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Form C-105
Revised 11-1-78

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

5a. Indicate Type of Lease: State [X] Fee [ ]

5. State Oil & Gas Lease No.: 647-368, 647-363, 647-320

7. Unit Agreement Name: Empire Abo Pressure Maintenance Project

8. Farm or Lease Name: Empire Abo Unit "G"

9. Well No.: 353

10. Field and Pool, or Wildcat: Empire Abo

11. County: Eddy

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] OTHER

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] OTHER

2. Name of Operator: ARCO Oil and Gas Company
Division of Atlantic Richfield Company

3. Address of Operator: Box 1710, Hobbs, New Mexico 88240

4. Location of Well: UNIT LETTER J LOCATED 1420 FEET FROM THE South LINE AND 2050 FEET FROM THE East LINE OF SEC. 34 TWP. 17S RGE. 28E NMPM

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O. C. D.
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15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
5/6/79	5/20/79	6/5/79	3663.8' GR	

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
6350'	6306'		→	0-6350'	

24. Producing Interval(s), of this completion — Top, Bottom, Name: 6218-6238' Abo Reef

25. Was Directional Survey Made: No

26. Type Electric and Other Logs Run: GR-DLL w/RXO, GR-CNL-FDC & 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	752'	11"	400 sx	
5½" OD	15.5# K-55	6350'	7-7/8"	1555 sx	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-3/8" OD	6180'	6180'

31. Perforation Record (Interval, size and number): 6218-6238' - 2 JSPF = 40 .44" holes

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
6218-6238'	150 gal 15% HCL-LSTNE-FE acid, 100 0 gal gelled 10# CaCl wtr, 1000 gal gel LC, 1000 gal 15% HCL-LSTNE-FE acid w/ RA mat'l.

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
6/1/79	Flwg	Prod

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas—Oil Ratio
6/7/79	24	48/64"	→	166	165	1	1000:1

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)
115#	Pkr	→	166	165	1	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 & 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 SRK for L. D. LANE TITLE Dist. Drlg. Supt. DATE 6/13/79

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission 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 radioactivity logs run on the well and a summary of all special 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 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		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		T. Miss		T. Cliff House		T. Leadville	
T. 7 Rivers		T. Devonian		T. Menefee		T. Madison	
T. Queen		T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg		T. Montoya		T. Mancos		T. McCracken	
T. San Andres		T. Simpson		T. Gallup		T. Ignacio Qtzte	
T. Glorieta		T. McKee		Base Greenhorn		T. Granite	
T. Paddock		T. Ellenburger		T. Dakota		T.	
T. Blinebry		T. Gr. Wash		T. Morrison		T.	
T. Tubb		T. Granite		T. Todilto		T.	
T. Drinkard		T. Delaware Sand		T. Entrada		T.	
T. Abo	6032'	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 6218' to 6238' 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	752	752	Surface, caliche & red bed				
752	1652	900	Anhydrite				
1652	1939	287	Sand & Anhydrite				
1939	5104	3165	Anhydrite				
5104	5186	82	Anhydrite & Lime				
5186	5208	22	Lime				
5208	5251	43	Lime & Anhydrite				
5251	5473	222	Lime				
5473	5610	137	Lime & Dolomite				
5610	5667	57	Lime, Shale & Sandstone				
5667	6090	423	Lime & Shale				
6090	6350	260	Lime				