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Form C-105
Revised 11-1-75

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

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OCT 30 1978
O. C. C.
ARTESIA, OFFICE

5a. Indicate Type of Lease: State [X] Fee [ ]
5. State Oil & Gas Lease No.: 2029-46

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] OTHER
b. TYPE OF COMPLETION: NEW WELL [X] 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 "I"
9. Well No.: 291
10. Field and Pool, or Wildcat: Empire Abo

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 D LOCATED 200 FEET FROM THE North LINE AND 350 FEET FROM THE West LINE OF SEC. 4 TWP. 18S RGE. 28E 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.)	19. Elev. Cashinghead
9/28/78	10/12/78	10/23/78	3662.7' GR	

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
6355'	6285'		→	0-6355'	

24. Producing Interval(s), of this completion — Top, Bottom, Name: 6175-6185'
25. Was Directional Survey Made: No
26. Type Electric and Other Logs Run: CNL-FDC, DLL w/RXO, GRN-CBL
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# K-55	600'	11"	450 sx	
5-1/2" OD	15.5# K-55	6350'	7-7/8"	1380 sx	

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-3/8" OD	6083'	6080'

31. Perforation Record (Interval, size and number): 6175-6185' - 20 - .50" holes

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
6175-6185'	150 gal 15% acid, 1000 gal 10# gel CaCl wtr, 1000 gal gel LC & 1500 gal 15% LSTNE w/FE agent & 19 BLC.

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
10/22/78	Flwg	Prod

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas — Oil Ratio
10/25/78	24 hrs	30/64"		272	303	0	1114:1

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)
100#	Pkr		272	303	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 & Inclination Report.

Postal book 10-2 & 10-3-78 11-3-78 AMO/AMO pp

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 L. Ron Lane TITLE Dist Drlg. Supt. DATE 10/27/78

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 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 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"	
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. Blinebry		T. Gr. Wash		T. Morrison		T.	
T. Tubb		T. Granite		T. Todilto		T.	
T. Drinkard		T. Delaware Sand		T. Entrada		T.	
T. Abo	5913'	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 6175 to 6185' 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	600	600	Surface & Red Bed				
600	2099	1499	Anhydrite				
2099	2249	150	Anhydrite & lime				
2249	3046	797	Lime				
3046	6250	3204	Lime & Shale				
6250	6355	105	Lime				

FIELD Empire Abo COUNTY Eddy OCC NUMBER

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

LEASE Empire Abo Unit I WELL NO. 291 SURVEY 200' FNL &

350' FWL Sec. 4, T-18S, R-28E

RECORD OF INCLINATION

DEPTH (FEET)	ANGLE OF INCLINATION (DEGREES)
494	2
1090	2
1791	2 3/4
2286	2 1/4
2751	2 1/2
3236	1 1/2
3664	1/4
4172	2 1/2
4481	1
4727	1 3/4
5223	4
5549	4
5769	5
6017	4 3/4
6350	4 1/2

RECEIVED
OCT 30 1978
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

4th day of October, 1978.

_____ Notary Public in and for Midland County, Texas

Margaret B. Anderson