ATE* SUBMIT IN TRI

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES MENT OF THE INTERIOR

	3. LEASE DESIGNATION AND SERIAL NO.						
	NM-14154						
APPLICATION	N FOR PERMIT	GICAL SURVE		N, OR PLUG E	3ACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
1a TYPE OF WORK	ILL 🖄	DEEPEN		PLUG BA		7. UNIT AGREEMENT N	AME
	AS OTHER		SI!	NGLE MULTIN	STE	8. FARM OR LEASE NAM	_
2. NAME OF OPERATOR SUNDANCE	Chambers Federal No.	erai					
3. ADDRESS OF OPERATOR	OIL COMMITTEE					2	
Suite 510, 1776 Lincoln St., Denver, CO 80203 4. LOCATION OF WELL (Report location clearly and in accordance with any State regularements.*)						Tonianawk San Andres	
At surface 660 FSL and		Un i t O	,	ELECTION A. I		11. SEC., T., R., M., OR AND SURVEY OR AR	BLK.
At proposed prod. zo:						Section 30, T	. 7S., R. 32E
San Andres 14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POS	T OFFICE	•		12. COUNTY OR PARISH	
15½ miles So	utheast of Kenna,	New Mexic	0			Roosevelt	New Mexico
15. DISTANCE FROM PROPUSED* LOCATION TO NEAREST		16. N		OF ACRES IN LEASE	тот	of acres assigned this well 40	
PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)		060	320 19. PROPOSED DEPTH		20. ROTARY OR CABLE TOOLS		
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		1320	4350		Rotary Tools 1 22. APPROX. DATE WORK WILL START*		
21. ELEVATIONS (Show w	nether DF, RT, GR, etc.)						i
4426 .7 ' GL	· · · · · · · · · · · · · · · · · · ·					On approval	
23.		PROPOSED CASI	NG ANI	CEMENTING PROGE	RAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	оот	SETTING DEPTH		QUANTITY OF CEME	
11	8 5/8	28		<u>1750</u>		< Econ & 100 sx	Class C
7 7/8	4 1/2	11,60 & 1	0.5	4350	_ <u>300 s></u>	< 50/50 Poz	
							•
	all (mr		• • • •	the constant of	::	مع معاللت المعامد	datarmina
Well will be	drilled to TD and	d evaluated,	if fur	ther evaluation	is requir	ea, will log lo	ac reminie

if casing will be run.



SEE ATTACHED FOR CONDITIONS OF APPROVAL

N ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If pone. If proposal is to duill or deepen directional reventer program, if any	proposal is to deepen or plug back, give data on plly, give pertinent data on subsurface locations a	oresent productive zone and proposed new and measured and true vertical depths. Gi	productive ive blowout
SIGNED RICHARD DIMIT	Chief Engineer	DATE September	· 12, 197
(This space for Federal or State office use)			
PERMIT NO.	APPROVAL DATE	APPROVED	
APPROVED BY	TITLE	AS AMENDED	
CONDITIONS OF APPROVAL, IF ANY:		SEP 2 9 1977	
"APPROVAL TO FLARE GRANTED WHILE DRILLING AND TESTING."	*See Instructions On Reverse Side	BERNARD MOROZ ACTING DISTRICT ENGINEER	

NE CO OIL CONSERVATION COMMISSI WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-132 Superseder C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section Weil h j. erati Chamber-Federal SUNDANCE OIL COMPANY Homge Roosevelt 7 South 32 East ution of Well: east 660 in and give UNDESIGNATED 4426.7 1 Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and rovalty) 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling.etc? Yes If answer is "ves!" type of consolidation _ If answer is "no!" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the Richard O. Dimit Chief Engineer Sundance Oil Company September 13, 1977 shown on this plat was plotted from field true and correct to the best of my Date Jurveyed Aug. 13, 1977

2000

1500

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

Sundance Cil Company, #2 Chambers Federal 660' FSL and 1930' FEL of Section 30, 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	1 <i>7</i> 70'
Salado	18001
Yates	2200'
San Andres	3340'
P-1	4050'
P-2	41301
T.D.	4260'

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

150' water
1800' salt
3340' oil and gas
4050' oil and gas
4130' oil and gas

4. The proposed casing program is as follows:

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Surface - New 3 5/8", 28 lb/ft., ST&C, Secondary 45 (J&L).
Production - New 4½", 10.5 lb/ft., ST&C, K-55 and 11.6 lb/ft.,
ST&C, JCW-36 (J&L).
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- 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:

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0-1800' spud mud 8.5 - 9.0 lbs./gal.
1300-3900' native mud 9.0 - 9.5 lbs./gal.
3900' to TD salt gel 9.0 - 10.0 lbs./gal.
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- 7. The auxiliary equipment to be used is:
 - (1) Kelly cocks.
 - (2) Floats at the bit.
 - (3) Stabbing valve on rig floor with sub to fit drill pipe.

Attachment to Form 9–331 C Application for Permit to Drill Chambers Federal #2 Page Two

- 8. It is proposed to run 2" and 5" GR, CNL, FDC, DLL/MLL Logs from TD to 1800'.
- 9. No abnormal pressures to temperatures are expected to be encountered in this well.
- 10. The anticipated starting date for this well is November 10, 1977. Estimated duration of drilling operations is 10 to 12 days.

:

SURFACE USE PLAN

Sundance Oil Company: Chambers Federal #2 660' FSL and 1980' FEL of Section 30, 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 660' FSL and 1980' FEL of Section 30, 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 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. A road shall be required. It will be approximately 1500' long running due west past the #1 Chambers Federal.
- B. Turnouts: 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 feet on the east and maximum fill will be 3 feet on the west of the location, other than leveling sand dunes.
- 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").

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 the existing tank battery. Pads for equipment will be made with caliche. Facilities are 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 and 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 applications 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.

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 of Operator's Representative

Richard O. Dimit Sundance Oil Company Suite 510, 1776 Lincoln Street Denver, Colorado 80203

Business phone:

(303) 825-7657

Home phone:

(303) 841-4592

Surface Use Plan Chambers Federal #2 Page Four

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site 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.

Date

9/13/77

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. #2 Chambers
Federal, Sec.30-T7S-R32E,
660'FS & 1980'FEL
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, 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

JAA:ss

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.

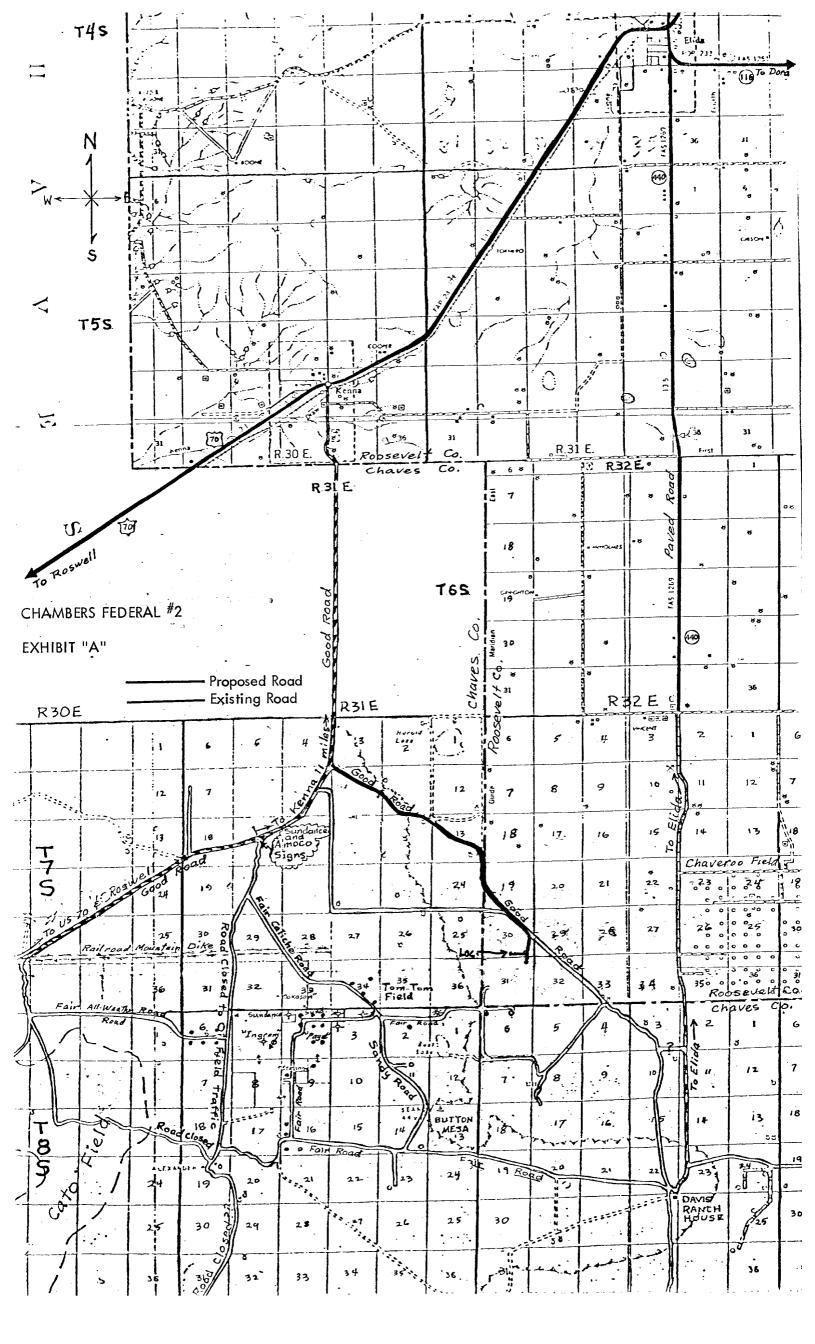
William N. Morgan

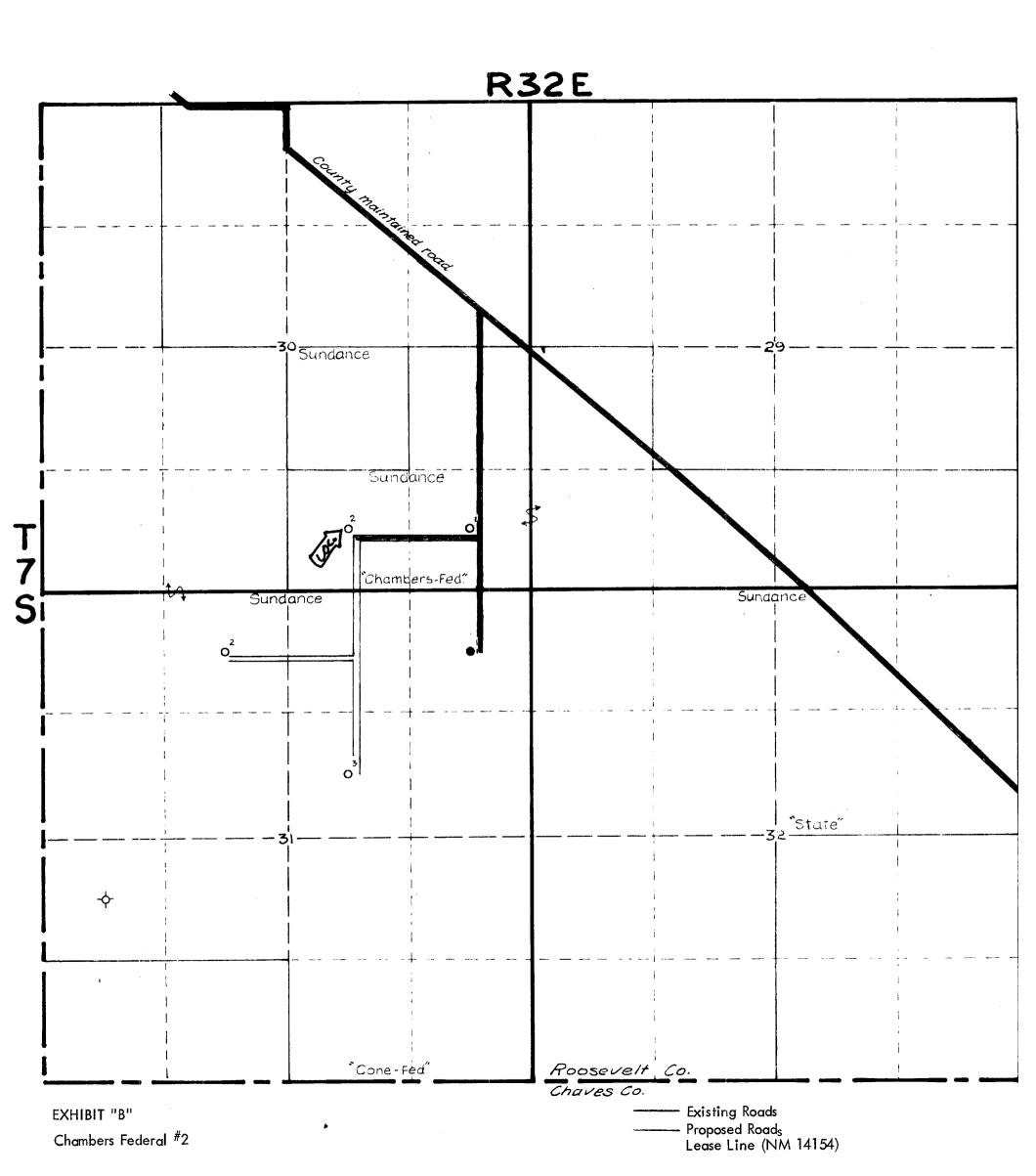
Representative of

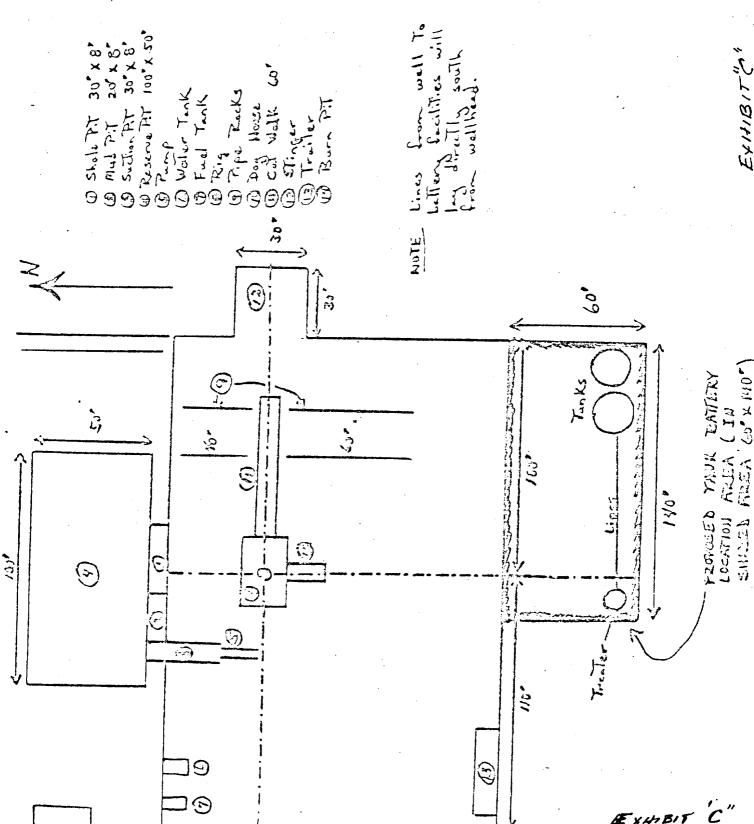
Sundance Oil Co.

Frank P. Southard

Land Owner

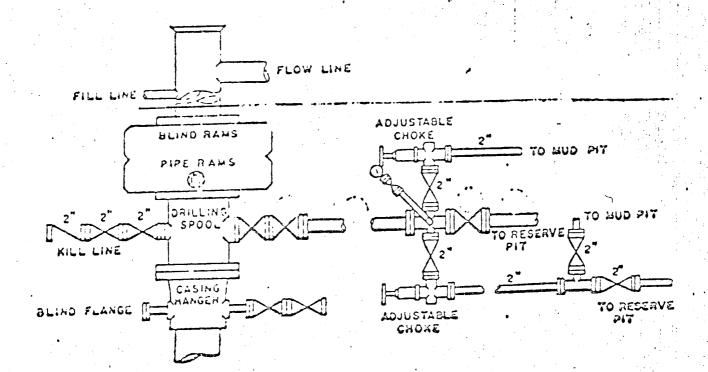






EXHIBIT"

BLONOUT PREVENTER of CHOKE MIMITOID API 3M-8410-RdS



U. S. Geological Survey

HOBBS DISTRICT

Sundance Oil Company No. 2 Chambers Federal SW4SE4 sec. 30-7S-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.