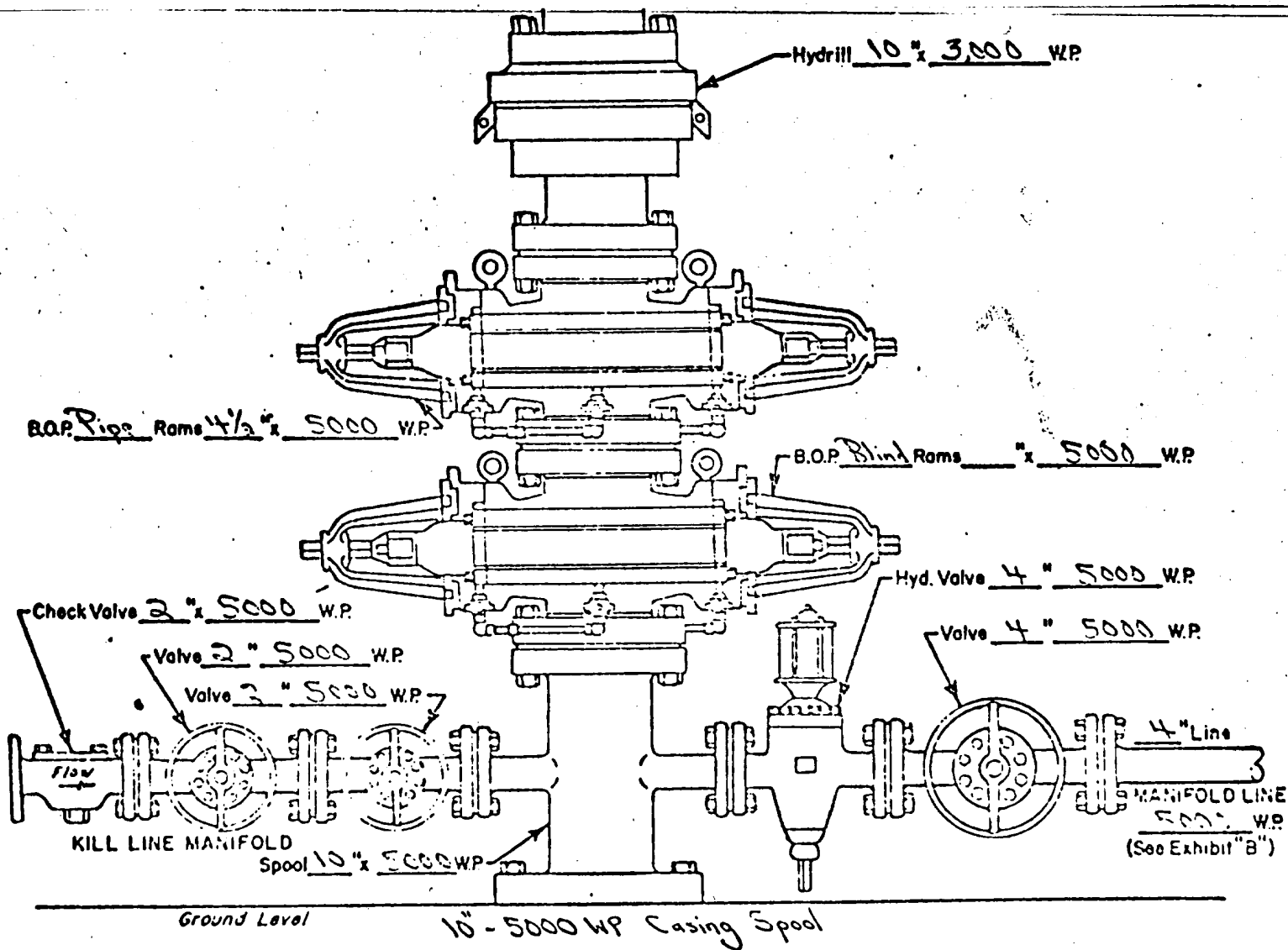
Well Name Hackberry Unit #1

Survey _____

County Eddy

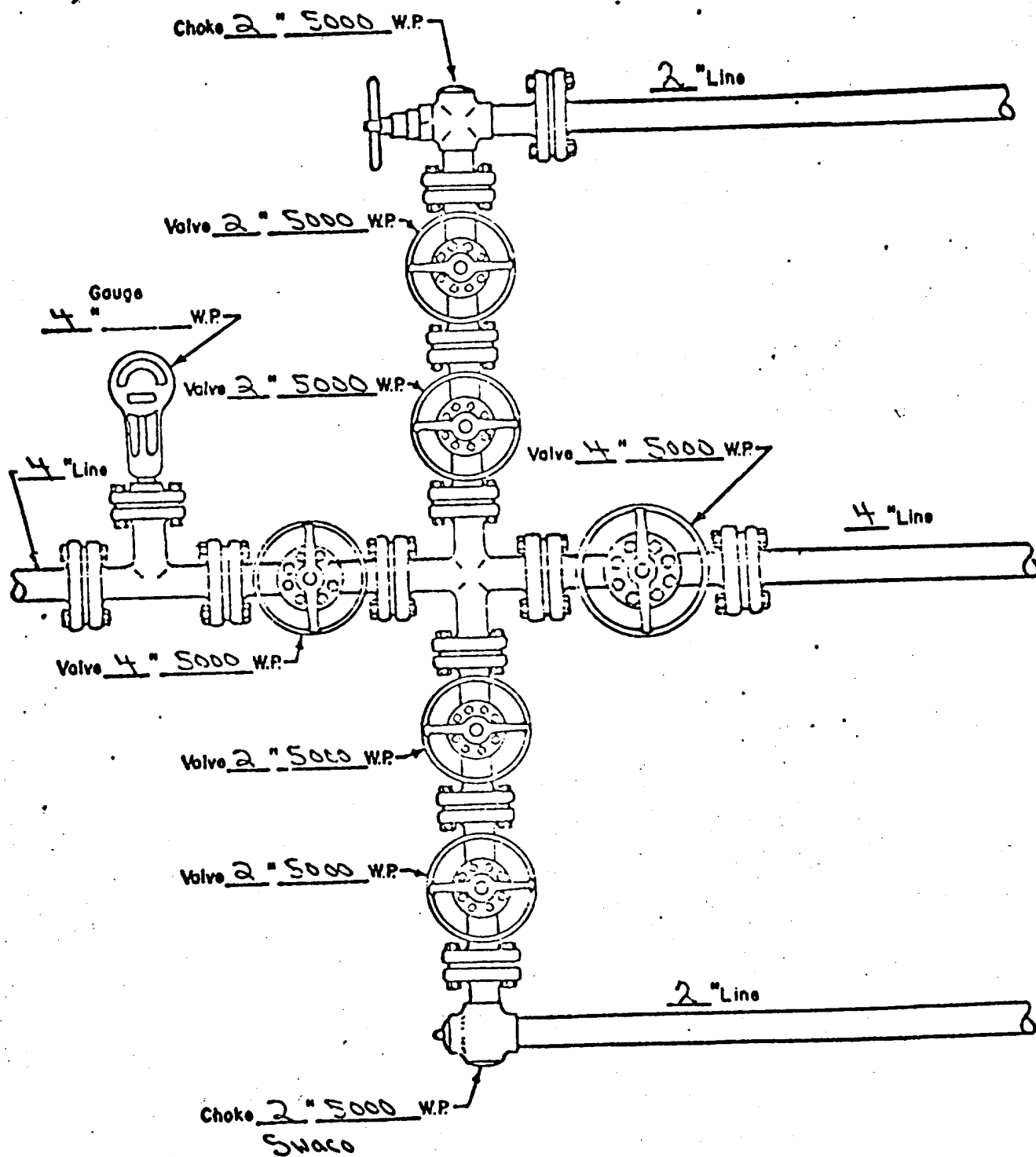
State New Mexico

MUD SPECIFICATIONS				CASING	FORMATION
Depth ft	Mud Weight PPR	Viscosity sec qt	API Filtrate ml		
R E V I S I O N					
0-850	8.0-9.4	32-45	No Control		Yates
MILGEL® and MIL-LIME™ to spud, maintaining to set 13-3/8" pipe.					
850-4,250	9.0-9.6	28-29	No Control		
Brine water. Paper-Ox for seepage.					
4,250-8,500	8.3-8.8	28-30	No Control		Bone Springs
Fresh water - circulate reserve pit. Use Paper-Ox for seepage. Should seepage become excessive, we suggest a prehydrated MILGEL® sweep.					1st Bone Sp. Sand
8,500-10,200	9.5-10.0	28			2nd Bone Sp. Sand
Start potash brine, using Paper-Ox for seepage. Circulate the reserve pit.					3rd Bone Sp. Sand
10,200-12,500	9.5-10.0	32-35	10-8 ml		Wolfcamp
While continuing to circulate the reserve pit, add Polymer and Drispac to produce the suggested properties. Control the pH with Caustic Soda and Soda Ash.					Strawn
ESTIMATED MUD COST: \$12,000.00					Atoka



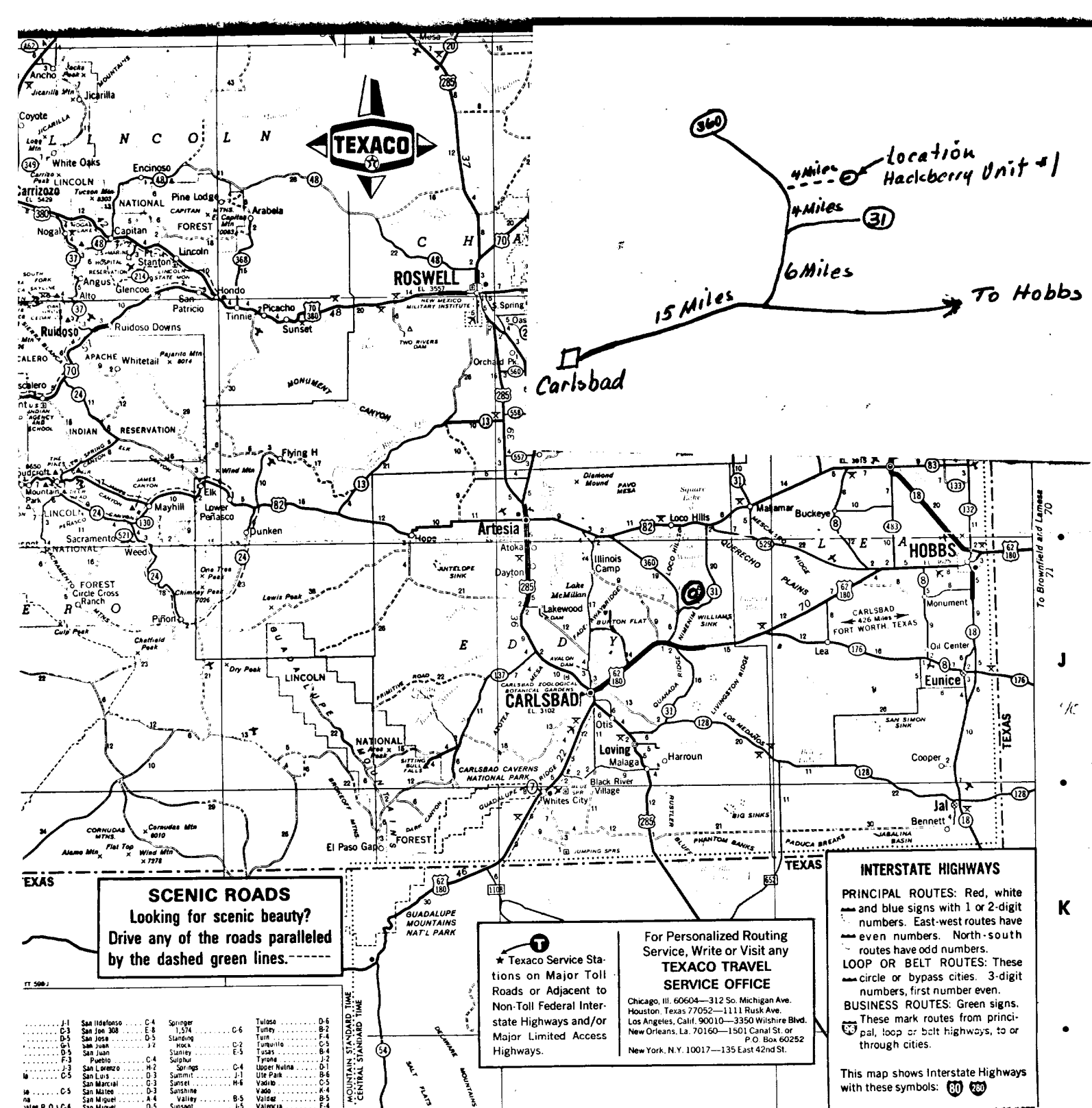
WELL HEAD B.O.P.
5,000 # W.P.

☐ Manual
☒ Hydraulic



MANIFOLD
5000 #W.P.

- ☒ Manual
- ☐ Hydraulic

[illegible]

SCENIC ROADS

Looking for scenic beauty?
Drive any of the roads paralleled
by the dashed green lines.-----

 ★ Texaco Service Stations on Major Toll Roads or Adjacent to Non-Toll Federal Interstate Highways and/or Major Limited Access Highways.

For Personalized Routing
Service, Write or Visit any
**TEXACO TRAVEL
SERVICE OFFICE**

Chicago, Ill. 60604—312 So. Michigan Ave.
Houston, Texas 77052—1111 Rusk Ave.
Los Angeles, Calif. 90010—3350 Wilshire Blvd
New Orleans, La. 70160—1501 Canal St. or
P.O. Box 60252
New York, N.Y. 10017—135 East 42nd St.

INTERSTATE HIGHWAYS

PRINCIPAL ROUTES: Red, white and blue signs with 1 or 2-digit numbers. East-west routes have even numbers. North-south routes have odd numbers.

LOOP OR BELT ROUTES: These circle or bypass cities. 3-digit numbers, first number even.

BUSINESS ROUTES: Green signs. These mark routes from principal, loop or belt highways, to or through cities.

This map shows Interstate Highways with these symbols:

MILEAGES

MILEAGE BETWEEN TOWNS

MILEAGE BETWEEN DOTS 35

SPECIAL FEATURES

STATE PARKS

SCHEDULED AIRLINE STOPS ✖

With Campsites Without Campsites

MILITARY AIRPORTS 

RECREATION AREAS

OTHER AIRPORTS

With Campsites ▲ Without Campsites △

OTHER AIRPORTS:

PORTS OF ENTRY

SKI AREAS 34

Open 24 Hours Inquire Locally

TIME ZONE BOUNDARY

POINTS OF INTEREST

SELECTED REST AREAS . X

ABBREVIATION SYMBOLS

POPULATION SYMBOLS

100,000

(★) State Capital 2 500 to 5,000

25,000 to 50,000

(O) Under 1,000 (M) 5,000 to 10,000

50,000 to 100,000

□ 1,000 to 2,500 ● 10,000 to 25,000

100 ● 100,000 and over

M

JULIAN ARD

P. O. BOX 1030

MIDLAND, TEXAS 79701

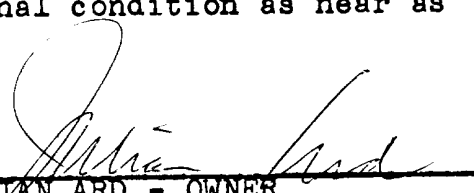
(Rev. 11-13-73)

DEVELOPMENT PLAN

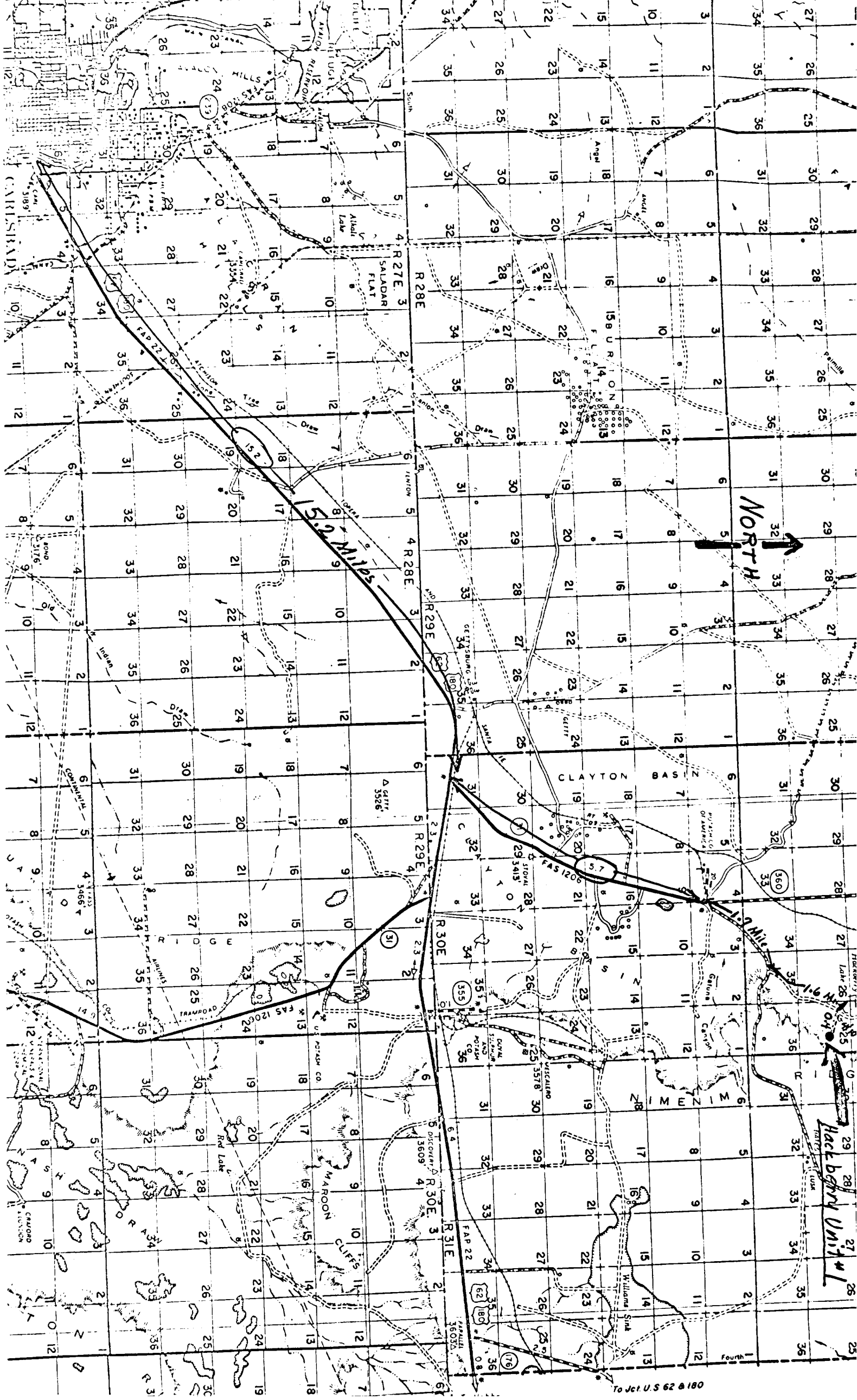
308 WALL TOWERS EAST
915-684-5716

Julian Ard No. 1, Hackberry Unit Well, located 1980 feet from North and East lines of Section 25, T-19-S, R-30-E, Eddy County, New Mexico.

1. 15.2 miles East of Carlsbad on Highway 62/180, turn North on State Highway #31, go 5.7 miles to Junction of Highway 31 and 360, continue NE on Highway 31 for 1.7 miles, turn left in Northeasterly direction on graded road 1.6 miles.
2. Turn East on Graded road 4/10 mile to location.
3. Plats enclosed.
4. N/A
5. N/A
6. Water will be hauled.
7. All waste will be put in waste pit and covered.
8. N/A
9. N/A
10. Rig plat enclosed.
11. Surface will be restored to its original condition as near as possible.


JULIAN ARD - OWNER

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NOV 15 1973
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO



North

15.0 Miles

Hatchberry Unit #1

To Jct. U.S. 62 & 180

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NOV 18 1973

LIBRARY

N

Reserve pit

waste pit

30' x 6' x 7 1/2'

30' x 6' x 7 1/2'

30' x 6' x 7 1/2'

mud house
4' 5" 6' x 7 1/2'

KXFG.D.
700 HP

EMSD D-700
DH 006
002-0034W

Sub 17' High
7'

61'

Dog house

Accumulator
w/ Remote control
unit on Rig floor

eat walk

Pipe Rocks

Pipe Rocks

Caliche Pad 250' x 250'

500 bbl
water tank

500 bbl
water tank

Diesel tank

LPG tank

Light plant

Trailer house