## SUBMIT IN TRIPLICATE®

FORM APPROVED OMB NO. 1004-0136

(Other instructions on (July 1992) UNITED STATES Expires: February 28, 1995 DEPARTMENT OF THE INTERIOR 5. LEASE DESIGNATION AND SERIAL NO. BUREAU OF LAND MANAGEMENT 6. IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL OR DEEPEN 7. UNIT AGREEMENT NAME a. TYPE OF WORK 2111:13 DRILL V DEEPEN [ b. TYPE OF WELL N/A MULTIPLE WELL 8. FARM OR LEASE NAME, WELL NO 2. NAME OF OPERATOR Schwerdtfeger 8 2 E Marathon Oil Company 9. API WELL NO (915) 687-8357 30-045-30900 3. ADDRESS AND TELEPHONE NO P. O. Box 552, Midland, Tx. 79702-0552 Basin Dakota 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*) 935' FNL & 1845' FEL 11. SEC., T., R., M., OR BLK

AND SUBVEY OR AREA At proposed prod. zone 8-27**n-11w** ммрм <u>Same</u> 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE® 12. COUNTY OR PARISH | 13. STATE 10 air miles SSW of Bloomfield, NM San Juan NM 15. DISTANCE FROM PROPOSED\*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig, unit line, if any) 17. NO. OF ACRES ASSIGNED TO THIS WELL. 16. NO. OF ACRES IN LEASE 2081.12 1227' 320 DISTANCE FROM PROPOSED LOCATIONS
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS 165' 6,860<sup>2</sup> Rotary 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 22. APPROX. DATE WORK WILL START\* Feb. 1, 2001 6,136' ungraded ground 23. PROPOSED CASING AND CEMENTING PROGRAM SETTING DEPTH QUANTITY OF CEMENT SIZE OF HOLE GRADE, SIZE OF CASING WEIGHT PER FOOT 8-5/8" 325 ≈270 cu ft & to surface -(J-55)24# 12-1/4" ≈2394 cu ft & to surface 6,860 7-7/8" 4-1/2" (K-55) 11.6#

This certain is subject to transferred and percedural review pursuant to 48 COM 3185.3 and appear pursuant to 43 GFR \$195.4.

BOOKED AND MORE AUTHORIZED ARE CONSTRUCT OF LAW THANKE WITH ATTACHED "GENERAL REQUIREMENTS"



4/19/	· ·	
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in the subject lease which would en	ntitle the applicant to conduct o	perations t
ATT 13		
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District I PO Box 1980, Llobbs, NM 88241-1980 PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

PO Box 2088, Santa Fe, NM 87504-2088

API Number

30400

## 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

<sup>3</sup> Pool Name

Fee Lease - 3 Copies ☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

**BASIN DAKOTA** 

<sup>2</sup> Pool Code

71599

Property C	Code	' Property Name SCHWERDTFEGER						' Well Number 2E		
OGRID N	<u></u>									
14021	١٠.	Operator Name - MARATHON OIL COMPANY						ĺ	'Elevation 6136 —	
<sup>10</sup> Surface Location										
UL or lot no.	Section	Township					East/West lie	ne County		
. в	. 8	27 N	11 W		- 935	- North	1845	· Sast	San Juan	
Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lis	ne County	
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION										
	202	9°53'W		ANDARD		.04ch.				
16			Sec.	<del></del>	APR 200	1845	I hereby certification of the second of the	BR CO OCT. EYOR C fy that the well completed notes of the best of my supervision of the best of my supervision of the best of my	tonal Surveyor:	
			<del></del>	New	Mexico Oil Cor	servation Division	<del></del>			

Marathon Oil Company Schwerdtfeger 8 2 E 935' FNL & 1845' FEL Sec. 8, 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 S <u>ize</u>	<u>O.D.</u>	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 8 2 E 935' FNL & 1845' FEL Sec. 8, 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%.

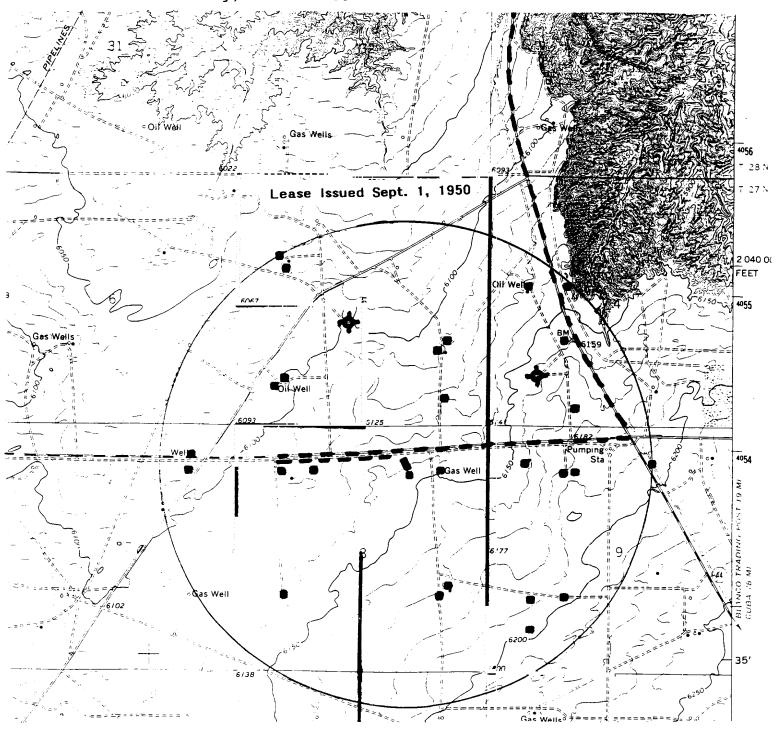
First stage Tail will be cemented to 6,000' with 146 cu. ft. (116 sx) Class B or H Neat + 1/4 lb/sk cello-flake + 2% CaCl. Yield = 1.26 cu. ft./sk. Weight = 15.2 lb/gal.

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.



Schwerdtfeger 8 2 E 935' FNL & 1845' FEL Sec. 8, T. 27 N., R. 11 W. San Juan County, New Mexico



PROPOSED WELL: LEASE BOUNDARY: EXISTING WELL: •

EXISTING ROAD: -

P&A WELL: 💠

