Form 9-381 C (May 1963)				(Other inst	TRIPLICATE	<b>;•</b>	Form approv Budget Burea	ed. u No. <b>42-R1425</b> .
				reverse				
	DEPARTMEN			JR		5. LEA	SE DESIGNATION	AND SERIAL NO.
GEOLOGICAL SURVEY				USA-NM 9563				
	N FOR PERMIT	TO DRILL,	DEEPEN	, OR PLUG	BACK	6. DF 1	NDIAN, ALLOTTE	OR TRIBE NAME
a. TYPE OF WORK	ILL 🖾	DEEPEN		PLUG B	ACK 🗆	7. UNT	T AGREEMENT N	
b. TYPE OF WELL	48 177		SING				KM-	1256
OIL CAS SINGLE MULTIPLE   WELL WELL OTHER ZONE   2. NAME OF OPERATOR TEAS FEDERAL O				23 T (2004				
SUN OIL COM	PANY					9. WBI		
. ADDRESS OF OPERATOR				s	······	1		
P. O. BOX 1	861, MIDLAND, 1	IEXAS 79702				10. FI	LD AND POOL, C	R WILDCAT
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface				Teas-Pennsylvanian				
1980' FNL.	1980' FWL, Sec	. 24. T20S.	R-33-E	NMPM	ిళి <b>చి</b> గి. రాజికి	11. BB(	., T., R., M., OR I	NLK. 1/ )
At proposed prod. zon	ne,	,,			1010	<b>C</b> -	- 0/ m	/ 20 0 D 20 /
Same	AND DIRECTION FROM NE	AREST TOWN OR POS	T OFFICE			12 cor	C. 24, 1-	20-S, R-33-
	southwest of H					Le		N. M.
5. DISTANCE FROM PROP LOCATION TO NEARES	OSED®		16. NO. 0	F ACRES IN LEASE		OF ACRES	ASSIGNED	1
PROPERTY OR LEASE 1 (Also to nearest dr)	g. unit line, if any)	980'	52	-	TOT	HIS WELL	320	
8. DISTANCE FROM PROF TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLETED,	_	19. PROPO	SED DEPTH	20. ROTA		als tools	
1. ELEVATIONS (Show wh								EX WILL START*
GR 3635.6						ASAP - 1978		
3.		PROPOSED CASH	NG AND C	EMENTING PROG	RAM	·	· ·	<b>.</b>
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER P	00T	SETTING DEPTH		QUA	NTITY OF CEMEN	T
24	20	94		1,200		1475	Sx	
171/2	13-3/8	54.50 & 6	51	3,300		3750	Sx	
121/2	9-5/8	36 & 40		8,400		1635	Sx	
812	5-1/2	17 & 20	ł	13,700	ł	1075	Sx	
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- S	EE ATTACHED -							
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(TAS	Nor Previe	c .		90	days o	tter.	apprava/	r
NISL	- R-5720	<b>{</b>						
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one. If proposal is to	B PROPOSED PROGRAM : If drill or deepen direction							
reventer program, if an 4.	y.				<u> </u>			••••••••
SIGNED JUL	ien 2. POu		Region	nal Manager	Conserva	<u>ati</u> on,	Apri	<u>1 4, 1978</u>
(This space for Fede	ral or State office use)	<u></u>		<u></u>			<u> </u>	<del></del>
PERMIT NO.			API	BOVAL DATE				
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APPROVED BY		TI	"LE			1	ATE	
CONDITIONS OF APPROV	AL, IF ANY :							

\*See Instructions On Reverse Side

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## FEDENED

### 1 9 1978

Ch. C. HARRING COMM.

#### NEW MEXICO OIL CONSERVATION COMMISSION WELL CATION AND ACREAGE DEDICATION F

Form C-102 Supersedes C-128

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|                                | Sun Oil Co.                            |                                                 | Lease Ford (                 | °                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| interest a<br>3 If more th     | and royalty).<br>nan one lease of diff | ferent ownership is c                           | dedicated to the well.       | entify the ownership the<br>have the interests of a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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|                                |                                        | Teas Fodoral                                    |                              | April 4,<br>t hereby cer<br>shown on this<br>notes of actu-<br>under my super-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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|                                |                                        | Teas Federal                                    | NM 9563                      | April 4,<br>i hereby cer<br>shown on this<br>notes of actu<br>under my supu-<br>is true and<br>knowledge and<br>knowledge and<br>interpreter<br>the full way is the full<br>the full way is the full way is the full<br>the full way is the full way is the full<br>the full way is the full way is the full way is the full<br>the full way is the full way is | Drilling Coordina<br>OMPANY<br>1978<br>1978<br>1978<br>1978<br>1978<br>1978<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>100 |

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#### SUN OIL COMPANY TEAS FEDERAL COM. NO. 1 1980' FNL & 1980' FWL, Sec. 24 T20S-R33E USA - NEW MEXICO LEASE #9563

#### 1. GEOLOGIC NAME OF SURFACE FORMATION: "QUATERNARY"

#### 2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

| Yates       | 3311  |
|-------------|-------|
| Bone Spring | 8436  |
| Wolfcamp    | 11074 |
| Strawn      | 12366 |
| Atoka       | 12576 |
| U. Morrow   | 12974 |
| M. Morrow   | 13254 |
| L. Morrow   | 13506 |

#### 3. ANTICIPATED HYDROCARBON BEARING ZONES:

| Bone Spring | 8436  |
|-------------|-------|
| M. Morrow   | 13254 |
| L. Morrow   | 13506 |

#### A. CASING PROGRAM:

| S 1 Z E | FOOTAGE                      | GRADE            | WT/FT                |            |
|---------|------------------------------|------------------|----------------------|------------|
| 20"     | 1200                         | 11-40            | 91 1b                | New        |
| 13-3/8" | 2000<br>1 <u>300</u><br>3300 | K-55<br>K-55     | 54.50 1b<br>61.00 1b | New<br>New |
| 9-5/8"  | 5400<br>3000<br>8400         | S-80<br>S-80     | 36.00 16<br>40.00 16 | New<br>New |
| 5-1/2"  | $1000 \\ 4500 \\ 5500$       | N - 80<br>N - 80 | 17.00 15<br>20.00 15 | New<br>New |

5-1/2" is liner w/top at 8200', bottom at TD 13,700'

#### 5 & 7. OPERATORS MINIMUM SPECIFICATIONS FOR PRESSURE AND BLOW OUT EQUIPMENT TO BE USED:

After setting the 9-5/8" casing string and before drilling into the Molfcamp 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. USOS 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.

Pipe rams and the annular-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.

Accumulators shall maintain a pressure capacity reserve at all times to provide for repeated operation of hydraulic preventers.

A drill string safety value in the open position shall be maintained on the rig floor at all times while drilling operations are being conducted.

Blowout prevention drills shall be conducted as necessary to insure that each drilling crew is properly trained to carry out emergency duties.

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be installed and operating before drilling into the Wolfcamp 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.

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.

A copy of these requirements shall be posted on the rig floor or in the dog-house during the drilling of the well. SUN - Teas Federal Com. No. 1

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- 6. TYPE AND MUD SYSTEM CHARACTERISTICS: TYPE MUD VIS W1. WT. LBS/GALS TO FROM Frsh Wtr-Gel-Lime 34-36 NC 8.6 - 9.2 1200 0 Sat brn - Lime 28 NC 10.0 3300 1200 Frsh wtr - Lime 28 NC 8.4 - 8.5 8400 3300 Frsh wtr - Lime 28 8.4 - 8.5 NC 11000 8400 Brine - Caustic Soda 28 NC - 10.0 9.5 12500 11000 Brine - Polymer 34-38 ±5. - 10.5 10.0 TD 12500
- 8. Anticipate two drill stem tests will be conducted depending on shows in Bone Spring and Morrow. Such tests to be conducted under established prudent industry practice.

No coring is anticipated.

Schlumberger:

| Ι.   | BHC Sonic/GR<br>GR only | 3300 - 1200<br>1200 - Surface |
|------|-------------------------|-------------------------------|
| ΙΙ.  | BHC Sonic/GR<br>DILL    | 8400 - 3300<br>8400 - 3300    |
| III. | DLL/RXO<br>CNL-FDC/GR   | TD - 8400<br>TD - 8400        |

9. No abnormal temperatures or hydrogen sulfide gas is expected. Abnormal pressures may be expected through Strawn, Atoka and Morrow formations.

Two similar wells have been drilled in the area:

Sinclair (ARCO) Mahaffey Fed #1, drilled to 14,948' in NW/4 Sec. 14, T20-R33 and is producing.

Citics Service Government "N" #1-Y, drilled to 15,137' in SW/4 Sec. 19, T20-R34 and was P&A'd.

 Estimated starting date: As soon as possible - subject to approval of permit and data presented herein.

Page 3



#### SUN OIL COMPANY TEAS FEDERAL COM. NO. 1 1980' FNL& 1980' FWL, Sec. 24, T20S-R33E USA - NEW MEXICO LEASE #9563 (WILDCAT WELL) LEA COUNTY, NEW MEXICO

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 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 portion of a county map showing the proposed well as staked. Directions to location:

From Jct 483 & 62/180 ("Arkansas Jct", 11 miles west of Hobbs) procede 18.6 miles west on Hwy 62/180, turn south on caliche road through cattleguard 0.2 miles, turn east 0.45 mile, turn south 0.65 mile, turn east 0.15 mile, turn south 0.45 mile (cattleguard 0.2 mile south), turn southeast 0.3 mile, turn northeast 0.7 mile (fence at 0.3 mile) to windmill, turn south 0.3 mile to location.

Location is 32.8 miles from Hobbs, and 3.2 miles from Hwy 62/180.

- B. Exhibit B is a plat showing all wells within a one-mile radius of the wellsite and the planned access road.
- C. A portion of the existing lease roads in Sections 10, 14 and 15 will be repaired as required. This will consist of adding caliche to restore six-inch deep by twelve-foot wide caliche road.
- 2. PLANNED ACCESS ROADS
  - A. Length and Width: New road required will be 12-feet wide and approximately 1500-feet long. This new road is labeled and color coded red on Exhibit B. The center line of the proposed-new road from the beginning to the wellsite, has been staked and flagged with the stakes being visable from one end to the next.
  - B. <u>Surface Material</u>: Six inches of caliche, water, compacted and graded.

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- C. Maximum Grade: Three percent.
- D. Turnouts: None required on this short roadway.
- E. <u>Drainage Design</u>: New road will be 12-feet wide and crowned for drainage.
- F. <u>Culverts</u>: It is anticipated no culverts will be required.
- G. Cuts and Fills: None anticipated
- II. <u>Gates and Cattleguards</u>: A cattleguard will need to be set on the fenceline between Section 24 and Section 23. (A barbed wire gate is presently in use)
- 3. LOCATION OF EXISTING WELLS
  - A. Existing wells within a one-mile radius are shown on Exhibit B.
- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES
  - A. If the proposed well is completed and productive, plans are to construct a tank battery on the well pad and no additional surface disturbance will occur.
- 5. LOCATION AND TYPE OF WATER SUPPLY
  - A. Fresh water will be produced from water bearing sands underlying the lease if found to be of sufficient quantity and quality for drilling operations. All brine water (and fresh water if necessary) will be purchased and hauled over existing and proposed roads shown on Exhibits A & C.
- G. SOURCE OF CONSTRUCTION MATERIALS
  - A. Caliche for surfacing the road and the well pad will be obtained from an existing pit in SW/4 of NE/4 Section 23, T2OS-R33E. Location of the pit is shown in Exhibit B.
- 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 test will be disposed of in the drilling pits. Oil produced during tests will be stored in test tanks until sold.

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- D. Current Laws and Regulations pertaining to the disposal of human waste will be complied with.
- L. Trash, waste paper, garbage and junk will be buried in a separate trash pit and covered with a minimum 24 inches of dirt. All waste material will be contained to prevent scattering by the wind. Location of trash pit is shown on Exhibit D.
- F. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.
- 8. ANCIILARY FACILITIES
  - A. None required.
- 9. WILLSITE LAYOUT
  - A. Exhibit D shows the relative location and dimensions of the well pad, mud pits, reserve pit, trash pit, and location of major rig components. (If Exhibit D not included - some will be submitted as soon as contractor is selected through bidding.
  - B. Only minor levelling of the wellsite will be required. No significant cuts or fills will be necessary.
    - C. The reserve pit will be plastic lined.
    - D. The pad and pit area.
- 10. PLANS FOR RESTORATION OF THE 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 location cleaned of all trash and junk to leave the wellsite in an aesthetically pleasing condition as possible.
  - B. Any unguarded pits containing fluids will be fenced until they are filled.
  - C. After abandonment of the well, surface restoration will be in accordance with the agreement with the surface owner. Pits will be filled and location will be cleaned. The pit area, well pad, and all unneeded access road will be ripped to promote revegetation. Rehabilitation should be accomplished within 90 days after abandonment. (Alternate if on Federal surface - after abandonment, any special rehabilitation and/or revegetation requirements of the surface management agency will be complied with and accomplished as expeditiously as possible. All pits should be filled and levelled within 90 days after abandonment.)

SUN - Teas Federal Com. No. 1

#### 11. OTHER INFORMATION:

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- A. <u>Topograhpy</u>: Land surface is undulating to gently rolling and duny. From an elevation of 3635.6 fect at the wellsite.
- B. Soil: Soil is a deep fine sand underlain by caliche.
- C. Flora and Fauna: The vegetative cover is generally sparse and consists of mesquite, yucca, shinnery oak, sandsage and perenial native range grasses. Wildlife in the area is that typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, dove, quail, and an occasional antelope.
- D. Ponds and Streams: There are no rivers, streams, lakes or ponds in the area.
- E. <u>Residences and Other Structures</u>: The nearest occupied dwellings are houses at the Bingham Ranch approximately six miles west-south-west and at the Smith Ranch approximate five miles north.
- F. Archeological, Historical and Cultural Sites: None observed in the area.
- G. Land Use: Grazing and hunting in season.
- H. Surface Ownership: Wellsite is on Federal surface.
- 12. OPERATOR'S REPRESENTATIVE:

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

> H. L. Bethancourt 2809 Moss Midland, Texas 79701 Office Phone: 915--682-8271 or 682-8276 Howe Phone: 915--694-0678

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

April 4, 1978 Date

Name: C. C. Dunlap

Regional Drilling Coordinator Title





#### EXHIBIT B

Sun Oil Company Well No.1 Teas Fed. Com. 1980' FNL & 1980' FWL Sec. 24, T-20-S, R.-33-E. Lea County, New Mexico Scale: 1"= 2000'



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#### EXHIBIT C

#### Sun Oil Company Well No.1 Teas Fed. Com.

# 1980' FNL & 1980' FWL Sec. 24, T-20-S., R.-33-E. Lea County, New Mexico Scale: 1" = 1000'





230 - 22nd Street East Saskatoon, Saskatchewan S7K 0E9

 Phone: (306) 664-2291

June 29, 1978

U.S. Geological Survey Federal Building P.O.Box 1157 Hobbs, New Mexico 88240 U.S.A.

Gentlemen,

Noranda Exploration, Inc. has been advised of Sun Oil Company's application to drill the Teas Federal Com. Well No. 1, Section 24, T2OS, R33E, Lea County, New Mexico.

This is to advise that Noranda Exploration, Inc. has no objection to Sun's application.

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Yours truly, Noranda Mines Limited J.M. Gordon Géneral Manager

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