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NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG
JUL 22 1977
O. C. C.
ARTESIA, OFFICE

Form C-105
Revised 11-1-76

5a. Indicate Type of Lease	
State ☒	Fee ☐
5. State Oil & Gas Lease No.	
647-349	647-351

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 "H"

2. Name of Operator
Atlantic Richfield Company

9. Well No.
311

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>2490</u> FEET FROM THE <u>East</u> LINE AND <u>313</u> FEET FROM

11. County
Eddy

THE <u>South</u> LINE OF SEC. <u>33</u> TWP. <u>17S</u> RGE. <u>28E</u> NMPM
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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. Casinghead
4/26/77	5/10/77	7/12/77	3661.4' GR	

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
6362'	6086'		→	0-6362'	

24. Producing Interval(s), of this completion - Top, Bottom, Name	25. Was Directional Survey Made
6044- 6144 ⁶⁰⁵⁴ ' Abo Reef	No

26. Type Electric and Other Logs Run	27. Was Well Cored
GR-DLL w/RXO & Caliper, GR-Cal Neutron, CBL, CNL-FDC, Sonie w/VDL, Base Temp & GR Base Log	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#	550'	11"	248 sx	
5-1/2" OD	14 & 15.5#	6362'	7-7/8"	1415 sx	

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-3/8" OD	5927'	5892'

31. Perforation Record (Interval, size and number)	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
6044-6054' 2 JSPF = 20 - .48" holes	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
6134-6144' 2 JSPF = 20 - .48" holes	4399-4400'	Cmt squeeze w/865 sx Hal Lite
		cont'g 8# salt/sk, 100 sx Cl C
		cont'g 8# salt/sk, 150 sx Cl C
		cont'g 8# salt/sk (cont'd on

33. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
6/9/77		Flowing				Prod	
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - bbl.	Gas - Oil Ratio
7/13/77	24	48/64"	→	323	263	0	814:1
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
80#	Pkr	→	323	263	0	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 & 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 7/18/77

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 observed and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All data reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 20 through 24 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. Albany	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Aloka	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 Gize
T. Glorieta	T. McKee	T. Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T. T.
T. Blinberry	T. Gr. Wash	T. Morrison	T. T.
T. Tubb	T. Granite	T. Todillo	T. T.
T. Drinkard	T. Delaware Sand	T. Entrada	T. T.
T. Abo	T. Bone Springs	T. Wingate	T. T.
T. Wolfcamp	T. T.	T. Chinle	T. T.
T. Penn.	T. T.	T. Permian	T. T.
T. Cisco (Bough C)	T. T.	T. Penn. "A"	T. T.

OIL OR GAS SANDS OR ZONES

No. 1, from	6044'	to	6054' Abo	No. 4, from	to
No. 2, from	6134'	to	6144' Abo	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	feet.	to	feet.	None Encountered
No. 2, from	feet.	to	feet.	
No. 3, from	feet.	to	feet.	
No. 4, from	feet.	to	feet.	

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	300	300	Surface				
300	550	250	Red Bed				
550	950	400	Lime & Sand				
950	1000	50	Anhydrite				
1000	1840	840	Anhydrite & Lime				
1840	6362'	4522	Lime				
	TD						

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Empire Abo Unit "H" #311
July 18, 1977
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32. Acid, Shot, Fracture, Cement Squeeze, Etc (cont'd)

<u>Depth Interval</u>	<u>Amount & Kind Material Used</u>
6220-6234'	Cmt squeezed w/105 sx Cl C cont'g 8/10 of 1% HLX-204, 2% CaCl, 100 sx Neat cmt, 2% CaCl
6134-6144'	300 gals 15% HCL-FE acid cont'g RA material, 500 gals lse crude, 500 gals 10# wtr, 2000 gals 60/40 15% HCL/xylene, flushed w/12 bbls lse crude.
6044-6054'	300 gals 15% HCL-LSTNE w/iron sequestrant followed by 500 gals lse crude, 500 gals 10# CaCl wtr, 2000 gals 15% HCL-LSTNE w/xylene 60/40 ratio, flushed w/12 bbls lse crude.

FIELD Empire Abo COUNTY Eddy OCC NUMBER _____

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

LEASE Empire Abo Unit H WELL NO. 311 SURVEY 2490' FEL & 313' FSL, Sec. 33, T-17-S, R-28-E

RECORD OF INCLINATION

DEPTH (FEET)

ANGLE OF
INCLINATION (DEGREES)

550'	3/4
1,000'	3/4
1,460'	3/4
2049'	1
2490'	2
2,985'	2-1/2
3,020'	2-1/2
3,517'	2-1/4
3,795'	2
4,293'	2-1/4
4,753'	2-1/2
5,078'	3-1/2
5,297'	3-3/4
5,576'	4
5,825'	4-1/2
6,012'	4
6,360'	4

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JUL 22 1977

O. C. C.

ARTESIA, 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: 
Walter Frederickson
Vice President

Sworn and subscribed to before me the undersigned authority, on this the 16th
day of May, 1977.

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

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