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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease	
STATE ☐	FEE ☒
5. State Oil & Gas Lease No.	

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Permit Agreement No.	
b. Type of Well DRILL ☐ DEEPEN ☐ PLUG BACK ☐ OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☐		8. Form or Lease Name McQuatters	
2. Name of Operator Amoco Production Co.		9. Well No. 4	
3. Address of Operator P. O. Box 68, Hobbs NM 88240		10. Field and Pool, or Well Unit Und. Hardy Drinkard	
4. Location of Well UNIT LETTER <u>A</u> LOCATED <u>860</u> FEET FROM THE <u>North</u> LINE AND <u>810</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>11</u> TWP. <u>21-S</u> RGE. <u>36-E</u> NMPM		11. County Lea	
12. Proposed Depth		13A. Formation Drinkard	
12A. Min. & States Reg. Bond Blanket - on - file		22. Approx. Date Work will start 4-5-80	
21. Direction (Show whether DE, RE, etc.) 3533.2		21B. Drilling Contractor	

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
Existing Casing Will Not Be Altered					

Propose to recomplete well to the Drinkard to the Drinkard formation per the the following procedure:

Kill well. Circulate sand off bridge plug set at 6415'. Pull bridge plug. Perforate 6494' - 6500', 6508' - 18', 6524' - 36', 6544' - 48', 6561' - 66', 6591' - 96', 6642' - 52', 6662' - 70', 6696' - 6716 with 2 JSPF. Run tubing, packer, and tailpipe. Run a bridge plug set at approx. 6757 and cap with 10' sand. Set packer at 6334'. Acidize with 19,500 gal 15% HCL acid with 12000 gal waterfrac 30 and 4500 gal water frac 10. Swab backload and evaluate.

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 BLEED-OFF PREVENTER PROGRAM, IF ANY.

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

Signed Bob Davis Title Admin. Analyst Date 4-3-80

(This space for State Use)

APPROVED BY [Signature] TITLE SUPERVISOR DISTRICT DATE APR

CONDITIONS OF APPROVAL, IF ANY:

0 +4 NMCD - H 1-Hou 1-Susp 1-BD

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Form O-105
Revised 11-1-76

NEW MEXICO OIL CONSERVATION COMMISSION WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease	State ☐	Lease ☒
5b. Date of Lease		

1a. TYPE OF WELL	
OIL WELL ☒	GAS WELL ☐ DRY ☐ OTHER ☐
1b. TYPE OF COMPLETION	
NEW WELL ☒	WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

7. First Agreement Name

8. Name of Lease Name
McQuatters

2. Name of Operator
Amoco Production Company

9. Well No.
4

3. Address of Operator
P. O. Box 68 - Hobbs, NM 88240

10. Production Pool, or Wildcat
Und. Hardy Blinebry

4. Location of Well	
UNIT LETTER <u>A</u>	LOCATED <u>860</u> FEET FROM THE <u>North</u> LINE AND <u>810</u> FEET FROM <u>East</u>
THE <u>11</u> LINE OF SEC. <u>21-S</u> TWP. <u>36-E</u> RGE. <u>11</u> NMPM	

12. County
Lea

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (D.F., RKB, RT, GR, etc.)	19. Elev. Casinghead
7-30-79	8-22-79	12-6-79	3533.2 GL	-

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
6900'	6415'			0-TD	

24. Producing interval(s), of this completion - Top, Bottom, Name	25. Was Directional Survey Made
5706' - 6308' Blinebry	No

26. Type Electric and Other Log Run	27. Was Well Cored
Comp Neutron From Density; Dual Laterolog Micro SFL	No

28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB. FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
11 3/4"	42#	1257'	15"	950 sx lite; 150 sx CLC	Circ 250 sx
8 5/8"	24# & 32#	5091'	11"	2300 sx lite; 100 sx CLC	TCMT 3490'

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
5 1/2"	4895'	6898'	425		2 3/8"	5650'	

31. Perforation Record (Interval, size and number)	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.								
5706' - 6308' w/2 JSPF	<table border="1"> <tr> <th>DEPTH INTERVAL</th> <th>AMOUNT AND KIND MATERIAL USED</th> </tr> <tr> <td>5706' - 6308'</td> <td>13000 gal 15% NE acid</td> </tr> <tr> <td>6074' - 6308'</td> <td>12000 gal gel; 17000# 20/40 sand</td> </tr> <tr> <td>5706' - 6308'</td> <td>60000 gal gel; 85500# 20/40 sand</td> </tr> </table>	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	5706' - 6308'	13000 gal 15% NE acid	6074' - 6308'	12000 gal gel; 17000# 20/40 sand	5706' - 6308'	60000 gal gel; 85500# 20/40 sand
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED								
5706' - 6308'	13000 gal 15% NE acid								
6074' - 6308'	12000 gal gel; 17000# 20/40 sand								
5706' - 6308'	60000 gal gel; 85500# 20/40 sand								

33. PRODUCTION							
Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)		
11/27/79	Flowing				Producing		
Date of Test	Hours Tested	Shut-in Time	Flowing Test Period	Oil - bbl.	Gas - MCF	Water - bbl.	Gas - Oil Ratio
12/6/79	24	22/64	32	237	98	7406	
Flow Tubing Test	Shut-in Pressure	Flowing Pressure	Oil - bbl.	Gas - MCF	Water - bbl.	Gas Gravity - API (Corr.)	
200#		71	300	85			

34. Disposition of Well (Sold, used for fuel, vented, etc.)	Test Witnessed by
To be sold	

35. List of Attachments
Logs mailed 12/7/79

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED <u>Bob Lewis</u>	TITLE <u>Asst. Admin. Analyst</u>	DATE <u>12/7/79</u>
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INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 30 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radioactivity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured by tape. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy <u>1255'</u>	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates <u>2630'</u>	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen <u>3470'</u>	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg <u>3754'</u>	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Qizte _____
T. Glorieta <u>5211'</u>	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinbry <u>5704'</u>	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb <u>6356'</u>	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard <u>6490'</u>	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from 5706' to 6308'

No. 2, from _____ to _____

No. 3, from _____ to _____

No. 4, from _____ to _____

No. 5, from _____ to _____

No. 6, from _____ to _____

● IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from None to _____ feet.

No. 2, from _____ to _____ feet.

No. 3, from _____ to _____ feet.

No. 4, from _____ to _____ feet.

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	662'	662'	Surface Rock & Anhydrite				
662'	1238'	576'	Red bed & Anhydrite				
1238'	1321'	83'	Anhydrite & Lime				
1321'	2709'	1388'	Anhydrite & Salt				
2709'	6900'	4191'	Lime				

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