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

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MAR 28 1978

Form C-105
Revised 11-1-74

5a. Indicate Type of Lease

State ☒ Fee ☐

5. State Oil & Gas Lease No.

647

7. Unit Agreement Name
Empire Abo Pressure
Maintenance Project

8. Farm or Lease Name

Empire Abo Unit "H"

9. Well No.

321

10. Field and Pool, or Wildcat

Empire Abo

12. County

Eddy

10. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

DRY ☐

OTHER ☒ O.C.C.

b. TYPE OF COMPLETION

NEW WELL ☒

WORK OVER ☐

DEEPEN ☐

PLUG BACK ☐

DIFF. RESVR. ☐

OTHER

2. Name of Operator

Atlantic Richfield Company

3. Address of Operator

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

4. Location of Well

UNIT LETTER P LOCATED 1050 FEET FROM THE South LINE AND 250 FEET FROM

THE East LINE OF SEC. 33 TWP. 17S RGE. 28E NMPM.

15. Date Spudded

2/22/78

16. Date T.D. Reached

3/10/78

17. Date Compl. (Ready to Prod.)

3/18/78

18. Elevations (DE, RKB, RT, GR, etc.)

3662.4' GR

19. Elev. Casinghead

20. Total Depth

6378'

21. Plug Back T.D.

6295'

22. If Multiple Compl., How Many

23. Intervals Drilled By

Rotary Tools

Cable Tools

0-6378'

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

6140-60' Abo Reef

25. Was Directional Survey Made

No

26. Type Electric and Other Logs Run

DLL-RXO, CNL-FDC w/Cal, BHC-VDL, GR logs

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#	600'	11"	300 sx	
5-1/2" OD	15.5#	6378'	7-7/8"	1172 sx	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-3/8" OD	6032'	6032'

31. Perforation Record (Interval, size and number)

6140, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60' (40 - .46" holes)

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
6140-60'	300 gals 15% HCL-NE acid, 500 gals LC, 2000 gals 60/40 acid/xylene, flushed w/18 BLC.

33. PRODUCTION

Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
3/18/78		Flowing				Prod	
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
3/18/78	24	43/64"		380	216	0	568:1
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
110#	Pkr		38	216	0	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

TITLE Dist. Drlg. Supt.

DATE 3/21/78

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 by tape, 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. 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 Ozite
T. Gloria	T. McKee	T. Base Greenhorn	T. Granite
T. Padlock	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 6140' to 6160'	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
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	260	260	Surface				
260	561	301	Red Bed				
561	836	275	Anhydrite				
836	1403	567	Anhy & Lime				
1403	1593	190	Anhy				
1593	3366	1773	Anhy & Lime				
3366	4619	1253	Lime				
4619	4723	104	Lime & Shale				
4723	4961	238	Shale				
4961	5036	75	Lime & Shale				
5036	5090	54	Lime				
5090	5871	781	Lime & Shale				
5871	5961	90	Lime				
5961	6378	417	Lime & Shale				

FIELD _____ COUNTY Eddy CCC NUMBER _____
OPERATOR Atlantic Richfield Company ADDRESS P. O. Box 1710 Hobbs, NM 88240
WELL NO. 321 SURVEY 1050' FSL & 250' FSL 33-17-20

RECORD OF INCLINATION

<u>DEPTH (FEET)</u>	<u>ANGLE OF INCLINATION (DEGREES)</u>
500	1/2
1100	3/4
1614	2
2114	1 1/2
2614	1 1/2
3100	1 1/2
3561	1 3/4
4000	1 3/4
4500	2
4710	2 1/2
4987	3
5409	4 3/4
5597	5
5681	5
5941	4 3/4
6370	3 1/2

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MAR 28 1973
D. E. G.
ARTISTIA, ARIZONA

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 Frederickson
Vice President

Sworn and subscribed to before me the undersigned authority, on this the

_____ day of _____, 1973.

Notary Public in and for _____ County, _____
Edu Ann Witcher