	-		SUBMIT IN TR	IPI 'E*	Form approved	J.
Form 9-331 C (May 1963)	UNITED S	STATES	(Other instruc reverse si	tions 👉 🍃	Budget Bureau	No. 42-R1425.
DF	PARTMENT OF			·	5. LEASE DESIGNATION A	ND SERIAL NO.
	GEOLOGICA		- 		NM 801	
AFPLICATION FO			N OR PLUG B	ACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
AFFLICATION TO 1a. TYPE OF WORK	K TERMIT TO B					
DRILL X	D	eepen 🗌	PLUG BAC	ск 🗋 📋	7. UNIT AGREEMENT NA	ын;
b. TYPE OF WELL OIL [Y] GAS	] <b>_</b> _	SIN ZON	GLE X MULTIP	LE T	8. FARM OR LEASE NAM	E
OIL WELL CAS WELL   2. NAME OF OPERATOR	OTHER		n CES DOND		Phillips_Fe	deral
	Penr	izoil Compan	у		9. WELL NO.	: -
3. ADDRESS OF OPERATOR		Midland T			4 10. FIELD AND POOL, OR	WILDCAT
P. U 4. LOCATION OF WELL (Report Io	. Drawer 1828 -	- MICLANC, I	exas /9/02 ate requirements.*)			yburg-San And
At surface	FNL & 2310' FE		一つ戸りが日	3-F	11. SEC., T., E., M., OR BI AND SURVEY OR ARE	LK.
At proposed prod. zone				9		
14. DISTANCE IN MILES AND DIR.	DOTION PROM NEADERT OF	U V			Sec. 33, 1- 12. COUNTY OR PARISH	17-S, R-33-E
14. DISTANCE IN MILES AND DIR.	SCHON FROM MEARENT TO			RVEY	Lea	N. M.
15. DISTANCE FROM PROPOSED*		16. Ŋp.	GF WURES IN LEASE	1. 17. NO. OF	ACRES ASSIGNED S WELL	
LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit l	ine, if any) 330	ı	120		40	
18. DISTANCE FROM PROPOSED LC TO NEAREST WELL, DRILLING,	CATION* COMPLETED,	1	POSED DEFTH	20. ROTARY	T OR CABLE TOOLS	
OR APPLIED FOR, ON THIS LEASE 21. ELEVATIONS (Show whether DI		S.W.	4,500'	1	Rotary 22. Approx. Date WOR	K WILL START*
21. ELEVATIONS (Show whether D)	·, iti, dit, ett.)	4133'	G.L.		4-15-78	·
23.	PROPO		CEMENTING PROGR.	AM		
SIZE OF HOLE SI	ZE OF CASING WI	SIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMEN	<u>т</u>
	3 5/8"24	# K-55	400'	400_s;	x New casir	ig used
7 7/8" 4		.5# K-55	_4,500'	<u> </u>	<u>x Used casi</u>	ng
·					<i>i</i>	
5	SEE ATTACHED NO	TE FOR COMPL	IANCE WITH NTL	-6	While a start	
						- ,
J			<u> </u>			
Commence Fund	d, this di- 6-21-74	ട് കാലംപ	CONL			
Expires_	6-21-78				-	
IN ABOVE SPACE DESCRIBE PROPO		alle to duanon of h	lug back give data on t	present produ	active zone and propose	d new productive
zone. If proposal is to drill 🖉	gleepen directionally, gi	ve pertinent data o	n subsurface locations a	and measured	and true vertical depth	is. Give blowout
preventer program, if any.					· · ·	<u></u>
V. CAR	ney	Ad	dv. Petroleum	Engineer	PATE 2-13	3-78
SIGNED						
(This space for Federal or	State office UVe)			. <del></del>		<u> </u>
PERMIT NO.			APPROVAL DATE		APPROVE	
		10 T T L Z				
APPROVED BY CONDITIONS OF APPROVAL, 1F >	ANY :	TITLE			MAR 21 197	3
					Q. a. f.	
				ACTI	ING DISTRICT ENG	INEER

RECEIVED

MAR 2 8 1978 OIL CUNSERVATION COMM, HOBBS, N. M.

#### PENNZOIL COMPANY

Phillips Federal No. 4 990' FNL & 2310' FEL Sec. 33, T-17-S, R-33-E Lea County, New Mexico

#### LEASE NM 801

The following is submitted in compliance with NTL-6 in support of Pennzoil's Application To Drill the Phillips Federal No. 4 well.

- 1. The surface formation is quaternery.
- 2. The important geologic markers are:

Ma	r	ĸ	e	r	S
	_	_		_	

Depth

Anhydrite	1,290'
Yates	2,645'
Seven Rivers	3,025'
Queen	3,630'
Grayburg Shale	4,280'
Premier Sand	4,305'
San Andres	4,354'

3. The estimated depths of the anticipated water, oil & gas formations are:

Fresh water	50' to 300'
Oil & gas	4,305'-4,350'
Salt water	San Andres below 4,350'

4. See Item #23 on Form 9-331 C

5. See attached Blow Out Preventer schematic to be installed after the surface casing is set. The preventers will be tested prior to drilling below the surface casing. Operating of the preventers will be performed at least once each 24 hours.

A kill line & choke manifold will be installed.

- 6. See the attached mud program.
- 7. The following auxiliary equipment will be used during the drilling operations:
  - A. Kelly Cock
  - B. Flowline sensor to check fluid returns.
  - C. A full opening valve & sub will be on the floor at all times during drilling & completion operations.
- No drill stem testing or coring is planned. Good quality Resistivity 8. & Porosity logs will be run from total depth to approximately 3000'.
- No abnormal pressures & temperatures are anticipated in this known 9. area. Breathing apparatus equipment (Scott Air Packs) will be available should we encounter the presence of hydrogen sulfide gas.
- The starting date depends on Pennzoil's securing this permit & the 10. securing of a competent drilling contractor. Planned starting date is April 15, 1978. Drilling operations should last about 10 days, with completion work consuming an additional 7 days.

## PENNZOIL COMPANY

Phillips Federal No. 4 990' FNL & 2310' FEL Sec. 33, T-17-S, R-33-E Lea County, New Mexico

LEASE NM 801

Proposed Mud Program:

Surface hole to 400'±

Drill with water with gel and lime added.

## Production to 4,500'±

.....

Drill out below 8 5/8" casing with a 32 to 34 sec/1000 cc viscosity native mud to control Red Bed section and add saturated brine water to the system around 1,800' to prevent eroding salt section.

For logging, the hole should be mudded up with a low solids salt gel type drilling fluid with the following characteristics:

Weight	10.0 to 10.2#/gal.
Viscosity	36 - 38 sec/1000 cc
Water loss	15 cc or less

The filter cake build-up should be under control prior to drilling into the Premier Sand section.

MAR281978 OIL CONSERVATION HOWING



₩2 10 X 10 TO THE INCH 46 0700 KEUFFEL & ESSER CO.

REDERVED MAR**28**1976 OIL CONSLIEVATION LOOMM. HOBBS, N. M. LOOMM.



## NEW \_XICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

-----

Form 07-102 Supersedes C-128 Effective 1-1-65

		All distances must be fro	om the outer boundaries o	f the Section	
Operator PENN	ZOIL COMPANY		Phillips -	Federal	Well No. 4
Unit Letter B	Section 33	Township 17 South	Bonnee 33 East	Crunty Lea	
Actual Footage Loc 990		orth line and	2310	East	
Ground Level Elev. 4133	Producing Fo		Maljamar - H	et mon the	Line L'elimite Arrester <b>40</b> Arres
1. Outline th	e acreage dedica	ated to the subject well			
	an one lease is 1d royalty).	dedicated to the well,	outline each and id	entify the ownership	thereof (both as to working
dated by c	ommunitization,	unitization, force-poolin	g.etc?		f all owners been consoli-
Yes	No If a	nswer is "yes," type of	consolidation		
	is "no?' list the [ necessary.)	owners and tract descri	ptions which have a	ictually been consolid	lated. (Use reverse side of
No allowat	ole will be assign			,	nmunitization, unitization, n approved by the Commis-
	1	911111	111%	T	CERTIFICATION
		- 066	1,2310'	tained h	certify that the information con- erein is true and complete to the ny knowldge and belief.
	+		1_2	Elestitur.	Raney , ed Petroleum Engineer
	1			, and make	
	t 4		l i	1 often	il Company ry 13, 1978 ·
	<u> </u>				
				shown or notes of under my is true	certify that the well location in this plat was plotted from field actual surveys made by me or supervision, and that the same and correct to the best of my ge and belief.
	- <del></del>			Ibre Jave	yed.
	1			Registered	ry 30, 1978 Fromssteriel Fragmeer d Surveyor
	l t		+	Jan h	V. Chean
0 330 660 "	90 1320 1650 198	<b>30 2310 2640 200</b> G	1500 1000		1559



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

PENNZOIL COMPANY WELL NO. 4, PHILLIPS FEDERAL 990' FNL & 2310' FEL SEC. 33, T-17-S, R-33-E LEA COUNTY, NEW MEXICO LEASE NM 801

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal can be made of the environmental effects associated with the operation.

- 1. EXHISTING ROADS:
  - A. Exhibit "A" is a portion of the general highway map of Lea County, showing the location of the proposed well as staked. Go nineteen (19) miles west of Lovington on U.S. Highway 82 to the intersection of the county road on the west side of Sec. 28, T-16-S, R-33-E. Go south on the county road approximately six and one-quarter (6 1/4) miles to the intersection of a black top road (east-west), turn right (west) thru cattle guard on black top road, then turn left (south) immediately on existing lease road. Go south on existing road approximately one-half (1/2) mile to second road on right, turn right (south) on new road for 1/10 mile to proposed location.
  - B. Exhibit "B" is a plat showing all existing roads within a one mile radius of the wellsite, and the planned access road.
  - C. A portion of the existing lease road, beginning near the center of section 33 and extending 1,000 feet southeast, will be repaired. Repairs will consist of replacing the eroded caliche surface with a new caliche surface 6 inches deep and 12 feet wide, watered and compacted.
- 2. PLANNED ACCESS ROADS:
  - A. Length and Width: New road required will be 12 feet wide and 500 feet long. This new road is labeled and color coded red on Exhibit "B". The center line of the proposed new road from the beginning to the wellsite, has been staked and flagged with the stakes being visible from any one to the next.

- B. <u>Surfacing Material</u>: Six inches of caliche, water, compacted, and graded.
- C. Maximum Grade: 3 percent
- D. Turnouts: None required.
- E. <u>Drainage Design</u>: New road will have a drop of 6 inches from center line on each side.
- F. Culverts: None required.
- G. Cuts and Fills: None required.
- H. Gates, Cattleguards: No gates or cattleguards are required.
- 3. LOCATION OF EXISTING WELLS:
  - A. Existing wells within a one-mile radius are shown on Exhibit "B".
- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:
  - A. Location of the existing tank battery and flow line from well No. 1 are shown on Exhibit "B". The flow line is not buried.
  - B. If the proposed well is completed for production the location of the new flow line to the existing tank battery is shown on Exhibit "B". The line will not be buried. The center line of the proposed new flow line has been staked and flagged to the north boundary of Section 33. The tank battery is located in Unit F, Sec. 28, T-17-S, R-33-E.
- 5. LOCATION AND TYPE OF WATER SUPPLY:
  - A. Water for drilling will be purchased from Mr. Gary Caviness and transported by pipeline to the wellsite. The pipeline will be layed along the road as shown on Exhibit "C", together with the water well location. The water line will not cause additional surface disturbance and will be removed after drilling is completed.
- 6. SOURCE OF CONSTRUCTION MATERIALS:
  - A. Caliche for surfacing the road and the well pad will be obtained from an existing pit in the NE/4 NE/4 section 31, T-17-S, R-33-E. The pit is on land owned by Caviness Cattle Account is shown on Exhibit "B".

- 2 -

#### 7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the drilling pits.
- 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. Location of trash pit is shown on Exhibit "D". Alternate all trash, junk and other waste material will be contained to prevent scattering and will be removed and deposited in an approved sanitary landfill.
- F. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.

#### 8. WELLSITE LAYOUT:

- A. Exhibit "D" shows the relative location and dimensions of the well pad, mud pits, reserve pit, trash pit, and location of major rig components.
- B. Only minor levelling of the wellsite will be required. No significant cuts and fills will be necessary.
- C. The reserve pit will not be plastic lined.
- D. The pad and pit area has been staked and flagged.

#### 9. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations all equipment and other material not needed for operations will be removed. Pits will be filled and location cleaned of all trash and junk to leave the wellsite in an aesthetically pleasing condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. After abandonment of the well, surface restoration will be in accordance with the agreement with the surface owner. Pits will be filled and location will be cleaned. The pit area, well pad, and all unneeded access road will be ripped to promote revegetation. Rehabilitation should be accomplished within 90 days after abandonment.

## 10. OTHER INFORMATION:

- A. <u>Topography</u>: Land surface is undulating to gently rolling and duny. From an elevation of 4133 feet at the wellsite, the land surface slopes gently toward the southwest at about 200 feet per mile.
- B. Soil: Soil is a deep fine sand underlain by caliche.
- C. <u>Flora and Fauna</u>: The vegetative cover is generally sparse and consists of mesquite, yucca, shinnery oak, sandsage and perennial native range grasses. Wildlife in the area is that typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, dove, quail, and an occasional antelope.
- D. <u>Ponds and Streams</u>: There are no rivers, streams, lakes or ponds in the area.
- E. <u>Residences and Other Structures</u>: The nearest occupied dwelling is a ranch house 2.0 miles northeast of the wellsite. The nearest water well is 1/2 mile east.
- F. <u>Archeological</u>, <u>Historical</u> and <u>Cultural</u> <u>Sites</u>: None observed in the area.
- G. Land Use: Grazing and hunting in season.
- H. <u>Surface Ownership</u>: Wellsite is on Fee surface and owned by Caviness Cattle Account. Approximately 500 feet of the new road will be on fee surface.

## 11. OPERATOR'S REPRESENTATIVE:

The field representatives responsible for assuring compliance with the approved surface use and operations plan are as follows:

Lloyd J. Murphy P. O. Box 2404 Hobbs, New Mexico 88240 Office phone: 505-676-2281 Car phone: 505-676-3362 Home phone: 505-392-8350

- 4 -

J. C. Raney P. O. Drawer 1828 Midland, Texas 79702

Office phone: 915-682-7316 Home phone: 915-694-6991

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

February 13, 1978 Date

Advanced Petroleum Engineer Title





# NEW - ICO OF CONCEPTATION COMMISSION WELL LOCATION AND ACCEPTAGE DEDICATION PLAT

	11A	distances must be tr-	m the ster boundaries	of the Section	
Operator PENNZOI	L COMPANY	1	Phillips -	- Federal	Well first 4
Unit Letter Sect B	tion 11:wn. 33	17 South	33 East	Lea	
Actual Footage Location					
	t from the North	line a. i	2310	teet tracture Eas	t Jine
Ground Level Elev. 4133	Producting Formatian	1	ζα,		Lednate F Acte spet
	San Andre		Maljamar -	I	40 A res
	reage dedicated to one lease is dedic yalty).				aip thereof (both as to working
	unitization, unitiza	tion, force-poolini			s of all owners been consoli-
this form if nec No allowable w	essary.) ill be assigned to t	he well until all i	nterests have been	consolidated (by	olidated. (Use reverse side of communitization, unitization, been approved by the Commis-
Proposed To Existin	ng battery	066	211		CERTIFICATION reby certify that the information can- ed herein is rue and complete to the of my knowledge and belief.
in Secz Prop	osed Well	New	Road	E sata	nced Petroleum Enginee
	Leas	e Line -	-7 Leas NM 80	5 C E 214	zoil Company uary 13, 1978
- S	L EXHIBIT " PENNZOIL CO 4, PHILLIPS FE 990' FNL & 23 EC. 33, T-17-S LEA COUNTY, NE Scale: 1" =	MPANY DERAL, NM 801 10' FEL , R-33-E W MEXICO		I her show notes under is tr know Unte for Jan Hompton	roby certify that the well location in on this plat was platted from field is of actual surveys made by me or in my supervision, and that the same up and correct to the best of my ledge and belief. <b>uary 30, 1978</b> rol Etablished Elementer Limit Surveyor
330 080 1	320 1650 1980 231	2640 2700	1500 1000		1559

i

#### PENNZOIL COMPANY

Phillips Federal No. 4 990' FNL & 2310' FEL Sec. 33, T-17-S, R-33-E Lea County, New Mexico

#### LEASE NM 801

## AGREEMENT WITH LAND SURFACE OWNER

The Court House Records in Lovington, New Mexico reveal that the surface on which the proposed well is located is owned by the Caviness Cattle Account, Causey, New Mexico 88113.

On Monday, January 30, 1978 I met Mr. Gary Caviness of Maljamar, N. M., one of the brothers that owns the land on which the proposed well will be located at the drilling site. I discussed the drilling of this well and surface damages for the drilling pad and road (maximum amount of disturbed area is less than 2 acres). Mr. Caviness and I agreed on the amount that he would be paid for surface damages. Mr. Caviness and I agreed that in the event the well was non-productive or when the well was eventually plugged and abandoned, that Pennzoil Company would rip the drilling pad and unneeded access road.

J. Money

## HOBBS DISTRICT

Pennzoil Company No. 4 Phillips Federal NW¼NE¼ sec. 33-17S-33E Lea County, N. M. Above Data Required on Well Sign

## CONDITIONS OF APPROVAL

- 1. Drilling operations authorized are subject to compliance with the attached General Requirements for Drilling Operations on Federal Oil and Gas Leases, dated January 1, 1977.
- 2. Notify this office (telephone (505) 393-3612) when the well is to be spudded and in sufficient time for a representative to witness all cementing operations. Attached are names and telephone numbers of Geological Survey and Bureau of Land Management personnel who are available for consultation during construction, drilling, completion, and rehabilitation activities.
- 3. Immediate notice is required of all blowouts, fires, spills, and accidents involving life-threatening injuries or loss of life.
- 4. Secure prior approval of the District Engineer for variance from the approved drilling program and before commencing plugging operations, plug-back work, casing repair work, corrective cementing operations, or suspending drilling operations indefinitely.
- 5. Blowout prevention equipment is to be installed, tested, and in working order before drilling below the surface casing and shall be maintained ready for use until drilling operations are completed.
- 6. Operations must be in compliance with the provisions of the landowner agreement concerning surface disturbance and surface restoration.
- 7. 8-5/8" surface casing should be set in the Rustler Anhydrite formation and cement circulated to the surface. If surface casing is set at a lesser depth, the  $4\frac{1}{2}"$  casing must be cemented from the casing shoe to the surface or cemented to the surface through a stage tool set at least 50 feet below the top of the Rustler, after cementing around the shoe with sufficient cement to fill to the base of the salt section.