## SUBMIT IN TRIPLICATE.

(Other instructions on

FORM APPROVED OMB NO. 1004-0136

**UNITED STATES** DEPARTMENT OF THE IN BUREAU OF LAND MANAGE

DOINIES	reverse st	Expires: February 28, 1995			
DEPARTMENT OF THE INTERIOR					
AND MANAGEN	MENT	NMSF-080382A			
RMIT TO DR	ILL OR DEEPEN	6. IF INDIAN, ALLOTTER OR TRIBE NAME			
DEEPEN		N/A  7. UNIT AGREEMENT NAME  N/A / 32( \$			
	SINGLE MULTIPE	O. FARM OR LEASE NAME, WELL NO.			
	(2)	Schwerdtfeger 17 1 E			
<u>.                                    </u>		9. AN WELL NO. 30-04-5-30399			
1700' FEL	•	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA			
ST TOWN OR POST OF	FICE*	12. COUNTY OR PARISH   13. STATE			
eld, NM		San Juan NM			
940'	2081.12	17. NO. OF ACRES ASSIGNED TO THIS WELL.			
125'	6,860	20. ROTARY OR CABLE TOOLS ROTARY			
<u> </u>		Feb. 15, 2001			
	OF THE INT AND MANAGEM RMIT TO DR DEEPEN  ) 687-8357  79702-05  accordance with an 1700' FEL  st town or post or eld, NM  940' 125'	OF THE INTERIOR  AND MANAGEMENT  RMIT TO DRILL OR DEEPEN  DEEPEN  SINGLE  SINGLE  OF ACRES IN LEASE  16. NO. OF ACRES IN LEASE  2081.12  19 PROPOSED DEPTH			

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

WEIGHT PER FOOT SETTING DEPTH GRADE, SIZE OF CASING

SIZE OF HOLE QUANTITY OF CEMENT 12-1/4" 8-5/8" (J-55) 325' ≈270 cu ft & to surface\_ 24# 6,860' ≈2394 cu ft & to surface\_ 7-7/8" 4-1/2" (K-55) 11.6#

PROPOSED CASING AND CEMENTING PROGRAM

This corres is analysis to technical and procedural review pursuant to 43 CFR 3166.3 and appeal pursuant to 43 OFR 3165.4.



CRILLIUM OFFRANDAS AUTHORIZED ARE SURFICET TO COMPLIANCE WITH ATTACHED "DENERAL REPUBLICATION

SIGNED	Rui Coost	Consultant	(505) 466-8120	DATE	10-14-00
•	Federal or State office use)	APPROVAL DATE	4/1	9/01	
Application approval		holds legal or equitable title to those rights in t	the subject lease which would e	ntitle the applicant t	o conduct operations
APPROVED BY	/s/ Joel Farrell	пп.е	D.A.		

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

## State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-102 Revised February 21, 1994

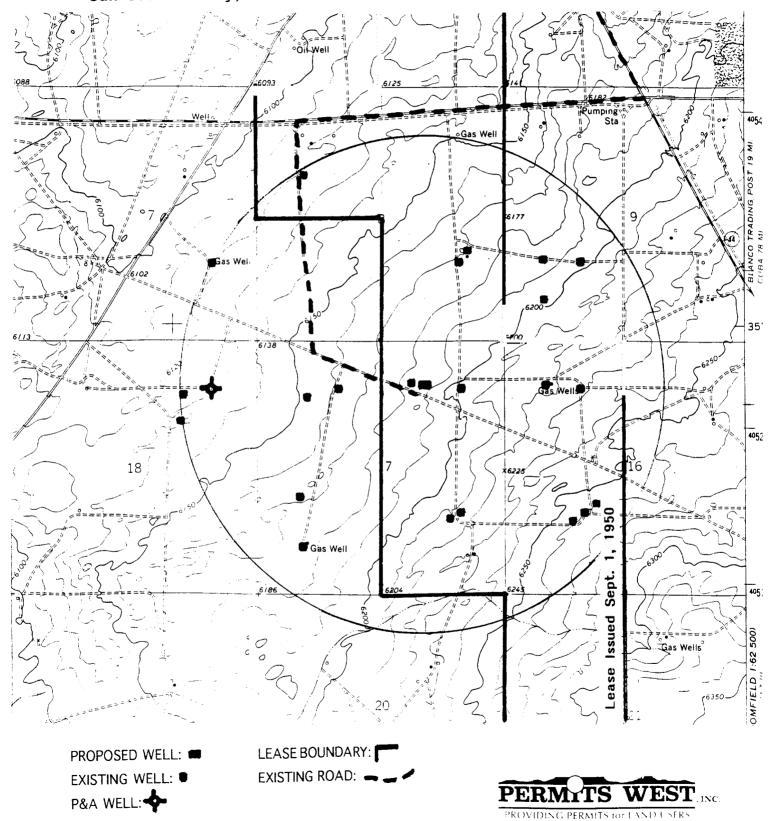
Instructions on back

Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

District IV O Box 2088, Santa Fe, NA	1 87504-2088	Sam	a re, NM	87504-2088 215 C	The Man	· · · · —	e Lease - 3 Copies
		CATION .	AND ACR	EAGE DEDI	CATION PI		ENDED REPORT
30-0(5-	per	<sup>1</sup> Pool Code 1 5 9 9		ASIN DAKO	<sup>3</sup> Pool Na		
Property Code			' Property SCHWERDTF				・Well Number 1党
70GRID №. 14021	'Operator Name - MARATHON OIL COMPANY						'Elevation 6186 _
	<u> </u>		<sup>10</sup> Surface	Location		<del></del>	·
UL or lot no. Section . B . 17	Township Range . 27 N . 11 W	1 1	Feet from the	North/South line	Feet from the . 1700	East/West line	County San Juan
	11 Bot	tom Hole	Location If	Different Fro	m Surface	t	
UL or lot no. Section	Township Range	Lot Idn I	Feet from the	North/South line	Feet from the	East/West line	County
" Dedicated Acres " Joint	t or Infill 14 Consolidation	on Code 15 Ordo	er No.				
	WILL BE ASSIGNE OR A NON-ST			ON UNTIL ALL			NSOLIDATED
	9°53'W S€c.	17 17	06t	1700'	I hereby certification of the second structure and complete structure and complete structure and complete structure structure and correct to second structure structur	BRIA  CONS  OCT. 1  EYOR CER  fy that the well location field notes of act my supervision, and to the best of my belie  16 Sop. 200  Labor Professional  AREA STATES  AREA STATES  Labor Professional  AREA STATES  Labor Professional  Labor Professional  Labor Professional  Labor Professional  Labor Professional  Labor Professional  Labor Professional	N WOOD  SULTANT  4, 2000  TIFICATION  on shown on this plat  ual surveys made by hat the same is true  f.

Marathon Oil Company Schwerdtfeger 17 1 E 790' FNL & 1700' FEL Sec. 17, T. 27 N., R. 11 W. San Juan County, New Mexico



Marathon Oil Company Schwerdtfeger 17 1 E 790' FNL & 1700' FEL Sec. 17, T. 27 N., R. 11 W. San Juan County, New Mexico

## 3. PRESSURE CONTROL

The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. (A typical 2,000 psi model is on PAGE 3.) An 8-5/8" x 11" 2,000 pound double ram BOP system with a choke manifold and mud cross will be tested to 200 psi and then to 2000 psi. Upper and lower Kelly cocks with valve handle and subs to fit all drill string connections which are in use will be available on the rig floor.

Tests will be run when:

- 1) installed
- 2) anytime a pressure seal is broken (test only affected equipment)
- 3) at least every 30 days
- 4) blind & pipe rams will be activated each trip, but no more than daily

BOP systems will be consistent with API RP 53. Blowout preventers will be installed and tested before drilling surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated daily to ensure good mechanical working order and this inspection recorded on the daily drilling report. Preventers and casing will be pressure tested before drilling casing cement plugs. Maximum expected bottom hole pressure is  $\approx 2,800$  psi. BOP and mud system will control pressure.

## 4. CASING & CEMENT

Hole Size	O.D.	Weight (lb/ft)	<u>Grade</u>	<u>Age</u>	Connections	GL Setting Depth
12-1/4"	8-5/8"	24	J-55	New	8rd, ST&C	325'
7-7/8"	4-1/2"	11.6	K-55	New	8rd, LT&C	6,860'

Surface casing will be cemented to surface with  $\approx 270$  cu. ft. ( $\approx 230$  sx) Class B Neat + 1/4 lb/sk cello-flake + 2% CaCl<sub>2</sub>. Yield = 1.27 cu. ft./sk. Weight = 15.2 lb/gal.



Marathon Oil Company Schwerdtfeger 17 1 E 790' FNL & 1700' FEL Sec. 17, T. 27 N., R. 11 W. San Juan County, New Mexico

Conventional centralizers will be set on the bottom two joints and every fourth joint to surface.

Production casing hole will be cemented to surface as follows. DV @ 4,000'.

First stage Lead will be cemented to 4,000' with 828 cu. ft. (600 sx) 50:50 Poz + 5 lb/sk gilsonite + 2% gel + 1/4 lb/sk cello-flake, dispersant, and FLA. Yield = 1.38 cu. ft./sk. Weight = 13.5 lb/gal. Excess = 25%.

Second stage Lead will be cemented to surface with 1440 cu. ft. (500 sx) Class B or H + 10 lb/sk gilsonite + 4% gel + 1/2 lb/sk cello-flake + 3% Econolite. Yield = 2.88 cu. ft./sk. Weight = 11.4 lb/gal. Excess = 50%

Second stage Tail will be cemented to 3,600' with 126 cu. ft. (100 sx) Class B or H Neat + 1/4 lb/sk cello-flake + 2% CaCl. Yield = 1.26 cu. ft./sk. Weight = 15.2 lb/gal. Excess = 10%.

Production casing may be cemented with an alternative foam cement.

First stage Lead will be cemented to 200' with 1320 cu. ft. (1,740 cu. ft. when foamed) or 1,000 sx 50:50 Poz + 2% gel + 2% Diacel LWL 0.094 gal/sk foaming agent. Yield = 1.32 cu. ft./sk (1.74 when foamed). Weight = 13.8 lb/gal (10.5 when foamed). Excess = 15%.

First stage Tail will be cemented to  $6,000^{\circ}$  with 146 cu. ft. (116 sx) Class B or H Neat + 1/4 lb/sk cello-flake + 2% CaCl. Yield = 1.26 cu. ft./sk. Weight = 15.2 lb/gal.

Cap will be cemented to surface with 75 cu. ft. (60 sx) Class B or H with 2%  $CaCl_2$ .

Conventional centralizers will be set on the bottom two joints, every second joint to 6,100' and every fourth joint from 2,000' to surface.

