

# United States Department of the Interior

#### GEOLOGICAL SURVEY

P. O. Drawer U Artesia, New Mexico 88210

September 18, 1979

Sundance Oil Company Suite 510, 1776 Lincoln Street Denver, Colorado 80203

Gentlemen:

SUNDANCE OIL COMPANY
No. 11 Ingram Federal
330 FNL 2310 FEL Sec. 5 T.8S R.31E
Chaves County Lease No. NM-15678

Above Data Required on Well Sign

Your APPLICATION FOR PERMIT TO DRILL the above-described well to a depth of 4100 feet to test the San Andres formation is hereby approved subject to compliance with the OIL AND GAS OPERATING REGULATIONS (30 CFR 221) and the following conditions:

- Drilling operations authorized are subject to compliance with the GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL LEASES, dated July 1, 1978.
- 2. Prior to commencing construction of road, pad, or other associated developments, operator will provide the dirt contractor with a copy of the SURFACE USE PLAN and this approval including the GENERAL REQUIREMENTS.
- 3. Submit a Daily Report of Operations from spud date until the Well Completion Report (form 9-330) is filed. The progress report should be not less than  $8" \times 5"$  in size and each page should identify the well.
- 4. Please have anyone contacting the Survey in regard to this well to identify the well with all of the information required above for the well sign.

Sincerely yours,

CONTRACT CONCE H. STEWART

George H. Stewart Acting District Engineer



#### SUBMIT IN TRIPLICATE\*

Form approved. o. 42-R1425.

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DEPARTMENT OF THE INTERIOR		30-005-20
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	GEOLO	OGICAL SURV	/FY			3. LEASE DESIGNATION AND SERIAL NO.
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK			NM-15678 6. IF INDIAN, ALLOTTEE OR TRIBE NAME			
1a. TYPE OF WORK	IN FOR PERMIT	TO DRILL,	DEEP	EN, OR PLUG	BACK_	- C. IN INDIAN, ALLOTTEE OR TRIBE NAME
	ILL X	DEEPEN		PLUG BA	CK 🗀	7. UNIT AGREEMENT NAME
b. TYPE OF WELL	AS [		-		_ <del>_</del>	2 1
	VELL OTHER			SINGLE MULTIN	PLE _	8. FARM OR LEASE NAME
	COMP A NO					Ingram Federal
SUNDANCE OIL (	CUMPANY			<del></del>		9. WELL NO.
Suite 510 17	76 Lincoln Stro	at Danyan	CO	90202		11
4. LOCATION OF WELL (R	76 Lincoln Stre	in accordance wi	th any	State requirements.*)		10. FIELD AND POOL, OR WILDCAT
	2310' FEL, Unit		•	,		Tom-Tom, San Andres 11. SEC., T., B., M., OB BLE.
At proposed prod. zor		D				AND SURVEY OR AREA
Same					,	Section 5, T.8S., R.31E
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POS	T OFFI	E*		12. COUNTY OR PARISH   13. STATE
15 miles south	n of Kenna					Chaves New Mexico
15. DISTANCE FROM PROPORTION TO NEAREST	T		16. N	O. OF ACRES IN LEASE	17. No. (	DF ACRES ASSIGNED HIS WELL
PROPERTY OR LEASE I	g. unit line, if any)	330	1	401.68	40	MIS WELL
18. DISTANCE FROM PROP TO NEAREST WELL, D	RILLING COMPLETED		1	ROPOSED DEPTH	20. пота	RY OR CABLE TOOLS
OR APPLIED FOR, ON TH	IS LEASE, FT.	1320	4	100	Rota	ary
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START*
4252.9' GL						October 1, 1979
<del>-</del>	I	PROPOSED CASI	NG AN	D CEMENTING PROGRA	<b>AM</b>	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	00Т	SETTING DEPTH		QUANTITY OF CEMENT
12 1/4"	8 5/8"	24		1350'	550 s	SX
7 7/8"	4 1/2"	10.5		4100'	300 s	SX
	•	•		1	· .	
The well will	he drilled lo	aged and ev	1	tod by dudin	4	
of the San And	lres Formation.	yyeu and ev If warran	tod	completion wil	em test	ts for full evaluation
formation.	es Tormacron.	ii warian	teu,	combierion Mil	i be ma	ide in the same
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						医乳腺 医鼻孔 医鼻上
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					:	요즘 회사의 취실을 가득했습니다.
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						원 뉴스 트립 경험 시험문물
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N AROUT CDACE DESCRIPTION	Proposite persons					
		roposal is to deep lly, give pertinent	en or p data o	lug back, give data on pr n subsurface locations on	esent produ	active zone and proposed new productive and true vertical depths. Give blowout
reventer program, if any	·				~ measured	. Give blowout
" Indhe	11/1//					
SIGNED PACHAYO	111 1/1/WWW	TIT:	LE Vic	e President, P	<u>roducti</u>	on August 17, 1979
(This space for Feder	al or State office use)		<del></del>			
PERMIT NO.				APPROVAL DATE		* T &
APPROVED BY						
CONDITIONS OF APPROVA	L, IF ANY:	TITI	LE			DATE

# NEW (ICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Superseden C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section

SUNDA	ANCE OIL CO	MPANY	INGRAM FE	D.	Well 1/6.
Unit Letter	Section 5	Township 8 SOUTH	Range 31 EAST	County	
Actual Footage Loc	ration of Well;				
330		ORTH line and		et from the EAST	line
Ground Level Elev.	Producting For		Poc!		Dedicated Acreage:
4252.9	I San Andı		Tom-Tom	<del></del>	40Acres
<ol> <li>Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.</li> <li>If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).</li> <li>If more than one lease of different ownership is dedicated to the well, have the interests of all owners been coasolidated by communitization, unitization, force-pooling, etc?</li> <li>Yes No If answer is "yes," type of consolidation</li> <li>If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)</li> <li>No allowable will be assigned to the well until all interests have been consolidated (by communitization unitization unitization)</li> </ol>					
sion.	ing, or otherwise)		l unit, eliminating suc	h interests, has beer	n approved by the Commis-
		330,	1		CERTIFICATION
	+		+2310 <sup>'</sup>	bestof n	certify that the information con- erein is true and complete to the f and knowledge and to lief.  While I will to the f  O. Dimit
			l i	Position	esident, Production
	 		! !	Company Sundance	e Oil Company
			,	August 1	l7 <b>,</b> 1979
				shown on notes of under my is true o	certify that the well location this plat was plotted from field actual surveys made by me or supervision, and that the same and correct to the best of my e and belief.
				<del> </del>	JLY 31ST, 1979  Frotessional Engineer 1 Surveyor
0 330 660 1	90 1320 1680 1980	2310 2840 2000	1500 1000 50	0 / 0 1 /	Ropold I Fidena 3030

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

Sundance Oil Company: Ingram Federal #11 330' FNL and 2310' FEL of Section 5, T.8S., R.31E. Chaves 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	1540'
Salado	1600'
Yates	2030'
San Andres	3200'
P-1	3900 <b>'</b>
P-2	4000'
TD	4100'

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

Ogalala	150'	wate	≘r	
Salado	1600'	sali	t	
San Andres	3200'	oil	and	gas
P-1	3900'			
P-2	4000'			

4. The proposed casing program is as follows:

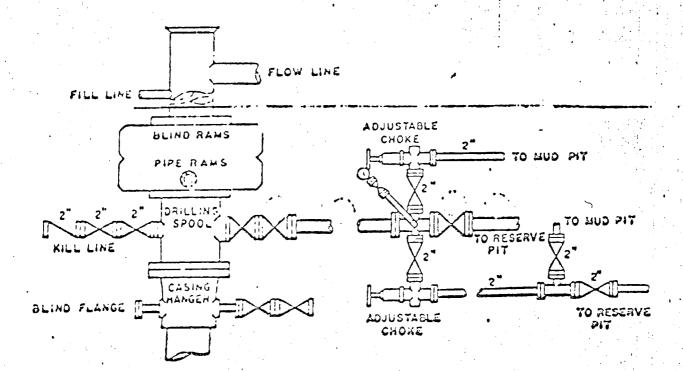
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Surface: New 8 5/8", 24#/ft., ST&C, Secondary 45 (J&L). Production: New 4\frac{1}{2}", 10.5#/ft., ST&C, K-55.
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- 5. A sketch of an API Series 900 Blowout Preventer is attached. Pipe rams and blinds will be checked to 1000 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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0-1350' spud mud 8.5 - 9.0 \#/gal. 1350-3800' native mud 9.0 - 9.5 \#/gal. 3800-T.D. salt gel 9.0 - 10.0 \#/gal.
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- 7. The auxiliary equipment to be used is:
  - a. Kelly cocks.
  - b. Floats at the bit.
  - c. 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 1350'.
- 9. No abnormal pressures or temperatures are expected to be encountered in this well.
- 10. The anticipated starting date for this well is October 1, 1979. Estimated duration of drilling operations is 10 to 12 days.

# BLONDOUT PREVENTER of CHOKE MIMITOID API 3M-8410-RdS



#### MULTI-POINT SURFACE USE & OPERATIONS PLAN

Sundance Oil Company: Ingram Federal #11 330' FNL and 2310' FEL of Section 5, T.8S., R.31E. Chaves County, New Mexico

This plan is to accompany "Application for Permit to Drill" the subject well which is located approximately 15 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 330' FNL and 2310' FEL of Section 5, T.8S., R.31E., Chaves 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 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 1320' long and 12' wide. This new road is labeled and color coded Red on Exhibits "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 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 will be 3' on the east and maximum fill will be 3' on the west of the location, other than leveling sand dunes.
- G. Gates, Cattleguards, Fences: None.

## Location of Existing Wells

- A. See Exhibit "B".
- 4. Location of Existing and/or Proposed Facilities
  - A. There is an existing tank battery and flow line on this lease owned by Lessee/Operator. The battery is located at the SW NW of Section 5.

- B. If commercial production is established, flow lines will be installed from the well to the battery and no additional surface disturbance will occur. 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 of Construction Materials

A. Caliche will be obtained from a pit in NW NW Section 4, T.8S., R.31E.

# 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 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.
- 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 45 days from commencement.

Multi-Point Surface Use & Operations Plan Ingram Federal #11 Page 3

#### 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  $3\frac{1}{2}$  miles east 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 Operators Representative

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

Business Phone (303) 861-4694

## 13. <u>Certification</u>

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

Vice President, Production



# SUNDANCE DIL COMPANY

August 17, 1979

U.S.G.S. P.O. Drawer U Artesia, NM 88210

RE: Agreement with Surface Landowner and Sundance Oil Company Ingram Federal #11
NW NE Section 5, T.8S., R.31E. Chaves County, New Mexico

#### Gentlemen:

This is to certify that in regard to captioned well, Sundance Oil Company 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 well site 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.

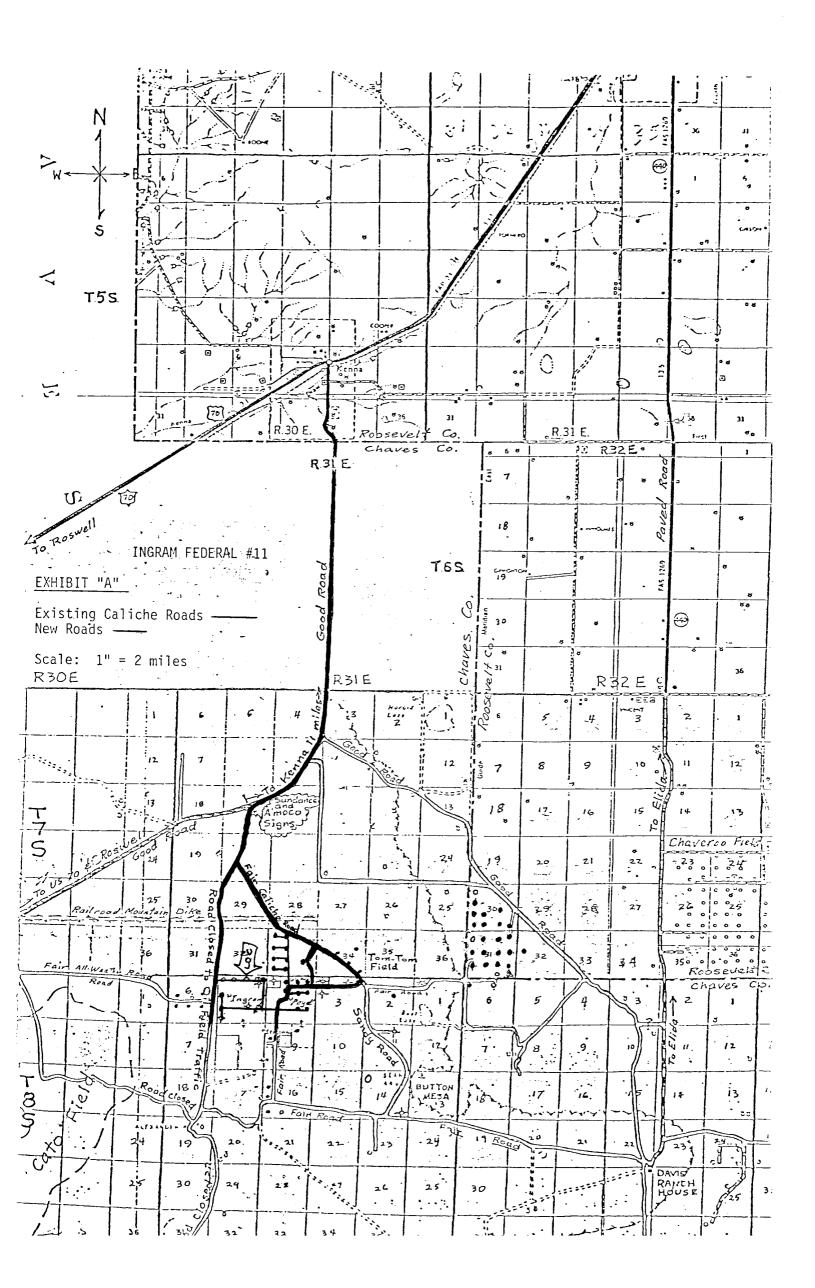
Yours truly,

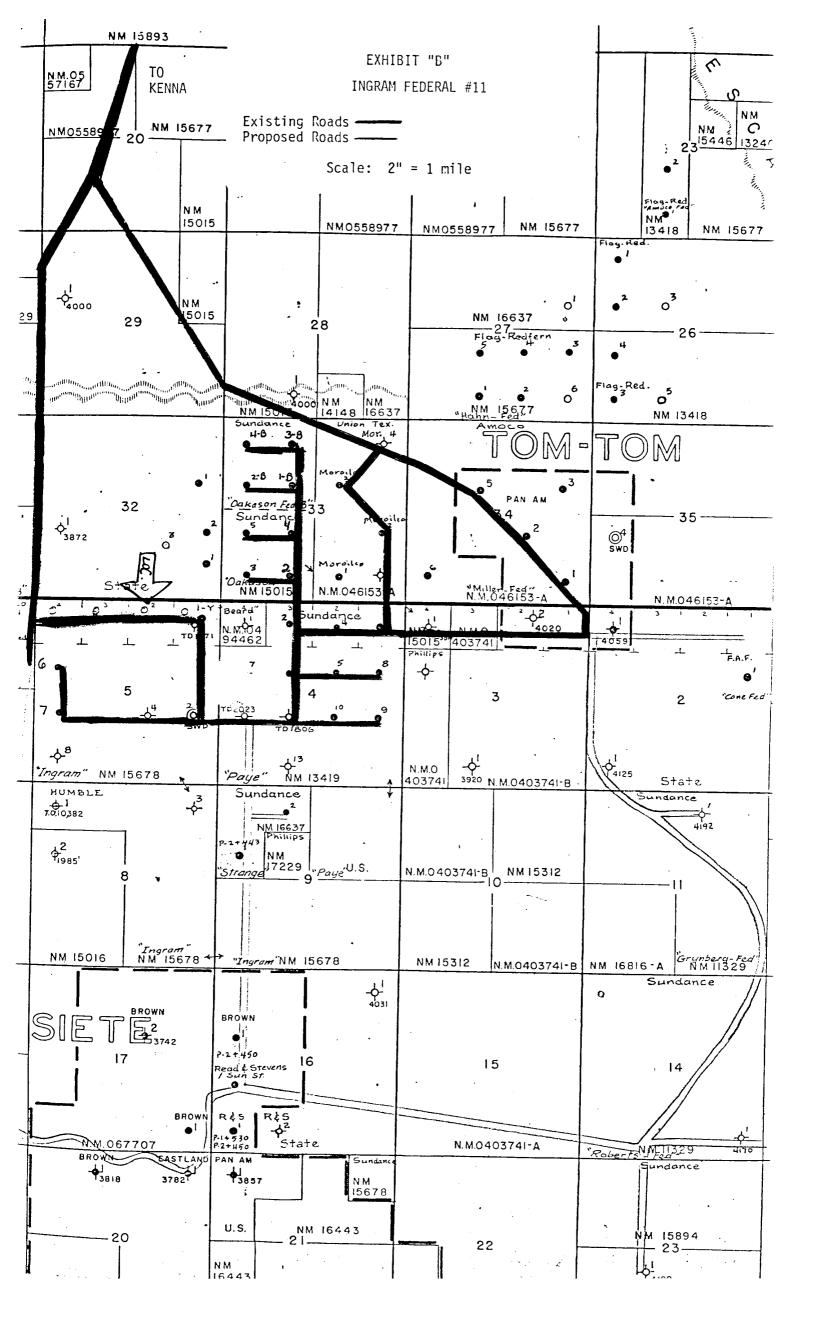
Richard O. Dimit

Vice President, Production

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A CONTRACTOR OF THE CONTRACTOR



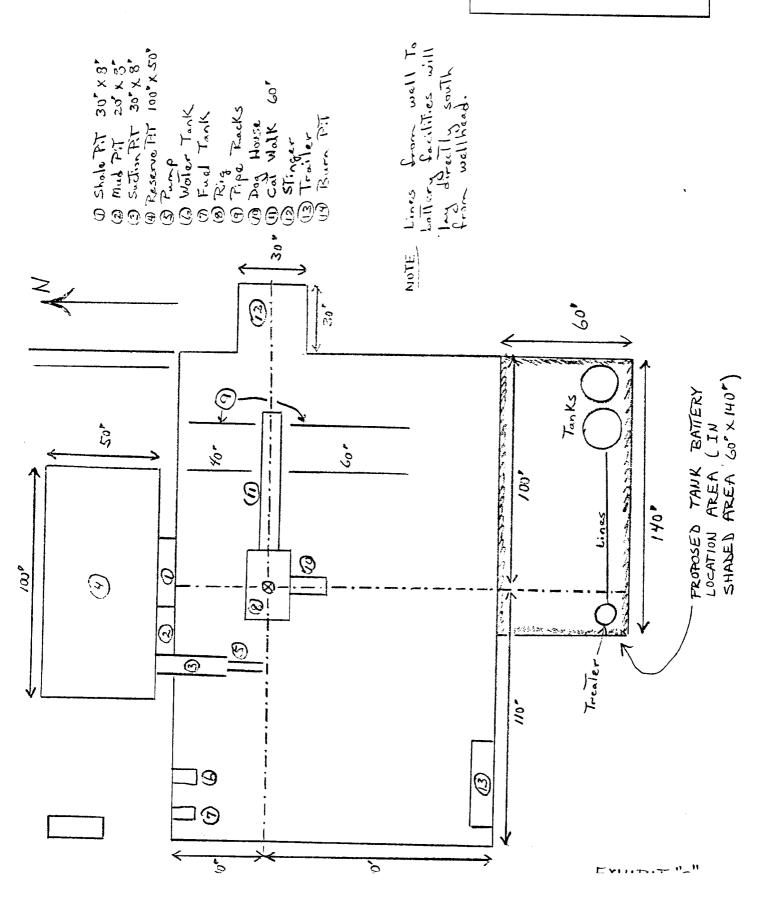


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SEP 2 4 (0)

O.C.D. HOBBS OFFICE

LOCATION, MUD PIT AND PROPOSED TANK BATTERY AREA SPECIFICATIONS





SEP 24 1070 O.C.D. HOBBS, OFFICE