

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	1
FILE	1
U.S.G.S.	2
LAND OFFICE	1
OPERATOR	

5a. Indicate Type of Lease	
State ☒	Fee ☐
5. State Oil & Gas Lease No.	
647-320	647-368

10. TYPE OF WELL <u>Reef</u>	
OIL WELL ☒	GAS WELL ☐
DRY ☐	OTHER <u>RECEIVED</u>
11. TYPE OF COMPLETION	
NEW WELL ☒	WORK OVER ☐
DEEPEN ☐	PLUG BACK ☐
DIFF. RESVR. ☐	OTHER ☐
2. Name of Operator	
ARCO Oil & Gas Company	
Division of Atlantic Richfield Co.	
3. Address of Operator	
P.O. Box 1710, Hobbs, NM 88240	

7. Unit Agreement Name
Empire Abo Pressure Maintenance Project
8. Farm or Lease Name
Empire Abo Unit "J"
9. Well No.
241
10. Field and Pool, or Wildcat
Empire Abo

4. Location of Well	
UNIT LETTER <u>H</u>	LOCATED <u>1950</u> FEET FROM THE <u>North</u> LINE AND <u>660</u> FEET FROM
THE <u>East</u> LINE OF SEC. <u>6</u> TWP. <u>18S</u> RGE. <u>28E</u> NMPM	

12. County
Eddy

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)
1-3-81	VH 1-30-81 HDH 3-26-81	4-21-81	3657.2' GR

19. Elev. Casinghead

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By
6386'			Rotary Tools 0-6386'

24. Producing Interval(s), of this completion - Top, Bottom, Name
6224-6386' Drainhole Interval - Abo Reef

25. Was Directional Survey Made
Yes

26. Type Electric and Other Logs Run
DLL, MLL, CNL-FCL w/GR, GR CBL/CCL

27. Was Well Cored
no

28. CASING RECORD (Report all strings set in well)					
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CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8" OD	36# K-55	980'	12-1/4"	450 sx	
7" OD	23# K-55	6228'	8-3/4"	1475 sx	

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-3/8" OD	6127'	--

31. Perforation Record (Interval, size and number)
6224-6386' - 4-3/4" Horizontal Drainhole

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. (cont'd)	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
6224-6386'	500 gals 15% HCL-LSTNE-FE
6224-6386'	250 gals 15% HCL-LSTNE-FE
	dbl inhibited acid
6224-6386'	3000 gals 60/40 60% 15% HCL-LSTNE

33. PRODUCTION	
Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)
4-12-81	Pumping - 2" X 1 1/2" X 18' rod pump
Well Status (Prod. or Shut-in)	
Prod.	

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
4-28-81	24			34	36	30	1059:1
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
--	--		34	36	30	44°	

34. Disposition of Gas (Sold, used for fuel, vented, etc.)	Test Witnessed By
Sold	N.H. Truitt

35. List of Attachments
Logs as listed in item 26 above, Directional Surveys, 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 <u>W.D. McDaniel</u> <u>J.W. Schmidt</u>	Dist. Drlg. Supt. DATE <u>4-29-81</u>

This form is to be filed with the appropriate District Office of the Division not later than 2 years 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 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 quadruplicate 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. Blinberry	T. Gr. Wash	T. Morrison	T.
T. Tubb	T. Granite	T. Todilto	T.
T. Drinkard	T. Delaware Sand	T. Entrada	T.
T. Abo 6030'	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 6224' to 6386'	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	474	474	Surface & Red Bed				
474	559	85	Anhydrite & Shale				
559	816	257	Shale & Anhy.				
816	1064	248	Anhydrite				
1064	2581	1517	Anhydrite & Salt				
2581	3183	602	Anhydrite & Lime				
3183	3380	197	Lime				
3380	6228	2848	Lime & Shale				
6224	6386	162	(Lime & Shale - Horizontal Drainhole)				