Refert Bangless Re-entry g and all well g+A.

## SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

Form approved, Budget Bureau No. 42-R1425.

5. LEASE DESIGNATION AND SERIAL NO.

# **UNITED STATES** DEPARTMENT OF THE INTERIOR

		GICAL SURV				047 NM	
APPLICATIO	N FOR PERMIT	TO DRILL,	DEEPE	N, OR PLU	G BACK	6. IF INDIAN, ALLOTT	EE OR TRIBE NAME
1a. TYPE OF WORK	RILL XX	DEEPEN	П	PILIG	BACK [	N/A 7. UNIT AGREEMENT	NAME
b. TYPE OF WELL,		DELICIN				N/A	
OIL WELL	WELL XX OTHER		815 ZO		ONE .	S. FARM OR LEASE N.	AME
Sun Oil Comp	nan v					New Mexico F	ederal "N"
3. ADDRESS OF OPERATOR					·	#5E	
2525 Northwe	est Expressway, Report location clearly and	Oklahoma C	ity, C	klahoma 73	3112	10. FIELD AND POOL,	OR WILDCAT
4. LOCATION OF WELL () At surface					)	Basin Dakota	
		1115'FEL	( SE S	E )		11. SEC., T., R., M# OR AND SURVEY OR	BLK.
At proposed prod. zo Same	ne					Soc 7 T20N	D 1 2 L/
	AND DIRECTION FROM NEA	REST TOWN OR POS	ST OFFICE	•		Sec. 7 T30N 12. COUNTY OF PARIS	
4 miles Nort	h of Farmington	, New Mexi				San Juan	New Mexico
15. DISTANCE FROM PROF LOCATION TO NEARES	sr	0.401	16. NO.	OF ACRES IN LEAS		OF ACRES ASSIGNED THIS WELL	
	lg. unit line, if any)	940'	10 1	1920 .		320→S. 3	719.30
<ol> <li>DISTANCE FROM PRO TO SEAREST WELL, OR APPLIED FOR, ON TI</li> </ol>	DRILLING, COMPLETED,		19. PRO	6900 1	20. Ro	Rotary	
	hether DF, RT, GR, etc.)		1			22. APPROX. DATE W	ORK WILL START
			5901'	GR		March 1, 19	30
23.		PROPOSED CASI	NG AND	CEMENTING PRO	OGRAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	700 <b>T</b>	SETTING DEPTH	<del></del>	QUANTITY OF CEMI	INT
12-1/4"	8-5/8" new	24# K-55 S		350'	250	sxs Class "A"	olus additives
7-7/8"	4-1/2" new	9.5# K-55	ST&C	6900'	425+	1300 sx <b>s</b> plus a	additives
4. Run logs EXHIBITS ATT "A" "B" "C" "D" "E" "F" "G" "H" "K"	Location & El The Ten-Point The Blowout P The Multi-Poi Access Road M Radius Map of Drill Pad Lay Drill Rig Lay Fracturing Pr FROPOSED PROGRAM: If drilly or deepen directions	d perforate evation Pla Compliance reventer Di nt Requirer ap to Locat Field out, Produc out ogram Layou proposal & to dee	e and at e Prog iagram ments tion ction	stimulate a ram for A.P.D. Facilities	s needed  & Cut-Fi	11 Cross Section	2. 1980 1. COM-
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	. h 3 . d	, <b>*See⁻I</b> nstru	etions (	On Reverse Side	Ľ	DISTRICT ENGIN	IEER

## NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

EXTION COMMISSION

BE DEDICATION PLAT

EXHIBIT "A" - Location & Elevation Plat

·	All distances must be	from the outer boundaries of the Section	m.	vacion Flac
Son Oil C	Company	USA 047 NM		well to. Federal N#SE
<i>P</i> 7	Township 30 Nor7	4 12 West County	San Juan	
	South line and	1115 (cet from the	East	ine
	asin Dakota	Basin Dakota		ted Acreage; <del>320</del> <i>319-30</i> <sub>Acres</sub>
1. Outline the acreage de	edicated to the subject w	ell by colored pencil or hachur	e marks on the plat	below.
<ol><li>If more than one leas interest and royalty).</li></ol>	e is dedicated to the wel	l, outline each and identify the	ownership thereof	(both as to working
	of different ownership is on, unitization, force-pool	dedicated to the well, have the ing, etc?	interests of all ov	rners been consoli-
Yes No	If answer is "yes," type of	of consolidation		
If answer is "no," list this form if necessary.)		criptions which have actually b	een consolidated. (I	se reverse side of
No allowable will be as	signed to the well until al	l interests have been consolida d unit, eliminating such interes	ated (by communitizes	ation, unitization, red by the Commis-
			CERT	FICATION
			hest of my knowle Name George La V. Pres. Powe	paseotes rs Elevation
		ł	Agent Consu	
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1190'FSL	/ }		notes of deluct a	the property of the same or the best of my
	New /	Mexico Federal "N"#5#	29 Ja	n. 80 2. Nudstata nal Engineer
			68 44 Certificate No.	
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# EXHIBIT "B"

# TEN-POINT COMPLIANCE PROGRAM

# OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331C Sun Oil Company New Mexico - Federal "N" #5E 940'FSL & 1115'FEL ( SE SE ) Sec. 7 T30N R12W San Juan County, "ww Mexico

# 1. The Geologic Surface Formation

Torrejon - Puerco

2.	Estimated Tops o	f Important	Geologic	Markers
	Ojo Alamo	780		
	Fruitland	1775'		
	Picture Cliffs	2064 '		
	Cliff House	3669'		
	Point Lookou <b>t</b>	4430'		
	<b>Gallu</b> p	5955'		
	Basin Dakota	6559'		
	Total Depth	6900'		

3. Estima	ted Depths of /	Anticipated	Water, (	Oil, Gas	or Minerals
Ojo Al	amo	780'		Water	
Fruitl	and :	1775'		Gas	
Pictur	e Cliffs 2	2064'		Gas	
Cliff	House :	3669'		Gas	
Point	Lookout	4430'		Gas	
G <b>a</b> llup	Ĺ	5955'		Gas	
Basin	Dakota 6	6 <b>559</b> '		Gas	

.....

## 4. The Proposed Casing Program

#### Casing Design

HOLE	INTERVAL	SECTION	SIZE	WEIGHT, GRADE,	OR
SIZE		LENGTH	(OD)	& JOINT	USED
12 1/4"	0-350'	350 <b>'</b>	8 5/8"	24# K-55 ST&C	New
7 7/8"	0-6900'	6900'	4 1/2"	9.5# K-55 ST&C	New

#### Cement Program

- (a) Surface Casing: Set 8 5/8" casing at 350' and cement with 250 sacks Class "A" + 2% CaCl $_2$  +  $\frac{1}{4}$ #/sack Flake. Circulate to surface.
- (b) Production Casing: 1st Stage: Set  $4\frac{1}{2}$  casing at 6,900' and cement with 425 sacks light + 6% Gel + 10#/sack Gilsonite. Tail in with 100 sacks Class "A" + .75% CFR-2.

2nd Stage: Set DV tool at 4200' and cement with 1300 sacks 50-50 Pozmix + 2% Gel + 10#/sack Gilsonite. Calculated top of cement = 650'.

# 5. The Operator's Minimum Specifications for Pressure Control

EXHIBIT "C" is a schematic diagram of the blowout preventer equipment. The BOP's will be hydraulically tested to the full working pressure after nippling up and after any use under pressure. Pipe rams will be operationally checked each 24-hour period, as will blind rams each time pipe is pulled out of the hole. Such checks of BOP will be noted on daily drilling reports.

Accessories to BOP will include a kelly cock, floor safety valve, drill string BOP and choke manifold with pressure rating equivalent to the BOP stack.

# 6. The Type and Characteristics of the Proposed Circulating Muds

Mud system will be water-gel chemical with adequate stocks of sorptive agents on site to handle possible spills of fuel and oil on the surface. Heavier muds will be on location to be added if pressure requires.

INTERVAL	WEIGHT	WATER LOSS	VISCOSITY	MUD TYPE
0-350' 350'-4000' 4000'-6900'	8.5-9.0ppg 8.8-9.5ppg 9.0-9.5pps	15-25cc	28-30 sec.	Water - Gel & Lime Water - Gel & Soda Ash Low Solids - Dispersed Loss Circ. Material as Required

# 7. The Auxiliary Equipment to be Used

- (a) A kelly cock will be kept in the string.
- (b) A float will not be used at the bit.
- (c) Neither a mud logging unit nor a gas detecting device will be monitoring the system. The system will be monitored visually.
- (d) A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string.

# 8. The Testing, Logging and Coring Programs to be Followed

- (a) No DST's are anticipated.
- (b) The logging program will consist of a DIL-LL from 350' to total depth, and a CNL-FDC from 350' to total depth; other logs will be determined at well site to best evaluate any shows.
- (c) No coring is anticipated.
- (d) Completion program will consist of acidizing perforations down the tubing and cleaning up; and fracturing down the casing with gelled water and sand. Maximum treating pressure will be 3500#. See <a href="EXHIBIT"K" for equipment layout diagram">EXHIBIT "K"</a> for equipment layout diagram.

# 9. Any Anticipated Abnormal Pressures or Temperatures

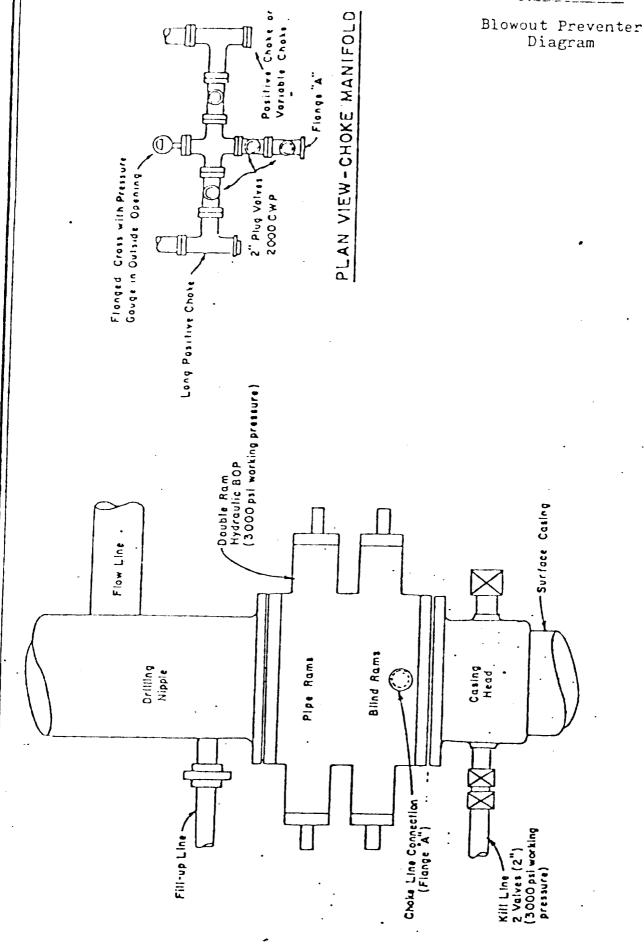
No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well.

Bottom hole pressure expected is 3250 psi.

No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

# 10. Anticipated Starting Date and Duration of the Operations

The anticipated starting date is set for March 1, 1980, or as soon as possible after examination and approval of drilling requirements. Operations should be completed within 30 days after spudding the well and drilling to casing point.



#### EXHIBIT "D"

#### MULTI-POINT REQUIREMENTS TO ACCOMPANY A.P.D.

Attached to Form 9-331C Sun Oil Company New Mexico-Federal N #5E SE SE Sec. 7 T30N R12W 940' FSL & 1115' FEL San Juan County, New Mexico

### 1. Existing Roads

- A. The proposed well site and elevation plat is shown as <a href="EXHIBIT">EXHIBIT "A"</a>.
- B. The distance from Farmington, New Mexico to the location is 4 miles. Proceed North at the intersection of Mayfair Drive and Highway #550 a distance of 3 miles to major intersection of dirt roads, thence continue North and West 1 mile to proposed access road, thence 75' on access road to location, as shown on EXHIBIT "E".
- C. All roads to location are color-coded on <a href="EXHIBIT"E"</a>. An access road 75' from the existing road will be required, as shown on <a href="EXHIBIT"E"</a>.
- D. N/A
- E. This is a development well. All existing roads within a one-mile radius are shown on EXHIBIT "E".
- F. The existing roads need no improvement.

## 2. Planned Access Roads

Map showing all necessary access roads to be constructed or reconstructed is shown as EXHIBIT "E" for the following:

- (1) The maximum width of the running surface of the 75 feet of access road, extending beyond the existing graded road will be 18'.
- (2) The grade will be 8% (eight percent) or <u>less</u>.
- (3) No turn outs are planned.
- (4) Appropriate water bars will be constructed to assure drainage off location to conform with the natural drainage pattern.

- (5) No culverts are needed. No major cuts or fills are anticipated along access road during drilling operation.
- (6) Surfacing materials will be native soil.
- (7) No gates, cattle guards, or fence cuts are needed.
- (8) The new access road to be constructed was staked and centerline flagged, as shown on EXHIBIT "E".

### 3. Location of Existing Wells

For all existing wells within a one mile radius of development, well, see EXHIBIT "F".

- (1) There are no water wells within a one-mile radius of this location.
- (2) There are no abandoned wells in this one-mile radius.
- (3) There are no temporarily abandoned wells.
- (4) There are no disposal wells.
- (5) There are no wells presently being drilled.
- (6) There are four producing wells within this one-mile radius.
- (7) There are no shut-in wells.
- (8) There are no injection wells.
- (9) There are no monitoring or observation wells for other uses.

# 4. Location of Existing and/or Proposed Facilities

- A. Within a one-mile radius of location the following existing facilities are owned or controlled by lessee/operator:
  - (1) Tank Batteries: None
  - (2) Production Facilities: None
  - (3) Oil Gathering Lines: None
  - (4) Gas Gathering Lines: None
  - (5) Injection Lines: None
  - (6) Disposal Lines: None

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- B. If the well is productive, new facilities will be as follows:
  - (1) Production facilities will be located on solid ground of cut area of drill pad, as shown on EXHIBIT "G".
  - (2) All well flow lines will be buried and will be on the well site and battery site.
  - (3) Facilities will be 300 feet long and 220 feet wide.
  - (4) All construction materials for battery site and pad will be obtained from site. No additional material from outside sources is anticipated.
  - (5) Any necessary pits will be fenced and flagged to protect livestock and wildlife.
- C. Rehabilitation, whether well is productive or dry, will be made on all unused areas in accordance with B.L.M. stipulations.

### 5. Location and Type of Water Supply

- A. The source of water will be from La Plata River, 4.5 miles West of the location, as shown on <a href="EXHIBIT">EXHIBIT "E"</a>.
- B. Water will be transported by truck over existing roadways.
- C. No water well is to be drilled on this lease.

#### 6. Construction Materials

- A. No construction materials are needed for drilling well or constructing access roads into the drilling location unless well is productive. The surface soil materials will be sufficient or will be purchased from Dirt Contractor as needed.
- B. No construction materials will be taken off Federal land.
- C. All surface soil materials for construction of access roads are sufficient.
- D. All major access roads presently exist as shown on **EXHIBIT** "E".

# 7. Handling of Waste Materials and Disposal

- (1) Drill cuttings will be buried in the reserve pit.
- (2) Drilling fluids will be handled in the reserve pit.

- (3) Any fluids produced during drilling test or while making production test will be collected in a test tank. If a test tank is not available during drilling, fluids will be handled in reserve pit. Any spills of oil, gas, salt water or other noxious fluids will be cleaned up and removed.
- (4) Chemical toilet facilities will be provided for human waste.
- (5) Garbage, waste, salts and other chemicals produced during drilling or testing will be handled in trash/burn pit. Drill fluids, water, drilling mud and tailings will be kept in reserve pit, as shown on EXHIBIT "H". The trash/burn pit will be totally enclosed with small mesh wire to prevent wind scattering trash before being burned or buried. Reserve pit will be fenced on three sides and the fourth side fenced upon removal of the rig.
- (6) After the rig moves out, all materials will be cleaned up and no adverse materials will be left on location. Any dangerous open pit will be fenced during drilling and kept closed until the pit has dried and is filled.

### 8. Ancillary Facilities

No air strip, camp or other facilities will be built during drilling of this well.

### 9. Well Site Layout

- (1) EXHIBIT "G" is the Drill Pad Layout as staked, with elevations, by Powers Elevation of Durango, Colorado. Cuts and fills have been drafted to visualize the planned cut across the location spot and the deepest part of the pad. Topsoil will be stockpiled per BLM specifications determined at time of pre-drill inspection.
- (2) EXHIBIT "H" is a plan diagram of the proposed rig and equipment, reserve pit, trash/burn pit, pipe racks and mud tanks. No permanent living facilities are planned. There will be a trailer on site.
- (3) EXHIBIT "G" is a diagram showing the proposed production facilities layout.
- (4) The reserve pits will not be lined. Steel mud tanks may be used during drilling operations.

#### 10. Plans for Restoration

(1) Backfilling, leveling and contouring are planned as soon as all pits have dried. Waste disposal and spoils materials will be buried or hauled away immediately after drilling is completed. If production is obtained, the unused area will be restored as soon as possible.

- (2) The soil banked material will be spread over the area. Revegetation will be accomplished by planting mixed grasses as per formula provided by the BLM. Revegetation is recommended for road area, as well as around drill pad.
- (3) Three sides of the reserve pit will be fenced during drilling operations. Prior to rig release, the reserve pit will be fenced on the fourth side to prevent livestock or wildlife from becoming entrapped; and the fencing will be maintained until leveling and cleanup are accomplished.
- (4) If any oil is on the pits and is not immediately removed after operations cease, the pit containing the oil or other adverse substances will be flagged overhead or covered with wire mesh.
- (5) The rehabilitation operations will begin immediately after the drilling rig is removed. Removal of oil or other adverse substances will begin immediately or area will be flagged and fenced. Other cleanup will be done as needed. Planting and revegetation is considered best in Spring, 1981, unless requested otherwise.

#### 11. Other Information

- (1) The soil is a sandy-clay loam. No distinguishing geological features are present. The area is covered with cactus, sage-brush, pinon, cedar, juniper and desert mahogany. There are rabbits and deer in the area. The topography is rolling hills North and South.
- (2) The surface is not in use. The surface is owned by the U.S. Government.
- (3) The closest live water is Las Animas River, 4 miles South of the location, as shown on EXHIBIT "E".

The closest occupied dwelling is 1.5 miles West in NW SW Sec. 18 T30N R12W, as shown on EXHIBIT "E".

There are no known archaeological, historical, or cultural heritages that will be disturbed by this drilling.

- (4) There are no reported restrictions or reservations noted on the oil and gas lease.
- (5) Drilling is planned for on or about March 1, 1980. It is anticipated that the casing point will be reached within 30 days after commencement of drilling.

#### Lessee's or Operator's Representative 12.

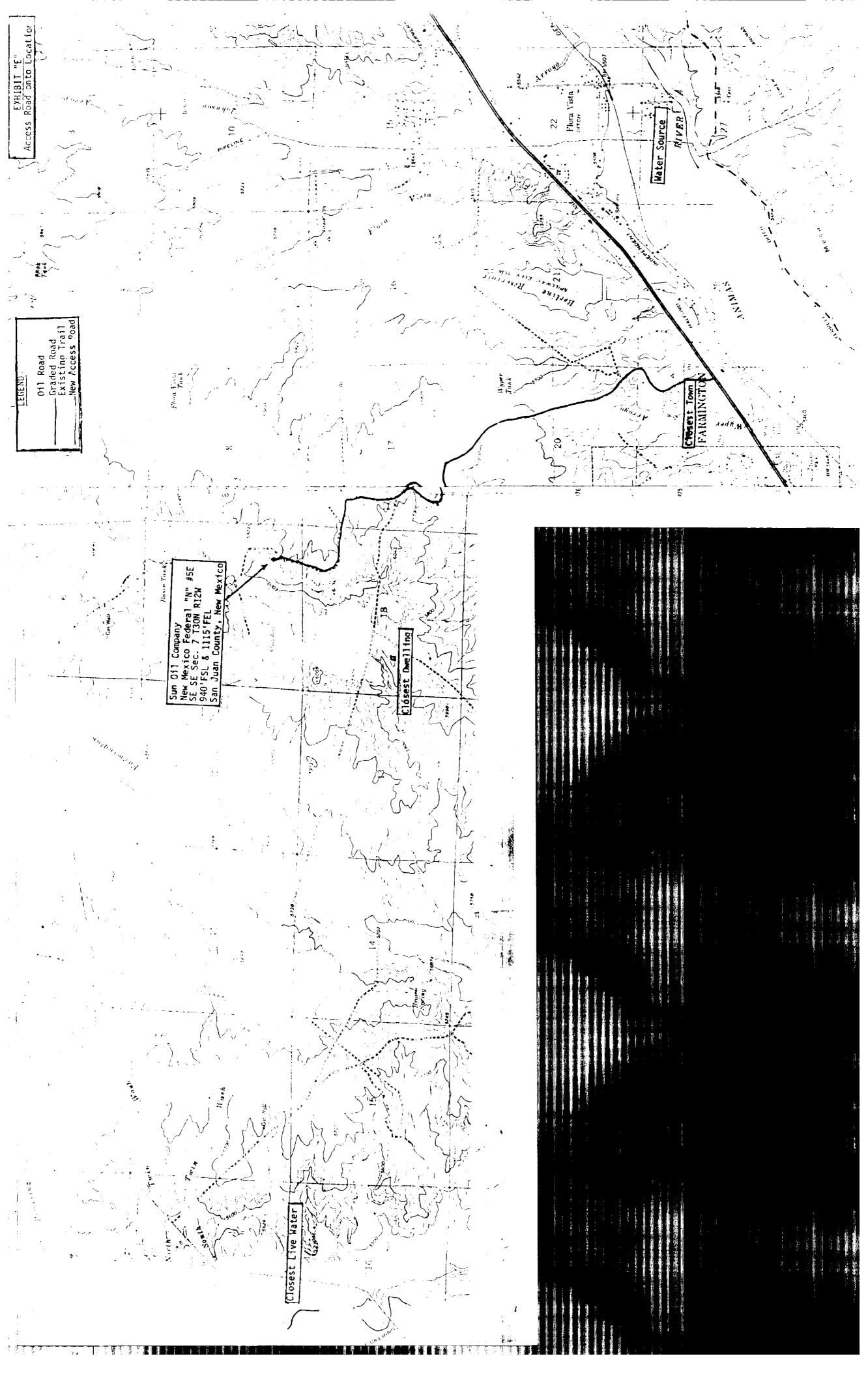
George Lapaseotes Agent Consultant for Sun Oil Company 600 South Cherry Street Suite 1201 Denver, Colorado 80222 Phone (303) 321-2217 Ralph Maness Sun Oil Company 2525 Northwest Expressway Oklahoma City, Oklahoma 73112 Phone (405) 843-9711

#### Certification 13.

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 subcontractors in conformity with this plan and the terms and conditions under which it is approved.

George Lapaseotes Agent Consultant for

Sun Oil Company



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