

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

30-045-25844

Form C-101  
Revised 10-1-78

SA. Indicate Type of Lease

ST. ☐ FEE ☒

State Oil & Gas Lease No.

NOV 21 1983

OIL CON. DIV.  
DIST. 3

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"/>		7. Unit Agreement Name
b. Type of Well OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. Farm or Lease Name Carnahan Com
2. Name of Operator Merrion Oil & Gas Corporation		9. Well No. 2
3. Address of Operator P. O. Box 1017, Farmington, New Mexico 87499		10. Field and Pool, or Wildcat Basin Dakota
4. Location of Well UNIT LETTER <u>P</u> LOCATED <u>1090</u> FEET FROM THE <u>South</u> LINE AND <u>1070</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>35</u> TWP. <u>30N</u> RGE. <u>12W</u> NMPM		12. County San Juan
19. Proposed Depth 6800		19A. Formation Dakota
20. Rotary or C.T. Rotary		
21. Elevations (Show whether DF, RT, etc.) 5905 GL	21A. Kind & Status Plug. Bond Nationwide	22. Approx. Date Work will start Winter, 83-84

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"	8-5/8"	24 #/ft	200 ft.	170 sx	Surface
7-7/8"	4-1/2"	10.5 #/ft	6800 ft.	710 sx	Above Ojo Alam

Drill 12-1/4" hole to 200 ft. Run 8-5/8", 24 #/ft, J-55 surface casing to 200 ft and cement with 170 sx Class B, 2% CaCl<sub>2</sub>. Drill 7-7/8" hole to 6800 ft with low solids, gel-freshwater mud. Run open hole logs. If appears productive, run 4-1/2", 10.5 #/ft, J-55 casing to TD and cement in three stages to cover Dakota, Gallup, Mesa Verde, Pictured Cliffs and Ojo Alamo. 1st Stage with 300 sx Class h, 2% gel to cover Dakota and Gallup. 2nd Stage with 110 sx Class B, 2% D-79, tail in with 50 sx Class H, 2% gel to cover Mesa Verde. 3rd Stage with 200 sx Class B, 2% D-79, tail in with 50 sx Class H, 2% gel to cover Pictures Cliffs and Ojo Alamo. Will perforate and frac as deemed necessary. Will use Double Ram 10" 900 Series BOPs during drilling.

ESTIMATED TOPS

Ojo Alamo	600'	Mesa Verde	3755'
Kirtland	800'	Mancos	4695'
Fruitland	1660'	Gallup	5680'
Pictures Cliffs	2050'	Greenhorn	6400'
Lewis	2230'	Dakota	6518'

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM; IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PROD TIVE 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 Arthur A. [Signature] Title Operations Manager Date 11/17/83

(This space for State Use)

APPROVED BY [Signature] TITLE Manager DATE May 21, 1984

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY [Signature] DATE May 21, 1984  
SIGNED BY [Signature] DATE May 21, 1984  
WITHIN 10 DAYS

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

Operator <b>MERRION OIL &amp; GAS CORPORATION</b>			Lease <b>CARNAHAN COM</b>		Well No. <b>2</b>
Unit Letter <b>P</b>	Section <b>35</b>	Township <b>30N</b>	Range <b>12W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>1090</b> feet from the <b>South</b> line and <b>1070</b> feet from the <b>East</b> line					
Ground Level Elev. <b>5905</b>	Producing Formation <b>Dakota</b>		Pool <b>Basin Dakota</b>		Dedicated Acreage <b>320</b> Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 Communitized

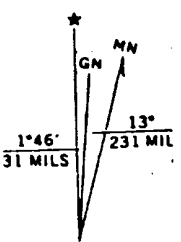
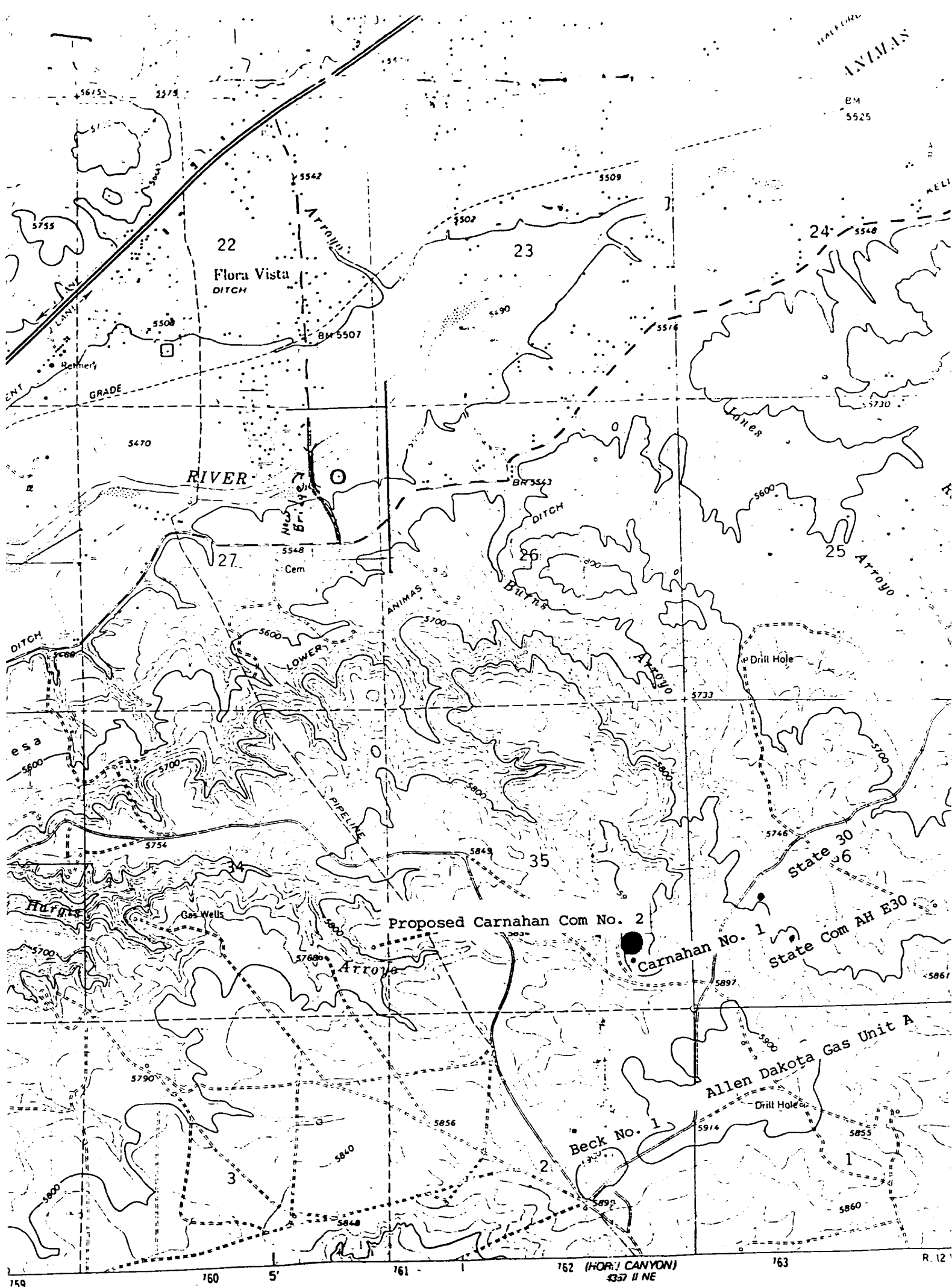
If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

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.

Sec.		Fee	
		SF 068990	
35		FEE	
		1070'	
		1090'	

Scale: 1"=1000'

CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
Name	Steve S. Dunn
Position	Operations Manager
Company	Merrion Oil & Gas Corporation
Date	11/17/83
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	September 1, 1983
Registered Professional Engineer and Land Surveyor	Fred B. Kerr Jr.
Certificate No.	3950



UTM GRID AND 1979 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

Vicinity Map for  
 MERRION OIL & GAS CORPORATION #2 CARNAHAN COM  
 1090'FSL 1070'FEL Sec. 35-T30N-R12W  
 SAN JUAN COUNTY, NEW MEXICO

NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
 FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 220  
 A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST