SUBMIT IN TRIPLICATE*

(Other instructions on

Form approved. Budget Bureau No. 42-R1425.

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	DEPARTMENT	OF THE INTE	RIOR OF TO O		5. LEASE DESIGNATION	ON AND SERIAL NO.
	GEOLO	GICAL SURVEY	* **** Q	. % (%)	NM - 1884	8
APPLICATION	L FOR PERMIT T	O DRILL DEEP	EN, OR PLUG B	ACK	6. IF INDIAN, ALLOTT	FEE OR TRIBE RAME
	TON TENITRE	<u> </u>	2, , , , , , , , , , , , , , ,			
IA. TYPE OF WORK DRI	LL x	DEEPEN 🗌	PLUG BA	CK 🗌	7. UNIT AGREEMENT	NAME
b. TYPE OF WELL		s	INGLE MULTIP	LE	8. FARM OR LEASE N	JANE
OIL X GA	ELL OTHER		ONE ZONE		505-18-F	ederAL
2. NAME OF GPERATOR					redetal bu	nd 18
Getty Oil	Company			· · · · · · · · · · · · · · · · · · ·	9. WELL NO.	
3. ADDRESS OF OPERATOR					21	
P O Box	730; Hobbs, New eport location clearly and	w Mexico 88240			10. FIELD AND POOL	
LOCATION OF WELL (Re	eport location clearly and	in accordance with any	State requirements.*)	ر کو در ا		ATED ne Spring
At surface Unit lette	r C. 1980' FWL	and 990' FNL,	Sec. 18-23S-32E	2	11. SEC., T., R., M., O AND SURVEY OR	B BLE. Area
At proposed prod. zone		,	•			
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00' and plug process will be used for cementing all strings of casing and cement will be circulated to the surface on the 11 3/4" and the 8 5/8" casing. The 5 1/2" casing will be perforated as indicated by electric logs opposite the Bone Spring formation.

The drilling fluid will be brine water with sufficient gel to condition the hole for logging and running casing to approximately 9300°.

SEE ATTACHED FOR CONDITIONS OF APPROVAL

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout zone. Dr 24

eventer program, if any.		
BIONED MCOUS Concelect	— TITLE Area Superintende	ent DATE July 8, 1977
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	APPROVED AS AMENDED
APPROVED BY	TITLE	DATE
CONDITIONS OF APPROVAL, IF ANY: "APPROVAL TO FLARE GRANTED		JUL 2 6 1977 BERNARD MOROZ
MHILE DOUTING AND TESTING "	*See Instructions On Reverse Side	ACTING DISTRICT ENGINEER

MULTE DRILLING AND 1521ING.

NECELLO ON AND ACREAGE DEDICATION PL

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Getty Oil Company

P. O. Box 730; Hobbs, New Mexico 88240

North American Exploration and Production Division

ADDITIONAL INFORMATION FOR "APPLICATION FOR PERMIT TO DRILL"
GETTY OIL COMPANY

FEDERAL SANDS "18" WELL NO: 2 SOE-18- FEGERAL WELL NO. 1

- (1) The geologic name of the surface formation is OGALLALA.
- (2) The estimated tops of important geologic markers are as follows:

Formation	<u>Depth</u> From Surface	Depth SUBSEA (3575' KB)
Rustler Delaware Cherry Canyon Brushy Canyon Bone Springs Bone Springs Pay	985' 4600' 5485' 6775' 8525' 8625'	+ 2590' - 1025' - 1910' - 3200' - 4950' - 5050'

(3) The estimated depths at which anticipated water and oil could be encountered are

Depth	
100' - 1000'	Possible small volume of fresh water
460 0' - 5485'	(Delaware) Possible oil
5485' - 8525'	(Cherry Canyon - Brushy Canyon) Possible Oil
8525' - 9300'	(Bone Springs) Oil

- (4) The proposed casing program see attached "application for permit to drill".
- (5) The minimum specifications for pressure control equipment to be used see Figure I. The BOP stack will be tested to 5000 psi.
- (6) The drilling fluid will consist of brine with sufficient gel to condition hole for logging and running casing. Since the Federal Sand 18 No. 1, a 2850' southeast offset, did not experience any pressure requiring additional mud weight, none is deemed necessary for well no. 1.
- (7) The auxiliary equipment to be used is as follows:
 - (1) Kelly cocks
 - (2) Monitoring equipment on the mud system
 - (3) Sub on the floor with a full opening valve to be stabled into drill pipe when the Kelly is not in the string.
- (8) There will be no coring or drill stem tests. The logging program is as follows:

 Type Log

 Interval

SONIC		4650 *	-	9300'
Compensated Neutron-Form. Dual Lateral	Density	4650 ' 4650 '		

CIL CONSTRUCTION COMMIN.

- (9) No anticipated abnormal pressures or temperatures or hydrogen sulfide gas are expected to be encountered.
- (10) The starting date is immediately. It is anticipated that this well should be drilled and completed in 35 days.

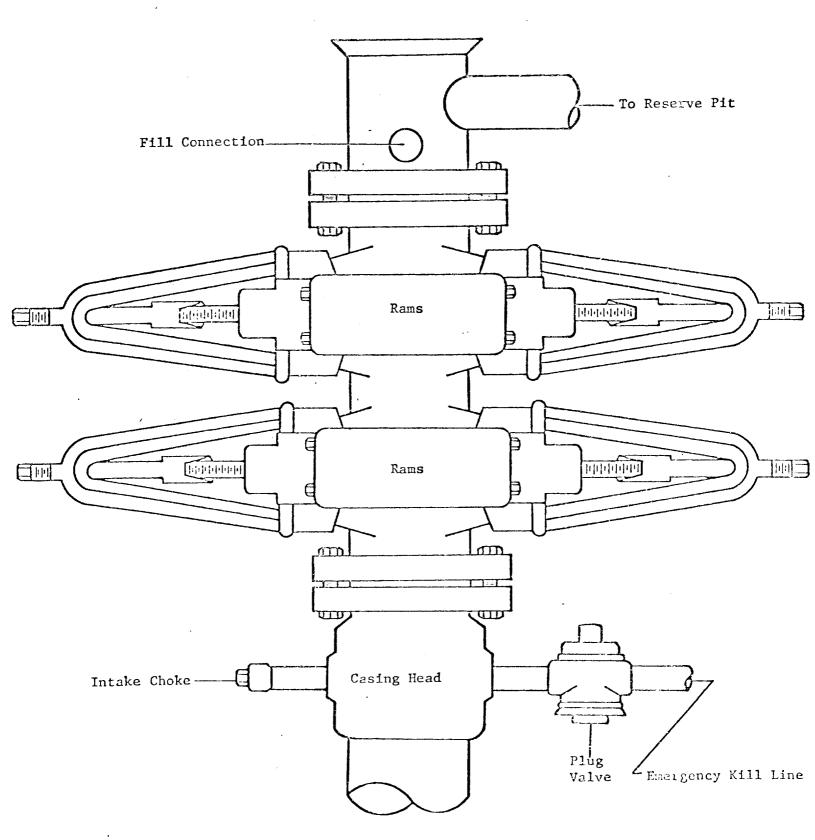


FIGURE I
GETTY OIL COMPANY
SOCO PSI WORKING PRESSURE
DRILLING CONTROL ECOK-UP



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North American Exploration and Production Division

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

GETTY OIL COMPANY
FEDERAL SAND "18" S DE-18-FederaL
WELL NO. 21

1980' FWL and 990' FNL, Sec. 18-23S-32E

Lea County, New Mexico Lease New Mexico 18848

This plan is submitted with our application for Permit to Drill the above well. The purpose of the plan is to describe the location of the well, the proposed construction activities and operations plan, the magnitude of necessary 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 effects associated with the operation.

(1) Existing Roads:

- A. Exhibit "A" is a highway map showing the location of the proposed well. The location is as follows: Take highway 18 from Hobbs to Jal. From Jal go west on highway 128 for approximately 35.5 miles. Turn right through the first cattleguard approximately 1 mile past the Lea and Eddy County line. Go 3.5 miles and turn right on a caliche road. Go 1.3 miles and turn left into the location for the Federal Sand "18" Well No. 3.1.

 SOE-18-Federal
- B. Exhibit "B" is a plat showing the existing roads within a radius of 1 mile of the proposed well and the planned access road to the location.

(2) Planned Access Road:

- A. Length and Width: 990' of new road will be required. This road will be constructed from the existing road north to the well site as shown on Exhibit "B". The new road will be 12 feet wide.
- B. <u>Surfacing Material</u>: The new road will consist of six inches of caliche which will be watered, compacted, and graded.
- C. Maximum Grade: 3 per cent
- D. <u>Turnouts</u>: None. Can use well no. 12 location which is 2640 east for this purpose.
- E. <u>Drainage Design</u>: New road will have a drop of 6 inches from center line on each side.

OIL CO HOBBS. N. M.

- F. Culverts: None needed.
- G. Cuts and Fills: None required.
- H. Gates, Cattleguards: None required.

(3) Location of Existing Wells:

A. Exhibit "B" shows wells within a one mile radius of the proposed well.

(4) Location of Existing Facilities:

- A. Exhibit "C" shows the tank battery and flow line for well no. 1. The produced water goes from the heater treater to a 90 BBL. tank and is then trucked off the lease.
- 3. If the proposed well is productive, the new flow line to the contains tank battery will be as shown in Exhibit "C". ON The Literary FAD

(5) Type of Water Supply:

A. Water for drilling will be trucked to the well site over the existing and proposed roads shown on Exhibits "A" and "C".

(6) Source of Construction Materials:

A. Caliche for surfacing the road and the well pad will be obtained from the pit shown in Exhibit "B". This pit is located on Federal Land. Approval to open this pit was previously obtained from the BLM in 1975 for use in surfacing roads and well site for well no. 1.

(7) Methods of Handling Waste Disposal:

- A. Drill cuttings will be disposed of in the drilling pits.
- B. Drilling fluids will be allowed to evaporate in the drilling pits until pits are dry.
- C. Water produced during tests will be disposed of in the drilling pits. Oil produced during tests will be stored in test tanks.
- D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- E. Trash will be buried in a trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind. The location of the trash pit is shown on Exhibit "D".
- F. All trash and debris will be buried or removed from the well site within 30 days after finishing completion operations.

(8) Ancillary Facilities:

A. None required.

(9) Wellsite Layout:

- A. Exhibit "D" shows the relative location and dimensions of the well pad, mud pits, reserve pit, trash pit, and major rig components.
- B. Only levelling of the well site will be required. No significant cuts and fills will be necessary.
- C. The reserve pit will be plastic lined.
- D. The pad and pit area has been staked and flagged.

(10) Plans for Restoration of the Surface:

- A. After completion of operations, all equipment and other material not needed for operations will be removed. Pits will be filled and location cleaned of all trash and junk.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. Any special rehabilitation and revegetation requirements of the surface management agency will be complied with and accomplished as soon as possible. All pits will be filled and levelled within 90 days of completion or abandonment of the well.

(11) Other Information:

- A. Topography: The land surface is arid and gently rolling. From an elevation of 3555' at the well site, the surface slopes toward the northwest at above 50' per mile.
- B. Soil: The topsoil is sandy.
- C. Flora and Fauna: This area is sparcely covered by sage brush and native grass. Wildlife in the area is mainly rabbits, rattlesnakes, and coyotes.
- D. <u>Ponds and Streams</u>: There are no rivers, streams, lakes or ponds in the area.
- E. Residences and Other Structures: The nearest windmill water well is 2 miles east. There are no residences in the area.
- F. Archeological, Historical, and Cultural Sites: None observed in the area.
- G. Land Use: Grazing.
- H. Surface Ownership: Well site and proposed new road are on Federal Surface

Figure 1. 7

7...2 1377

CIL CONTRACTOR GRAMM HOBBS, N. W

(12) Operator's Representative:

The field representative responsible for assuring compliance with the approved surface use and operations plan is:

Dale R. Crockett
P. O. Box 730
Hobbs, New Mexico 88240
Office Phone: 505-397-3571
Home Phone: 505-393-6326

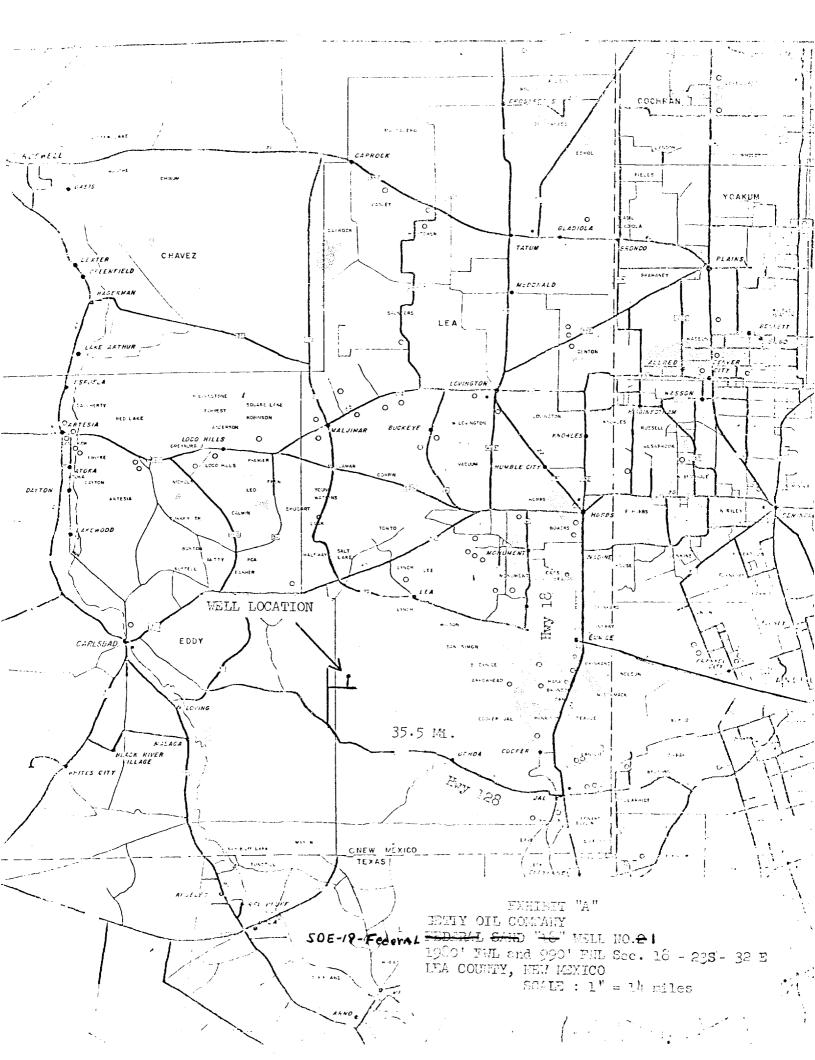
(13) Certification:

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 Getty Oil Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

July 8, 1977

Dale R. Crockett
Area Superintendent

CIL CONSERVATION COMM.



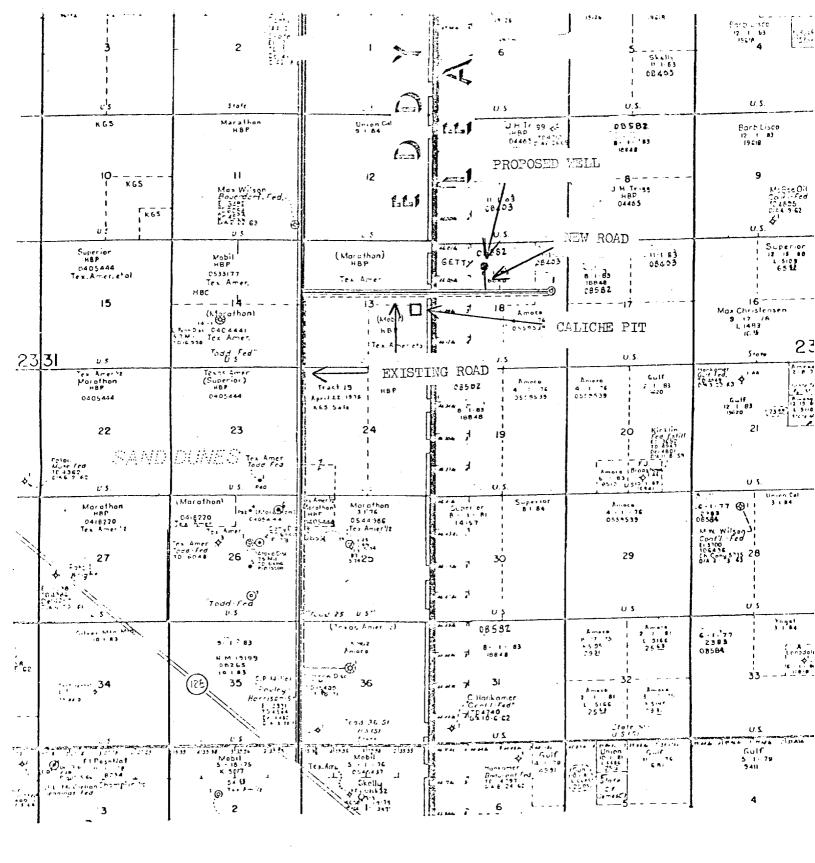


EXHIBIT "B"

GETTY OIL COMPANY

SDE-18-Federal FAHD "18" WELL NO. 21

1980' FWL and 990' FWL SEC. 18- 23S - 32 E

Scale: 1"=. 8Mi.

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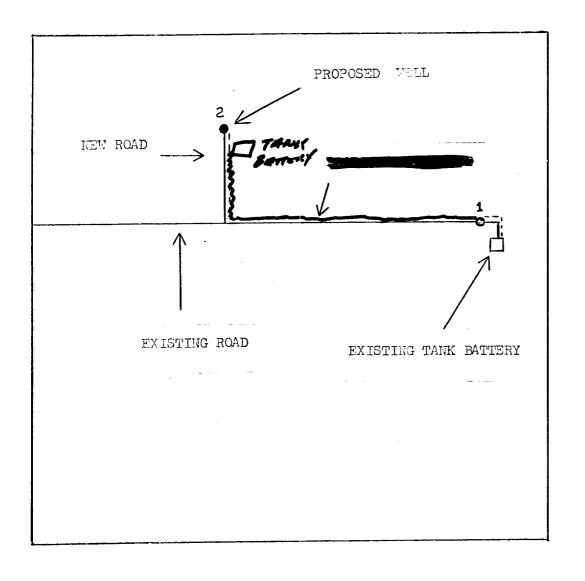


EXHIBIT "C"

GETTY OIL COMPANY

SOE-18-Federal FEDERAL SAND "18" WELL NO. 21

1980' FWL and 990' FNL SEC. 18 - 23S - 32E

LEA COUNTY, NEW MEXICO

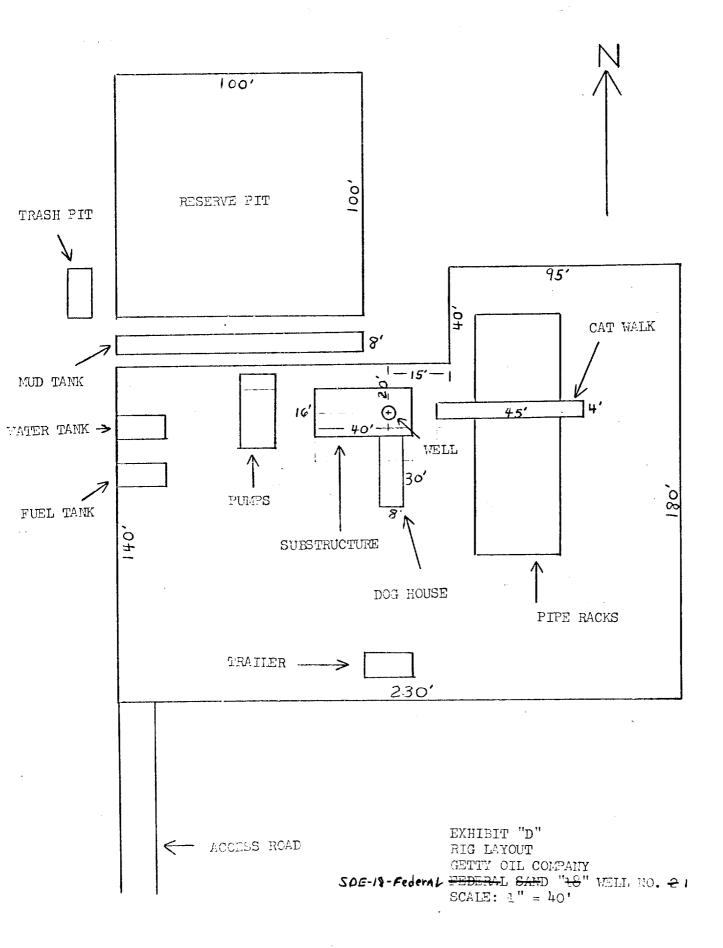
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