

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY(Other instructions on
reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.

10. FIELD AND POOL OR WILLAGE

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

12. COUNTY OR PARISH

13. STATE

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

3. ADDRESS OF OPERATOR

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

At surface

At proposed prod. zone

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 drilg. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION*

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

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

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	36 #	1450'	520 SK CIRCULATE
9 3/4"	7"	26 #	6790'	1490 SK

It is proposed to drill a straight hole to a TD of 6790' and
complete as a Blinberry and Tubbs dual oil well.
See Attachment for 10 point well plan.
See Attached for 13 point Surface Use Plan.

U. S. GEOLOGICAL SURVEY
HOBBS, 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

DATE

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

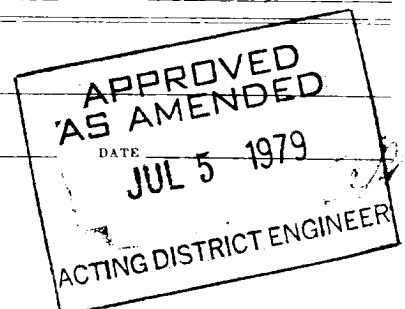
APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

LISGS 6
NMFEL 4
JFB 1
FILE

*See Instructions On Reverse Side



ATTACHMENT TO FORM 9-331 C
APPLICATION FOR PERMIT TO DRILL

Continental Oil Company

Warren Unit No. 77
Sec. 20 T20S R38E
Lea County New Mexico

1. The geologic name of the surface formation is Quaternary Sand.
2. The estimated tops of important geologic markers are shown on the attached Proposed Well Plan.
3. The estimated depths at which anticipated water, oil, gas or other mineral-bearing formations to be encountered are shown on attached Proposed Well Plan.
4. The proposed casing program is as follows:

0-1450' - 9 5/8", 36#, K-55, LT&C
0-6790' - 7", 26#, K-55, LT&C
5. A drawing of an API Series 900 Blowout Preventer Specification is attached. Pipe rams and blinds will be checked to 1,000 PSI for 30 minutes when BOP is installed. BOP will be checked when casing string is set and operated daily for checks.
6. The proposed mud program is as follows:

0-1450' 8.5-9.0 ppg spud mud
1450-6790' 9.0-10.0 ppg salt water gel
7. The auxiliary equipment to be used is:

(1) kelly cocks
(2) floats at the bit
8. It is proposed to run GR CAL CNL FDC logs at selected intervals.
9. No abnormal pressures or temperatures are expected to be encountered in this well.
10. The anticipated starting date is July 1, 1979, with a duration of approximately 20 days.

PEB:cab

PROPOSED WELL PLAN OUTLINE

WELL NAME: Warren Unit No. 77

COUNTY: Lea

LOCATION: 1980 FSL & 1980 FEL
Sec. 20, T20S, R38E

STATE: N.M.

DEPTH	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE (IN)	CASING		FRACTURE GRADIENT (PPG)	FORMATION PRESSURE GRADIENT (PPG)	MUD	
					SIZE (IN)	DEPTH (FT)			WEIGHT (PPG)	TYPE
	Pleistocene									
	Water SS. 70-170		Drlg. Time Recorder							
1000										
	Rustler Anhy. Salado Salt	1420 1520		12 1/4	9 5/8	1450'			8.5- 9.0	Fresh Water
2000										
	Base Salt 2560 Yates SS. 2700		Geolograph Deflection							
3000										
	Seven Rivers dol. 2970		0-TD							
	Queen SS. 3540									
4000										
	San Andres dol	4100								
5000										
	Glorieta SS.	5400								
6000										
	Blinebry Marker dol.	5901 (-2340)	GR-CNL-FDC DLL TD-2600'				14.9	Less Than 8.5		
	Tubb SS. 6406	(-2845)	MSFL TD-4780'					Less Than 8.5		
	Drinkard dol. T.D. 6790	6710		8 3/4	7"	6790'	15.1	8.5	9.0- 10.0	Salt Gel

WELL NAME Warren Unit No. 77 FIELD NMFU DATE 5/29/79
 AFE NO. ELEV. GRD KB PROPOSED TD 6790'
 LOCATION (SURF.) 1980' FSL & 1980' FEL OF SEC 20 T 20S R 38E
 COUNTY Lea STATE N.M. SPACING 40 Acres

LOCATION (BOTTOM HOLE)

GEOLOGICAL ESTIMATES

<u>ZONE</u>	<u>TOP</u>	<u>THICKNESS</u>	<u>CONTENT</u>	<u>ZONE</u>	<u>TOP</u>	<u>THICKNESS</u>	<u>CONT</u>
Water SS.	70'			Tubb SS.	6406'		
Rustler Anhy.	1420'			Drinkard	6710'		
Salado Salt	1520'			dol.			
Base Salt	2560'			TD	6790'		
Yates SS.	2700'						
Seven Rivers dol.	2970'						
Queen SS.	3340'						
San Andres dol.	4100'						
Glorieta SS.	5400'						
Blinebry Mkr.	5901'						
dol.							

<u>CORING NO.</u>	<u>TYPE</u>	<u>HORIZON</u>	<u>INTERVAL FROM-TO</u>	<u>FOOTAGE</u>	<u>REMARKS</u>
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None

DRILL STEM TESTSWATER SHUT OFF TESTS

<u>NUMBER</u>	<u>HORIZON</u>	<u>NUMBER</u>	<u>HORIZON</u>	<u>NUMBER</u>	<u>HORIZON</u>	<u>NUMBER</u>	<u>HORIZON</u>
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None

WELL SURVEYS (List types by code numbers as follows: Directional and/or Deviation (1) Deflection (2) Caliper (3) Temperature (4) Electrical (5) Radio-active (6) Geolograph (7) Photoclinometer (8) Mudlogging (9) Other (10) and name of that type.)

<u>DEPTH POINTS</u>	<u>TYPE</u>	<u>HOLE SIZE</u>	<u>REMARKS</u>
0-TD	Geolograph Deflection		
2600'-TD	GR-CNL-FDC DLL-Cal.-Rxo	8 3/4"	2" & 5" (Pull caliper to surf. csg shoe)
5000'-TD	PDC	Inside casing	Depth Control

FUEL AND WATER (SOURCE)

PROPOSED WELL PLANWELL NAME Warren Unit No. 77FIELD NMFU

<u>ATTACHMENT</u>	<u>NO.</u>	<u>REQUIRED</u>	<u>NOT REQUIRED</u>
CASING CENTRALIZERS, SCRATCHERS	<u> </u>	<u> X </u>	<u> </u>
CEMENTING	<u> </u>	<u> X </u>	<u> </u>
MUD PROGRAM	<u> </u>	<u> X </u>	<u> </u>
WELL PLAN OUTLINE	<u> </u>	<u> X </u>	<u> </u>
PORE PRESSURE - FRAC GRADIENT	<u> </u>	<u> </u>	<u> </u>
PROJECTED PROGRESS	<u> </u>	<u> </u>	<u> </u>
CROSS SECTION OR WELL COURSE	<u> </u>	<u> </u>	<u> </u>
HYDRAULICS PROGRAM	<u> </u>	<u> </u>	<u> </u>
BIT PROGRAM	<u> </u>	<u> </u>	<u> </u>
VENDER USAGE LIST	<u> </u>	<u> </u>	<u> </u>

DRILLING AND COMPLETION PROCEDURE

- 1) 0'-1450' Drill 12 1/4" hole. Set and cement 9 5/8" OD surface casing. WOC 18 hours. Pressure test to 1200# for 30 minutes. Drill out.
- 2) 1450'-6790' Drill 8 3/4" hole. Pressure test shoe to 300#. Drill to TD. Run OH logs. Set and cement 7" OD production casing. WOC 18 hours. Pressure test to 1200# for 30 minutes.
- 3) Detail completion procedure to be determined from OH log analysis.

CASING, CENTRALIZERS & SCRATCHERS

LIST TYPE OF STRING BY CODE LETTERS, i.e. CONDUCTOR (C); SURFACE (S); INTERMEDIATE (I); PRODUCTION (P); LINER (L); PERFORATIONS (PP)

TYPE OF STRINGS & INTERVAL (FT)		OD	ID	WT PER FT	GRADE	THREAD	AMT	WT. IN AIR, WT. IN MUD		REMARKS
FROM-TO								1000 LBS	1000 LBS	
(S)	0'-1450'	9 5/8"	8.765"	36#	K-55	ST&C	1450'	52.2		
(P)	0'-6790'	7"	6.151"	26#	K-55	LT&C	6790'	176.5		DV tool @ + 4000' Sandblast + 1000' casing across pay section.

TYPE OF STRING	CENTRALIZERS		SCRATCHER		OTHER ACCESSORY EQUIPMENT		REMARKS
	NO. FROM-TO	INTERVAL	NO. INTERVAL	NO. FROM-TO	(SUCH AS DEGRASSERS, MUD. CENTRIFUGE	FLOAT COLLARS, ETC. - SPECIFY)	
(S) Surface	(4) 2 ea. on bottom two joints				Guide shoe & Float collar		
	(9) 1 every 4 joints to surface						
(P) Production	(4) 2 ea. on bottom two joints				Float shoe & float collar		
	(9) 1 every 3 joints to 5700'						

MUD PROGRAM

<u>DEPTH INTERVAL</u> <u>FROM TO</u>	<u>WEIGHT</u> <u>LBS/CAL</u>	<u>TYPE</u>	<u>OIL %</u>	<u>pH</u>	<u>WATER LOSS</u> <u>(CC)</u>	<u>VIS. (sec.)</u>	<u>YIELD</u> <u>POINT</u>	<u>THINNING</u> <u>AGENTS</u>	<u>WATER LOSS</u> <u>AGENTS</u>
0'-1450'	8.5-9.0	Spud	--	9.0+	--				
1450'-6790'	9.0-10.0	Salt Water Gel	--	9.0-10.0	10-12+	35-40			

REMARKS

- (1) Below 1450', drill w/saturated brine to keep hole enlargement to a minimum.
- (2) Add gelling agent as required to carry cuttings.
- (3) Pressure surges should be kept to a minimum below 1450'.
- (4) Condition mud to reduce water loss 50' above Blinebry Marker.
- (5) Condition mud to reduce viscosity prior to pumping cement.

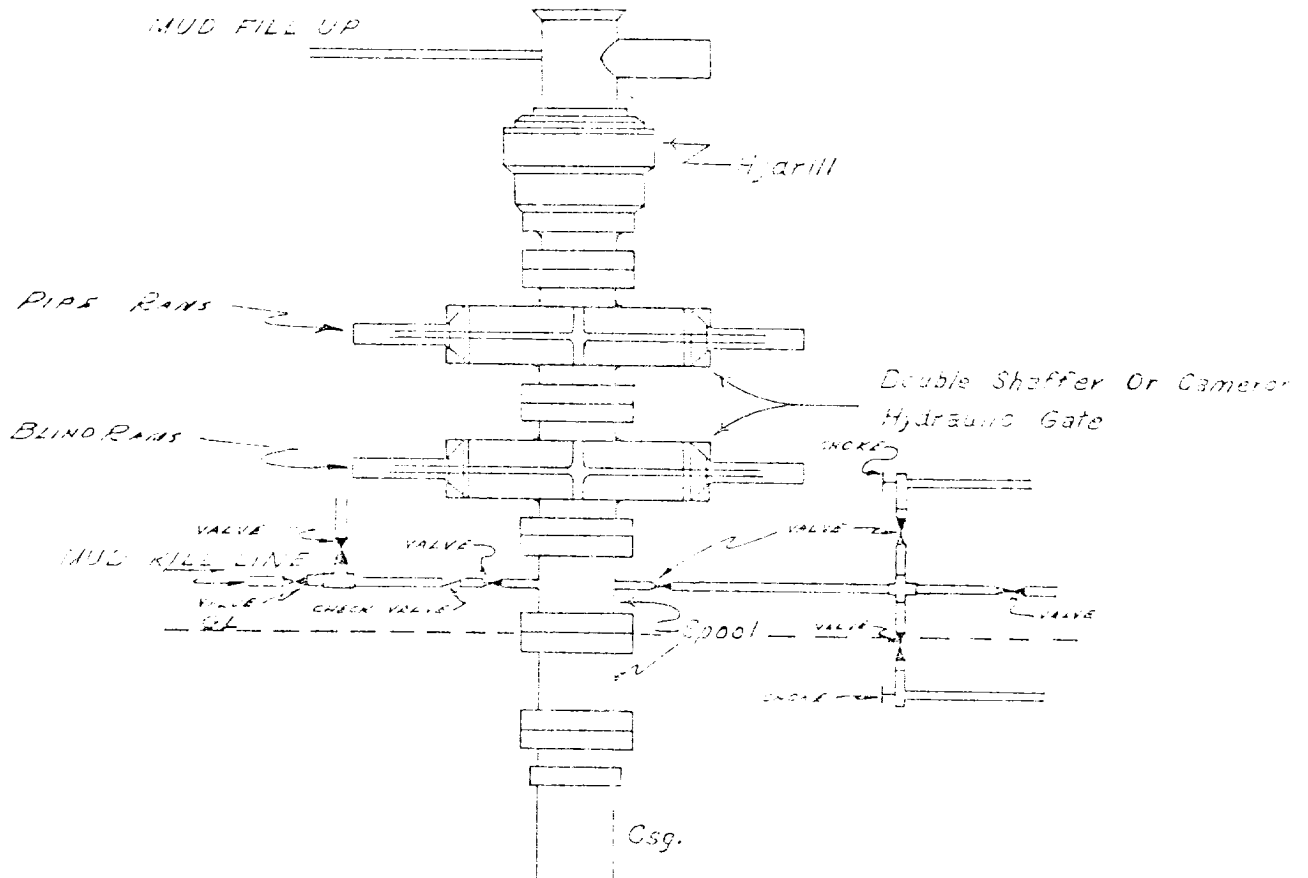
CEMENT

TYPE OF STRING INTERVAL (FT) FROM-TO TYPE MIX	CEL% SALT% CaCl ₂	SLURRY WEIGHT LB./GAL	SLURRY YIELD OF/SKX	TOTAL AMT. REQUIRED SKX/CF	FILL UP	BHT	SIZE	REMARKS
(S) 0'-1450' Class "C" (Lead)	4%	13.3	1.88	420/790	Circ.	85°F	12 1/4"	100% Excess Add 1/4#/sx flocele if lost circulation occurs.
(S) 1450'-1500' Class "C" (Tail-in)	2%	14.8	1.32	100/132				
(P) 0'-6130' (1st Stage) Class "C" (Lead)	4%	13.3	1.88	290/545	To DV Tool @ + 4000'	110°F	8 3/4"	100% Excess Add 1/4#/sx flocele if lost circulation occurs.
(P) 6130'-6180' Class "C" (Tail-in)	3#/sx	14.8	1.32	226/298				
(2nd Stage) Lite-Wate	18%	DV STAGE TOOL @ + 4,000'						
	--	13.3	1.93	975/1876	Circ.	95°F	8 3/4"	200% Excess Add 1/4#/sx flocele if lost circulation occurs

REMARKS

1. Lab test slurry for production casing.
2. Condition mud to have low plastic viscosity & yield strength.
3. Precede cement w/500 gals. mud flush.
4. Utilize top & bottom plugs. Pump top plug down w/TFW.
5. Recalculate cement volumes from OH caliper log.
6. Reciprocate casing while cementing.
7. Condition mud to reduce viscosity prior to cementing.

CONTINENTAL OIL COMPANY
Blow-out Preventer Specifications



NOTE:

API SERIES 900

Manual and Hydraulic controls with closing
unit no less than 15' from well head.
Resete controls on rig floor.

DUE TO SUBSTRUCTURE CLEARANCE,
HYDRILL MAY OR MAYNOT BE USED.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form 17-1-2
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

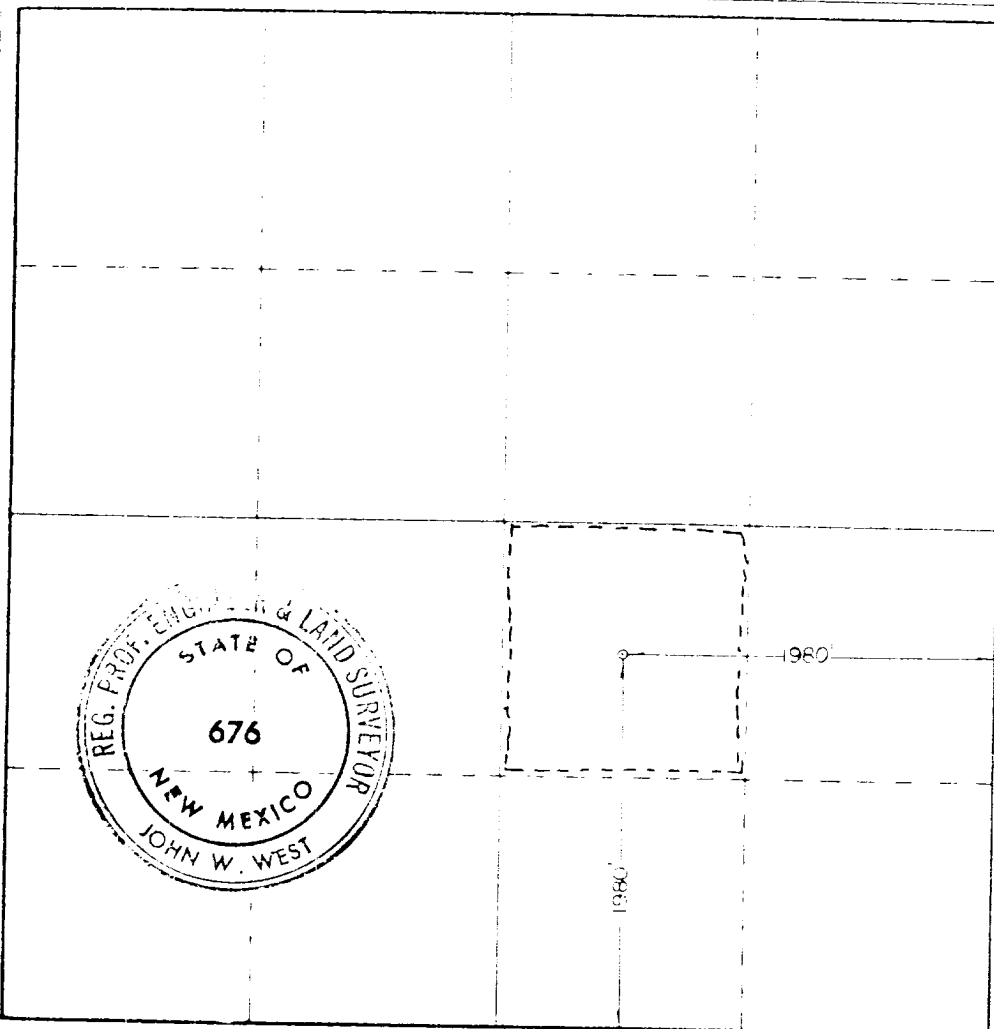
CONTINENTAL OIL CO.		WARREN UNIT		77	
J	20	20 SOUTH	38 EAST	LEA	
1200	SOUTH		1960	EAST	
3551.5	TUBB / BLINEBRY		WARREN TUBB / BLINEBRY Oil & Gas		40 Acres

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, force-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.

Wm. A. Butterfield
ADMINISTRATIVE SUPERVISOR
CONTINENTAL OIL CO.

JUNE 15, 1979

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

JUNE 11TH, 1979

Registered Professional Engineer
and/or Land Surveyor

John W. West

Certificate No. John W. West

SURFACE USE PLAN
Continental Oil Company
Warren Unit No. 77
T20S R38E
Lea County, New Mexico

The plan is to accompany "Application for Permit to Drill" the subject well. The following is a discussion of pertinent information concerning possible effect which the proposed drilling of the well may have on the environment of the well and road sites and surrounding acreage. A copy will be posted on the derrick floor so that all contractors and sub-contractors will be aware of all items of this plan.

1. EXISTING ROADS

- A. The proposed well site is 1980' FSL and 1980' FEL, Sec. 20, T20S, R38E, Lea County, New Mexico.
- B. Exhibit "A" is a portion of a New Mexico road map showing existing black top roads. Directions to the location are as follows: From Stanolind Road in Hobbs, travel south on Highway 18 approximately 10 miles and turn west through the red, white, and blue cattle-guard. See Exhibit "B" for lease roads to location.
- C,D,E. Access roads are shown on Exhibits "B" and "C".
- F. No improvement or maintenance are anticipated for the existing roads.

2. PLANNED ACCESS ROADS

- A. Width and Length: New road required will be 12' wide and 100' long. This new road is labeled and coded on Exhibits "B" and "C".
- B. Turnouts: None.
- C. Drainage Design: New road will have a drop of 6" from center line on each side.
- D. Culverts, Cuts and Fills: None required.
- E. Surfacing Material: Six inches of caliche, bladed, watered, and compacted.
- F. Gates, Cattleguards, Fences: None required.
- G. The proposed road is staked.

3. LOCATION OF EXISTING WELLS

See Exhibit "C".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. Tank Batteries: No new tank batteries are required. Existing batteries are spotted on attached Exhibit "B".
- B. Producing Facilities: No new producing facilities are required.
- C. Oil Gathering Lines: Flow lines will lay on the surface alongside the road right-of-way.
- D. Other Lines: Electrical distribution lines will be constructed on 330' spans as shown on Exhibit "E".
- D. Rehabilitation: Pits will be backfilled and leveled as soon as practical to original condition. Commencement of rehabilitation operations will immediately follow removal of drilling and completion equipment from location. Rehabilitation of the surface is planned to be completed within 45 days from commencement.

5. WATER SUPPLY

Water will be hauled from Eunice, New Mexico.

6. SOURCE OF CONSTRUCTION MATERIALS

Caliche will be hauled over existing roads from a pit in the SE/SE, Sec. 15, T-20S, R-38E.

7. METHODS FOR HANDLING WASTE DISPOSAL

Waste Disposal: Well cuttings will be disposed in reserve pit. Barrel trash containers to be in accessible locations within drill site area during drilling and completion procedures. All detrimental waste will be hauled away, burned or buried with a minimum cover of 24" of dirt. See Exhibit "D" for location of pits. If well is productive, maintenance waste will be placed in special trash cans and hauled away periodically. Any produced water will be collected in tanks until hauled to an approved disposal system, or separate disposal applications will be submitted to the survey for appropriate approval.

8. ANCILLARY FACILITIES

None.

9. WELL SITE LAYOUT

Exhibit "D" shows the relative location and dimensions of the well pad, mud pit, reserve pit, etc. The reserve pit will be lined with plastic. The pad and pits are staked.

10. PLANS FOR RESTORATION OF SURFACE

Pits will be backfilled and leveled as soon as practical to original condition. Commencement of rehabilitation operations will immediately follow removal of drilling and completion equipment from location and rehabilitation of the surface is planned to be completed within 45 days from commencement.

11. OTHER INFORMATION

- A. Terrain: Flat.
- B. Soil: Sandy.
- C. Vegetation: Shinnery, mesquite, sparse.
- D. Surface Use: Grazing.
- E. Ponds and Streams: None within one mile.
- F. Water Wells: None.
- G. Residences and Buildings: None.
- H. Arroyos, Canyons, Etc.: None.
- I. Well Sign: Sign identifying and locating well will be maintained at drill site with the spudding of the well.
- J. Open Pits: All pits containing mud or other liquids will be fenced.
- K. Archaeological Resources: None observed.

12. OPERATOR'S REPRESENTATIVE

Field personnel who can be contacted concerning compliance of this Surface Use Plan are as follows:

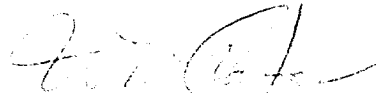
Production and Drilling
W. D. Cates or H. C. Pokrandt
1001 North Turner
Hobbs, New Mexico 88240
Phone: 393-4141

13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site 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 Continental Oil Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

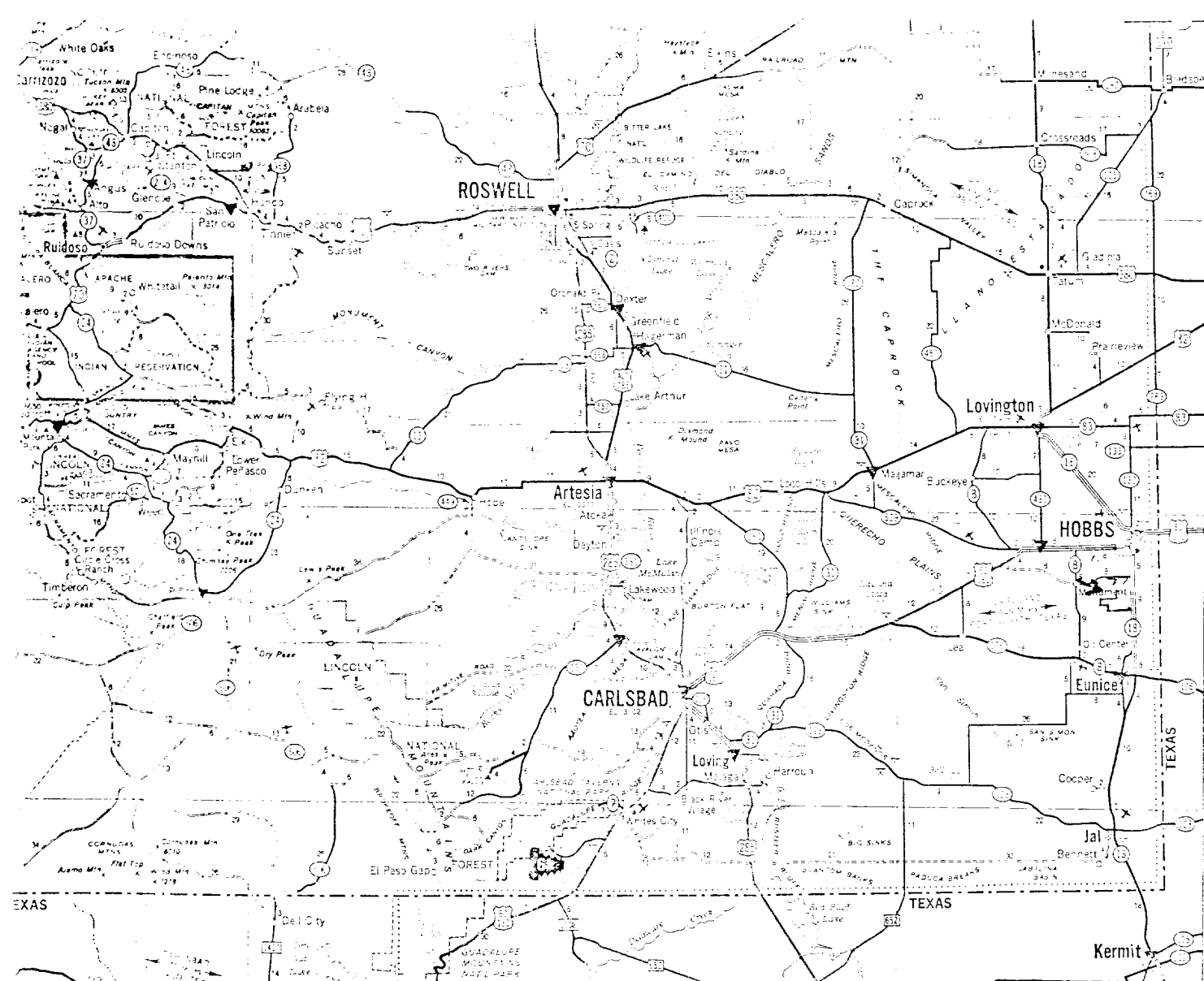
6-15-79

Date



Production Superintendent

PEB:cab



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LOCATIONS WHERE CONOCO PRODUCTS ARE SOLD

Locations on Interstate Highways, toll roads or on U.S. and state highways where CONOCO PRODUCTS are sold.

Locations of CONOCO Travel Shoppes.

Locations where CONOCO DEALERS provide service to Travelers with Sanitation and disposal facilities. Look for this sign.

CONOCO

TRAILER DISPOSAL

TOURIST ATTRACTIONS

HISTORICAL

SCENIC

GENERAL

Attraction points of interest are indicated by these symbols.

NEW MEXICO

SCALE IN MILES AND KILOMETERS

ONE INCH 22 MILES 0 5 10 20 30

ONE INCH 35 KILOMETERS 0 5 10 20 30 40

HIGHWAY MARKERS

INTERSTATE UNITED STATES STATE TEXAS

ROAD CLASSIFICATIONS

CONTROLLED ACCESS DIVIDED HIGHWAYS

OTHER DIVIDED HIGHWAYS

PRINCIPAL THROUGH HIGHWAYS

OTHER THROUGH HIGHWAYS

CONNECTING HIGHWAYS

LOCAL ROADS In unfamiliar areas inquire locally.

MILEAGES

MILEAGE BETWEEN TOWNS AND JUNCTIONS 3 1/2

ONE MILE EQUALS 1.6 KILOMETERS

SPECIAL FEATURES

STATE PARKS

W/In Campsites Without Campsites

RECREATION AREAS

W/In Campsites Without Campsites

POINTS OF ENTRY

Open 24 Hours Inquire Locally

POINTS OF INTEREST

POPULATION SYMBOLS

State Capital

Under 1,000

1,000 to 2,500

2,500 to 5,000

5,000 to 10,000

10,000 to 25,000

25,000 to 50,000

50,000 to 100,000

100,000 and over

THE H. M. GOSHA COMPANY

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TEXAS
NEW MEXICO

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