### SUBMIT IN TRIPLICATE\*

Form approved.

(May 1903)			(Other	instructions on	Budget Bureau No. 42-R1425.
	UNIT	ED STATES		verse side)	30-039-2225
	DEPARTMENT	OF THE INTER	RIOR		5. LEASE DESIGNATION AND SERIAL NO.
	CEOL O	GICAL SURVEY			
					6. IF INDIAN, ALLOTTEE OR TRIBE NAME
APPLICATION	I FOR PERMIT T	O DRILL, DEEPE	N, OR PLU	JG BACK	
1a. TYPE OF WORK			•		7. UNIT AGREEMENT NAME
DRI	LL 🗹	DEEPEN 🗌	PLUG	BACK 🗌	1. UNIT AGREEMENT NAME
b. TYPE OF WELL	. –	gr	NGLE []/	MULTIPLE [	
WELL WI	ELL OTHER			ZONE	8. FARM OR LEASE NAME
2. NAME OF OPERATOR					Jicarilla - 20
Conoco Inc					9. WELL NO.
3. ADDRESS OF OPERATOR					7
P.O. Box 461	O Hobbs N.11. eport location clearly and	X8240			10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (Re	eport location clearly and	in accordance with any S	tate requirements	.*)	W. Lindreth Gallup Dakos 11. SEC., T., R., M., OB BLK.
T 1670'	FSL & 910'FEL			-	II. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zon	e				
Same			•		Sec. 19 T-25N R-4W 12. COUNTY OR PARISH 13. STATE
14. DISTANCE IN MILES A	AND DIRECTION FROM NEAR	EST TOWN OR POST OFFIC			12. COUNTY OR PARISH 18. STATE R.O. A.S. R. B.A. N.M.
15. DISTANCE FROM PROPO		16. NO	O. OF ACRES IN LE		OF ACRES ASSIGNED THIS WELL
LOCATION TO NEAREST PROPERTY OR LEASE L	INE, FT.			10.	// ^
(Also to nearest drig		19. PF	OPOSED DEPTH	20. ROT	ARY OR CABLE TOOLS
TO NEAREST WELL, DI OR APPLIED FOR, ON THI	RILLING, COMPLETED,		8150'		Rotary
21. ELEVATIONS (Show whe			0130		22. APPROX. DATE WORK WILL START*
7304'61					Aug. 20, 1980
23.		PROPOSED CASING AND	CEMENTING P	PROGRAM	
SIZE OF HOLE	SIZE OF CASING	WRIGHT PER FOOT	SETTING DEP	тн	QUANTITY OF CEMENT
1214"	9 5/4"	24#	550'		290 SX.
77/8"	5 1/2"	17", 15.5"	8150'		840 sx.
		,			

It is proposed to drill a straight hole to a TD of 8.150' and complete as a W. Lindreth Gallup Dakota oil Well.

See attachments for 10-point well plan and 13-point Surface Use Plan.

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S. GEOLOGICAL SURVEY
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

revenuer program, in major		
signed Whe a. Dut	THE Administrative Supervisor	DATE 11/30/79
(This space for Federal or State off	îce u.e)	
PERMIT NO.	APPROVAL DATE	
		DAGE STORY
APPROVED BY	TITLE	- The second
usos (Durango) -6	7 A	1 7, 6, 6, 3 /
BEA inh	, 8, w.h	OIR DIE
El Paso	*See Instructions On Reverse Side	
MJL	₹ A	

# NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

		All distances r	nust be from the o	uter boundaries of	the Section	3.	
Operator		_	Lease				Well No.
CONTINENT.	<del></del>			RILLA 20	··	·	7
I I	Section 19	Township 25N	Ra	ige ∐W	County Rio A	Arrib <b>a</b>	<i>,</i> '
Actual Footage Loc	ation of Well:  feet from the Sol	ith .	ine and 910				
Ground Level Elev.	Producing Form		ine and 910	fee	et from the	East	line Dedicated Acreage:
7304	Gallup	Dakota	1 '	Lindrith G	allup I	Dakota /	Acres
1. Outline th	e acreage dedicat	ed to the sub	ject well by c	olored pencil o	r hachure	marks on th	
interest ar	id royalty).				•		ereof (both as to working
3. If more that dated by c	ommunitization, u	fferent owners nitization, forc swer is "yes,"	e-pooling. etc?		have the	interests of	all owners been consoli-
this form if	f necessary.)	wners and trac	ct descriptions	which have ac	tually be	en consolida	ted. (Use reverse side of
No allowab forced-pool sion.	le will be assigne ing, or otherwise)	d to the well u or until a non-s	ntil all interes tandard unit, e	ts have been deliminating suc	consolida h interes	ted (by comr ts, has been	nunitization, unitization, approved by the Commis-
	1						CERTIFICATION
						I horaby a	ertify that the information com-
				1		1	ein is true and complete to the
				1		best of my	knowledge and belief.
	 			1		Name	1-1-1-1
						Position	· Bully full
	1			1		Administ	RATIVE Supervisor
				i i		CONTINE	MTAL Oil Co.
	Se	2		1		Date MAY 10	
			<del></del>	<del> </del>	=		
	1	t   t	19	1		I hereby o	certify that the well-location
	 	ļi.		1	$V \subset V$	1	his plat was plotted from field
	i	li			11 1	i	ctual surveys made by me or
	i	l!		910	) !	1	upervision,-and that the same d correct to the best of my
	ì				- <i>∮</i>	knowledge	•
	-+ <del></del>			¦ •   • • • •	_ // 4	Allow reage	
							/
	1	- <del> </del>		6701		Date Surveye	d
	¢ 03 1979			16.	:		18, 1978 rofessional Edgineer
;	OFOLOGICAL SURI	VEA !			1	and/or Land	Surveyor 2
						Certificate N	PA CONCE II
0 330 660 9	0 1320 1650 1980	2310 2640	2000 1500	1000 50	ı 0 0	3950	

## ATTACHMENT TO FORM 9-331 C APPLICATION FOR PERMIT TO DRILL

### Continental Oil Company

Jicarilla 20 Nos. 7 and 8 Jicarilla 30 No. 16

- 1. The geologic name of the surface formation is Cretaceous.
- 2. The estimated tops of important geologic markers are shown on the attached Proposed Well Plan.
- 3. The estimated depths at which anticipated water, oil, gas or other mineral-bearing formations to be encountered are shown on attached Proposed Well Plan.
- 4. The proposed casing program is as follows:

0-550' 8 5/8", 24#, K-55, ST&C 0-6300' 5 1/2", 15.5#, K-55, ST&C 6300-8150' 5 1/2", 17.0#, K-55, ST&C

- 5. A drawing of an API Series 900 Blowout Preventer Specification 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 string is set and operated daily for checks.
- 6. The proposed mud program is as follows:

0-550' 8.5-9.5 ppg spud mud 550'-6800' 8.8-9.3 ppg fresh water gel (low solids) 6800'-TD 8.8-9.4 ppg fresh water gel (low solids)

- 7. The auxiliary equipment to be used is:
  - (1) kelly cocks
  - (2) floats at the bit
- 8. It is proposed to run SP-IES log from TD to approximately 3300' and GR CAL FDC PDC logs at selected intervals.
- 9. No abnormal pressures or temperatures are expected to be encountered in this well.
- 10. The anticipated starting date for the first well is August 20, 1980 with a duration of approximately 21 days for each well.

PEB:cab

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WELL NAME: Jicarilla 20 No. 7

COUNTY: Rio Arriba

LOCATION: 1670' FSL & 910' FEL Sec. 19, T25N, R4W

STATE: New Mexico
GL: 7304 (Surveyor)

	FORMATION	DRILLING	TYPE OF	HOLE		SING	μ) (¬	0;; T	JM1	1)
DEPTH	TOPS & TYPE	PROBLEMS	FORMATION -			DEPTH (FT)	FRACTURE GRADIENT	FORMATIC PRESSURI	MEIGUT	TYP
	Surface Rock	Possible Lost	Geolograph 0-TD Deflection 0-TD	12 1/4	4 5 1/2	550	(PPG)	(PPG)	8.5 To 9.5	Spud
1000		Circulation								-
2000			·							
3000	Ojo Alamo SS.	2630								-
	Kirtland Sh.	3190							8.8 To 9.3	Fres Wate Gel
4000	SS. 3540 Chacra SS.	4430								· -
5000	Mesa Verde SS									
6000		Mud Seepage	SP-IES TD-3300' 2" & 5"			•				-
7000	Gallup SS.	6900 Lost Circulation	GR-CAL-FDC Selected Intervals (TD-3300') 2" & 5"			6800	e I V		To	Fresh Water Gel
8000	Dakota "D" SS. Dakota "J" SS. Dakota "M" SS. TD - 8150	7760 7910 8000	PDC TD-6800'	7 7/8	5 1/2	. &ī9b)G	3 197 IICAL SU <b>0, COLO.</b>	RVEY	8.8 To 9.4	Frest Water Gel

WELL NAME Jicarilla No.

FIELD West Lindrith

DATE 5/2/79

AFE NO.

ELEY.

GRD 7304

KB

PROPOSED TO

LOCATION (SURF.)

- in & 1000

OF SEC A

T 25N

R 4W

COUNTY Rio Arriba STATE New Mexico

SPACING

320 Acres

LOCATION (BOTTOM HOLE) Same as surface location

### GEOLOGICAL ESTIMATES

Z0:1E	10P	THICKIESS	CONTENT	ZOILE	<u> 108</u>	THICKNE	<u>55 CONT</u>
Ojo Alamo (SS)	<b>2</b> 630'		Water	•			
Kirtland (Sh)	3190'						
Pictured Cliffs	3540 <b>'</b>		Gas				
. (SS)							
Chacra (SS)	4430'		Gas				
Mesa Verde (SS)	5200'		Oil & Gas				
Gallup (SS)	6900 <b>'</b>		Oil & Gas				
Dakota "D" (SS)	7760'		Oil & Gas				
Dakota "J" (SS)	7910 <b>'</b>	; :	Oil & Gas				
Dakota "M" (SS)	8000 <b>'</b>	•	Gas ·				
TD	8150 <b>'</b>						•
CORING NO.	TYPE	HORIZON	INTERV	AL FRO	<u>1-T0</u>	FOOTAGE	REMARKS
					· — · —		

None

DRILL STEM TESTS

WATER SHUT OFF TESTS

HORIZON NUMBER HORIZON NUMBER NUMBER HORIZOH

HORIZO NIMBER

None

WELL SURVEYS (List types by code numbers as follows: Directional and/or Deviation (1) Deflection (2) Caliper (3) Temperature (4) Electrical (5) Radio-active (6) Geolograph (7) Photoclinometer (8) Mudlogging (9) Other: (10) and name of that type.)

DEPTH POINTS	TYPE	HOLE SIZE	REMARKS
0-TD TD-3300'	(2) Deflection (5) SP-IES	12 1/4", 7 7/8" 7 7/8"	1 every 500' 2" & 5"
TD-6700', 5800'-5000',		7 7/8"	2" & 5"
4600'-4200', 3800'-3300' TD-6700'	(6) PDC	Inside Casing	GR-CCL Log
O-TD	(7) Geolograph		Depth Control

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REGEOLOGICAL SURVEY CGC, COLO.

FUEL AND WATER (SOURCE)

### PROPOSED WELL PLAN

WELL NAME Jicarilla No.	· · · · · · · · · · · · · · · · · · ·	FIELD_West	Lindrith
ATTACHMENT	NO.	REQUIRED	NOT REQUIRED
CASING CENTRALIZERS, SCRATCHERS	<del></del>	X	·
CEMENT ING	<del></del>	X	<del></del>
MUD PROGRAM		X	
WELL PLAN OUTLINE		X	
PORE PRESSURE - FRAC GRADIENT			<del></del>
PROJECTED PROGRESS			
CROSS SECTION OR WELL COURSE			
HYDRAULICS PROGRAM	/	~	**************************************
BIT PROGRAM			-
VENDER USAGE LIST		-	

### DRILLING AND COMPLETION PROCEDURE

- 1) 0-550' Drill 12 1/4" hole. Set and cement 8 5/8", 24# surface casing. Pressure test and drill out after 18 hours.
- 2) 550'-8150' Drill 7 7/8" hole. Pressure test to 250 PSI after drilling out shoe. Condition mud and run OH logs. Set and cement 5 1/2" OD production casing.
- 3) Detailed completion procedure to be prepared from OH log analysis.

\*: A GEOLOGICAL SURVEY

# CASINT, CENTRALIZERS & SCRATHERS

LIST I TE OF STRING BY CODE LITTERS, 1.e. CONDUCTOR (C); SURFACE (S); INTERNEDIATE (I); PRODUCTION (P); LINER (L); PERFORATIONS (PP)

WI, IN AIR, WI, IN MUD	1000 LBS 1000 LBS REPARKS			Sand blast bottom 1350'
	ANT	550	63001	1850
	THREAD	STC	STC	STC
	GRADE	K-55	K-55	K-55
WI	FF	24#	15.5#	17.0#
חארואת	OI OI	7.972" 24#	4.825" 15.5#	4.767" 17.0#
	QD	8 5/8"	5 1/2"	5 1/2"
TYPE OF STRINGS & IMPERVAL (FT)	FRC4-TO	(S) 0-550°	(P) 0-6300°	6300'-8150'

	CENTRAL IZERS INITAVAL	SCRATCHER NO. INTERVAL	CITHER ACCESSORY EQUIPMENT (SUCH AS DECASSERS, MID. CENTRIFUCE	REMARKS
TYPE OF STRING	NO. FIGUR-10	NO. FRAN-10	FLOAT COLLEGE, - SECRET,	
(S) Surface	(4) 2 each on bottom 2 joints	. шо:	Guide shoe	
(P) Production*	(P) Production* (4) 1 every other joint from 7100'-6800'	- ,00	Guide shoe, float collar Two cement baskets above and one below DV tool @ + 5500'	
	(6) 1 every other joint from 8150'- 7650'	- 202		

\*Final number and placement of centralizers to be determined from OH caliper log.

MAD PROCTEM	:					÷	MAXIMUM		•
DEPTH INTERVAL FTON-10	WEIGHT LISS/CAL	TYPE	% TIO	핆	WATER LOSS	VIS. (sec.)	X SOLIDS XXXXX XXXXX	% LCM MINYARYX MXAXANX	WATER LOSS AGETES
0-550"	8.5-9.5	PndS	i	ŀ	3	1	!	!	!
5501-35001	a) c) - 0	Fresh Mater Gel (Low Solids)	 	As Required	10-12	30-32	E:	uńن	Cypan or Equivalen
3500'-6800'	8.8-9.3	-		As Required	9-10	30-32	1-3	5% If Required	Cypan
6800'-7650'	8.8-9.4	=	:	As Required	9-10	30–32	₹.	15-20% When drilling into the Gallup. Maintain 5% while drilling ahead.	Cypan
7650'-TD	8.8-9.4	=	=	As Required	9	32-36	٠	2-5%	Cypan
TD - Logging	8.8-9.4	=	  -	As Required	9	38-40	; ~	2-5%	Cypan
TD - Cementing	8.8-9.4	=		As Required	8-10	30-32	ł	1	Cypan

# REMARKS

- 1) Pressure surges should be kept to a minimum below 6800'.
- 2) Pressure loss across bit should be kept at 65% of pump output pressure to obtain maximum bit hydraulic efficiency.

:

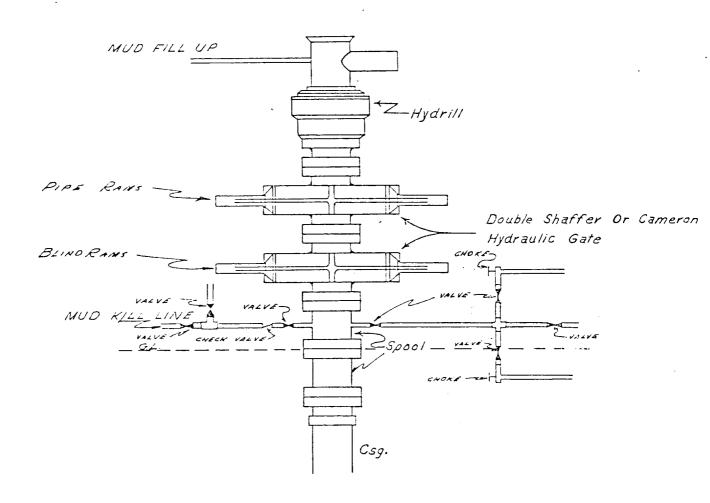
- 3) Add fiber if lost circulation occurs.
- 4) Maintain water hardness at approximately 150-180 PPM when using cypan. Do not treat out total hardness.
- Shake out solids to control mud 5) Add water while drilling to maintain mud weight at approximately 9.2-9.3 PPG. weight above the Gallup.
- 6) Control PH as required to obtain water loss control.
- 7) Condition mud to reduce viscosity prior to cementing.

CEMERIC

REMARKS	100% Excess Add 1/4#/sk flocele if lost circ. occurs	50% Excess	Add 1/4#/sk flocele to Class "B" cement and 1/2#/sk to lite cement if lost circ. occurs	Same as above	
SIZE	12 1/4	7 7/8	7 7/8	7 7/8	
BHT	160°F	160°F	160°F	155°F	
FILL UP	Circ.	To 5500'	1	'	
TOTAL AMT. REQUIRED SKX/CF	290/450	200/338	300/354 · ·	340/579	,
SLURRY YIELD OF/SKX	1.55	1.69	1.18	1.69	
SLURRY WEIGHT LB./GAL	14.1	13.1	15.6	13.1	-
CaC12	2%	2%	2%	2%	
SALT%	1		1	1	
GEL%	% 7	1	(u	5500	 <del></del>
TYPE OF STRING INTERVAL (FT) FROM-TO TYPE MIX	(S) 0-5:0' Class "B"	(P) 0-8:50' Around Shoe Lite-Wate (Lead)	Class "B" (Tail-In)	Through DV Tool @ 5500' Lite-Wate	REMARKS

- (1) Lab test slurry for production casing.
  (2) Add 0.75% CFR-2 friction reducer to all cement.
  (3) Pump plug down with treated fresh water.
  (4) Precede cement with 15 bbls. fresh water flush.
  (5) Reciprocate casing while cementing.
  (6) Recalculate cement volumes from OH caliper log.
  (7) Place one cement basket below and two cement baskets above DV tool.
  (8) Condition mud to have 30-32 viscosity prior to cementing.

### CONTINENTAL CH COMPANY Blow-out Preventer Specifications



# API SERIES 900

NOTE:

Manual and Hydraulic controls with closing unit no less than 75' from well head. Remote controls on rig floor.

DUE TO SUBSTRUCTURE CLEARANCE, HYDRILL MAY OR MAY NOT BE USED.

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\_20 **03 1979** 

A. S. CEOLOGICAL SURVEY

SURFACE USE PLAN
Continental Oil Company
Jicarilla 20 Nos. 7 and 8
Jicarilla 22 No. 10
Jicarilla 30 No. 16
T-25N, R-4W
Rio Arriba County, New Mexico

The plan is to accompany "Application for Permit to Drill" the subject wells. The following is a discussion of pertinent information concerning possible effect which the proposed drilling of the wells may have on the environment of the well and road sites and surrounding acreage. A copy will be posted on the derrick floor so that all contractors and sub-contractors will be aware of all items of this plan.

### 1. Existing Roads

- A. The proposed well sites are as follows:

  >Jicarilla 20 No. 7 1670' FSL and 910' FEL, Section 19

  Jicarilla 20 No. 8 770' FNL and 760' FWL, Section 19

  Jicarilla 22 No. 10 820' FNL and 610' FWL, Section 21

  Jicarilla 30 No. 16 660' FSL and 1980' FWL, Section 29
- B. Exhibit "A" is a portion of a Jicarilla area Lease map showing existing roads and proposed new road and location. A portion of a New Mexico road map is also included for further clarification.
- C. The access roads are shown on Exhibits "A" and "B".

### 2. Planned Access Roads

Refer to the attached archaeological report.

### 3. Location of Existing Wells

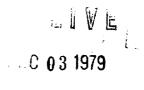
See Exhibit "B".

### 4. Location of Existing and/or Proposed Facilities

- A. Tank Batteries: Two 400 Bb1. tanks and a production unit will be located on each well site.
- B. Rehabilitation: 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.

### 5. Water Supply

The supply of water will be hauled from Largo Wash (See Exhibit"C"), SE/4. Section 10, T-24N, R-4W, Rio Arriba County, New Mexico.



S. GEOLOGICAL SURVEY

### 6. Source of Construction Materials

Not applicable. Drilling pad to be compacted.

### 7. Methods for Handling Waste Disposal

Waste Disposal: Well cuttings will be disposed in reserve pit. Barrel trash containers to be in accessible location 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 "D" for location of pits. If well is productive, maintenance waste will be placed in special trash cans and hauled away periodically.

### 8. Ancillary Facilities

None

### 9. Well Site Layout

Exhibit "D" shows the relative location and dimensions of the well pad, mud pit, reserve pit, etc.

### 10. Plans for Restoration of Surface

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 renabilitation of the surface is planned to be completed within 45 days from commencement. Surface will be leveled and properly conditioned as required by USGS after consulting with proper surface managing agency.

### 11. Other Information

- A. Terrain: "A" through "C" refer to the attached archaeological report.
- B. Soil:
- C. Vegetation:
- D. Surface Use: Suitable for grazing.
- E. Ponds and Streams: None within one mile.
- F. Water Wells: None within one mile.
- G. Residences and Buildings: None within one mile.
- H. Arroyos, Canyons, Etc: See attached topographic map, Exhibit "B".



- 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. Operator's Representative

Field personnel who can be contacted concerning compliance of this Surface Use Plan are as follows:

### PRODUCTION AND DRILLING

B. E. Anderson
Petroleum Center Building
Room 215
501 Airport Drive
Farmington, New Mexico
Phone: (505) 327-9557

L. P. Thompson 1001 North Turner Hobbs, New Mexico 88240 Phone: (505) 393-4141

J. R. Kemp 1001 North Turner Hobbs, New Mexico 88240 Phone: (505) 393-4141

### 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 Continental Oil Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

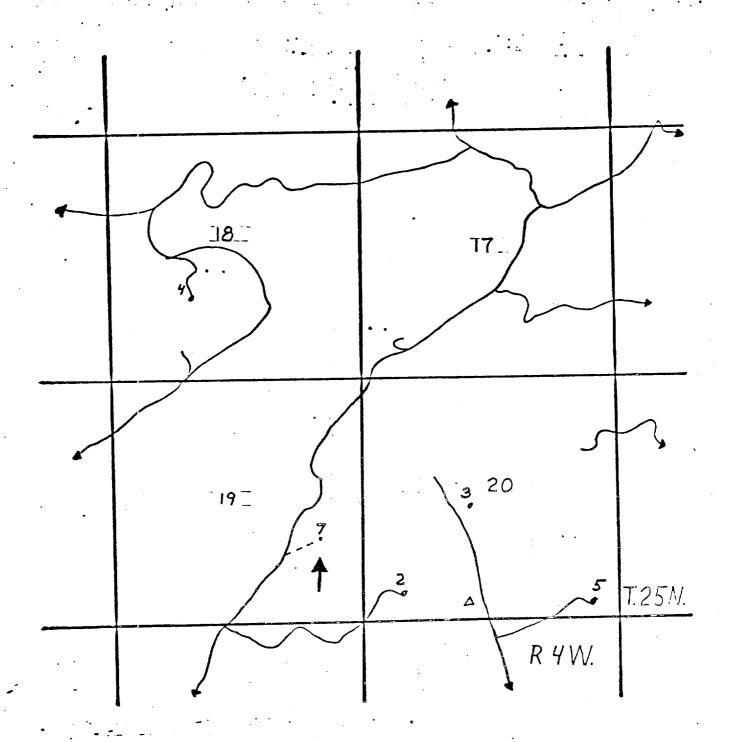
4-20-79	
Date	

PEB:skr

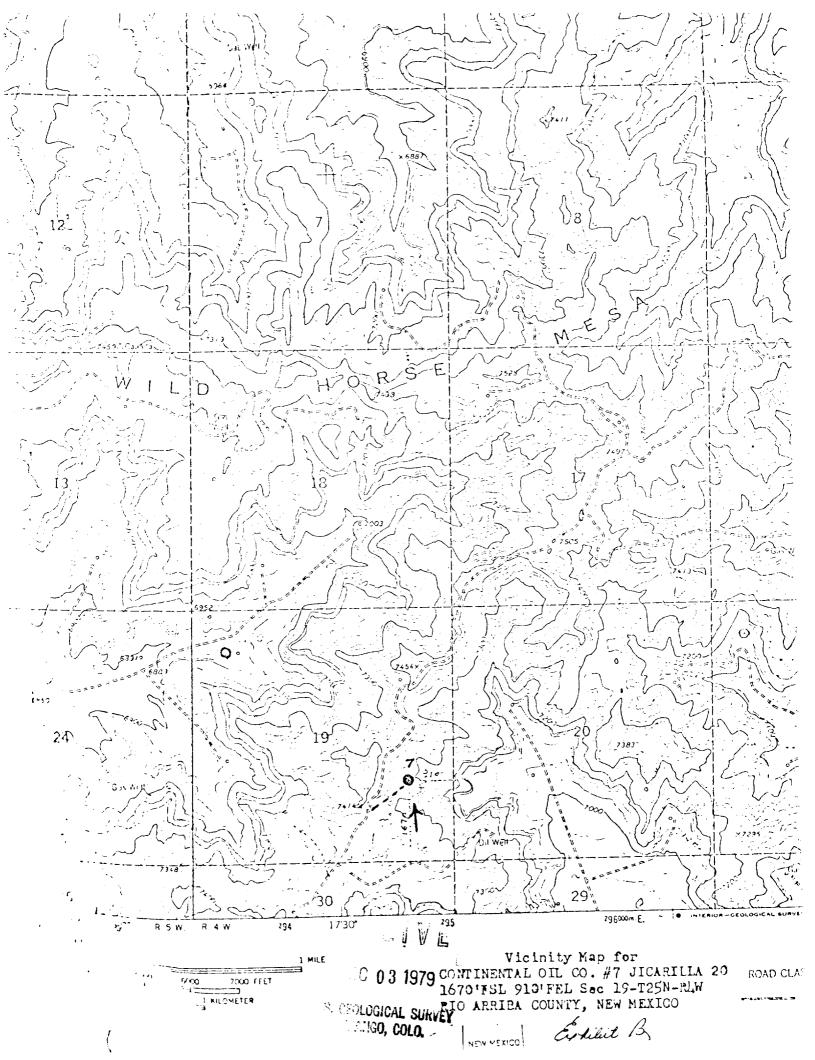
Assistant Division Manager

...C 03 1979

S. GEOLOGICAL SURVEY



# CONOCO PRODUCTION DEPT. HOBBS DIV. JICARILLA "20" LEASE LEGEND CONOCO WELL TANK BATTERY LEASE ROAD HWY. CONOCO WELL CONOCO WEL



5HWY 537 TO LEWORITH 10 WATER HOLF T24N. R.4W.

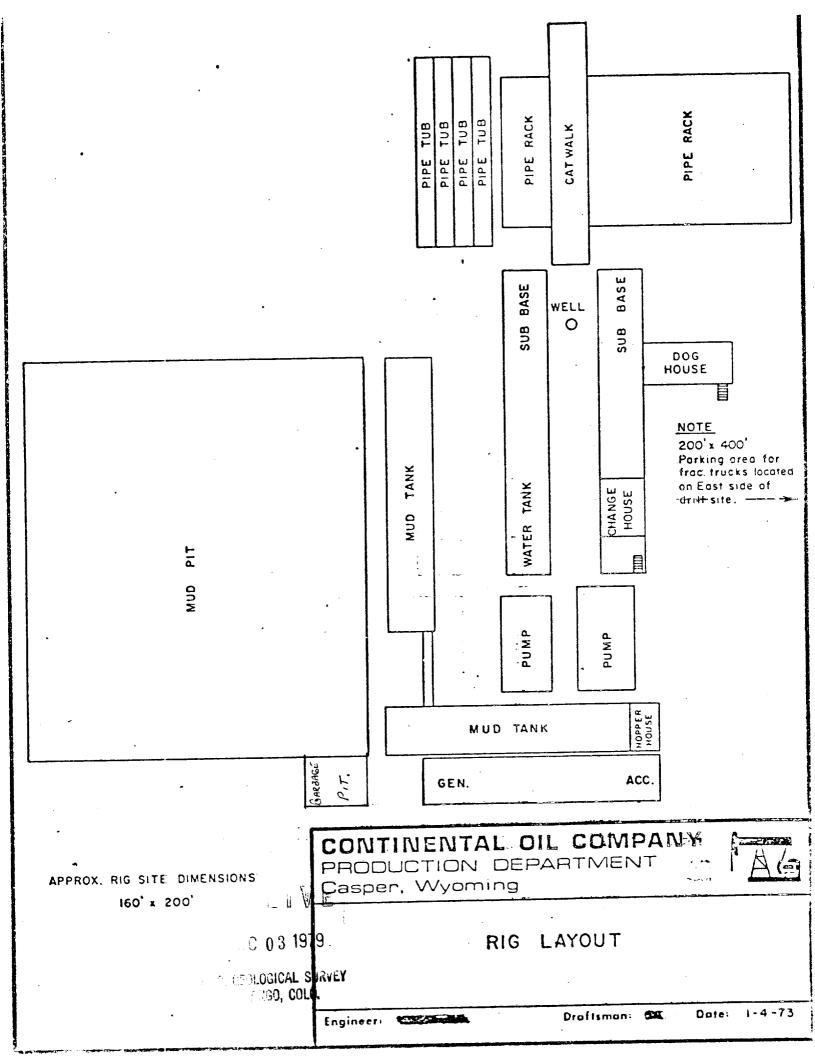
> · (conoco) PRODUCTION DEPT. HOBGS DIV. LARGO WATER HOLE LEGEND FXHIBIT CONOCQ WELL

TANK BATTERY

LEASE ROAD

**... 0 3 1979** 

NTS CHAVEZ





## United States Department of the Interior

Environmental Quality - 305

BUREAU OF INDIAN AFFAIRS
ALBUQUERQUE AREA OFFICE
P. O. BOX 8327
ALBUQUERQUE, NEW MEXICO 87198

MOV 29 1978

Mr. Andrew Anderson Continental Oil Company Fetroleum Center Building, Rm 215 501 Airport Drive Farmington, New Mexico 87401

Dear Mr. Anderson:

We have recently received an archeological survey report entitled, "An Archaeological Clearance Survey of Eight Proposed Wells and Access Routes Conducted for Continental Oil Company." This report was prepared by Mr. Billy J. Naylor and Ms. Dabney Ford, dated October 25, 1978, and numbered 78-SJC-209. We understand that you also have a copy of this report.

We have reviewed the portions of this report that deal with proposed activities on lands belonging to the Jicarilla Apache Tribe. We note that no cultural resources are encountered during the requisite field inspection. Therefore, no effect upon significant cultural resources is expected to result from the proposed action. Accordingly, archeological clearance for Jicarilla 30 #16, Jicarilla 22 #10, Jicarilla 20 #8, Jicarilla 20 #7, and AXI Apache K #6A is granted under the following stipulations: 1. that all land altering activity be confined to the archeologically surveyed area; and 2. that in the event that subterranean cultural resources are encountered, that land alteration be halted and the Area Archeologist notified.

If you have any questions regarding this matter, please contact Mr. William C. Allan, Area Archeologist, Environmental Quality Services, at 766-3374.

Sincerely yours

Deputy Area Director



- - C 03 1979

Report 78-SJC-209
Permit 404-77/NM-084
A New Mexico
Service Permit

An Archaeological Clearance Survey of Eight Proposed Wells and Access Routes Conducted for Continental Oil Company

Submitted by,
Billy J. Naylor,
Coordinator and
Dabney Ford
Cultural Resource
Management Program
San Juan Campus
N. M. State University
25 October 1978

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±0 **03 1979** 

11 S. CEOLOGICAL SURVEY

An Archaeological Clearance Survey of Eight Proposed Wells and Access Routes Conducted for Continental Oil Company

On October 18 and 19, 1978, Billy J. Naylor and Dabney Ford of New Mexico State University's Cultural Resource Management Program, San Juan Campus, conducted and archaeological clearance survey of eight proposed wells and access roads for Continental Oil Company at the request of Mr. Andrew Anderson of Continental Oil Company and Mr. Joe McKinney of Atchison Construction Company.

Mr. Anderson, Mr. McKinney, and Mr. Fred Kerr of Kerr Land Survey were present during the inspections.

The proposed locations and access roads were inspected by walking transects over a 300 X 300 foot area for the location. The access routes were inspected by walking the length of each in a zig-zag pattern, under Federal Antiquities Permits, 404-77/NM-084 and New Mexico State University's Permit for New Mexico States National Forest Lands.

The most recent listings of the National Register of Historic Places have been consulted and no sites which appear on the Register and no sites which have been nominated to the Register occur on the Project area. The proposal complies with the provisions of the Historic Preservation Act of 1966 and with Executive Order 11593. It is recommended that archaeological clearance be given.

Proposed Well: CONTINENTAL OIL - JICARILLA 30 #16

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Land Charles Dicarilla Apache Indian Reservation

...C 03 1979

S. 690LOGICAL SURVEY
2003GO, COLO.

Location: 660 feet from the south line and 1980 feet from the west

line of Section 29, Township 25 North, Range 4 West, N.M.P.M., in Rio Arriba County, New Mexico. (Figure 1).

Access: Width: 20 feet Length: 500 feet to existing pipeline

right-of-way.

Total Area Inspected: 2.6 acres

Terrain: Gently rolling sagebrush flat.

Soil: Sandy loam.

Vegetation: Sagebrush, winter fat, shadscale, russian thistle, wolf-

berry, blue grama.

Cultural Resources: None found.

Recommendations: Clearance is recommended.

Proposed Well: CONTINENTAL OIL - JICARILLA 22 #10

Land Status: Jicarilla Apache Indian Reservation

Location: 820 feet from the north line and 610 feet from the west

line of Section 21, Township 25 North, Range 4 West,

N.M.P.M., in Rio Arriba County, New Mexico. (Figure 1).

Access: Adjacent to existing location. No new access.

Total Acreage Inspected: 2.4 acres.

Terrain: Gently rolling to flat small cove.

Soil: Sandy clay loam.

Vegetation: Sagebrush, shadscale, russian thistle, broom snakeweed,

black grama.

Cultural Resouces: None found.

Recommendations: Clearance is recommended.

**20 03 1979** 

47. B. GEOLOGICAL SURVEY

TAMGO, COLO. >

Proposed Well: CONTINENTAL OIL - JICARILLA 20 #8

Land Status: Jicarilla Apache Indian Reservation

Location: 770 feet from the north line and 760 feet from the west

line of Section 19, Township 25 North, Range 4 West, N.M.P.M., in Rio Arriba County, New Mexico. (Figure 2).

Adjacent to existing location. No new access. Access:

Total Area Inspected: 2.4 acres.

Level valley floor, flood plain. Terrain:

Sandy loam. Soil:

Sagebrush, rabbitbrush, russian thistle, crested wheat Vegetation:

grass, sand dropseed, indian rice grass, shadscale, black

grama.

None found. Cultural Resources:

Recommendations: Clearance is recommended.

Proposed Well: CONTINENTAL OIL - JICARILLA 20 #7

Jicarilla Apache Indian Reservation Land Status:

1670 feet from the south line and 910 feet from the east Location:

line of Section 19, Township 25 North, Range 4 West,

N.M.P.M., in Rio Arriba County, New Mexico. (Figure 2).

Width: 20 feet Length: 500 feet. Access:

Total Area Inspected: 2.6 acres.

Broken, rolling mesa top. Terrain:

Sandy with sandstone boulders. Soil:

Pinon, juniper, antelope bitterbrush, gamble's oak, sage. Vegetation:

brush, mountain mahogany, prickly pear cacti, broad leaf

yucca.

Cultural Resources: None found.

Recommendations: Clearance is recommended.

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Proposed Well: CONTINENTAL OIL - AXI APACHE K #6A

S, GEOLOGICAL SURVEY TANGO, COLO.

Land Status: Jicarilla Apache Indian Reservation

1090 feet from the south line and 1750 feet from the east

Location: line of Section 9, Township 26 North, Range 5 West, N.M.P.M., in Rio Arriba County, New Mexico. (Figure 3).

Length: 200 feet. Width: 20 feet Access:

