l orm 3160-3 (November 1983) (formerly 9-331C)	DEPARTMEN	TED STATES T OF THE II	5 HO NTERI	). BCX: <b>1980</b> B28, New M Or	PLICATE ,ons on			
	FOR PERMIT	TO DRILL, D	) EEPEN	N, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAR		
1a. TYPE OF WORK DRI b. TYPE OF WELL		DEEPEN [	J À	PLUG BA		7. UNIT AGREEMENT NAME		
OIL C GA WELL C W	BELL OTHER eum Corporatio		STNG ZONI	LE MULT. ZONE		8. FARM OR LEASE NAME Freida "AFR" Federal 9. WELL NO. 30.235-3		
105 South Fo LOCATION OF WELL (Re	urth Street, A					10. FIELD AND POOL, OR WILDCAT		
At surface 1980' FNL an		In accordance with		te requirements.")		Diamondtail Delaware		
At proposed prod. zone Same	2	I J G				AND SURVEY OR AREA		
I4. DISTANCE IN MILES A	ND DIRECTION FROM NEA	BEST TOWN OF POST	OFFICE*			Sec. 3-T23S-R32E 12. COUNTY OR PARISH   13. STATE		
	thwest of Jal,	New Mexico				Lea NM		
15. DISTANCE FROM PROPU- LOCATION TO NEAREST PROPERTY OR LEASE LI (Also to nearest drig.	INE, FT. . unit line, if any)		16. NO. C	OF ACRES IN LEASE	17. NO. 0 TO T	OF ACRES ASSIGNED HIS WELL 40		
S. DISTANCE FROM FROM TO NEAREST WELL, DR OR APPLIED FOR, ON THIS	ILLING, COMPLETED,			OSED DEPTH	20. ROTA	ARY OR CABLE TOOLS		
1. ELEVATIONS (Show whe			92(	00'		Rotary 22. APPROX. DATE WORK WILL STAR		
	<u>6' GR</u>					ASAP		
3.		PROPOSED CASIN	IG AND C	EMCARLSBAD	CONT	ROLLED WATER BASIN		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	OT	SETTING DEPTH		QUANTITY OF CEMENT		
17 1/2"	13 3/8"	<u>54.50# J-55</u>		1200'		sacks circulated		
<u>11"</u> 7 7/8"	<u>     8  5/8"                            </u>	<u>32# J-55 &amp;</u> 15.5# J-55		<u>4630'</u> TD		<u>sacks (tie back)</u> sacks (tie back)		
formations. Approximatel commercial,	Approximately y 4630' of int	1200' of su ermediate ca ing will be	rface sing v run an	casing will will be set a	be set and ceme	aware and intermediate and cement circulated. ent circulated. If equate cover, perforate		
MUD PROGRAM:	FW/GEL to 120	)'; Brine to	4630	', cut Brine	to TD.			
BOPE PROGRAM	: BOPE will be for operatio		A G S	13 3/8" casi ENERAL SU PECIAL STIP	DIECT	TO ENTS AND		
ABOVE SPACE DESCRIBE	rill or deepen directiona	proposal is to deepen lly, give pertinent (	n or plug data on s	back, give data on p ubsurface locations a	resent produ nd measured	uctive zone and proposed new producti I and true vertical depths. Give blowo		
SIGNED	- R. May	TITLI	<u>е Ре</u>	ermit Agent		DATE 6/2/93		
(This space for Federa	ll or State office use)							
PERMIT NO.			APE					
				PROVAL DATE		AUG 1 9 1993		

#### \*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410

# **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

## WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

perator				Lease			Well No.
YATES		CORPORATIO	)N	FREIDA A	FR FEDERAL		2
it Letter	Section	Township		Range		County	<u> </u>
G	3	<u>23 SC</u>	DUTH	32 EAST	NMF	M LE	A
1090		11000					1
1980 xund level Elev.	feet from the	NORTH ucing Formation	line and	1980	feet fro	m the EAST	line
3706.	1	-		DIAMONOT	AR DELAN	10 m	Dedicated Acreage:
	e the acreage dedi	LAWARE	well by colored per	cil or hachure marks on t			40 Acres
2. li mor	re than one lease is	dedicated to the we	ll, outline each and	identify the ownership th	ereof (both as to wor	king interest an	d royalty).
3. If mor	e than one lease of	different ownership	is dedicated to the	well, have the interest of	fall owners been con	solidated by co	mmunitization
unitiza	roord to too booting						
If answer	Yes ris "no" list the ow	No If	answer is "yes" typ	e of consolidation			
	I II DECCERSITY.						
No allow	able will be assign	ed to the well until	all interests have be	en consolidated (by com	munitization, unitizati	on, forced-pool	ing, or otherwise)
	BOB-SCADORIG UNIT	ennenang such in	terest, has been app	roved by the Division.			
	I			l I		OPERA	TOR CERTIFICATION
	1					[	y certify that the information
	-					contained her	ein in true and complete to t
						best of my kno	wledge and belief.
			_			Signature	
<b>`</b> .	-					· (•)	H R Ma
			<u> </u>	<u> </u>		Printed Name	
						Clifton	R. May
						Position	
	1					Permit .	Agent
	1					Company	
	-			1980	)'	Yates P	etroleum Corporat
	ł					Date	
			NM-	7704		6/2	/93
						SURVE	YOR CERTIFICATION
	i					<b>.</b>	
	i					I hereby cert	ify that the well location show was plotted from field notes
	i			1		actual survey	is made by me or under i
	i					supervison, a	ind that the same is true a
	i			1			<b>he best of my knowledge</b> a
	ľ			1		belief.	
				1		Date Surveyo	
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YATES PETROLEUM CORPORATION FREIDA "AFR" FEDERAL #2 1980' FNL AND 1980' FEL SECTION 3-T23S-R32E LEA COUNTY, NEW MEXICO

1. The estimated tops of geologic markers are as follows:

Bell Canyon 4 Cherry Canyon 5	150' Bone St 510' TD 370' 900' 580'	oring 8850' 9200'
----------------------------------	---	----------------------

The estimated depths at which anticipated water, oil or gas formations are expected 2. to be encountered:

> Water: 250-750 Oil or Gas: 7680' and 8850'

Pressure Control Equipment: BOPE will be installed on the 13 3/8" casing and rated 3. for 3M BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout Preventor controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventors will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B.

Auxiliary Equipment:

- Auxiliary Equipment: Kelly cock, pit level indicators, and a sub with full Α. opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when kelly is not in use.
- THE PROPOSED CASING AND CEMENTING PROGRAM: 4.

<u>Hole Size</u>	<u>Casing Size</u>	<u>Wt./Ft</u>	<u>Grade</u>	<u>Thread</u>	<u>Coupling</u>	Interval	<u>Length</u>
17 1/2"	13 3/8	54.50	J55	8R	ST&C	0-1200	1200
11"	8 5/8	32	J55	8R	ST&C	0-4200	4200'
11"	8 5/8	32	HC-80	8R	LT&C	4200-4630	430'
7 7/8"	5 1/2	17#	J55	8R	LT&C	0-1500	1500'
7 7/8"	5 1/2	15.50#	J55	8R	LT&C	1500-6700	5200'
7 7/8"	5 1/2	17#	J55	8R	LT&C	6700-9200	2500'

Α. Casing Program: (All New)

Minimum Casing Design Factors: Callapse 1.125, Burst 1.0, Tensile Strength 1.80

#### B. CEMENTING PROGRAM:

Surface casing: 700 sx. Pacesetter Lite "C" w/ 1/4# Cellocel & 3% CaClz (wt. 12.7 ppg. Yield 1-84 ft3) + 250 sx. Class "C" w/ 2% CaClz. (wt. 14.8 ppg., Yield 1.32 ft3) Cement calculated to circulate to surface.

Intermediate Casing: 1200 sx. Pacesetter Lite "C" w/ 1/4# Cellocel + 3% CaClz. (wt. 12.7 ppg. Yield 1-84 ft 3) + 250 sx. Class "C" w/2% CaClz. (wt. 14.8 ppg. Yield 1.32 ft3) Cement calculated to circulate to surface.

Production Casing: 1st Stage: 150 sx. "H" w/8# sack CSE, + 0.6% CF-14 +5# sack Gilsonite (wt. 13.6 ppg Yield 1.76 ft3) Cement calculated to 8000' DV tool set at approx. 8000 ft.

2nd Stage: 500 sacks "C" w/5# sack Gilsonite, 1/4# sack Cellocel, + 0.5% CF-14. (wt. 12.5 ppg Yield 2.04 ft3) + 200 sacks "H" w/0.5% Cf-14 (wt. 15.6 ppg Yield 1.18 ft3). Cement calculated to tie back to intermediate csng. 100'.

5. Mud Program and Auxiliary Equipment:

<u>Interval</u>	<u>Түре</u>	<u>Weight</u>	<u>Viscosity</u>	Fluid Loss
0-1200	FWGEL	8-4 8-9	32-36	N/C
1200-4630	Brine	10-0	28	N/C
4630-9200	cut brine	8-9 9-3	28	<15cc

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blow out will be available at the well site during drilling operations. Mud will be checked hourly by rig personnel.

#### 6. EVALUATION PROGRAM:

Samples:	Every 10' from surface casing to TD
Logging:	CNL - LTD from TD to casing with GR-CNL up to surface; DLL w/RXO
	from TD to casing
Coring:	None anticipated
DST's:	Any tests will be based on the recommendations of the well site geologist
	as warranted by drilling breaks and shows

### FREIDA "AFR" FEDERAL #2 Page 3

7. Abnormal Conditions, Bottom hole pressure and potential hazards: Anticipated BHP: From: 0 TO: 1200 Anticipated Max. BHP: 450 From: 1200 TO: 4630 Anticipated Max. BHP: 1685

From: From:	 TO: 4 TO: 7	 Anticipated Max. Anticipated Max.		PSI PSI

PSI

Abnormal Pressures Anticipated: None

Lost Circulation zones anticipated: None

H2S Zones Anticipated: None

Maximum Bottom Hole Temperature: 140F

8. ANTICIPATED STARTING DATE:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 15 days to drill the well with completion taking another 20 days.



- 2.
- Choke outlet to be à minimum of 3 " diameter. 3.

Statistics -

- Kill line to be of all steel construction of 2" minimum diameter. All connections from operating manifolds to preventers to be all st ·4. hole or tube a minimum of one inch in diameter.
- The available closing pressure shall be at least 15% in excess of t 5.
- . required with sufficient volume to operate the B.O.P.'s. 6. All connections to and from preventer to have a pressure rating equ
- Inside blowout preventer to be available on rig floor. 8.
- 9.
- Operating controls located a safe distance from the rig floor Hole must be kept filled on trips below intermediate casing.

EXHIBIT