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Form 9-331 C (May 1963)			SUBMIT IN T		Form approved. Budget Bureau No. 42-R1425.	
(IVIAY 1500)		ED STATES	(Other instru reverse s		E. P. M. Inter	
DEPARTMENT OF THE INTERIOR					5. LEASE DESIGNATION AND SERIAL NO.	
		GICAL SURVEY			NM-15019 6. IF INDIAN, ALLOTTEE OB TBIBE NAME	
	N FOR PERMIT T	O DRILL, DEE	PEN, OR PLUG I	BACK	-	
1a. TYPE OF WORK DRI b. TYPE OF WELL	LL 🛛	DEEPEN 🗌	PLUG BA	СК 🗌	7. UNIT AGREEMENT NAME	
OIL  GAS  OTHER  SINGLE  MULTIPLE    WELL  WELL  OTHER  ZONE  ZONE					8. FARM OR LEASE NAME	
2. NAME OF OPERATOR	2. NAME OF OPERATOR Cone Federal					
SUNDANCE UIL 3. Address of Operator	SUNDANCE OIL COMPANY					
Suite 510, 1776 Lincoln Street, Denver, CO 80203					10. FIELD AND POOL, OR WILDCAT Tomahawk, San Andres	
1980' FNL, 60	50' FWL	Unit	E		11. SEC., T., R., M., OE BLK. AND SURVEY OR AREA	
At proposed prod. zon Same	e				Section 31, T.7S., R.32E	
14. DISTANCE IN MILES A	AND DIRECTION FROM NEAD	REST TOWN OR POST OF	FICE*	·	12. COUNTY OR PABISH 13. STATE	
15 <sup>1</sup> / <sub>2</sub> miles sou	uth of Kenna, N	ew Mexico	NO. OF ACRES IN LEASE	117 NO	Roosevelt New Mexico	
LOCATION TO NEAREST PROPERTY OR LEASE L	INE, FT.	660	560		CHIS WELL	
(Also to nearest drig 18. DISTANCE FROM PROP	OSED LOCATION*		. FROPOSED DEPTH	20. ROTARY OR CABLE TOOLS		
TO NEAREST WELL, DI OR APPLIED FOR, ON THI	RILLING, COMPLETED, IS LEASE, FT.	1870	4350	Rot	tary	
21. ELEVATIONS (Show whe	ether DF, RT, GR, etc.)				22. APPROX. DATE WORK WILL START*	
4441.5' GL	F	PROPOSED CASING	AND CEMENTING PROGR	 AM	l August 20, 1978	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	 	QUANTITY OF CEMENT	
11"	8 5/8"	28	1800		sx Econ & 100 sx Class L	
7_7/8"	4 1/2"	11.60 & 10.5	4350		sx 50/50 Poz	
Casing will b	be run when log <b>HED FOR</b>		DECESSINE		DST's when necessary. rcial production.	
CONDITIONS O	F APPROVAL		JUN 2 0 1978		"APPROVAL TO FLARE GRANTED WHILE DRILLING AND TESTING."	
			U. S. GEDLOGICAL S	URVEY	DALLING AND TESTING."	
			HOBBS, NEW ME	(ICO		
Unless Drilling Connenced, this Expires		-			· · · ·	
zone. If proposal is repreventer program, it an	drill or deepen directions	proposal is to deepen ally, give pertinent da	or plug back, give data on p ta on subsurface locations a	present pro-	ductive zone and proposed new productive ed and true vertical depths. Give blowout	
24. signed Richard	ud V. Ulu	TITLE .	Vice President,	Produc	ction DATE June 13, 1978	
(This space for Fede	ral or State office use)					
PERMIT NO.			APPBOVAL DATE	AF	SPROVED	
APPROVED BY TITLE AS AMEATE						
CONDITIONS OF APPROV	AL, IF ANY :	*See Instructio	ons On Reverse Side	4	SEP 1 2, 1978 . JAMES F. SIMS STRICT ENGINEER	
				l		

# NEW XICO DE CONSERVATION COMMISSION WELL LUCATION AND ACREAGE DEDICATION PLAT

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			All distances must be f	rom the outer boundaries of	fore Section	
, •••• <b>•</b> •	Sun	dance Oil Co.	• <u></u>	Federal (	Cone	5
Ε		31	7South	32East	Roosevelt	
			lorth	<u>660</u>	West	
1.05	4441.5	Sector and rest	. * 5	Tomahawk	37.4	140
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21	lf more th <b>an</b> interest and re	one lease is de oyalty)	dicated to the wel	l, outline each and ide	entify the ownership thereof (	both as to working
			erent ownership is i ization, force-pooli		taxe the interests of all ow	ners been consult
	) Yes	No If answ	er is "ves," type o	f consolidation		
			ners and tract des.	riptions which have a	o da is bren consciulated of	Status Sec. And F
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					June 13, 197	8
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## Attachment to Form 9-331 C Application for Permit to Drill

Sundance Oil Company, #5 Cone Federal 1980' FNL and 660' FWL of Section 31, T. 7S., R. 32E. Roosevelt County, New Mexico

- 1. The geologic name of the surface information is Triassic red beds overlain by wind blown sands.
- 2. The estimated tops of important geologic markers are as follows:

Rustler	1780'
Salado	1810'
Yates	2200'
San Andres	3360'
P-1	4060'
P-2	4145'
T.D.	4350'

3. The estimated depths at which anticipated water, oil, gas or other mineral bearing formations will be encountered are as follows:

Ogalala		150'	water	
Salado		1810'	salt	
San Andres		3360'	oil and	gas
P-1	-	4060'	oil and	gas
P-2		4145'	oil and	gas

4. The proposed casing program is as follows:

Surface - New 8 5/8", 28 #/ft., ST&C, Secondary 45 (J&L). Production - New 4½", 10.5 #/ft., ST&C, K-55 and 11.6 #/ft., ST&C, JCW-36 (J&L).

- 5. A sketch of an API Series 900 Blowout Preventer is attached. Pipe rams and blinds will be checked to 1,000 PSI for 30 minutes whem BOP is installed. BOP will be checked when casing is set and operated daily for checks.
- 6. The proposed mud program is as follows:

0-1800'	spud mud	8.5 - 9.0 lbs./gal.
1800-3500'	native mud	9.0 - 9.5 lbs./gal.
3500-T.D.	salt gel	9.0 - 10.0 lbs./gal.

- 7. The auxiliary equipment to be used is:
  - Kelly cocks.
    Floats at the bit.
  - 3. Stabbing valve on rig floor with sub to fit drill pipe.
- 8. It is proposed to run 2" and 5" GR, CNL, FDC, DLL/MLL Logs from TD to 1800'.
- 9. No abnormal pressures or temperatures are expected to be encountered in this well.
- 10. The anticipated starting date for this well is August 20, 1978. Estimated duration of drilling operations is 10 to 12 days.

# MULTI-POINT SURFACE USE & OPERATIONS PLAN

Sundance Oil Company: Cone Federal #5 1980' FNL and 660' FWL of Section 31, T. 7S., R. 32E. Roosevelt County, New Mexico

This plan is to accompany "Application for Permit to Drill" the subject well which is located approximately 15½ miles south of Kenna, New Mexico. 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.

#### 1. Existing Roads

- A. The proposed well site is 660' FWL and 1980' FNL of Section 31, T. 7S., R. 32E., Roosevelt County, New Mexico.
- B. Exhibit "A" is portion of a map showing existing roads with directions to the location from Kenna, New Mexico. The route to the location is marked in red along side of roads to be used. The well location is approximately  $15\frac{1}{2}$  miles south of Kenna, New Mexico.
- C., D. & E. Access roads are shown on Exhibit "A".
- F. No improvement or maintenance is anticipated for the existing roads.

## 2. Planned Access Roads

- A. Length & Width: New road required will be 2640' long and 12' wide. This new road is labeled and color coded Red on Exhibites "A" and "B". The center line of the proposed new road has been flagged and staked with the stakes being visible from one to the next.
- B. Surfacing Material: Six inches of caliche, watered, compacted and graded.
- C. Drainage Design: New road will have a drop of six (6) inches from center line on each side.
- D. Culverts: None.
- E. Turnouts: None.
- F. Cuts and Fills: The location and pits will be constructed as shown on Exhibit "C". Maximum cut and maximum fill will be 3' on the location, other than leveling sand dunes.
- G. Gates, Cattleguards, Fences: None.

#### 3. Location of Existing Wells

A. See Exhibit "B".

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- 4. Location of Existing and/or Proposed Facilities
  - A. The tank battery and production facilities are located on this lease at or near the Cone Federal #1 location (NE NE Section 31).

( ...

- B. If commercial production is established, a flow line will be connected to the existing tank battery and no additional surface disturbance will occur. Facilities will be fenced and/or covered to protect livestock and wildlife.
- C. All unused areas disturbed by construction will be restored to natural terrain profile after construction is completed.
- 5. Location and Type of Water Supply
  - A. Water will be obtained from well at Kenna and/or Crossroads.
  - B. Water will be transported by truck.
- 6. Source of Construction Materials
  - A. Caliche will be obtained from a pit in Section 7, T. 7S., R. 32E.
- 7. Methods for Handling Waste Disposal
  - A. Drill cuttings will be disposed of in the reserve pit.
  - 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 until sold.
  - D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
  - E. Trash, waste paper, garbage, and junk will be buried in a separate trash pit and covered with a minimum of twenty-four (24) inches of dirt. All waste material will be contained to prevent scattering by the wind. Location of trash pit is shown on Exhibit "C". If well is productive, maintenance waste will be placed in special trash cans and hauled to an approved sanitary landfill, periodically. Any produced water will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted to the Survey for appropriate approval.
- 8. Ancillary Facilities: None.
- 9. Well Site Layout
  - A. Exhibit "C" shows the relative location and dimensions of the well pad, mud pits, reserve pit, trash pit, and location of major rig components.

Multi-Point Surface US. Operations Plan Cone Federal #5 Page 3

- 9. Well Site Layout (cont.)
  - B. The reserve pit will be lined with plastic.
  - C. The pad and pit area has been flagged and staked.

#### 10. Plans for Restoration of Surface

A. 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 forty-five (45) days from commencement.

C

#### 11. Other Information

A. Terrain: Low rolling sand hills.

- B. Soil: Sandy.
- C. Vegetation: Scrub oak, bear grass and very sparse vegetation.
- D. Surface Use: Grazing.
- E. Ponds and Streams: None within one mile.
- F. Water Wells: One mile northwest of location.
- G. Residences and Buildings: One mile northwest of location.
- H. Arroyos, Canyons, Etc.: Caprock escarpment approximately one mile west of location.
- 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. Lessee's or Operator's Representative

Richard O. Dimit Business phone (303) 861-4694 Sundance Oil Company Suite 510 1776 Lincoln Street Denver, CO 80203

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 Multi-Point Surface Use & Operations Plan Cone Federal #5 Page 4

# 13. Certification (cont.)

my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by SUNDANCE OIL COMPANY and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

- june 13, 197.7

Richard O. Dimit

Vice President, Production







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HOUBS DISTRICT

Sundance Oil Company No. 5 Cone Federal Lot 2 31-7S-32E Roosevelt County, New Mexico Above Data Required on Well Sign

## CONDITIONS OF APPROVAL

- 1. Drilling operations authorized are subject to compliance with the attached General Requirements for Drilling Operations on Federal Oil and Gas Leases, dated January 1, 1977.
- 2. Notify this office (telephone (505) 393-3612) when the well is to be spudded and in sufficient time for a representative to witness all cementing operations. Attached are names and telephone numbers of Geological Survey and Bureau of Land Management personnel who are available for consultation during construction, drilling, completion, and rehabilitation activities.
- 3. Immediate notice is required of all blowouts, fires, spills, and accidents involving life-threatening injuries or loss of life.
- 4. Secure prior approval of the District Engineer for variance from the approved drilling program and before commencing plugging operations, plugback work, casing repair work, corrective cementing operations, or suspending drilling operations indefinitely.
- 5. Blowout prevention equipment is to be installed, tested, and in working order before drilling below the surface casing and shall be maintained ready for use until drilling operations are completed.
- 6. Operations must be in compliance with the provisions of the landowner agreement concerning surface disturbance and surface restoration.
- 7. All pits found to contain toxic liquids will be fenced and covered with a fine mesh netting for the protection of wildlife.