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NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

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SEP 10 1979

Operator	ARCO Oil and Gas Company Division of Atlantic Richfield Company	O. C. C. ARTESIA, OFFICE
Address Box 1710, Hobbs, New Mexico 88240		
Reason(s) for filing (Check proper box)		Other (Please explain)
New Well	☒	Change in Transporter of:
Recompletion	☐	Oil ☐ Dry Gas ☐
Change in Ownership	☐	Casinghead Gas ☐ Condensate ☐

If change of ownership give name
and address of previous owner

DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, Including Formation	Kind of Lease	Lease No.
Empire Abo Unit "F"	391	Empire Abo	State, Federal or Fee State	647-349 647-351
Location				
Unit Letter	G	1545 Feet From The	North Line and	1625 Feet From The
Line of Section	35	Township	17S	Range
			28E	, NMPM, Eddy County

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☒ or Condensate ☐	Address (Give address to which approved copy of this form is to be sent)	
Amoco Pipeline Company	2300 Continental Nat'l Bank Bldg, Ft Worth, TX	
Name of Authorized Transporter of Casinghead Gas ☒ or Dry Gas ☐	Address (Give address to which approved copy of this form is to be sent)	
Amoco Production Company Phillips Petroleum Company	Box 68, Hobbs, N.M. 4001 Penbrook, Odessa, Texas	
If well produces oil or liquids, give location of tanks.	Unit	Sec.
	P	26
	17	28
		Yes
		8/30/79

If this production is commingled with that from any other lease or pool, give commingling order number:

COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
	X		X					
Date Spudded	Date Compl. Ready to Prod.		Total Depth		P.B.T.D.			
6/25/79	8/29/79		6425'					
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay		Tubing Depth			
3680.6' GR	Abo Reef		6142'		6051'			
Perforations					Depth Casing Shoe			
6142-6148'					6205'			
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
17 1/2"	13-3/8" OD		745'		550			
11"	8-5/8" OD		3010'		950			
7-7/8"	5 1/2" OD		6205'		1125			
	2-3/8" OD		6051'					

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
8/28/79	8/30/79	Flow	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
24 hrs	90#	Pkr	48/64"
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF
334 bbls	334	0	288

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.)	Tubing Pressure (shut-in)	Casing Pressure (shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.


(Signature)
Dist. Drlg. Supt.
(Title)
9/5/79
(Date)

OIL CONSERVATION COMMISSION
SEP 28 1979

APPROVED _____ 19_____
BY W. A. Gussert
TITLE SUPERVISOR, DISTRICT II

This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for allowable on new and recompleted wells.
Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.
Separate Forms C-104 must be filed for each pool in multiply completed wells.

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Form C-105
Revised 11-4-68

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

SEP 10 1979

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

1a. TYPE OF WELL		O. C. C. ARTESIA, OFFICE	
OIL WELL ☒	GAS WELL ☐	DRY ☐	OTHER ☐
b. TYPE OF COMPLETION			
NEW WELL ☒	WORK OVER ☐	DEEPEN ☐	PLUG BACK ☐
DIFF. RESVR. ☐			
OTHER ☐			
2. Name of Operator ARCO Oil and Gas Company Division of Atlantic Richfield Company			

7. Unit Agreement Name Empire Abo Pressure Maintenance Project
8. Form or Lease Name Empire Abo Unit "F"
9. Well No. 391

3. Address of Operator Box 1710, Hobbs, New Mexico 88240	
4. Location of Well	
UNIT LETTER G	LOCATED 1545 FEET FROM THE North LINE AND 1625 FEET FROM
THE East LINE OF SEC. 35	TWP. 17S RGE. 28E N. 36° 30' W.

10. Field and Pool, or Wildcat Empire Abo
12. County Eddy

15. Date Spudded 6/25/79	16. Date T.D. Reached 7/28/79	17. Date Compl. (Ready to Prod.) 8/29/79	18. Elevations (DF, RKB, RT, GR, etc.) 3680.6' GR	19. Elev. Casinghead
20. Total Depth 6425'	21. Plug Back T.D. 6142'	22. H Multiple Compl., How Many	23. Intervals Drilled By 0-6425'	24. Was Directional Survey Made No
24. Producing Interval(s), of this completion - Top, Bottom, Name 6142-6148' Abo Reef				25. Was Well Cored Yes
26. Type Electric and Other Logs Run GR-DLL/RXO, GR-FDC-CNL w/Caliper, GR-Neutron, CBL				

28. CASING RECORD (Report all strings set in well)				
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD
13-3/8" OD	54.5# K-55	745'	17 1/2"	550 sx
8-5/8" OD	28# S-80	3010'	11"	950 sx
5 1/2" OD	15.5# K-55	6205'	7-7/8"	1125 sx

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-3/8" OD	6051'	6051'

31. Perforation Record (Interval, size and number) 6142-6148' (2 JSPF - 12 .50" holes)	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL 6142-6148' AMOUNT AND KIND MATERIAL USED 500 gals 15% HCL-LSTNE-FE acid
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33. PRODUCTION							
Date First Production 8/28/79		Production Method (Flowing, gas lift, pumping - Size and type pump) Flwg				Well Status (Prod. or Shut-in) Prod	
Date of Test 8/30/79	Hours Tested 24	Choke Size 48/64"	Fract. For Test Period	Oil - Bbl. 334	Gas - MCF 288	Water - Bbl. 0	Gas - Oil Ratio 862:1
Flow Tubing Press. 90#	Casing Pressure Pkr	Calculated 24-Hour Rate	Oil - Bbl. 334	Gas - MCF 288	Water - Bbl. 0	Oil Gravity - API (Corr.) 44°	

34. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold	Test Witnessed By N. H. Truitt
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35. List of Attachments Logs as listed in Item 26 above, Core Reports, Inclination Reports
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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 <i>[Signature]</i> TITLE Dist. Drlg. Supt. DATE 9/5/79

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 directional and lithological logs run on the well and a summary of all special tests conducted, including drill stem tests. All data reported shall be measured in feet. 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 1165.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Northwestern New Mexico

Southeastern New Mexico

T. Any	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn	T. Kittland-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 Quartz
T. Glorieta	T. McKee	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 6142' to 6148'	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	745	745	Surface, caliche, sd, Red bed				
745	4594	3849	Anhydrite				
4594	4872	278	Anhydrite & Lime				
4872	5110	238	Lime				
5110	5180	70	Shale				
5180	5335	155	Lime				
5335	5469	134	Shale				
5469	5564	95	Lime				
5564	5613	49	Lime & Shale				
5613	5890	277	Lime				
5890	5963	73	Lime & Dolo				
5963	6425	462	Dolo & Lime				