(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

(May 1963)	UNI	ITED STATES IT OF THE INTER	,,,	reverse side)		OFS-3	
		OGICAL SURVEY				0-78213	
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b. TIPE OF WELL			INGLE	MULTIPLE ZONE	8. FA	RM OR LEASE NAME	
	WELL X OTHER				t t	ederal-28 A	
Ladd Petrol	eum Corporatio	<u>n</u>			1	2E	
3. ADDRESS OF OPERATOR	oz i Distaliana	Danver (0. 80202	2		1	TELD AND POOL, OR	WILDCAT
A LOCATION OF WELL (Report incation civation	Defiver, Co octor	State requireme	nts.*)	11 6	asin Dakota BEC., T., B., M., OR BL AND SURVEY OR ARE	.K.
At proposed prod. ze			4			ec 26 T30N	
14 DISTANCE IN MILES	AND DIRECTION FROM	NEAREST TOWN OR POST OFFI	CE.		l	an Juan	New Mexico
12	.3 miles North	of Farmington, N	New Mexico	TRASE 1	7. NO. OF ACE	ES ASSIGNED	TICK TICK TO
15. DISTANCE FROM PRO	POSED*	2	,480		TO THIS, W	ELL	
	rlg. unit line, it any	890'	PROPOSED DEPTH		20. ROTARY OR	CABLE TOOLS	
TO NEAREST WELL. OR APPLIED FOR, ON		2,460+' 6	,550'		Rotary	. APPROX. DATE WOL	AK WILL START
21, ELEVATIONS (Show	whether DF, RT, GR, etc	.) 765' GR				November 1,	
		PROPOSED CASING A	ND CEMENTIN	G PROGRAM			
23.		WEIGHT PER FOOT	SETTING			QUANTITY OF CEMEN	T
SIZE OF HOLE	9-5/8" ne		250.	2	25sx Cla	ss "B" w/add	<u>litives</u>
7-7/8"	4½" ne	w 10.5#K 55 ST8			st stage	-230s x 65-35	poz w/addi oz w/additiv
				b	nd ctame	-150sx 65-35	b poz w/aggi
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1) Drill :	12½" hole and s	et 9-5/8" surfac	e casing i	to 250' w i 7-7/8"	nth good hole to	6.550'.	
2) Log BOH	checks in dai	and run 12" Ca	sing if p	roduct <u>ive</u>	·		-
3) Run tes	is. as needed,	and perforate an	d stimula	te as nee	REC	EIVED	1
	TS ATTACHED:						
"A"	Incation &	Elevation Plat	~oaram		OCT	0 3 1979	
"B"	The Diamon	int Compliance Pr t Preventer Diagr	aiii		u. S. GEOL	OGICAL SURVEY	
"C" "D"	The Multi-	Point Requirement	CS TOT ALL).D.	FARMIN	GTON, N. M.	_]
"E"	Access Roa	d Map to Location	i i				
"F"	Radius Map	lavout. Cut-till	Cross-Sec	ction & P	noductio	n Facilities	S
"G" "H"	Drill Rig	of Field Layout, Cut-Fill Layout Program Layout Program Layout	gazi	2 declier	Sent product	ive zone and propor	sed new productive
IN ABOVE SPACE DES	CRIBE PROPOSED PROCES	l Proposal is to deepen ectionally, give pertinent da	or preg back, g ita on subsurfac	ce locations an	d measured a	nd true vertical dep	ths. Give blowout
preventer program,	if any.						
24.	il K Dill	CTL TITLE	Dr	illing Er	<u>ngineer</u>	_ DATESe	ptember 28,
SIGNED ACCOUNT	Federal or State office			±ুণ্ট বিবাহন কে কে কে বিবাহ			
(This space for	A CHARLES OF LIGHT COMM		APPROVAL	DATE			
PERMIT NO							
APPROVED BY		TITLE	<u></u>			DATE	
CONDITIONS OF A	PPROVAL, IF ANY I	1					

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*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Hom C-102 Supervedey C-12 Effective 1-1-65 (HIBIT "A"

Location & Elevation Plat All distances must be from the outer boundaries of the Section rerator 30 North Actual Fortage Location of Well: feet from the Dedicated A Producting Formation 320 Ground Level Elev. Dakota Basin Field Dakota 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 royalty). 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? If answer is "yes," type of consolidation If answer is "no." list the owners and tract descriptions which have actually been consolidated. (I'se 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 Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. 730 LOC. Position Vice President Company Powers Elevation September 25, 1979 TEO LAND and or I, but Buryeyer

1320

EXHIBIT "B"

TEN-POINT COMPLIANCE PROGRAM

OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331C Ladd Petroleum Croporation #2E Federal 26 NE NW Sec. 26 T30N R13W 890' FNL & 1730' FWL San Juan County, New Mexico

1. The Geologic Surface Formation

The surface formation is of the Tertiary Period.

2. Estimated Tops of Important Geologic Markers

Ojo Alamo	326'
Pictured Cliffs	1,726'
Lewis	1,924'
Gallup	5,444'
Greenhorn	6,179'
Graneros	6,249'
Dakota	6,300'
Total Depth	6,550'

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

	_	
Ojo Alamo Pictured Cliffs Dakota	326' 1,726' 6,300'	Possibly water Possibly gas gas
Pictured Cliffs		

4. The Proposed Casing Program

The Pr	oposed Last	ing Program	<u></u>		NEW
HOLE SIZE 12 1/4" 7 7/8"	INTERVAL 0-250' 0-6550'	SECTION LENGTH 250' 6550'	SIZE (OD) 9 5/8" 4 1/2"	WEIGHT, GRADE & JOINT 36# K-55 ST&C 10.5# K-55 ST&C	OR USED New New

Cement Program

(a) Surface Casing: Cement with 225 sacks Class "B" with $\frac{1}{4}$ #/sack flocele and 2% CaCl $_2$.

(b) Production Casing:

 $\frac{1\text{st Stage}}{\frac{1}{4}\#/\text{sack flocele}} - \frac{\text{Cement with 230 sacks of 65-35 Pozmix with 12\% gel and}}{\frac{1}{4}\#/\text{sack flocele and 1\% Halad 9}}.$

2nd Stage - Cement with 150 sacks 65-35 Pozmix, 12% gel, $\frac{1}{4}$ /sack flocele, and 320 sacks 50-50 pozmix with 2% gel, $\frac{1}{4}$ /sack flocele and .6% Halad 9.

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 and annular preventer 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 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	TYPE	WEIGHT #/gal.	VISCOSITY-sec./qt.	FLUID LOSS cc
0-250'	Gel, lime Water flocculence		45± 45±	
250'-4500' 4500'-6550'	Gel, water	8.8-9.0	as required	10

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.
- (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) DST's are not anticipated.
- (b) The logging program will consist of an IES and a GR-Neutron Density 2000' over selected intervals. Other logs will be determined at well site to best evaluate any shows.
- (c) No coring is anticipated.
- (d) Stimulation procedures will consist of sand-water fracturing of the Dakota formation. See $\underline{\sf EXHIBIT}$ "K" for Fracturing Layout.

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 2000 psi maximum.

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 November 1, 1979, or as soon as possible after examination and approval of drilling requirements. Operations should be completed within two weeks after spudding the well and drilling to casing point.

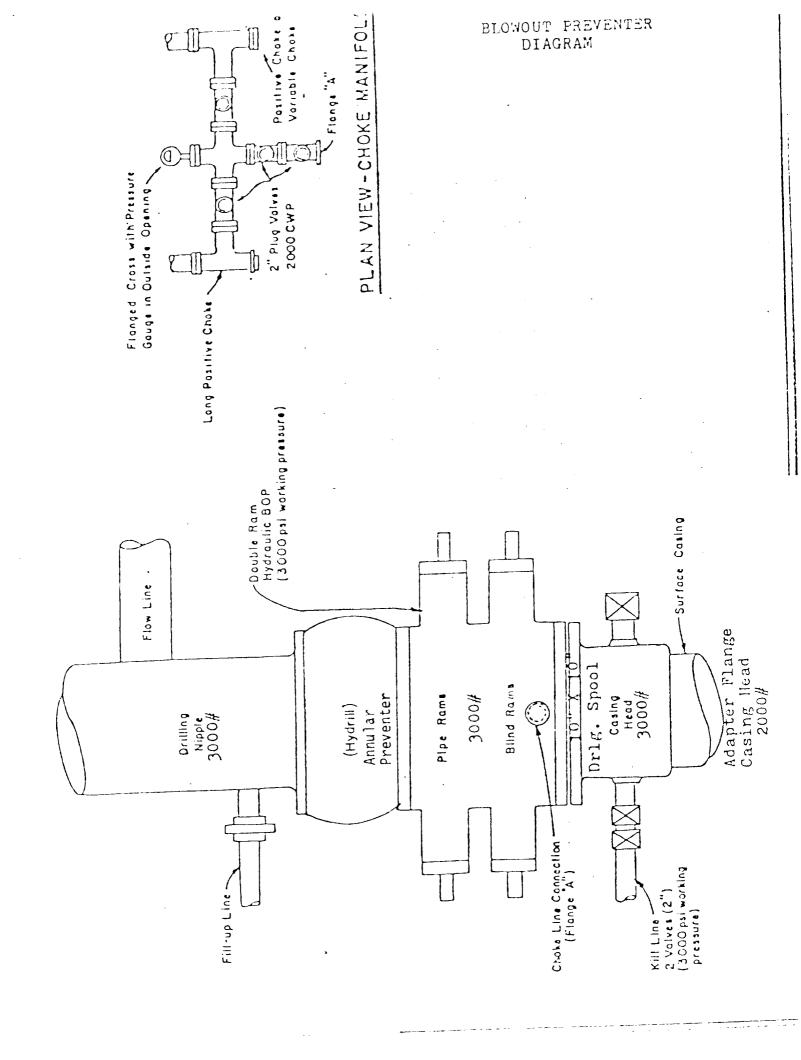


EXHIBIT "D"

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

Attached to Form 9-331C Ladd Petroleum Corporation #2E Federal 26 NE NW Sec. 26 T30N R13W 890' FNL & 1730' FWL San Juan County, New Mexico

Existing Roads

- A. The proposed well site and elevation plat is shown as $\underbrace{\text{EXHIBIT "A"}}.$
- B. The distance from Mesa Verde School in Farmington, New Mexico is 2.3 miles. Proceed North (then North & West) from Mesa Verde School, on existing oil field road, a distance of 1.8 miles, to oil field crossroads. Continue on road across intersection and proceed 0.2 mile, thence right (Northwest) on existing trail a distance of 0.3 mile to location, as shown on EXHIBIT "E".
- C. All roads to location are color-coded on $\underline{\sf EXHIBIT}$ "E". No new access road will be required.
- D. N/A
- E. This is a development well. All existing roads within a one-mile radius are shown on $\underline{\sf EXHIBIT}$ "E".
- F. The existing roads need no improvement. Maintenance will be performed as required.

Planned Access Roads

No new access road will be required.

- (1) No new access road will be required.
- (2) N/A
- (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) No new access road will be required.

Location of Existing Wells

For all existing wells within a one mile radius of development well, see $\underline{\sf EXHIBIT}$ "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 six 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

- 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 290 feet long and 100 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.

Location and Type of Water Supply

- A. Water will be obtained from a commercial water hauler in Farmington, New Mexico.
- 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 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 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 <a href="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.

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 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, 1980, unless requested otherwise.

11. Other Information

- (1) The soil is sandy. No distinguishing geological features are present. The area is covered with sagebrush, scrub cedar, pinon pine, Mormon tea and native grass. There are livestock, rabbits and other indigenous animals in the area. The topography is hilly and slopes to the West-Southwest.
- (2) The primary surface use is for grazing. The surface is owned by the U.S. Government.
- (3) The closest live water is the Animas River at Farmington, Southeast of location, as shown on EXHIBIT "E".

The closest occupied dwelling is a ranch house 1.0 mile South-Southwest of the proposed site, as shown on $\underline{\sf EXHIBIT}$ "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 November 1, 1979. It is anticipated that the casing point will be reached within 30 days after commencement of drilling.

12. Lessee's or Operator's Representative

George Lapaseotes
Agent Consultant for
Ladd Petroleum Corporation
600 South Cherry Street
Suite 1201
Denver, Colorado 80222
Phone (303) 321-2217

David K. Dillon
Drilling Engineer
Ladd Petroleum Corporation
830 Denver Club Building
Denver, Colorado 80202
Phone (303) 292-3080

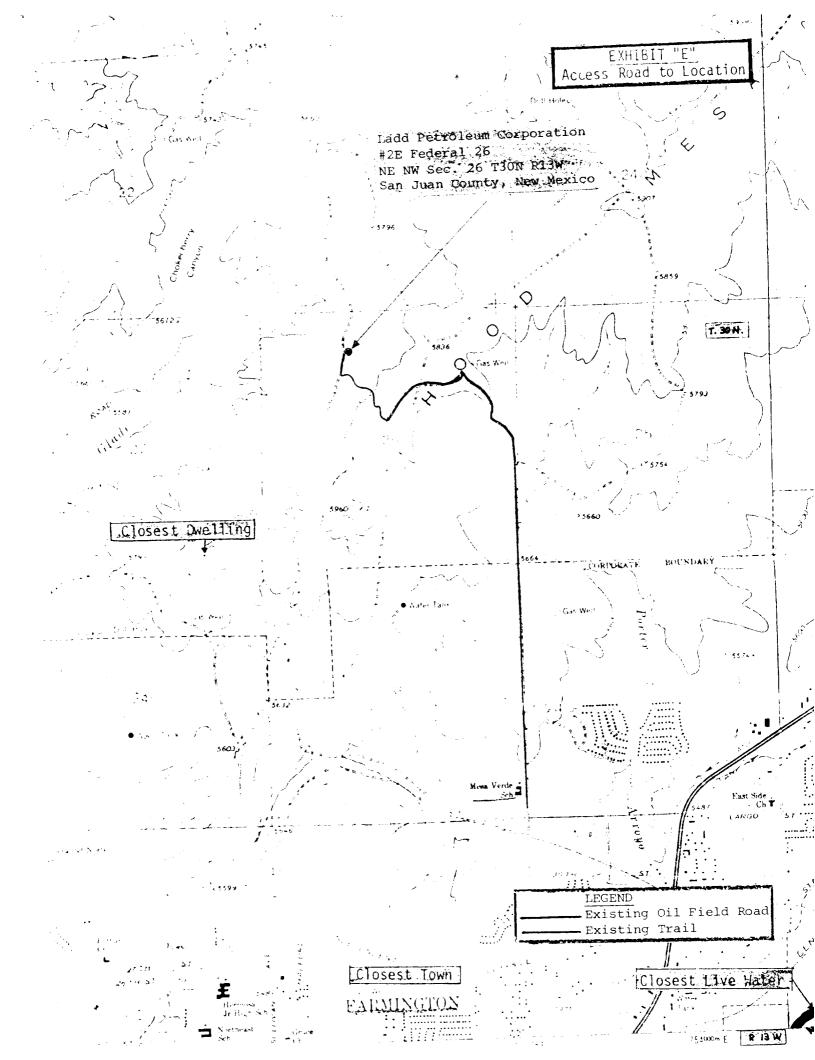
13. Certification

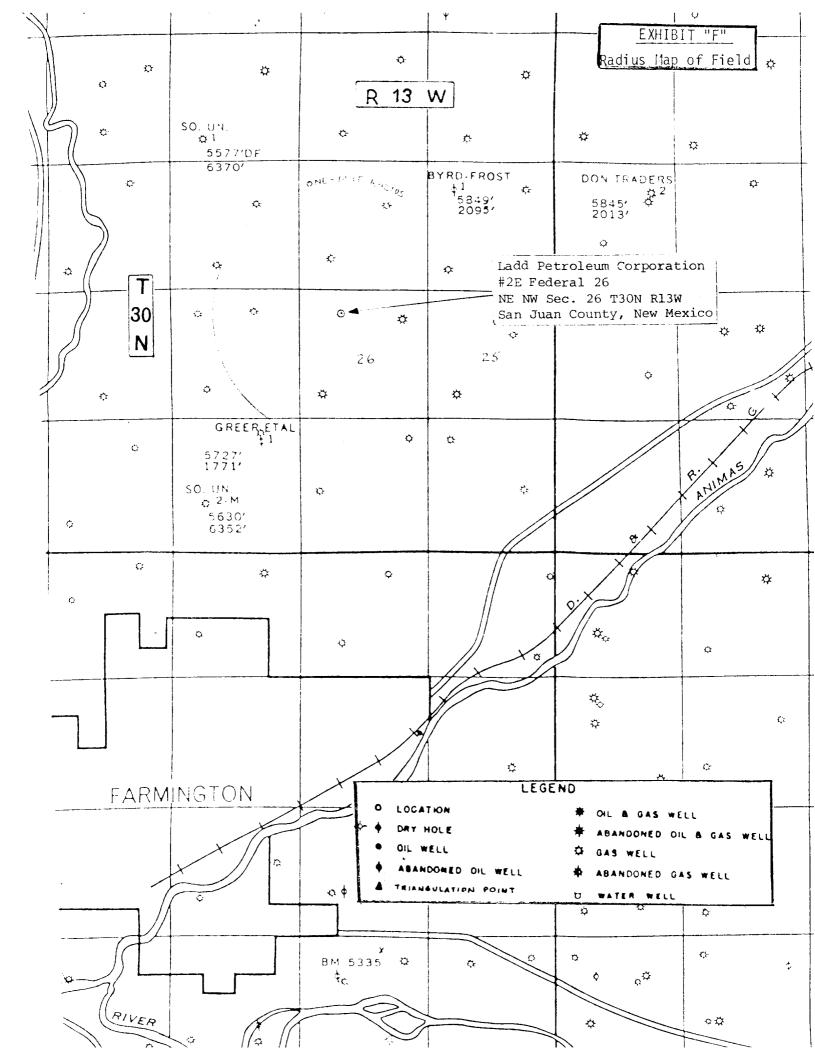
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Ladd Petroleum Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

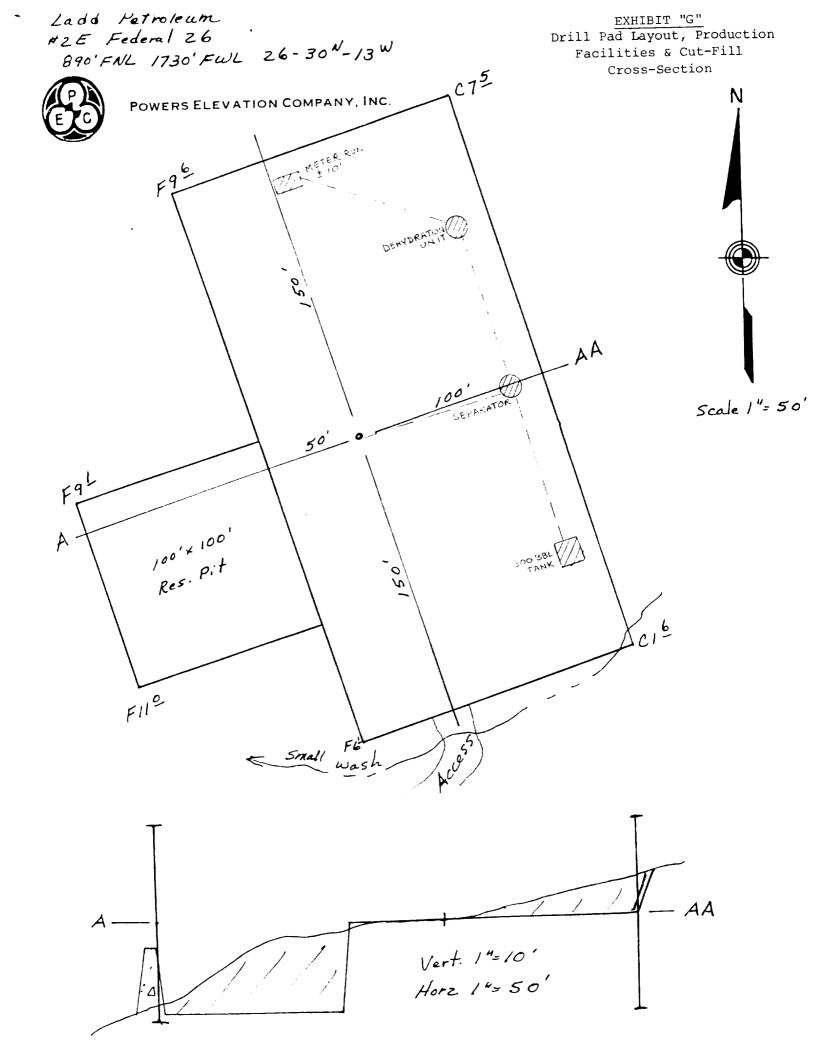
10-2-79 Date

George/Lapaséotes Agent Consultant for

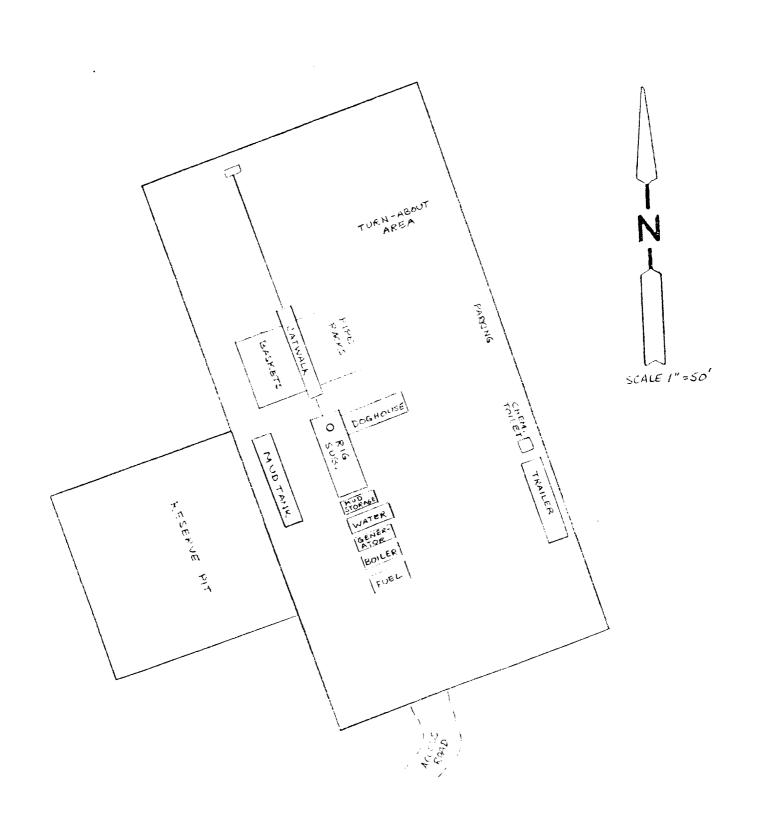
Ladd Petroleum Corporation



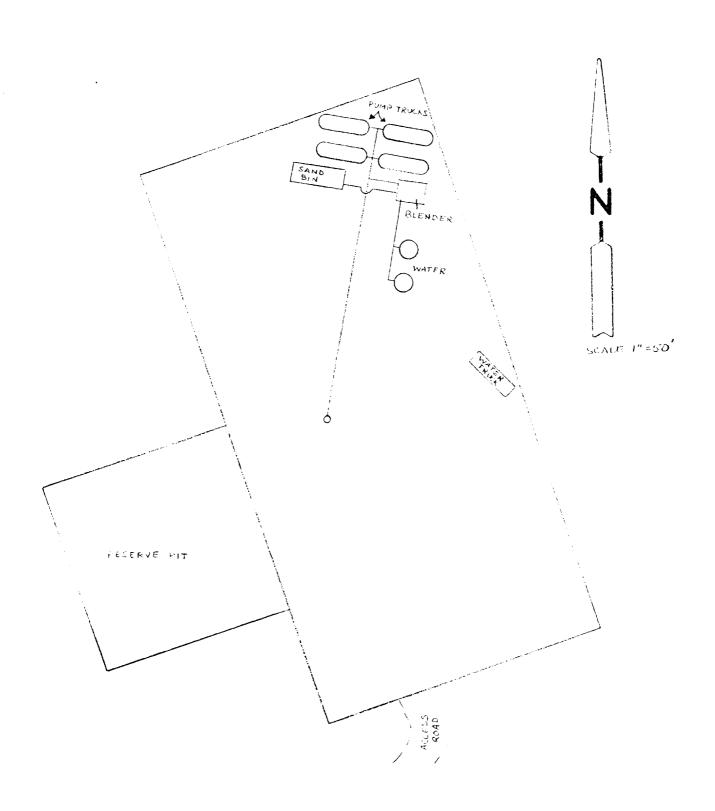


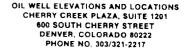


Ladd Petroleum Corporation
#2E Federal 26
NE NW Sec. 26 T30N Rl3W
San Juan County, New Mexico



Ladd Petroleum Corporation #2E Federal 26 NE NW Sec. 26 T30N R13W San Juan County, New Mexico







October 1, 1979

U.S. Geological Survey Office of the District Engineer PO Box 959 Farmington, New Mexico

RE: Filing NTL-6 and A.P.D. Form 9-331C Ladd Petroleum Corporation #2E Federal 26 NE NW Sec. 26 T30N R13W San Juan County, New Mexico

Gentlemen:

Enclosed are five copies of the NTL-6 program and A.P.D. Form 9-331C for the above-captioned well location.

We shall be contacting you and the Bureau of Land Management in a few days, regarding arrangements for the pre-drill inspection.

The archaeological report is not included with the NTL-6 report but will be forwarded to your office, and to the B.L.M. office, from our Archaeological Division in Eagle, Colorado.

Designation of Operator will be forwarded under separate cover.

We shall appreciate your earliest attention to the above matter.

Very truly yours,

POWERS ELEVATION

Connie L. Frailey

CLF:seb Enclosures RECEIVED

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U. S. GEOLOGICAL SURVEY FARMINGTON, N. M.

:: David K. Dillon, Ladd Petroleum Corporation, Denver, Colorado Neale Edwards, Powers Elevation, Durango, Colorado Dirt Contractor Powers Elevation Company, Inc. Suite 1201 Cherry Creek Plaza 600 So. Cherry St. Denver, Colorado 80222

Gentlemen:

This is to confirm our understanding with you concerning any kind of work you may be requested to perform from time to time as an agent or contractor for environmental and engineering services.

The jobs to be performed by you will be as requested by an authorized representative of the organization listed below.

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	Company						•
by:	<u> </u>	<u> </u>	ζ				
	Title 1	<i>-</i>			<u> </u>	1655	
	Date		· · · .	<u> </u>			

RE: NTL-6/APD Form 9-331C Ladd Petroleum Corporation #2E Federal 26 NE NW Sec. 26 T30N R12W San Juan County, New Mexico