

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-105  
Revised 1-1-89

OIL CONSERVATION DIVISION

2040 Pacheco St.  
Santa Fe, NM 87505

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

DISTRICT III  
1000 Rio Brazos Rd, Aztec, NM 87410

WELL API NO.  
30-025-35004

5. Indicate Type of Lease  
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

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

Learcy McBuffington

2. Name of Operator  
Arch Petroleum Inc.

8. Well No.  
13Y

3. Address of Operator  
P. O. Box 10340, Midland, TX 79702-7340

9. Pool name or Wildcat  
Justis Montoya

4. Well Location  
Unit Letter O : 630 Feet From The South Line and 2490 Feet From The East Line  
Section 13 Township 25 Range 37 NMPM Lea County

10. Date Spudded 04/13/00 11. Date T.D. Reached 04/29/00 12. Date Compl. (Ready to Prod.) 05/15/00 13. Elevations (DF & RKB, RT, GR, etc.) 3077' GR 14. Elev. Casinghead 3078'

15. Total Depth 7150 16. Plug Back T.D. 7090 17. If Multiple Compl. How Many Zones? \_\_\_\_\_ 18. Intervals Drilled By Rotary Tools ☒ Cable Tools \_\_\_\_\_

19. Producing Interval(s), of this completion - Top, Bottom, Name  
6978'-7000' Montoya 20. Was Directional Survey Made  
No

21. Type Electric and Other Logs Run  
CNLD-IL 22. Was Well Cored  
No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8	54.50# & 48#	510	17-1/2	600 sks - circ 200 sks	
8-5/8	32# & 24#	3000	11	1300 sks - circ 126 sks	
5-1/2	17# & 15.5#	7150	7-7/8	1450 sks - TOC @ 710'	

LINER RECORD				TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET
					2-3/8"	6950

26. Perforation record (interval, size, and number)  
6978 - 7000 (2 SPF)

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
<u>6978-7000</u>	<u>Acidz w/ 1000 gals 15% HCL</u>
	<u>Unsuccessful frac attempt</u>

PRODUCTION

Date First Production <u>05/15/00</u>	Production Method (Flowing, gas lift, pumping - Size and type pump) <u>Pumping</u>	Well Status (Prod. or Shut-in) <u>Producing</u>					
Date of Test <u>05/22/00</u>	Hours Tested <u>24</u>	Choke Size	Prod'n For Test Period	Oil - BbL. <u>17</u>	Gas - MCF <u>21</u>	Water - BbL. <u>22</u>	Gas - Oil Ratio <u>1235</u>
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - BbL. <u>17</u>	Gas - MCF <u>21</u>	Water - BbL. <u>22</u>	Oil Gravity - API - (Corr.) <u>35.2</u>	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)  
Sold Test Witnessed By  
Marcus Roberson

30. List Attachments  
C-104, Logs, Sundry, Deviation Survey

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

*Cathy Tomberlin*

Printed Name Cathy Tomberlin

Title Operation Tech

Date 08/21/00

# 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	718.0	T. Canyon	
T. Salt	850.0	T. Strawn	
B. Salt	2166.0	T. Atoka	
T. Yates	2366.0	T. Miss	
T. 7 Rivers	2628.0	T. Devonian	
T. Queen	2987.0	T. Silurian	
T. Grayburg	3311.0	T. Montoya	6830.0
T. San Andres	3542.0	T. Simpson	7050.0
T. Glorieta	4579.0	T. McKee	
T. Paddock	4636.0	T. Ellenburger	
T. Blinbry	4989.0	T. Gr. Wash	
T. Tubb	5642.0	T. Delaware Sand	
T. Drinkard	5895.0	T. Bone Springs	
T. Abo	6447.0	T. Strawn Detrital	6652.0
T. Wolfcamp		T.	
T. Penn		T.	
T. Cisco (Bough C)		T.	

## Northwestern New Mexico

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

## OIL OR GAS SANDS OR ZONES

No. 1, from 4790	to 4950	No. 3, from 6360	to 6570
No. 2, from 5100	to 5900	No. 4, from 6750	to 6810

## 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	718.0		red bed, gravel, sd				
718.0	850.0		anhy dol				
850.0	2166.0		salt anhy				
2166.0	2366.0		sand anhy				
2366.0	2628.0		anhy dol				
2628.0	2987.0		dolo, sand				
2987.0	3311.0		sand, dolo, anhy				
3311.0	3542.0		anhy, lime, dol				
3542.0	4579.0		dol, anhy, chert				
4579.0	4989.0		dol, lime, chert				
4989.0	5642.0		dol, sand, chert				
5642.0	6447.0		dol, lime, chert				
6447.0	6830.0		dol, lime, chert, sh				
6830.0	7050.0		dol, chert, lime				
7050.0			shale, lime				

11-14-1960  
Approved  
for  
file