

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-101  
Revised 10-1-78

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DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

5A. Indicate Type of Lease	
STATE <input type="checkbox"/>	FEE <input checked="" type="checkbox"/>

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work				7. Unit Agreement Name	
b. Type of Well DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>				8. Farm or Lease Name Santa Fe 20	
2. Name of Operator Merrion Oil & Gas Corp.				9. Well No. 4	
3. Address of Operator P. O. Box 840, Farmington, New Mexico 87499				10. Field and Pool, or Wildcat Snake Eyes Entrada EXT	
4. Location of Well UNIT LETTER <u>I</u> LOCATED <u>2310</u> FEET FROM THE <u>South</u> LINE AND <u>990</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>20</u> TWP. <u>21N</u> RGE. <u>8W</u> NMPM				12. County San Juan	
19. Proposed Depth 5,690'		19A. Formation Entrada		20. Rotary or C.T. Rotary	
21. Elevations (Show whether DF, RT, etc.) 6,576' GL		21A. Kind & Status Plug. Bond Nationwide		22. Approx. Date Work will start Spring 1988	

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-1/4"	9-5/8"	32 lb/ft	200 ft.	75 sx	surface
8-3/4"	7"	23 lb/ft	5690' 6,000 ft.	600 sx	surface

Will drill 12-1/4" hole to 200' and set 200' of 9-5/8", 32 lb/ft, J-55 casing with 75 sx (89 cu.ft.) Class 'B', 2% CaCl<sub>2</sub>. TOC at surface. Wait on cement 10 hours. Will pressure test to 600 psi for 30 minutes, prior to drillout. Drill 8-3/4" hole to est. 5600' KB. Will run drillstem test of Entrada Interval. If Entrada appears productive, will drill to 5,690' KB. Run open hole logs. Will run 7", 23 lb/ft, J-55 casing to 5,690' and cement in two stages. First stage will pump 300 sx Class H 2% gel (366 cu.ft.) to cover from TD to above Gallup at 3,328', est. Will set stage tool at 2,650' est., and cement with 250 sx Class B 2% D-79 (515 cu.ft.) followed by 50 sx Class H (61 cu.ft.). Top of cement estimated at surface. Will perforate and stimulate as deemed necessary. Additional drilling program details included in attachment.

APPROVAL EXPIRES 9-10-87  
UNLESS DRILLING IS COMMENCED.  
SPUD NOTICE MUST BE SUBMITTED

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MAR 08 1989

OIL CON. DIV  
DIST. 3

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN WITHIN 100 DAYS, DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed [Signature] Title Operations Manager Date 3/7/89

(This space for State Use)

APPROVED BY [Signature] TITLE DEPUTY OIL & GAS INSPECTOR, DIST. 3

DATE 3-10-89

CONDITIONS OF APPROVAL, IF ANY:

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form O-107  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

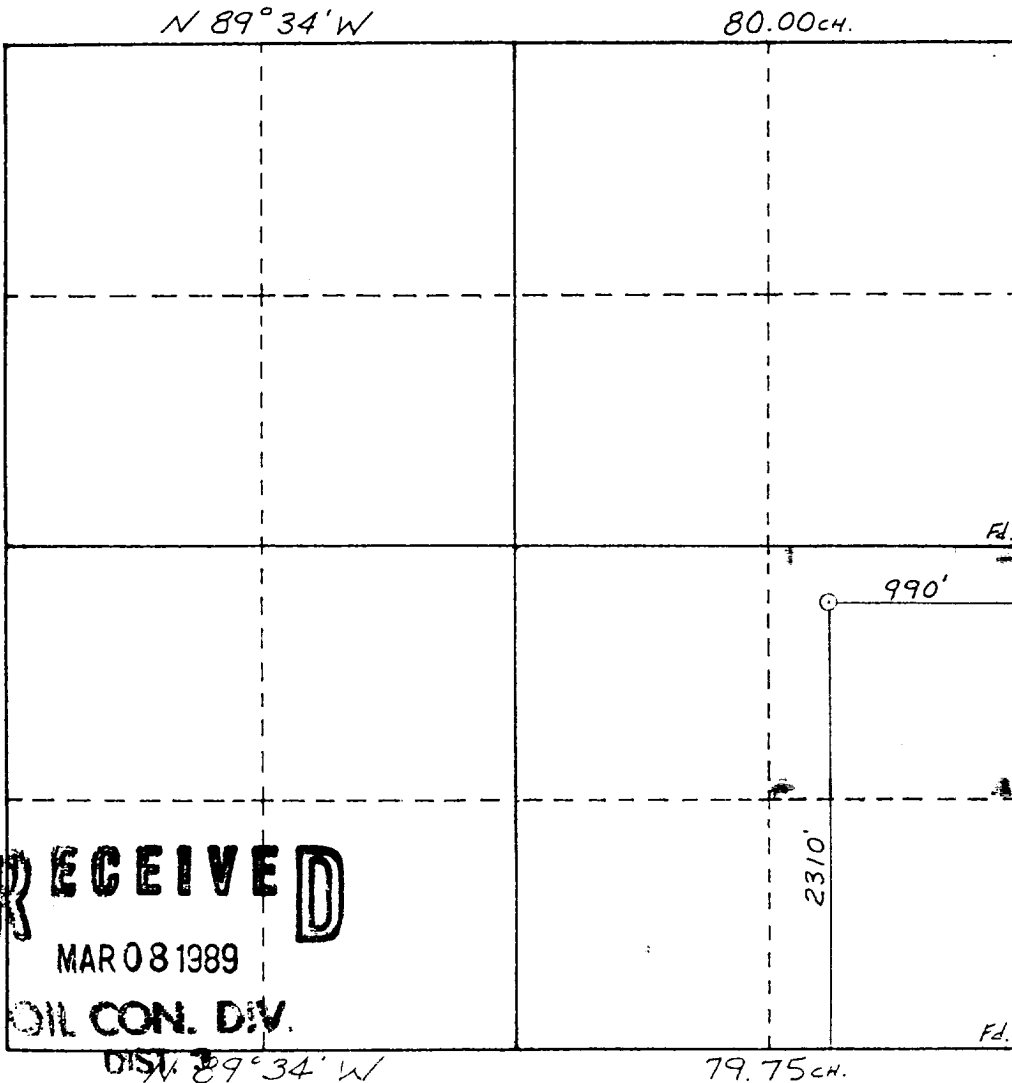
Operator <b>MERRION OIL &amp; GAS CORPORATION</b>			Lease <b>Santa Fe 20</b>		Well No. <b>4</b>
Unit Letter <b>I</b>	Section <b>20</b>	Township <b>21 N</b>	Range <b>8 W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>2310</b> feet from the <b>South</b> line and <b>990</b> feet from the <b>East</b> line					
Ground Level Elev. <b>6576</b>	Producing Formation <b>Entrada</b>	Pool <b>Snake Eyes EXT</b>		Dedicated Acreage: <b>40</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
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).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

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 interests, has been approved by the Commission.



**CERTIFICATION**

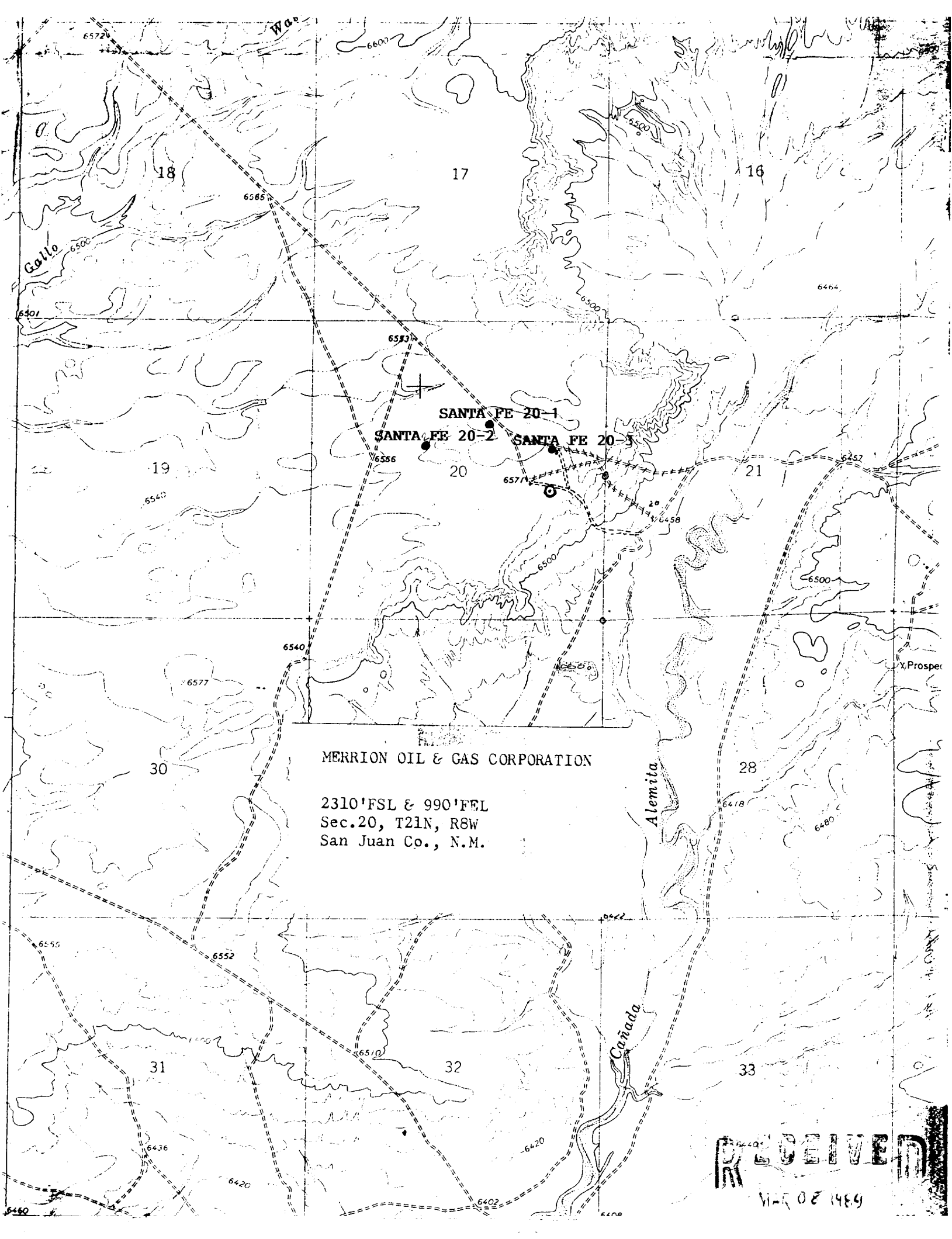
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*Steven S. Dunn*

Name  
**Steven S. Dunn**  
Position  
**Operations Manager**  
Company  
**Merrion Oil & Gas Corp.**  
Date

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.

Date Surveyed  
**11-11-87**  
**William E. Mahoney II**  
Registered Professional Engineer  
and Land Surveyor  
Certificate No. **40-5846**



MERRION OIL & GAS CORPORATION

2310'FSL & 990'FEL  
Sec.20, T21N, R8W  
San Juan Co., N.M.

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MAY 08 1989