SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

	UNIT DEPARTMENT	ED STATES		reverse sid	le)	30-145-34814		
	NW0250211							
APPLICATIO	GEOLO N FOR PERMIT	NMO359211 6. IF INDIAN, ALLOTTEE OB TRIBE NAME						
1a. TYPE OF WORK	ILL X	DEEPEN [PLUG BAC		7. UNIT AGREEMENT NAME		
b. TYPE OF WELL	AS		81N 201	GGLE X MULTIPE	E	8. FARM OR LEASE NAME		
2. NAME OF OPERATOR	VELL X OTHER	Federal 30						
DEPCO, Inc.						9. WELL NO.		
3. ADDRESS OF OPERATOR						44		
1000 Petrol		10. FIELD AND POOL, OR WILDCAT						
4. LOCATION OF WELL (Report location clearly and	in accordance wit	th any St	tate requirements.*)		West Kutz P.C.		
OAt surface 990)' FSL, 990' FEL	, SE/4-SE/4	1, Sec	2. 30		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. 20	ne Same							
						Sec. 30-T27N-R11W		
14. DISTANCE IN MILES	AND DIRECTION FROM NEA		12. COUNTY OR PARISH 13. STATE					
	th of Bloomfiel	d, NM	 .			San Juan NM		
15. DISTANCE FROM PROD LOCATION TO NEARES			16. NO.	OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL		
PROPERTY OR LEASE (Also to bearest dr	LINE, FT. ig. unit line, if any)	990'	. 3	397.16 . 477.16		160-		
18. DISTANCE FROM PRO	POSED LOCATION* DRILLING, COMPLETED,		19. PR	OPOSED DEPTH	20. ROTA	ARY OR CABLE TOOLS		
OR APPLIED FOR, ON T	HIS LEASE, FT.	2750 '	1.8	350 '	Rotar			
21. ELEVATIONS (Show w	hether DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START*		
6169' GR	6181' KB (Est	.)				1-15-81		
23.		PROPOSED CASI	NG AND	CEMENTING PROGRA	AM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT		SETTING DEPTH	QUANTITY OF CEMENT			
12-1/4"	8-5/8"	24#, K55		120'	100	sx (Circulate)		
7-7/8",	4-1/2" 1-1-2-1/2" ARE	10.5#, J55 1850'			375 sx			
	THE STACHED		This act	an in subject to admir	strative			
t *	_	,	eppini,	ំ ហ៊ុនជា ខេ 30 ÇFR 29		•		
	surface hole ar		ace ca	asing as above.	•	.		
	3" hole to 1850'				<u> </u>	At the arminess of the second		
	NL-FDC w/GR-Cali sing string if v	_	or Del	A in compliance	, with	regulations		
						iled topsoil will be		
	nd the area rese		ginai	copography.	ocockb.	ried copsoil will be		
respread a	id the area rese		its a	ttached to this	s APD			
"A" - Well	Location Plate					"C" - Blowout Preventer		
	D" - Multipoint							
	graphic Map of a		_		-			
	ocation Plan, Co				Drill			
	Plan; "I" - Tre				chec Poc			
100225			J =		5.2	0		
				1	7.0	10 SA		
IN AROVE SPACE DESCR	IBE PROPOSED PROGRAM: I	f proposal is to de	epen cr	plug back, give data on	gresent pr	duction zone and proposed new productive		
zone. If proposal is	to drill or deepen directio	nally, give pertine	nt data	on subsurface locations a	nd measui	ed and true vertical depths. Give blowout		
preventer program, if	any.				- Contraction of the Contraction			
24. OU	$\mathbb{Q} \times \mathbb{Q} \times \mathbb{Q}$			na a Comt	Director	to Dict 12/16/80		

Prod Supt. - So. Rky Mtn Distate 12/16/80 (This space for Federal or State-office use) APPROVAL DATE __ PERMIT NO. DATE _ APPROVED BY CONDITIONS OF DISTRICT ENGINEER

ah 3~

*See Instructions On Reverse Side

STATE OF NEW MEXICO RGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107 Revised 10-1-78

All distances must be from the cuter boundaries of the Section.

Oberator			1	Lease				Well No.	
DEFCO, INCORPORATED				FEDE	ERAL 30	114			
	Section	Township)	Ronge		County		<u></u>	
P	30-	2	7N	1	11W	San	Juan		
Actual Footage Locat	tion of Well;								
990	feet from the	South	line and	990	fe-	et from the	East	line	-
Ground Level Elev:		Formation	4	P∞l			C. A.	Dedicated Acreager	1:
6169	Pictu	red Cliffs	5	West	Kutz		E14)	160	Астев
3. If more than dated by co Yes If answer is this form if	n one lease none lease mmunitization. No ''no,' list necessary.).	of different on, unitization the owners a	ownership is don, force-pooling "yes;" type of the description and tract description well until all	dedicated ag. etc? f consoliding interests	to the well dation	have the actually be	interests o	thereof (both as thereof (both as the all owners beet all owners beet attended). (Use rever amunitization, unapproved by the	n consoli-
		Sec.					Person Prod S Company DEPCO, Date	certify that the info erein is true and coming knowledge and be supt - So. Rk. Inc. er 16, 1980	rmation com- nplete to the lief.
			30		©		shown or notes of under my is true knowledge Date Surve	1980 1980 Priviles and Engine	ed from field de by me or out the same best of my
	5	cale: 1"-	1000!		· .		18050		=
	_	Exhibit		•		•	L Kin XE	AR. JIM	
								F	ORM 24-11

DEPCO, Inc. Federal 30 No. 44 SE/4 - SE/4, Sec. 30-T27N-R11W San Juan County, New Mexico

- 1. Surface formation Wasatch of Tertiary Age
- 3. Anticipated depth of oil, gas, water or other mineral-bearing formations:

Coal - 1649' KB Coal - 1691' KB Gas - 1719' KB

4. Proposed casing program:

Surface - 8-5/8" 24# K55 STC 0' - 120' Production - 4-1/2" 10.5# J55 STC 0' - 1850'

- 5. Operators minimum specification for pressure control equipment requires a 10" 3000 psi single hydraulic blowout preventer. The BOP will be hydraulically tested to full working pressure after nippling up surface pipe and after any use under pressure. Pipe rams will be operationally checked each 24 hour period. The blind rams and annulus preventer will be checked each time pipe is pulled out of the hole. All testing will be recorded on the daily drilling sheets. Accessories to the BOP will include upper and lower kelly cocks, floor safety valve, drill string BOP and choke manifold with pressure rating equivalent to the BOP stack.
- 6. Proposed mud program:

DEPTH TYPE MUD WT. VISC. W.L.

O' - 1600' Inhibited water to control heaving shales

1600' - TD Gel 9.8 40-50 -

- 7. Auxiliary equipment will consist of:
 - a. Kelly cock
 - b. Float above bit
 - c. Visual monitoring of mud tanks
 - d. Sub with valve to fit drill pipe and collars
- 8. No coring or drill-stem tests are planned.

The anticipated logging program is as follows:

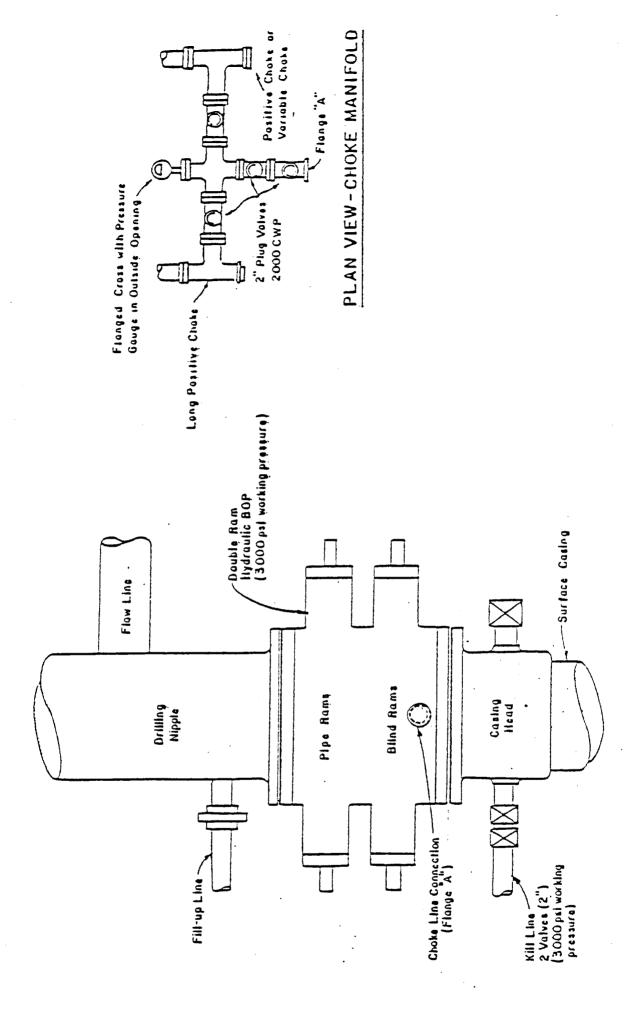
DIL - Surface pipe - TD CNL-FDC w/GR - Surface pipe - TD

Casing will be set and perforated in the Pictured Cliffs formation. The perforated section will be treated with a 60,000 lb \pm foam frac. Tubing will be run and the well cleaned up and tested.

- 9. No abnormal pressures or temperatures, hydrogen sulfide or other hazards are expected or known to exist at these depths in this area.
- 10. The anticipated starting date is during the first quarter of 1981, depending upon rig abailability. Drilling operations should be completed within four days and completion operations are anticipated to require an additional five days.

Ten Point Compliance Program

Exhibit "B"



Multipoint Surface Use and Operations Plan

Federal 30 No. 44

1. Existing Roads:

- A. The proposed well site is shown on Exhibit "A".
- B. Exhibit "E" shows the existing access roads to the proposed location. site is located 11 miles south of Bloomfield on Highway 44, then 3 miles southwest then l^1_4 miles northwest, then 1 mile west to the location.
- C. Final access roads into the site are coded green.
- E. This well is classified as development and roads are shown on Exhibits "E" and "F".
- F. The existing gravel roads will be maintained during the drilling phase of this well. No improvements are planned.

2. Planned Access Roads:

Planned access roads are shown on Exhibit "F".

- (1) Width will not exceed 20 feet.
- (2) Maximum grades will not exceed 5%.
- (3) No turnouts are to be constructed.(4) No additional drainage construction is deemed necessary other than minor ditching.
- (5) No culverts, cuts, or fills are required.
- The use of surfacing material is not planned at this time.
- No gates, cattleguards, or fence cuts are necessary. (7)
- (8) The new access road into the location is flagged.

3. Location of Existing Wells:

All existing wells are shown on Exhibit "F".

- (1) Water wells No shallow, domestic nor deep, high volume wells are known to be in the immediate area.
- (2) Abandoned wells As shown on Exhibit "F".
- (3) Temporarily abandoned wells none
- (4) Disposal wells none(5) Drilling wells none
- (5)
- (6) Producing wells as shown on Exhibit "F"
- (7) Shut in wells none
- (8) Injection wells none(9) Monitoring or observation wells for other resources none

4. Location of Existing and/or Proposed Facilities:

- A. Existing facilities owned or controlled by operator within a one-mile radius of this location:
 - (1) No tank batteries
 - (2) No production facilities
 - No oil gathering lines (3)
 - (4) No gas gathering lines
 - (5) No injection liens
 - (6) No disposal lines
- B. Proposed facilities in the event of a producing well are shown on Exhibit "H".
 - (1), (2) As shown on Exhibit "H"
 - (3) Area to be used will be levelled. Native material will be used in the construction of the location.
 - The pit will be fenced and flagged to discourage the entry of livestock, wildlife, and waterfowl.
- C. All disturbed areas not needed for operations will be rehabilitated in the manner described in Item 10.

5. Location and Type of Water Supply:

- A. Water will be obtained from the San Juan River or purchased from private sources.
- B. Water will be hauled by truck.C. No water well will be drilled on the lease.

-Over-

Source of Construction Materials:

Any materials required will be purchased from private sources. A, B, C, and D - No construction material is needed except as previously noted.

Methods for Handling Waste Disposal:

- Drill cuttings will be buried in the reserve pit.
- Drilling fluids will be placed in the reserve pit and allowed (z)
- to evaporate.
- in a test tank. Produced fluids such as oil and formation water will be collected
- decompose waste. Sewage will be contained and a suitable chemical will be used to (b)
- burned and later buried. Garbage and other waste material will be placed in a trash pit and
- in the trash pit. The reserve pit will be fenced until dry at Upon completion of drilling, all trash and litter will be buried
- Ancillary Facilities:

(8)

No camps or airstrips are planned.

Well Site Layout:

- See Exhibit "G" (T)
- See Exhibit "H" (2)
- See Exhibit "H" (5)
- The reserve pit will be unlined (b)

which time it will be backfilled.

Plans For Restoration of Surface;

- be buried or hauled away upon completion of drilling. the site will be backfilled, levelled, and contoured. Waste will All topsoil that is stripped and stockpiled will be replaced and (T)
- marker will be erected, and the access road will be plowed, ripped, as specified by BLM or landowner. If the well is dry, a dry hole piled topsoil. Revegetation will consist of seeding with mixture Rehabilitation will consist of respreading and contouring stock-(2)
- tained until the pit is dry enough to backfill. Prior to rig release, the reserve pit will be fenced and so main- (ε) sug reseeded as requested.
- flagged to discourage livestock, wildlife, and waterfowl from entering If oil is in the reserve pit, it will be removed or the pit will be (b)
- finished. It is expected taht all rehabilitation will be completed Rehabilitation will begin immediately after drilling operations are (5) the area.
- during the fall of 1981.

Other Information: • T T

- is comprised of grass, sagebrush, and rabbit brush. soils contain sand and shale of the Wasatch formation. Vegetation The surface approximately four miles in a southwesterly direction. The topography of the area generally slopes toward Gallegos Canyon (T)
- The area is occasionally used for cattle grazing. The surface owner (7)
- of record is: Navajo Tribe in Trust U.S.A.

Drawer "E"

STS98 Window Rock, Arizona

- N.I.I.P. requirements. ler operation, the wellhead and adjacent facilities will conform to Indian Irrigation Project. In order to avoid interference with sprink-The Bureau of Indian Affairs has included this area within the Navajo
- cultural sites exist in the immediate area. location. No known occupied dwellings, archeological, historical, or The nearest known water source is the San Juan River north of this

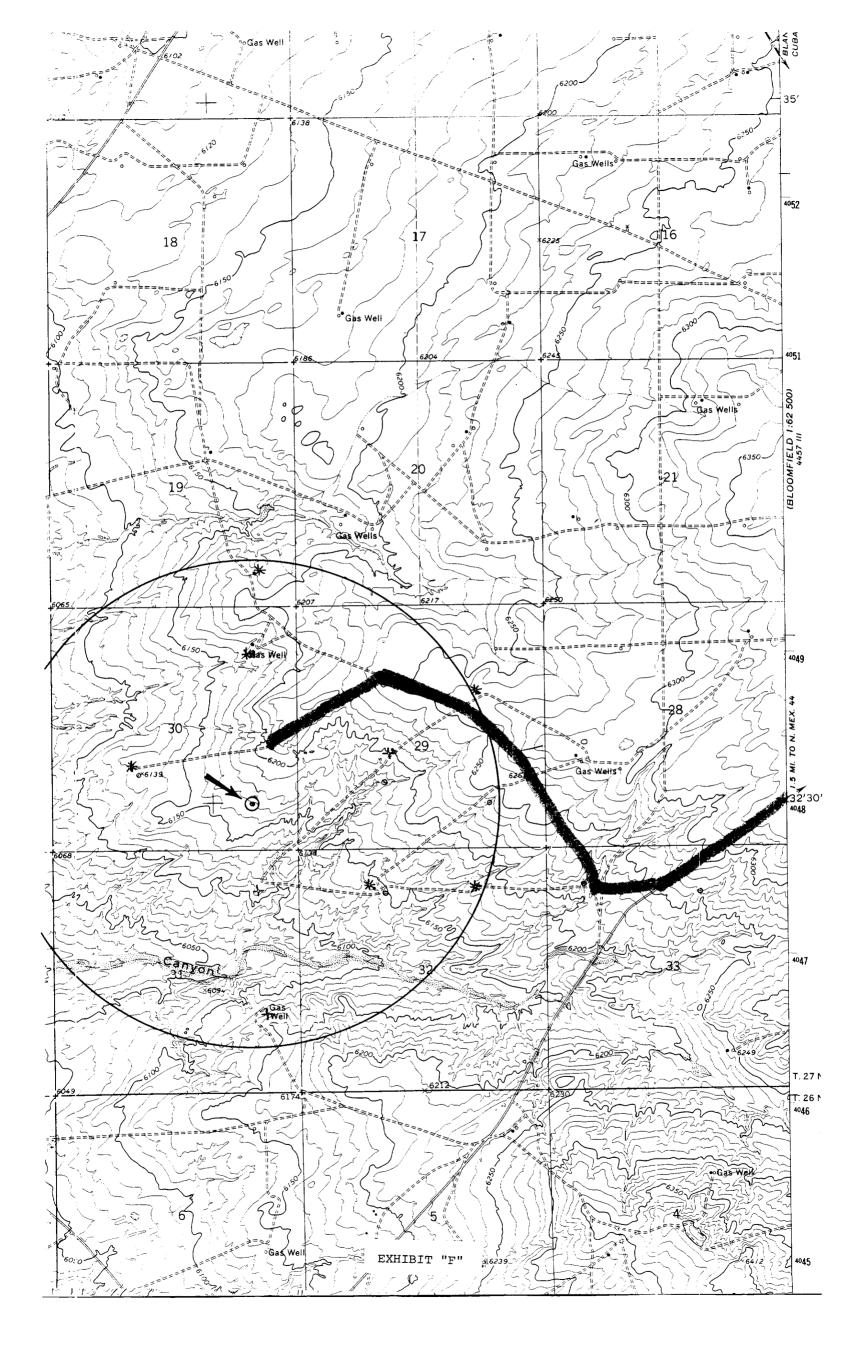
12. Lessee's or Operators Representative:

- (1) Mr. Fred Crum Box 400 Aztec, New Mexico (505) 334-6003 87410
- (2) Mr. W. F. Schwenn DEPCO, Inc. 1000 Petroleum Building Denver, Colorado 80202 (303) 292-0980

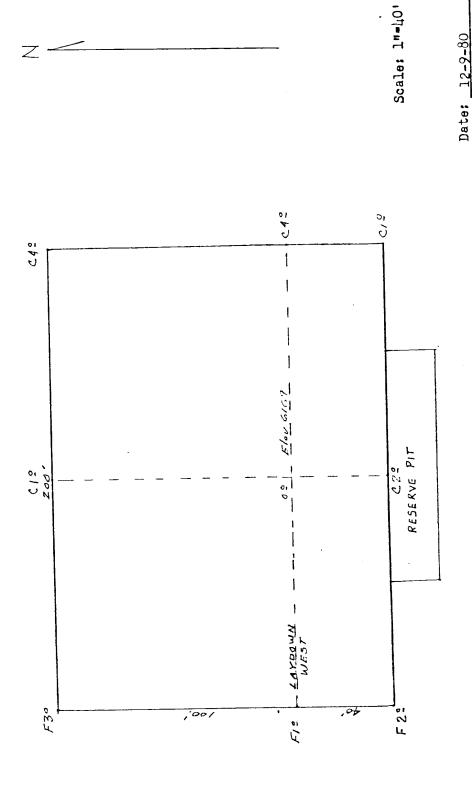
13. Certification:

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 DEPCO, Inc. and its' contractors in conformity with this plan and the terms and conditions under which it is approved.

12-16-80



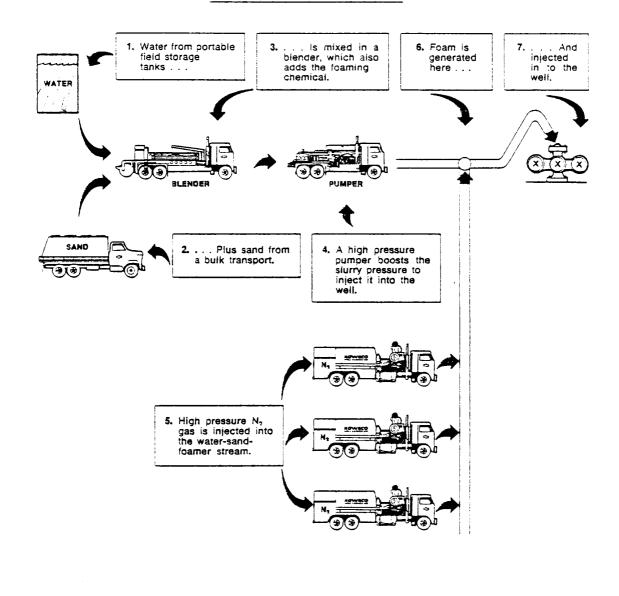




Scale: 1""40' Date: 12-9-80 \triangle Meterhouse $4' \times 4'$ 0,10 150 40' 40' Blowdown Pit 18/04/6169 RESERVE PIT 2002 FIE LAKEDUM - --.Deadman 081 1000

Profile for DEPCO, INCORPORATED # 44 FEDERAL 30 990'FSL 990'FEL Sec. 30-T27N-RLIW SAN JUAN COUNTY, NEW MEXICO

SCHEMATIC FOAM FRAC OPERATION





An Archaeological Clearance Survey of Four Proposed Well Locations & One Access Road Conducted for DEPCO, Inc.

Randy Moorehead

Federal 30 #23 Federal 30 #44 Federal 33 #11 Federal 33 #31

Report 80-SJC-416 . of the Cultural Resource Management Program San Juan Campus New Mexico State University

15 December 1980

An Archaeological Clearance Survey of Four Proposed Well Locations & One Access Road Conducted for DEPCO, Inc.

On 9 December 1980, Randy Moorehead from the Cultural Resource Management Program, New Mexico State University, San Juan Campus, conducted an archaeological clearance survey of four proposed well locations and one access road for DEPCO, Inc. at the request of Mr. Fred Crum.

Present during the survey were Mr. Crum, Mr. Gale Krause from the Bureau of Indian Affairs - N.I.I.P., and Mr. Fred Kerr from Kerr Land Surveying.

The proposed well locations and access road are on land administered by the Navajo Tribe, and were surveyed under Federal Antiquities permit 79-NM-123 with Navajo Tribal Consent to Issuance #52.

METHODOLOGY

The proposed well locations were surveyed by walking parallel transects, fifty feet apart, over the 300 by 300 foot easements. The proposed access road was surveyed by walking in a zigzag pattern over the flagged route.

GENERAL RECOMMENDATIONS

There were no cultural resources found during the course of the survey, therefore archaeological clearance is recommended for the inspected areas.

Proposed Well:

DEPCO, INC. - FEDERAL 30 #44

Land Status:

Navajo Tribe - N.I.I.P.

Location:

The proposed well location is in the NW¼ of the SE¼ of the SE¼ of Section 30, Township 27 North, Range 11 West, N.M.P.M., San Juan County, New Mexico. The well will be 990 feet from the south line and 990 feet from the east

line of Section 30. (Figure 1)

U.T.M.:

Center - 12; 7,65,085 mE; 40,47,910 mN.

Access:

Existing.

Terrain:

Gentle slope.

Soil:

Sandy clay loam. .

Vegetation:

Sagebrush, snakeweed, ephedra, prickly pear cactus, three-

awn, Russian thistle, ricegrass.

Cultural Resources:

None found.

Recommendations:

Clearance recommended.