

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

Form C-105
Revised 1-1-89

WELL API NO.
30-025-33544

5. Indicate Type of Lease
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.
14920

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:
OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER _____
b. Type of Completion:
NEW WELL ☐ WORK OVER ☐ DEEPEN ☒ PLUG BACK ☐ DIFF RESVR ☐ OTHER _____

7. Lease Name or Unit Agreement Name

Mattern

2. Name of Operator
Arch Petroleum Inc.

8. Well No.
4

3. Address of Operator
300 North Marienfeld, Suite 600 Midland, Texas 79701

9. Pool name or Wildcat
Wildcat; Abo

4. Well Location
Unit Letter JK: 2310 Feet From The South Line and 2310 Feet From The West Line
Section 30 Township 21S Range 37E NMPM Lea County

10. Date Spudded 07/22/99	11. Date T.D. Reached 08/05/99	12. Date Compl. (Ready to Prod.) 08/12/99	13. Elevations (DF & RKB, RT, GR, etc.) 3491' GR	14. Elev. Casinghead
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15. Total Depth 7147'	16. Plug Back T.D. 7147'	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By Rotary Tools ☒ Cable Tools
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19. Producing Interval(s), of this completion - Top, Bottom, Name
6818-7147' Abo

20. Was Directional Survey Made
No

21. Type Electric and Other Logs Run
GR/CCL

22. Was Well Cored
No

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8	23	1257	12-1/4	620 sx Class "C"	
5-1/2	15.5	6818	7-7/8	625 sx 50/50	

24. LINER RECORD				25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET
					2-3/8"	6751'
						6758'

26. Perforation record (interval, size, and number) Open Hole 6818-7147'	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	5527-5959	Squeezed w/250 sx Class "C"
	6652-6679'	Squeezed w/100 sx Class "C"
	6818-7147'	Acidized w/840 gallons 15% NEFE

28. PRODUCTION							
Date First Production 08/12/99		Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping				Well Status (Prod. or Shut-in) Producing	
Date of Test 08/31/99	Hours Tested 24	Choke Size	Prod'n For Test Period	Oil - BbL. 8	Gas - MCF 10	Water - BbL. 81	Gas - Oil Ratio 1250
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - BbL.	Gas - MCF	Water - BbL.	Oil Gravity - API - (Corr.) 39.7	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)
Sold

Test Witnessed By

30. List Attachments
Logs

31. 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

Signature Robin S. McCarley Printed Name Robin S. McCarley Title Production Tech. Date 09/07/99

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all specific tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 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

T. Anhy _____ 1190.0
T. Salt _____ 1274.0
B. Salt _____ 2476.0
T. Yates _____ 2628.0
T. 7 Rivers _____ 2891.0
T. Queen _____
T. Grayburg _____ 3672.0
T. San Andres _____ 3920.0
T. Glorieta _____
T. Paddock _____ 5111.0
T. Blinberry _____ 5500.0
T. Tubb _____
T. Drinkard _____ 6408.0
T. Abo _____ 6802.0
T. Wolfcamp _____
T. Penn _____
T. Cisco (Bough C) _____

T. Canyon _____
T. Strawn _____
T. Atoka _____
T. Miss _____
T. Devonian _____
T. Silurian _____
T. Montoya _____
T. Simpson _____
T. McKee _____
T. Ellenburger _____
T. Gr. Wash _____
T. Delaware Sand _____
T. Bone Springs _____
T. _____
T. _____
T. _____
T. _____
T. _____

Northwestern New Mexico

T. Ojo Alamo _____
T. Kirtland-Fruitland _____
T. Pictured Cliffs _____
T. Cliff House _____
T. Menefee _____
T. Point Lookout _____
T. Mancos _____
T. Gallup _____
Base Greenhorn _____
T. Dakota _____
T. Morrison _____
T. Todilto _____
T. Entrada _____
T. Wingate _____
T. Chinle _____
T. Permian _____
T. Penn. "A" _____
T. Penn. "B" _____
T. Penn. "C" _____
T. Penn. "D" _____
T. Leadville _____
T. Madison _____
T. Elbert _____
T. McCracken _____
T. Ignacio Otzte _____
T. Granite _____
T. _____
T. _____
T. _____
T. _____
T. _____
T. _____
T. _____
T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from 6818 to 7147
No. 2, from _____ to _____

No. 3, from _____ to _____
No. 4, from _____ to _____

IMPORTANT WATER SANDS

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

No. 1, from _____ to _____ feet
No. 2, from _____ to _____ feet
No. 3, from _____ to _____ feet

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology	From	To	Thickness in Feet	Lithology
0.0	1190.0		Redbed & sand				
1190.0	1274.0		Anhydrite				
1274.0	2476.0		salt, Anhydrite				
2476.0	2628.0		Anhydrite & Shale				
2628.0	2891.0		Sand, Dolomite				
2891.0	3504.0		Anhydrite, Dolomite				
3504.0	3672.0		Sand, Dolomite, LS				
3672.0	3920.0		Dolomite				
3920.0	5111.0		Dolomite				
5111.0	5500.0		Dolomite, Lime				
5500.0	6408.0		Dolomite				
6818.0	7147.0		Dolomite, Shale				