Form 9-351 C (May 1963)	UNI	N.M.O.O TED STATES	D. COPY IN TH (Other instruct reverse st	ctions on	Form approved. Budget Bureau No. 42-R1425.
	DEPARTMEN	T OF THE INTER	IOR		5. LEASE DESIGNATION AND SERIAL NO.
51 97	GEOLO	GICAL SURVEY			NM-045276
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b. TYPE OF WELL	_				
OIL WELL	WELL OTHER	20 20			8. FARSTOR LEASE NAME
2. NAME OF OPERATOR CONOCO IN	<b>C</b> ' -		RECEIVE	ED	9 WELL NO.
3. ADDRESS OF OPERATO					40. FIRTH AND FOOL, OR WILDCAT
4. LOCATION OF WELL	Hobbs, N.M. 88240 (Report location clearly and	d in accordance with any S	tate required Gts2)6 1	981,2,4	Seeff Dagger Draw Upper Ponn
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At proposed prod.	zone		ARTESIA OFFI	· · · · · · · · · · · · · · · · · · ·	5- 21 - 700 P 240
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TO NEAREST WELL OR APPLIED FOR, ON	, DRILLING, COMPLETED,		8300'		otary
21. ELEVATIONS (Show	whether DF, RT, GR. etc.)				22. AS FROX. DATE WORK WILL START*
<u>3718'G1</u>		PROPOSED CASING AND	CEMENTING PROGRA	AM	December 1,1981
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT
17 1/2"	3 3/8 "	54.5#	500'	-	4303x - circulate
1214"	95/8"	36#	1200'		593 3x - circulate
3 3/4 "	7"	26#	81001		14385x - 1200'
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Dagger Dr	aw Upper Penn	gas well.			
	ments for 10		and 12 point	t Surk	ace Use Plan.
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IN ABOVE SPACE DESCR zone. If proposal is preventer program, if	to drill or deepen direction	proposal is to deepen or pl ally, give pertinent data of	lug back, give data on pr n subsurface locations ar	resent produc nd measured :	ctive zone and proposed new productive A
SIGNED Thy C	1. Tutorte	iel TITLE A	dministrative Supervisor		PAGE 7-29-81
(This space for F	ederal or State office use)				
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CONLITIONS OF APP	KOVAL, UP ATT :				

\*Sca Inductions On Reverse Side

# NE FXICO DIL CONSERVATION COMMISS WELL LOCATION AND ACREAGE DEDICATION PLAT

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	WELL LOCA	TION AND ACRE	AGE DEDICATION F		аў — х <b>н</b> ана. С, , ; ч. 1 ц.
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: 3 If more than one leas	se of different owner	ship is dedicated	to the well, have the	e interests of all owners la	eer consee
dated by communitiza	ation, unitization for	rce-pooling. etc?			
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If now or is ""no" lis	ot the owners and ti	act descriptions w	hich have actually h	een constituted of service	
this form if necessary		act descriptions w	nt n nave actually D	erb cobsequed (Use rev	erse side
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	4 .	•		Conoco Inc.	
		1		July 29,1981	
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1980'	1			shown on this plat was pla	Hed from feid
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ATTACHMENT TO FORM 9-331 C APPLICATION FOR PERMIT TO DRILL

i e άIJG CH & GAS

Conoco Inc. Preston Federal No. 3 Section 34, T-20S, R-24E Eddy County, New Mexico

- COLOGICAL SURVEY
- 1. The geologic name of the surface formation is Grayburg Water.
- 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'- 500' 13-3/8", 54.5#, K-55, STC
  0'-1200' 9-5/8", 36#, K-55, STC
  0'-9800' 7", 26#, K-55, LTC
- 5. A drawing of API Series 900 Blowout Preventer Specifications 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'- 500' 8.5-9.0 ppg spud mud 500'-1200' 8.5-9.0 ppg fresh water 1200'-8300' 8.5-9.0 ppg low solid polymer
- 7. The auxiliary equipment to be used is:
  - (1) kelly cocks
  - (2) floats at the bit
- 8. It is proposed to run GR CAL CNL 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 well is December 1, 1981 with a duration date of approximately 31 days.

SELL NAME	Preston	Federal No. 3	FTEL	) Dagger Dr	aw	1255 E E
		GRD 3718'				
LOCATION (S	URFACE)	2130' FSL &	. 1980' FWL	OF SECTION	<b>34</b> T- 20S	2 <b>4</b> E
COUNTY Edd	ly	STATE N.M.	SPACIN(	G 320 Acres		

## GEOLOGICAL ESTIMATES

	ZONE	TOP	CONTENT (O=0il, G=Gas, W=Water)
San Andres Glorieta Yeso Wolfcamp Cisco	dolo ss dolo dolo ls.	620' 2150' 2280' 5630' 7620'	0,G,W 0,G,W 0,G,W 0,G,W

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

DEPTH POINTS	TYPE	HOLE SIZE	REMARKS
0'-8200' 0'-8200' 1200'-8200' 1200'-8200' 0'-8200' 1200'-8200'	<ul> <li>(1) Deviation</li> <li>(7) Geolograph</li> <li>(5) DLL-GR</li> <li>(6) FDC-CNL-GR-CAL</li> <li>(9) Mud logger</li> <li>(10) Cement Bond Log</li> </ul>	8 3/4"	One every 250' to 1200' One every 500' to TD 2" & 5" Scales 2" & 5" Scales

1

CCNOCO TO FURNISH WATER, CONTRACTOR TO FURNISH FUEL.

### PROPOSED WELL PLAN

WELL NAME Freston Federal No. 3	······································	FIELD Dagger I	)raw, South
ATTACHMENT	NO.	REQUIRED	NOT REQUIRED
CASING.CENTRALIZERS, SCRATCHERS		X	
CEMENTING		X	
MUD PROGRAM		X	
WELL PLAN OUTLINE		X	
PORE PRESSURE - FRAC GRADIENT			
PROJECTED PROGRESS	• • • • • • • •		·
CROSS SECTION OR WELL COURSE			
HYDRAULICS PROGRAM			
BIT PROGRAM			
VENDER USAGE LIST			

### DRILLING AND COMPLETION PROCEDURE

- 0'-500' Drill a 17 1/2" hole. Run and cement 13 3/8" casing (See cement & casing programs). WOC 18 hours. Pressure test casing to 600 psi for 30 mins.
- 2. 500'-1200' Drill a 12 1/4" hole. Run and cement 9 5/8" casing (See cement & casing programs). WOC 18 hours. Pressure test casing to 600 psi for 30 mins.
- 3. 1200'-8300' Drill a 8 3/4" hole. Drill out shoe and pressure test formation to 200 psi. Run open hole logs, run, and cement casing (See casing & cement programs).
- 4. Detailed completion procedure to be prepared after open hole logs are analyzed. Anticipate a Cisco single completion.

LIST TITE OF STRUKE BY CODE LITTLERS, 1.e., CONDUCTOR (C); SURFACE (S); INTERMEDIATE (I); PRODUCTION (P); LINER (L); PERFORMITORIS (PP)	IX BY CODE I	ITTER, 1	L.e. CONDU	cior (c);	SURFACE (S);	INTEREDI	ate (1) <sub>1</sub> Pr	(P);	LINUT (L) ;
TAPE OF STRLINCS & LIATERVAL (FT) FAUT4-TO	Ð	DR LFT ED	WT PER FT	GRADE	THREAD	Α'nΩ	WL, IN AJ 1000 LBS	WT. IN AIR, WT. IN MJD 1000 LBS 1000 LBS	REMARKS
(s) 0'-500'	13 3/8"	12.459"	54.5#	<u> К</u> –55	STC	500'	27.3		
(I) 0'-1200'	9 5/8"	8.765"	36#	K <b>-</b> 55	STC	1200	43.2		
(P) 0'-8300'	7.1	6.151"	26#	K-55	LTC	83001	213.2		Sandblast bottom 500'
TYPE OF STRING	CENTRALIZERS INTERVAL NO. FROM-TO		SCRATCHER NO. INTERVAL NO. FROM-TO		OTHER ACCESSORY EQUIPMENT (SUCH AS DECASSERS, MUD. CENTRUFUCE FLOAT COLLARS, ETC SPECIFY)	EQUIPMENT SS, MUD. CI STC SPE(	ENTRIFUCE CIFY)	REMARKS	
SURFACE	(5) 0'-500'	-	None	9	Guide shoe and	float collar	lar	Centralizers -	. 100' spacing
INT ERMED IATE	(12) 0'-1200'	• O	None	μ	Float shoe and	float collar	lar	Centralizers -	- 100' spacing
PRODUCTION	(2) 1100'-1200' (20) 7400'-8300'		(15) 7500'-	5622	Float show and float	float collar	1- (C	Centralizers - Suratchers - 3	— 40° врасілд 15° spacing

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DEPTH INTERVAL FROM-TO	WEIGIT LIS/CAL	TYPE	% 110	H	WATER LOSS	<u>VIS. (sec.)</u>	YETLD	THIN THIS	WATER LOSS AGITATS
0'-500'	8.5-9.0	Spud							As needed
500'-1200'	8.5-9.0	Fresh water	ater						s. As needed
1200'-7500'	8.5-8.8	Fresh water	ater						As needed
7500*-5300*	8.5-8.9	Fresn waler Low solids Polymer	aler a	+10.5	5 to 10	38 to 40			As needed

# REMARKS

- Drill out intermediate with fresh water.
   Add sufficient gel to carry cuttings.
   Lower viscosity and yield point prior to
   Pressure surge to hold to intervise to hold.
- Add sufficient gel to carry cuttings. Lower viscosity and yield point prior to cementing. Pressure surge to be kept to a minimum.

PAGE 4

•	(P) 0'-8300' Class 'H' Light Class 'H'	<pre>(1) 0'-1200' Class 'C' Thixse Class 'C' Light Class 'C'</pre>	(S) 0'-500' Class 'C' Class 'C'	TYPE OF STRING INTERVAL (FT) FROM-TO TYPE MIX	CEMENT
	Ħ	ct is e ct	4%	GEL%	
				SALT%	
		2 12 12 % %	2% 2%	CaC12	
	12.70 16.40	14.10 12.70 14.80	13.05 14.80	SLURRY WEIGHT LB./GAL	
	1.65 1.06	1,50 1.84 1.32	1.88 1.32	SLURRY YIELD CF/SKX	
	743/1368 695/737	200/300 193/355 200/264	230/431 200/264	TOTAL AMT. REQUIRED <u>SKX/CF</u>	
	1200'	Circ.	Circ.	FILL UP	-
	140°	80°	75°	BHT	
	8 3/4"	12 1/4"	17 1/2"	SIZE	
	100% excess	100% excess	100% excess	REMARKS	

NOTE:

Add 1/4# sx. Flocele to cement if necessary for lost circulation.
 Reciprocate production casing while cemeting

ں •

4. Reciprocate production casing while cemeting. Preceed cement with 500 gallons mud flush. Re-calculate cement volumes for production casing after open hole caliper is run.

с • Lab test production casing cement slurries prior to cementing.

6. 7. Condition mud to have low plastic viscosity and yield strength. Utilize top and bottom plugs. Pump top plug w/TFW.

### SPECIAL DRILLING EQUIPMENT

# TO BE IN OPERATION BEFORE DRILLING WOLFCAMP (5630')

# Totco Drilling Recorder (or equivalent)

Record depth and drilling rate, weight (hook load), rotary RPM, rotary torque, (or AMPS) stand pipe pressure, and pump SPM. Unit installed at driller's position.

### Flow Sensor and Pump Stroke Counter

Dial indicator and control unit at driller's position. High and low alarms for percent flow installed in dog house.

### Pit Volume Totalizer

Dial indicator at driller's position. Recorder with alarms for volume increase or decrease installed in dog house.

### Mud Gas Separator

Installed in mud return line.

## Swaco (Cameron) Adjustable Choke

Manifold along with a manually adjustable choke so that each choke can be isolated from flow stream. Turns in choke line to be kept to a minimum. Lines to be tied down to prevent excessive movement under flow conditions. Control console to be in view of driller.

### Double Deck Shaker

Installed for use from 1200' to 9433' to help reduce solids in the mud.

### Drilling Head

To allow for drilling ahead while encountering a pressure kick.

- Section and the section of the sec

### PROPOSED WELL PLAN SUTLING

# COUNTY Eddy\_\_\_\_STATE\_N.M.\_\_\_

. . . . .

# WELL NAME: Preston Federal No. 3

# LOCATION: 2180' FSL & 1980' FWL

ESI. <E: 3723'

34-205-24E

ESI. GL: 3708'

# 

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	-	DD TT L TNC	TYPE OF	HOLE	CAS	ING	NT	RE NT	MU (PPG)	D
JEPTH	FORMATION TOPS & TYPE	DR IL <b>L ING</b> PROBL <b>EMS</b>	FORMATION EVAULATION	SIZÉ		DEPTH	FRAC GRADIE	FORMAT PRESSU CRADIE	MU (PPG) VEIGHT	TYPE
	Grayburg Water	Fresh water & poss. lost circ	Geolograph Deviation O'-T.D.	17 1/2	54.5# (-55 S (3 3/8	tc	12-13	8.3- 8.5	8.5- 9.0	Spud -
ממנ_	San Andres dol	620' Fresh water & poss. lost circ.	•	<u>12 1/4</u>	36# K-55 STC 9 5/8	1200'	<u>12-13</u>	8.3- 8.5		Fres <del>h</del> Water
										-
2000	Glorieta ss Yeso dolo	2150' 2280'	Samples every 30' from 0-							-
			1500' Samples every 10' from 1500- TD							-
3000*			Mud logger 2000'-TD					-		-
_4000				11. (A 11.						
					1 0 1 1					-
5000*										-
	Wolfcamp dolo	5680'								
-6000										
7000										
	Císco ls.	7620'	GR-CNL-FDC-Cal TD-1200' 2"-5" Scales GR-DLL		26# E-55		15-16	8.5-	8.5-	Fres Wate Low Sol:
-8300	8300' TD		TD-1200' 2" & 5" Scales	8 3/4	+ 7"	8100'	h 2-10	8.8	9.0	Polyr

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CONTINENTAL OIL 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.

••

### SURFACE USE PLAN

Conoco Inc. Preston Federal No. 3 Section 34, T-20S, R-24E Eddy 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 all contractors and sub-contractors will be aware of all items of this plan.

#### 1. EXISTING ROADS.

- A. The proposed well site is 2180' FSL and 1980' FWL of Section 34, T-205, R-24E, Eddy County, New Mexico.
- B. Exhibit "A" is a portion of a New Mexico road map showing existing roads. Directions to the location are as follows: From Artesia go south on hiway 285 15 miles, turn west 8.5 miles, turn south 5.5 miles.
- C. Access roads are shown on Exhibits "B" and "C".
- D. Existing roads will be repaired as needed.

### 2. PLANNED ACCESS ROADS.

A. No new roads required.

### 3. LOCATION OF EXISTING WELLS

See Exhibit C.

- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES
  - A. Tank Batteries: None within one mile.
  - B. Producing Facilities: None within one mile.
  - C. Oil Gathering Lines: None within one mile.
  - D. Other Lines: None within one mile.
  - E. Rehabilitation: Pits will be backfilled and leveled as soon as practical to orginal condition. Commencement of rehabilitation operations will immediately follow removal of drilling and completion equipment from location. Rehabilitation of the surface is planned to be completed within 45 days from commencement.

### 5. WATER SUPPLY

Water will be hauled from Foster Water Station.

6. SOURCE OF CONSTRUCTION MATERIALS

Caliche will be hauled from a pit located in Section 31, T-19S, R-25E.

### 7. METHODS FOR HANDLING WASTE DISPOSAL

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 "D" 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 required.

9. WELL SITE LAYOUT

Exhibit "D" shows the relative location and dimensions of the well pad, mud pit, reserve pit, etc. The reserve pit will be lined with plastic. The pad and pits are staked.

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 rehabilitation of the surface is planned to be completed within 45 days from commencement.

### 11. OTHER INFORMATION

- A. Terrain: Rolling hills.
- B. Soil: Sandy.
- C: Vegetation: Grasses, brush.
- D. Surface Use: Grazing.
- E. Ponds and Streams: None within one mile.
- F. Water Wells: None within one mile.

Residences and Buildings: None within one mile. G.

Arroyos, Canyons, Etc.: Box Canyon 450' south of well site. н.

Sign identifying and locating well will be maintained Well Sign: Ι. at drill site with the spudding of the well.

Open Pits: All pits containing mud or other liquids will be fenced. J.

Archaeological Resources: See archaeological report. Κ.

## 12. OPERATOR'S REPRESENTATIVE

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

> Production and Drilling M. L. Wise P.O. Box 460 Hobbs, New Mexico 88240 Phone: 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 Conoco Inc. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Drilling Superintendent







