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Form 9-331 C (May 1963) UNITED STATES (Other instructions on reverse side) DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY						ions o <b>n</b>	Budget Bureau 5. LEASE DESIGNATION	No. 42-R1425.
APPLICATION	N FOR PERMIT	O DRILL, D	DEEPE	N, OR	PLUG BA	ACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
1a. TYPE OF WORK DRI		DEEPEN [	]	PL	UG BACI	< □	7. UNIT AGREEMENT N	AME
2. NAME OF OPERATOR	OIL COMPANY		SI ZO		MULTIPLI ZONE	•	8. FARM OB LEASE NAM Cone Federal 9. WELL NO. 3	4E
Suite 510, 17 4. LOCATION OF WELL (Re At surface		Denver, CO In accordance wit		03 tate requiren	aents.*)		10. FIELD AND POOL, O INDESIGNA Tomahawk Sa: 11. sec., T., B., M., OB I AND SUBVEY OR AB	Andres
1980' FNL an At proposed prod. zon San Andres 14. DISTANCE IN MILES /	e			;*	· · · · · · · · · · · · · · · · · · ·		Section 31, T 12. COUNTY OR PARISH	.7S., R. 32E
	utheast of Kenna, NED*		0 16. NO	. of acres 1	IN LEASE	то тн 4	F ACRES ASSIGNED HIS WELL	New Mexico
18. DISTANCE FROM PROPOSED LOCATION <sup>®</sup> TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1320						tary or cable tools tary Tools 22. Approx. date work will start*		
21. ELEVATIONS (Show who 4450.71 GL	ether DF, RT, GR, etc.)						On Approv	
23.	]	PROPOSED CASH	NG ANI	CEMENTI	NG PROGRA	M		
size of hole	size of casing <u> 8 5/8</u> <u> 4 1/2</u>	weight per f 28 11.60 & 10		1	з depth 750 350		QUANTITY OF CEME Econ & 100 sx 50/50 Poz	

Well will be drilled to TD and evaluated, if further evaluation is required, will log to determine if casing will be run.

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June On	ala have 2 approval
Unless Drilling Over Commenced, this drift Expires	-27
Expires	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 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 3dy.

24. signed	TITLE Chief Engineer	<u>DATE</u> September 13, 1977
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	APPROVED AS AMENDED
APPROVED BY CONDITIONS OF APPROVAL, IF ANY :		
"AFTROVAL TO FLARE GRANTED WHILE DRILLING AND TESTING."	*See Instructions On Reverse Side	SEP 9 19// BERNARD MOROZ ACTING DISTRICT ENGINEER

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n n marsh C course reading NE A CO OIL CONSERVATION COMMISS

		All distances	must be iron	a the outer boundaries of the !	Section	
Operator			L	ease Come Red	<b></b> ]	Well No.
	CE OIL COMPAI	Township		Cons-Fed	eral	3
Init Letter	31	1 .	South	32 East	Roosevelt	
Actual Footage Loca 1980	feet from the	north	line and	1980 teet fro		line
Ground Løvel Elev. 4450.7	Producing Fo	ANDRE		UNDESIGNATED		Dedicated Acreage: <u>40</u> Acres
2. If more th interest an	an one lease is id royalty).	dedicated to	the well,		y the ownership th	ereof (both as to working
dated by c Yes If answer this form i No allowat	ommunitization, No If a is "no," list the f necessary.) ble will be assign	unitization, for nswer is "yes owners and tr ned to the well	rce-pooling ,' type of ract descri until all i	g. etc? consolidation ptions which have actua  nterests have been cons	lly been consolida solidated (by comm	all owners been consoli- ted. (Use reverse side of nunitization, unitization, approved by the Commis-
	I		1			CERTIFICATION
			096		tained here	ertify that the information con- ain is true and complete to the knowledge and belief.
	+             		 •	1980,	Company	ineer Oil Company
			R.C. P.C.	G76	shown on t nates of a under my s is true ar	certify that the well location his plat was plotted from field ictual surveys made by me or iupervision, and that the same id correct to the best of my and belief.
			Contraction of the second s	MEXICO - SY		15, 1977 rofessional Engineer
		وجاوية ويستجرب ويتريني		and a second	Certificate N	

# OIL CONSERVATION COMM.

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# Attachment to Form 9-331 C Application for Permit to Drill

Sundance Oil Company, <sup>#</sup>3 Cone Federal 1980' FNL and 1980' FEL 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	1730'
Salado	1770'
Yates	2160'
San Andres	3290'
P-1	4000'
P-2	4080'
T.D.	4200'

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	1 <b>770'</b> salt
San Andres	3290' oil and gas
P-1	4000' oil and gas
P-2	4080' oil and gas

4. The proposed casing program is as follows:

Surface - New 8 5/8", 28 lb/ft., ST&C, Secondary 45 (J&L). Production - New 4<sup>1</sup>/<sub>2</sub>", 10.5 lb/ft., ST&C, K-55 and 11.6 lb/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 when 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.
1800–3800' native mud	9.0 - 9.5 lbs./gal.
3800" to TD salt gel	9.0 - 10.0 lbs./gal.

Attachment to Form 9–331 C Application for Permit to Drill Cone Federal #3 Page Two

7. The auxiliary equipment to be used is:

- (1) Kelly cocks.
- (2) Floats at the bit.
- (3) Stabbing value on rig floor with sub to fit drill pipe.

3. 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 November 20, 1977. Estimated duration of drilling operations is 10 to 12 days.

# SURFACE USE PLAN

# Sundance Oil Company: Cone Federal <sup>#</sup>3 1980' FNL and 1980' FEL 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  $15\frac{1}{2}$  miles SSE 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 1980' FNL and 1980' FEL 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<sup>1</sup>/<sub>2</sub> miles SSE 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. No road shall be required.

- B. Tumouts: None.
- C. Drainage Design: New road will have a drop of 6 inches from center line on each side.
- D. Culverts, Cuts and Fills: Culverts none. The location and pits will be constructed as shown on Exhibit C. Maximum cut will be 3' on the east and maximum fill will be 3' on the west of the location, other than leveling sand dunes.

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- E. Surfacing Material: Six inches of caliche, bladed, watered and compacted.
- F. Gates, Cattleguards, Fences: None.
- G. The proposed road is existing.

# 3. Location of Existing Wells

A. See Exhibit B.

Surface Use Plan Cone Federal #3 Page Two

# 4. Location of Existing and/or Proposed Facilities

- A. There is an existing tank battery with production facilities and lines owned by the lessee/ operator on this lease.
- B. If commercial production is established, facilities and lines will be connected to this existing battery. Pads for equipment will be made with caliche. 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. Fee minerals owned by F. P. Southard.
- 7. Methods for Handling Waste Disposal
  - A. 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 C 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 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 pit, reserve pit, trash barrel, etc. The reserve pit will be lined with plastic. The pad and pits are 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 45 days from commencement.

Surface Use Plan Cone Federal #3 Page Three

# 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: Three miles northwest of location.
- H. Arroyos, Canyons, Etc.: Caprock escarpment approximately one mile west of location.
- 1. 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) 825-7657 Sundance Oil Company (303) 841-4592 Suite 510, 1776 Lincoln St. Home phone: 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 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.

9/13/77

10. Minit

Richard O. Dimit Chief Engineer

SUNDANCE OIL CO. P.O. BOX 115 Roswell, N.M. 88201 September 19, 1977

USGS PO Box 1157 205 N. Linam Street Hobbs, NM 88240

> Re: Agreement with Surface Landowner - Sundance Oil Co. #3 Cone Fed., Sec. 31-T7S-R32E., 1980 FN & EL, Roosevelt Co., NM

Dear Sir:

This is to certify that in regard to captioned well, Sundance Oil Co. has an agreement with the surface owner in regard to the surface restoration.

If this well is completed as a producing well, the pits are to be filled and covered and the location cleaned of all trash and junk in order to leave the wellsite in an aesthetically pleasing condition. Prior to the filling of the pits any unguarded pit containing fluid will be fenced.

If the well is completed as a dry hole and plugged and abandoned, pits will be covered, and location cleaned of all trash and junk. The road will remain in place. The drilling pad will either remain or be ripped at the landowner's option.

Sincerely,

Jim A. Akin Field Superintendent Permian Basin Area

April 21, 1977

#### AGREEMENT

Sundance Oil Co. agrees to pay \$100.00 each time they cut and set a cattle guard in the fence line.

Sundance Oil Co. agrees to pay \$4.00 a rod for new roads and \$750.00 for each well site location, \$250.00 for a tank battery pad built between locations and \$1.00 a rod for pipeline not laid beside road right-of-ways. \$3.00 a rod for pipeline right-of-way that have to be built or made by a tractor or motor grader.

This agreement is payable only to Sec. 30 & 31, Twn. 7S, Rge. 32E, which is Fee surface.

Caliche to be hauled from pit in Sec. 7, Twn. 7S, Rge. 32E. Price on yardage will be paid directly from Sundance Oil Co.

William 77

William N. Morgan Representative of Sundance Oil Co.

1.

Frank P. Southard Land Owner







BLONDOUT PREVENTER & CHOKE MIMIFOID API 3M- SHID-RdS



# U. S. Geological Survey

#### HOBBS DISTRICT

Sundance Oil Company No. 3 Cone Federal SW\2NE\2 sec. 31-7S-32E Lea County, N. M.

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. 8-5/8" surface casing should be set in the Rustler Anhydrite formation and cement circulated to the surface. If surface casing is set at a lesser depth, the 4½" casing must be cemented from the casing shoe to the surface or cemented to the surface through a stage tool set at least 50 feet below the top of the Rustler, after cementing around the shoe with sufficient cement to fill to the base of the salt section.
- 8. For the protection of livestock and wildlife all pits containing toxic liquids will be fenced and covered with a fine mesh netting (i.e., Hardware Cloth) with openings being 1/2 inch or less.