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NEW MEXICO OIL CONSERVATION COMMISSION

Form O-101
Revised 1-1-85

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 type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input checked="" 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 Cordelia Hardy	
2. Name of Operator Mobil Producing Tx. & N.M., Inc.		9. Well No. 1	
3. Address of Operator P.O. Box 633, Midland, Tx. 79702		10. Field and Pool, or Wildcat Penrose Skelly Grayburg	
4. Location of Well UNIT LETTER <u>E</u> LOCATED <u>2310</u> FEET FROM THE <u>North</u> LINE AND <u>330</u> FEET FROM THE <u>West</u> LINE OF SEC. <u>29</u> TWP. <u>21S</u> RGE. <u>37E</u> NMPM		12. County Lea	
19. Proposed Depth 5100'		19A. Formation Grayburg	20. Rotary or C.T. Workover
21. Elevations (Show whether DF, RT, etc.) 3483-Ground	21A. Kind & Status Plug. Bond On File	21B. Drilling Contractor Unknown	22. Approx. Date Work will start ASAP

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
Existing 11"	9 5/8"	36#	1344'	310	Surface
8 1/4"	7"	24#	3625'	175	2070'
6 1/8"	4 1/2"	11.6#	5400'	1st Stg. 200 2nd Stg. 260	1. 5400 to 3377' 2. DV tool at 3377' to Surface

The subject well is currently T.A.'d in the Paddock.

We are requesting permission to abandon on the Paddock, plug back to 5100' and complete in the Penrose Skelly Grayburg. The complete procedure is attached.

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. 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 C.A. Moore for Environmental & Regulatory Manager Date 05/13/87
M.E. Sweeney, Eng. & Reg. Mgr.
 (This space for State Use)

Orig. Signed by
Paul Kautz
Geologist

APPROVED BY _____ TITLE _____ DATE MAY 15 1987

CONDITIONS OF APPROVAL, IF ANY:

RECORDED

MAY 14 1987

CCD
HOBBS OFFICE

100-100000
100-100000
100-100000

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

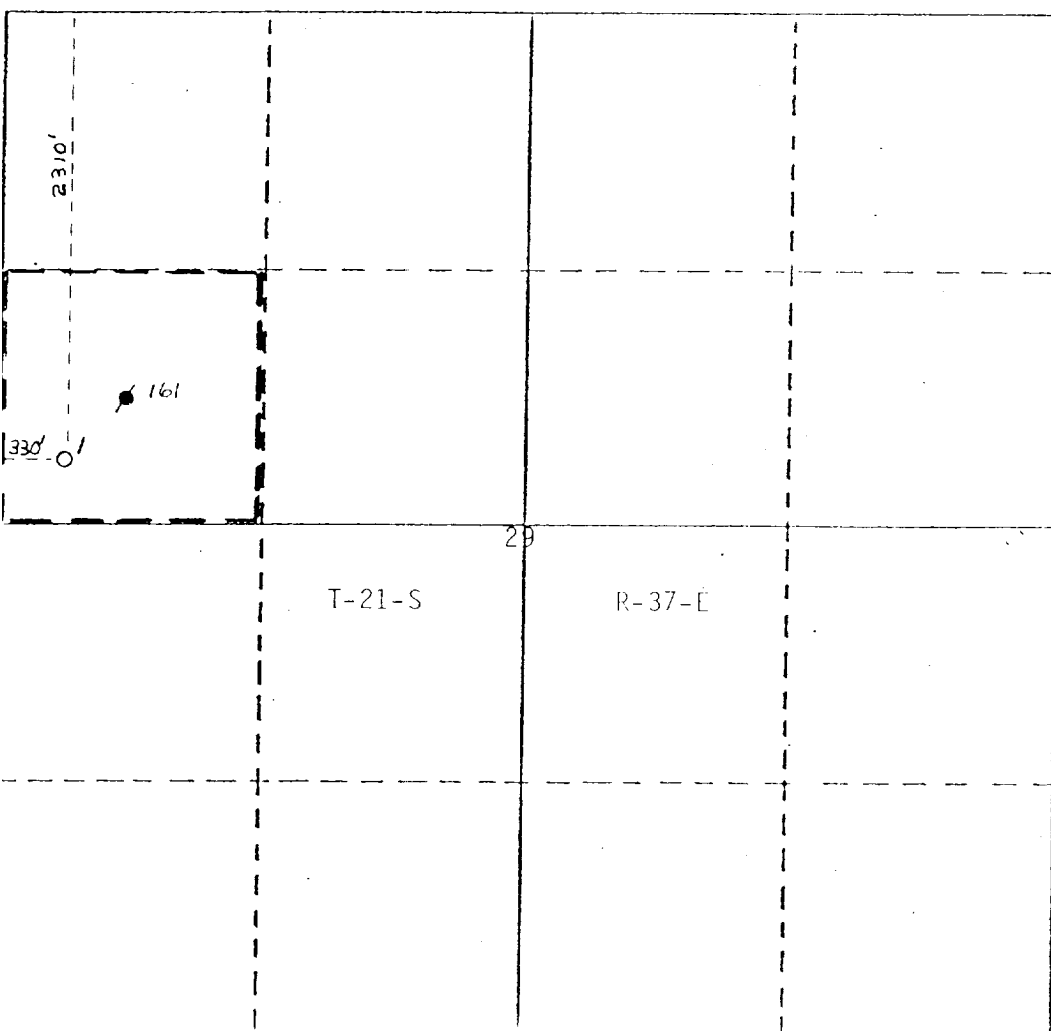
Operator Mobil Producing TX & N.M., Inc.			Lease Cordelia Hardy		Well No. 1
Unit Letter E	Section 29	Township 21S	Range 37E	County Lea	
Actual Footage Location of Well: 330 feet from the West line and 2310 feet from the North line					
Ground Level Elev. 3483	Producing Formation Grayburg		Pool Penrose Skelly	Dedicated Acreage: 40 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 _____

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 Division.
Well #160 is a plugged and abandoned WIW in Chevron's Drinkard Unit.



CERTIFICATION

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

C. A. Moore

Name

M.E. Sweeney

Position

Env. & Reg. Manager

Company

Mobil Producing Tx. & N.M., Inc.

Date

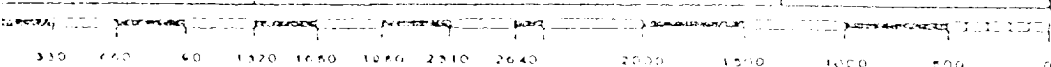
May 13, 1987

I hereby certify that the well location shown on this plot 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

Registered Professional Engineer and/or Land Surveyor

Certificate No.



RECOMMENDED WORK PROCEDURE

LEASE: CORDELIA HARDY

WELL NO: 1

ANNULAR FLUID PRIOR TO WORKOVER:
FORMATION FLUIDS

W/O FLUID TO BE USED:
2% KCL WTR

PLEASE CONTACT OPERATIONS ENGR. IN HOBBS (393-9186) 24 HOURS
PRIOR TO MIRU

1. MIRU.
2. POH w/ RODS & PUMP.
3. NU BOPs. RELEASE TAC & POH w/ 2-3/8" TBG.
4. MIRU WIRELINE CO. RIH w/ GAUGE RING & JUNK BASKET TO 5140.
POH.
5. RIH w/ 4-1/2" 11.6# CIBP & SET @ 5100'. CAP w/ 35' CMT. POH.
6. RIH w/ 2-3/8" TBG TO 5000' & CIRC HOLE w/ 2% KCL WTR.
7. TEST CASING TO 1000 PSIG. POH.
8. RIH w/ GAMMA RAY, COMPENSATED NEUTRON, & CCL TOOLS & LOG FROM
3700 TO 2000'. POH.
9. RIH w/ 3-1/8" CSG GUN & PERFORATE THE PENROSE SKELLY GRAYBURG
FROM 3473 TO 3597 (EXACT PERFS TO BE DETERMINED FROM LOG
BEING RUN), 2 JSPF, ZERO DEGREE PHASING - DECENTRALIZED.
POH.
10. RIH w/ 4-1/2" TREATING PKR ON 2-3/8" TBG TO 3600 & SPOT
100 GAL NEFE 15% HCL ACROSS PERFS.
11. PU & SET PKR @ 3350'.
12. TEST/HOLD BACKSIDE TO 500 PSIG. ACIDIZE PENROSE FORMATION w/
2000 gal NEFE 15% HCL @ 4-5 BPM & RCNBS (80% EXCESS),
MAX 4000 PSIG TP. FLUSH w/ 15 BBLs 2% KCL WTR.
13. OBTAIN ISIP @ 5, 10, & 15 MIN.
14. SWAB WELL UNTIL LOAD IS RECOVERED. POH.
15. RIH w/ MA, SN (SET @ 3640'), 9 JTS 2-3/8" TBG, TAC, & FIH w/
2-3/8" TBG.

16. RIH w/ 1.5" * 20' PUMP, 66% 3/4" STEEL RODS, 34% 7/8" STEEL.
17. LOAD TBG & TEST PUMP ACTION.
18. RDMO PULLING UNIT.
19. TEST & EVALUATE FOR FRACTURE STIMULATION. IF FRACTURE STIMULATION IS NEEDED, CONTACT OPERATIONS ENGINEERING FOR PROCEDURE.

KA CARWILE

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