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Form C-105
Revised 10-68

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

SEP 21 1979

51. Indicate Type of Lease	State ☒ Fee ☐
52. State Oil & Gas Lease No.	OG-693

1G. TYPE OF WELL

OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐

B.C.C.
ARTESIA, OFFICE

Empire Abo Pressure
Maintenance Project.

b. TYPE OF COMPLETION

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

53. Name of Lease

Empire Abo Unit "K"

2. Name of Operator

ARCO Oil & Gas Company
Division of Atlantic Richfield Company

9. Well No.

#161

3. Address of Operator

P.O. Box 1710, Hobbs, New Mexico 88240

10. Field and Pool, or Wildcat

Empire Abo

4. Location of Well

UNIT LETTER I LOCATED 1310 FEET FROM THE South LINE AND 590 FEET FROM

12. County

Eddy

THE East LINE OF SEC. 2 TWP. 18S RGE. 27E NMPM

15. Date Spudded 6-21-79 16. Date T.D. Reached 7-10-79 17. Date Compl. (Ready to Prod.) 9-13-79 18. Elevations (DF, RAB, RT, GR, etc.) 3558.7' GR 19. Elev. Casinghead

20. Total Depth 6225' 21. Plug Back T.D. 6182' 22. If Multiple Compl., How Many 23. Intervals Drilled By Rotary Tools Cable Tools 0-6225'

24. Producing Interval(s), of this completion - Top, Bottom, Name

6107-6117' Abo Reef

25. Was Directional Survey Made

No

26. Type Electric and Other Logs Run

DLL & MLL, CNL & Comp. Neutron, GR-Neutron, Caliper & CBL

27. Was Well Cored

No

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8- 5/8" OD	24# K-55	1000'	11"	400 SX	
5- 1/2" OD	15.5# K-55	6225'	7- 7/8"	1745 SX	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2- 3/8" OD	6050'	-0-

31. Perforation Record (Interval, size and number)

6107-6117' = 2JSPF-20-.44"holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
6107-6117'	150 gals 15% HCL-LSTNE-FE Acid
	1000 gals 10# gel CaCl wtr,
	1000 gas LC, 1000 gals 15% HCL
	LSTNE-FE Acid, 23 BLC.

33. PRODUCTION

Date First Production 7-19-79		Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping - Rod				Well Status (Prod. or Shut-in) Prod.	
Date of Test 9-14-79	Hours Tested 24	Choke Size	Prod'n. Per Test Period	Oil - Bbl. 134	Gas - MCF 82	Water - Bbl. 7	Gas - Oil Ratio 612:1
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl. 134	Gas - MCF 82	Water - Bbl. 7	Oil Gravity - API (Corr.) 44	

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

Sold

Test Witnessed By
N.H. Truitt

35. List of Attachments

Logs as listed in Item 26 above and Inclination Report.

36. 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 [Signature] TITLE Dist. Drlg. Supt. DATE 9-20-79

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 radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured by this. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 3a through 3d 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 _____
T. Salt _____
B. Salt _____
T. Yates _____
T. 7 Rivers _____
T. Queen _____
T. Grayburg _____
T. San Andres _____
T. Glorieta _____
T. Paddock _____
T. Blinbry _____
T. Tubb _____
T. Drinkard _____
T. Abo 5872' _____
T. Wolfcamp _____
T. Penn. _____
T. Cisco (Bough C) _____

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" _____

OIL OR GAS SANDS OR ZONES

No. 1, from 6107' to 6117' No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, 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 _____ to _____ feet. None Encountered
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	573	573	Surface & Red Beds				
573	1400	827	Anhydrite				
1400	1590	190	Lime				
1590	4180	2590	Anhydrite				
4180	4262	82	Anhydrite & Lime				
4262	4335	73	Lime & Anhydrite				
4335	4464	129	Anhydrite				
4464	5556	1092	Anhydrite & Lime				
5556	6225	669	Lime				