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Form C-105
Revised 11-1-76

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

MAY 3 1977

5a. Indicate Type of Lease
State ☒ Fee ☐
5. State Oil & Gas Lease No.
E-7833

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. Unit Agreement Name
Empire Abo Pressure Maintenance Project
8. Farm or Lease Name
Empire Abo Unit "L"

2. Name of Operator
Atlantic Richfield Company

9. Well No.
153

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 <u>O</u> LOCATED <u>90</u> FEET FROM THE <u>South</u> LINE AND <u>1456</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>2</u> TWP. <u>18S</u> RGE. <u>27E</u> NMPM

11. County
Eddy

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)
3/17/77	4/5/77	4/20/77	3585' GR

19. Elev. Casinghead

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
6303'	6105'			0-6303'	

25. Was Directional Survey Made
No

24. Producing Interval(s), of this completion - Top, Bottom, Name
6056-6076' Abo

27. Was Well Cored
No

26. Type Electric and Other Logs Run
CN=FDL, DLL w/Micro SFL, GR-N, Sonic & CBL

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"	395 sx	
5-1/2" OD	14 & 15.5# K-55	6303'	7-7/8"	630 sx	

29. LINER RECORD				30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SIZE	DEPTH SET	PACKER SET
				2-3/8" OD	5980'	5947'

31. Perforation Record (Interval, size and number)	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
6056-6076' (40 - .40")	DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED
	6145' Cmt SQ w/125 sx Cl C cont 1.3%FL, 2%CaCl & 30 sx Cl C cont'g 2% CaCl
	4700' Cmt SQ w/975 sx Lt Cmt cont 8# salt/sk & 100 sx Cl C cont'g 8# salt/sk

33. 6056-6076 500 gals HCL-LSTNE acid

Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)	Well Status (Prod. or Shut-in)					
4/20/77	Flowing	Prod					
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
4/27/77	24	48/64"		276	197	3	714:1
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
90#	Pkr		276	197	3	44°F	

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 & 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	TITLE	DATE
	Dist. Drlg. Supt.	5/2/77

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 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 dry-taps. 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. Penn. "B"	T. Penn. "B"
T. Salt	T. Strawn	T. Penn. "C"	T. Penn. "C"
T. Salt	T. Aloka	T. Penn. "D"	T. Leadville
T. Yates	T. Miss	T. Cliff House	T. Madison
T. 7 Rivers	T. Devonian	T. Menefee	T. Point Lookout
T. Queen	T. Silurian	T. Eibert	T. McCracken
T. Grayburg	T. Montoya	T. Mancos	T. Gallup
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Ortiz
T. Gorteta	T. McKee	T. Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T. T. Granite
T. Blinberry	T. Gr. Wash	T. Morrison	T. T. Granite
T. Tubb	T. Granite	T. Todillo	T. T. Granite
T. Drinkard	T. Delaware Sand	T. Entrada	T. T. Granite
T. Abo	T. Bone Springs	T. Wingate	T. T. Granite
T. Wolfcamp	T. T. Granite	T. Chinle	T. T. Granite
T. Penn.	T. T. Granite	T. Permian	T. T. Granite
T. Cisco (Bough C)	T. T. Granite	T. Penn. "A"	T. T. Granite

OIL OR GAS SANDS OR ZONES

No. 1, from 6056'	to 6076'	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	None Encountered	to
No. 2, from	to		to
No. 3, from	to		to
No. 4, from	to		to

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation
0	290	290	Red Bed
290	375	85	Anhydrite, gyp, potash
375	950	575	Anhy & Gyp
950	995	45	Anhy
995	1190	195	Anhy & gyp
1190	1540	350	Anhy
1540	1950	410	Sand & lime
1950	2850	900	Lime
2850	3500	650	Lime, dolomite
3500	3760	260	Lime
3760	3850	90	Lime, dolomite
3850	4000	150	Lime
4000	4250	250	Lime & dolomite
4250	4670	420	Lime
4670	4730	60	Lime & dolomite
4730	4910	180	Lime
4910	5005	95	Lime & dolomite
5005	5030	25	Lime
5030	5150	120	Lime & Sand
5150	5200	50	Dolomite & sand
5200	5350	150	Lime
5350	5510	150	Lime & dolomite
5510	5700	190	Lime
5700	5960	260	Lime & dolomite
5960	6303	343	Dolomite

FIELD Midland DATE May OF 1977 NUMBER

OPERATOR Atlantic Richfield Company ADDRESS P. O. Box 1710, Hobbs, New Mexico 88240

WELL Wells A-1 & A-2 WELL NO. 153 SURVEY 90' TSL & 1455' TSL SECTION 2, T-10-S, R-27-E

RECORD OF INCLINATION

<u>DEPTH (FEET)</u>	<u>ANGLE OF INCLINATION (DEGREES)</u>
461'	1/4
1,000'	1/4
1,409'	1/2
1,900'	3/4
2,129'	1-1/4
2,504'	1
2,815'	1-3/4
3,044'	2
3,542'	2
4,011'	1-3/4
4,492'	1-3/4
4,870'	2
4,890'	2-1/2
4,934'	3-1/2
5,110'	3-1/2
5,301'	4-1/4
5,428'	4-1/2
5,708'	4-3/4
5,927'	5
6,300'	4

RECEIVED

MAY 8 1977

E. E. C.
OFFICE

Certification of personal knowledge Inclination Data:

I hereby certify that I have personally assembled the data and facts placed on this form, and such information given above is true and complete to the best of my knowledge.

HONDO DRILLING COMPANY

BY: [Signature]
Walter Fredrickson
Vice President

Sworn and subscribed to before me the undersigned authority, on this the 13th day of May, 1977.

[Signature] Notary Public in and for Midland County, Texas.
Joyce Wood