

UNITED STATES  
DEPARTMENT OF THE INTERIOR

## GEOLOGICAL SURVEY

30-045-28296

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>				5. LEASE DESIGNATION AND SERIAL NO. SF-078895	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>				6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo, NIIP	
2. NAME OF OPERATOR Marathon Oil Company				7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P. O. Box 552, Midland, TX 79702				8. FARM OR LEASE NAME Mudge "A"	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1850' FSL & 990' FWL At proposed prod. zone 1850' FSL & 990' FWL				9. WELL NO. 72	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 9 miles south of Bloomfield, NM				10. FIELD AND POOL, OR WILDCAT Basin Fruitland Coal	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 990'		16. NO. OF ACRES IN LEASE 1920		17. NO. OF ACRES ASSIGNED TO THIS WELL 320 W/2 315.24	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N/A *		19. PROPOSED DEPTH 1950'		20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) GL-6133' This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4				22. APPROX. DATE WORK WILL START* Oct. 1, 1990	
23. PROPOSED CASING AND CEMENTING PROGRAM SUBJECT TO COMPLIANCE WITH ATTACHED GENERAL REQUIREMENTS					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	GENERAL REQUIREMENTS	
11"	8-5/8"	24#	350'	225 sx - circ to surface	
7-7/8"	5-1/2"	15.5#	1950'	350 sx - circ to surface	

Propose to drill to TD of  $\pm$  1850'.

All casing will be run and cemented in accordance with regulations and by approved methods.

Blowout prevention equipment will be applied as outlined in Additional Information. See attached Multipoint Surface Use Plan and Additional Information for specific drilling operations.

\* First Fruitland coal well on this lease

RECEIVED  
SEP 27 1990  
OIL CON. DIV.  
DIST. 3

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED <u>[Signature]</u>		TITLE <u>Drilling Superintendent</u>		DATE <u>8/24/90</u>
(This space for Federal or State office use)				
PERMIT NO. _____		APPROVAL DATE _____		
APPROVED BY _____		TITLE _____		
CONDITIONS OF APPROVAL, IF ANY:				

NMOCD  
\*See Instructions On Reverse SideSEP 25 1990  
[Signature]  
AREA MANAGER

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

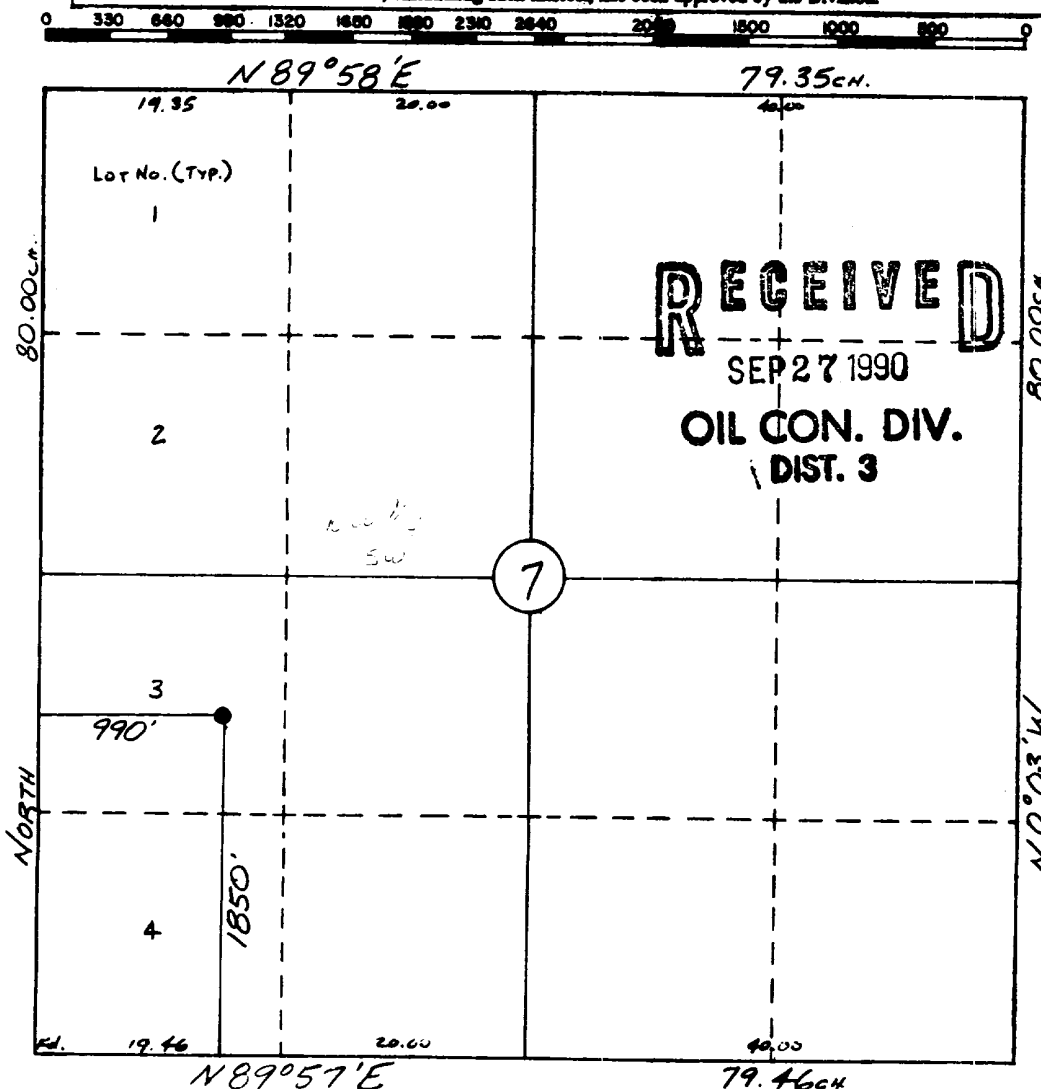
DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator <b>MARATHON OIL COMPANY</b>			Lease <b>MUDGE A</b>		Well No. <b>72</b>
Unit Letter <b>L</b>	Section <b>7</b>	Township <b>27 N</b>	Range <b>11 W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>1850</b> feet from the <b>South</b> line and <b>990</b> feet from the <b>West</b> line					
Ground level Elev. <b>6133</b>	Producing Formation <b>Fruitland Coal</b>		Pool <b>Basin Fruitland Coal</b>		Dedicated Acreage: <b>320-315.84</b> Acres
<p>1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.</p> <p>2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).</p> <p>3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? <input type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes" type of consolidation _____</p> <p>If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____</p> <p>No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.</p>					



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature

Printed Name

**S. L. Atnipp**

Position

**Drilling Superintendent**

Company

**Marathon Oil Company**

Date

**8/21/90**

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

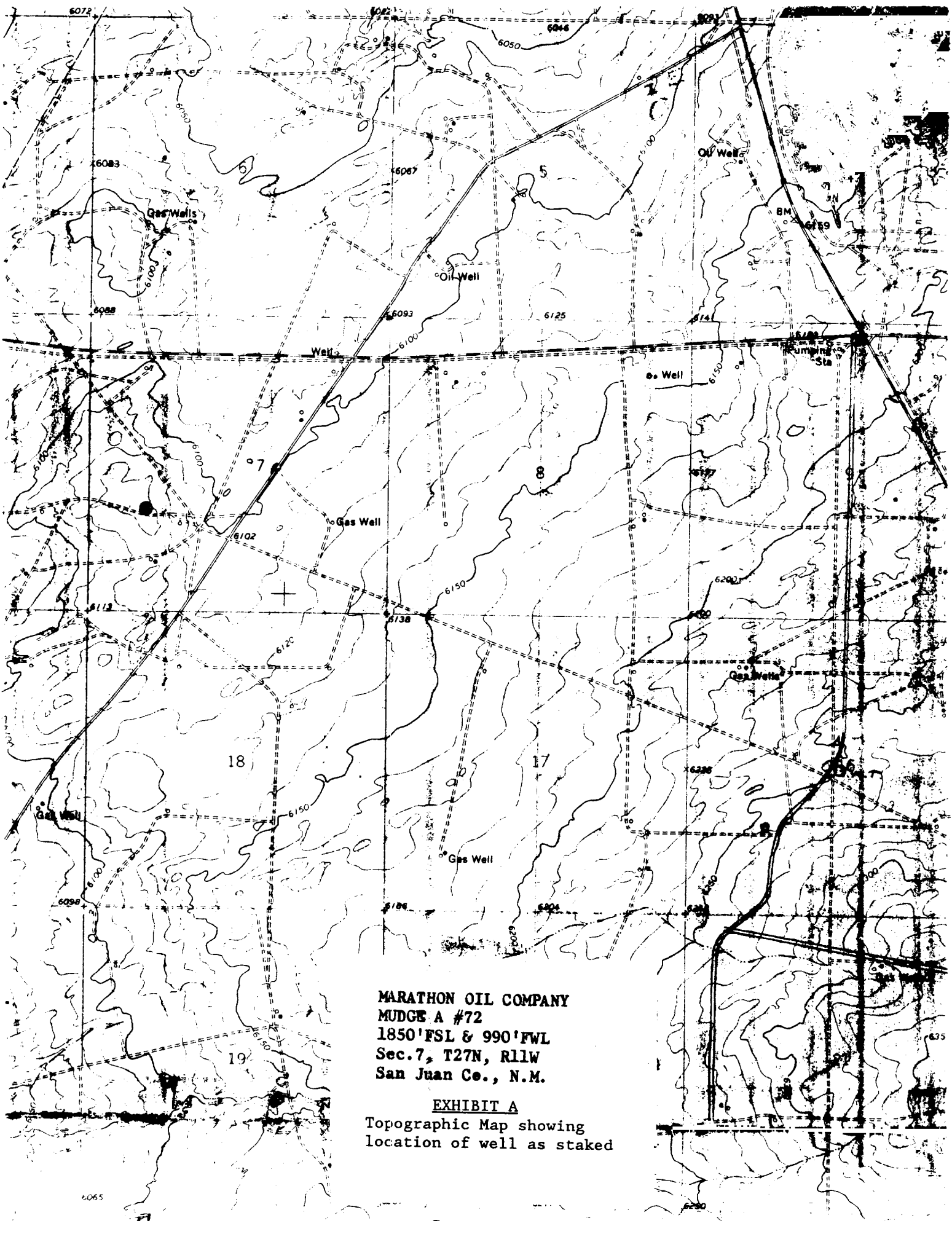
**7-25-90**

Date Surveyed

**William E. Mahnke II**

Signature & Seal of  
Professional Surveyor

**WILLIAM E. MAHNKE II**  
**#8466**  
**REGISTERED PROFESSIONAL LAND SURVEYOR**



A detailed topographic map of a section of land, likely in New Mexico. The map features a grid of section numbers (17, 18, 19) and various contour lines indicating elevation. Numerous wells are marked with dots and labeled, including 'Gas Wells', 'Oil Well', and 'Well'. A specific well is highlighted with a crosshair and labeled 'Mudge A #72'. The map also shows a 'Pumping Sta' and various other geographical features like roads and boundaries.

MARATHON OIL COMPANY  
MUDGE A #72  
1850' FSL & 990' FWL  
Sec. 7, T27N, R11W  
San Juan Co., N.M.

EXHIBIT A  
Topographic Map showing  
location of well as staked