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Form C-105
Revised 11-1-76

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

RECEIVED

SEP 27 1978

Bur. of Mines 1

1a. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐

b. TYPE OF COMPLETION
NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

6a. Indicate Type of Lease
State ☒ Fee ☐

5. State Oil & Gas Lease No.
B-3823-1

2. Name of Operator
Atlantic Richfield Company

7. Unit Agreement Name
Empire Abo Pressure Maintenance Project

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

8. Form of Lease Name
Empire Abo Unit "I"

4. Location of Well
UNIT LETTER A LOCATED 1150 FEET FROM THE North LINE AND 1270 FEET FROM East

9. Well No.
282

10. Field and Pool, or Wildcat
Empire Abo

THE LINE OF SEC. 5 TWP. 18S RGE. 28E NMPM

11. County
Eddy

15. Date Spudded 5-4-78 16. Date T.D. Reached 5-20-78 17. Date Compl. (Ready to Prod.) 18. Elevations (DF, RKB, RT, GR, etc.) 3655.1' GR 19. Elev. Casinghead

20. Total Depth 6370' 21. Plug Back T.D. - 22. If Multiple Compl., How Many 23. Intervals Drilled By Rotary Tools 0-6370' Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name 6170-80' Abo Reef 25. Was Directional Survey Made No

26. Type Electric and Other Logs Run DLL-RXO, CNL-FDC w/caliper, GR-N, Sonic VDL, CBL 27. Was Well Cored No

28. CASING RECORD (Report all strings set in well)						AMOUNT PULLED	
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD			
8-5/8" OD	24# K-55	550'	11"	200 sx			
5-1/2" OD	15.5# K-55	6370'	7-7/8"	1175 sx			

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-3/8" OD	6029'	6032'

31. Perforation Record (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
6170-6180' - 2 JSPF (20 - .44" Holes)	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	
	6220-40'	300 gals 15% HCL, 500 gals 10% CaCl, 500 gals LC, 2000 gals 60/40 15% HCL/xylene, 25 BLC	
	6170-6180'	30 gals 15% HCL-NE, 1000 gals 10% CaCl wtr, 1000 gals oil, 1750 gal 60/40 acid/xylene flush w/18 BL	

33. PRODUCTION
Date First Production 5-29-78 Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping - Unidraulic

Date of Test 9-26-78	Hours Tested 24	Choke Size	Prod'n. For Test Period	Oil - Bbl. 104	Gas - MCF 92	Water - Bbl. 40	Gas - Oil Ratio 885:1
Flow Tubing Press. -	Casing Pressure -	Calculated 24-Hour Rate	Oil - Bbl. 104	Gas - MCF 92	Water - Bbl. 40	Oil Gravity - API (Corr.) 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, DST, 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 N.H. Truitt TITLE _____ DATE 9-26-78

This form is to be filed with the appropriate District Office of the Commission not later than 30 days after the completion of any newly-drilled or deepened well. It shall be accompanied by a copy of all electrical and radio-activity logs run in 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 sectionally 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" _____
T. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yafes _____	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 _____ 5990'	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 _____ 6170' _____ to _____ 6180' _____	No. 4, from _____ to _____
No. 2, from _____ 6220' _____ to _____ 6240' _____	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	891	891	Surface & Red Bed				
891	3613	2722	Anhydrite				
3613	3850	237	Anhydrite & Shale				
3850	4246	396	Anhydrite & Lime				
4246	6153	1907	lime & shale				
6153	6370	217	lime				
	TD						

FIELD Empire Abo COUNTY Eddy OCC NUMBER _____
OPERATOR Atlantic Richfield Company ADDRESS P. O. Box 1710, Hobbs, NM 88240
LEASE Empire Abo Unit I #282 Well No. 282 SURVEY 1150' FNL & 1270'
FEL 5-18-28

RECORD OF INCLINATION

<u>DEPTH (FEET)</u>	<u>ANGLE OF INCLINATION (DEGREES)</u>
500	1/2
550	1/2
1041	1/2
1562	3/4
2056	3/4
2544	1
3043	1 1/4
3529	1 1/2
4013	1 3/4
4246	2
4606	3
4854	4
5098	4 1/2
5346	4 3/4
5508	5
5758	5 1/2
6060	5 1/2
6153	5 1/4
6370	4 3/4

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

7th day of June, 1978.

Margaret B. Anderson, Notary Public in and for Millard County, Nebraska.
Margaret B. Anderson

JOHNSTON

Schlumberger

SURFACE INFORMATION

Description (Rate of Flow) (FIRST SETTING); Opened Tool	Time	Pressure (P.S.I.G.)	Surface Choke BUBBLE HOSE
	0621	-	
	0626	11	" "
GAS TO SURFACE	0631	34	" "
CLOSED FOR INITIAL SHUT-IN	0636	60	" "
FINISHED SHUT-IN	0739	-	" "
RE-OPENED TOOL	0740	-	32/64" "
GAS TO SURFACE, TOO SMALL TO MEASURE			
	0750	15	" "
	0800	6	" "
	0810	6	24/64" "
	0820	6	" "
	0830	7	" "
	0840	7	" "
CLOSED FOR FINAL SHUT-IN	0847	8	" "
FINISHED SHUT-IN	0935	-	" "
PULLED PACKER LOOSE	0936	-	-
(SECOND SETTING) ;			
SET PACKER	1014	-	-
OPENED TOOL	1015	-	24/64" "
GAS TO SURFACE, TOO SMALL TO MEASURE			
MAXIMUM PRESSURE	1225	2	" "
PULLED PACKER LOOSE	1230	-	-
STARTED REVERSING	1240	-	-
FINISHED REVERSING	1430	-	-
Cushion Type	Amount	Pressure	Bottom Choke Size 5/8" "
	-		

MUD DATA

Mud Type ZEOGEL IMPERMEX Wt. 8.5
 Viscosity 42 Water Loss 12 C.C.
 Resist. of Mud .12 @ 85 °F. of Filtrate .12 @ 85 °F
 Chloride Content 49,000 PPM

EQUIPMENT & HOLE DATA

Type Test M.F.E. SELECTIVE ZONE STRADDLE
 Formation Tested EMPIRE ABO / OPEN HOLE
 Elevation - /INFLATABLES - Ft.
 Net Productive Interval 25 Ft.
 Estimated Porosity - %
 All Depths Measured From KELLY BUSHING
 Total Depth 6370 Ft.
 Main Hole/Casing Size 7 7/8"
 Rat Hole/Liner Size -
 Drill Collar Length 532' I.D. 2.25"
 Drill Pipe Length SEE REMARKS I.D. 3.8"
 Packer Depth(s) 1ST.SETTING:5979 & 6004 Ft.
2ND.SETTING:6036 & 6061

MULTI-FLOW EVALUATOR
FLUID SAMPLE DATA

Sampler Pressure 750 P.S.I.G. at Surface
 Recovery: Cu. Ft. Gas 3.75
 cc. Oil 750
 cc. Water 1000
 cc. Mud -
 Tot. Liquid cc. 1750
 Gravity 37.5° API @ 60 °F.
 Gas/Oil Ratio 795 cu. ft./bbl.

RESISTIVITY

CHLORIDE
CONTENT

Recovery Water .13 @ 80 °F. 45,000 ppm
 Recovery Mud - @ - °F.
 Recovery Mud Filtrate - @ - °F. - ppm
 Mud Pit Sample .12 @ 85 °F.
 Mud Pit Sample Filtrate .12 @ 85 °F. 49,000 ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY @ °F.	RESISTIVITY @ °F.	CHL. PPM
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
REVERSED OUT:						@ °F.	@ °F.	
OIL	-	20				37.5 @ 60 °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks: DRILL PIPE LENGTHS: 1ST. SETTING: 5391'
2ND. SETTING: 5448'

Address P.O. BOX 1710; HOBBS, NEW MEXICO 88240

Company ATLANTIC-RICHFIELD COMPANY Field EMPIRE ABO

Well I-282 Location NE 1/4 OF NE1/4, SEC. 5, T18S, R28E

Test Interval 1ST. SETTING: 5979' TO 6004' Test # 1 & 2 Date 5-22-78

2ND. SETTING: 6036' TO 6061'

County EMERY State NEW MEXICO

Field Report No. 05981 D

Min. Sample Pressure 15 (13X/5)