

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form O-101
Revised 10-1-78

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ALG 17 '88

1A. Indicate Type of Lease
STATE ☐ PER ☒

2. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL ☐ DEEPEN ☐ PLUG BACK ☒		7. Unit Agreement Name
5. Type of Well OIL WELL ☐ GAS WELL ☒ OTHER ☐		8. Farm or Lease Name Nichols
2. Name of Operator Graham Royalty, Ltd. ☒		9. Well No. 1
3. Address of Operator 5429 LBJ Freeway, Suite 550 Dallas, TX 75240		10. Field and Pool, or Willcat Carlsbad Wolfcamp, East
4. Location of Well UNIT LETTER C LOCATED 990 FEET FROM THE North LINE AND 2,270 FEET FROM THE West LINE OF SEC. 21 TWP. 22S RGE. 27E 44PM		11. County Eddy
19. Proposed Depth -		19A. Formation Wolfcamp
21A. Kind & Status Plug. Bond -		20. Rotary or C.T. -
11. Elevations (Show whether D.F., R.T., etc.) 3,111'		21B. Drilling Contractor -
12. Approx. Date Work will start 9/1/88		

~~EXPOSED~~ CASING AND CEMENT ~~EXPOSED~~

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17 1/2"	13-3/8"	54.5#	401'	400 sx	Surface
12 1/2"	9-5/8"	36#	5,388'	1,950 sx	Surface
8-3/4"	5 1/2"	17 & 20#	11,912'	950 sx	7,730'

TD - 11,900' PBTD - 11,880'
Strawn perforations 10,319' - 10,442' OA
Morrow perforations 11,474' - 11,846' OA
Model D packer @ 11,375' w/2-3/8" tbq

1. Set plug in Model D pkr @ 11,375' to isolate Morrow perfs.
2. Kill Strawn interval. ND wellhead. NU BOPE. TOH w/2-3/8" tbq.
3. Cap Model D pkr w/35' cmt. Set CIBP above Strawn @ 10,300'. Cap CIBP w/35' cmt.
4. TIH w/pkr on 2-3/8" tbq. Set pkr @ 9,750'. ND BOPE. NU wellhead.
5. Perf Wolfcamp 9,826' - 36' w/2 JSPF. Flow test. Acidize w/1,500 gal 15% HCL if necessary.

APPROVAL VALID FOR 30 DAYS
PERMIT EXPIRES 10/1/88
UNLESS DRILLING UNDERWAY

4. ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE SLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed Jay E. Johnson Title District Engineer Date 8/3/88

(This space for State Use)

Original Signed By
Mike Williams

APPROVED BY Mike Williams DATE AUG 16 1988

CONDITIONS OF APPROVAL, IF ANY: