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Form C-105
Revised 1-1-65

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

RECEIVED
SEP 15 1983

5a. Indicate Type of Lease
State ☒ Fee ☐
5. State Oil & Gas Lease No.
E-6515

1a. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/>						11. Unit Agreement Name ---	
b. TYPE OF COMPLETION NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER <input type="checkbox"/>						8. Farm or Lease Name ARCO State	
2. Name of Operator ARCO Oil and Gas Company, Division of Atlantic Richfield Company						9. Well No. 101	
3. Address of Operator P.O. Box 5540, Denver, Colorado 80217						10. Field and Pool, or Wildcat Undesignated Gallup	
4. Location of Well UNIT LETTER <u>B</u> LOCATED <u>512</u> FEET FROM THE <u>North</u> LINE AND <u>2080</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>16</u> TWP. <u>29N</u> RGE. <u>10W</u> NMPM						12. County San Juan	
15. Date Spudded 6-21-83	16. Date T.D. Reached 7-5-83	17. Date Compl. (Ready to Prod.) 8-8-83	18. Elevations (DF, RKB, RT, GR, etc.) 5658' GL 5674' KB	19. Elev. Casinghead 5658'			
20. Total Depth 6157'	21. Plug Back T.D. 6074'	22. If Multiple Compl., How Many 1	23. Intervals Drilled By Rotary Tools 0-6157'	Cable Tools ---			
24. Producing Interval(s), of this completion - Top, Bottom, Name Gallup 5916' - 6056' & 5556' - 5876'						25. Was Directional Survey Made NO	
26. Type Electric and Other Logs Run DIGL/GR CDNL/GR						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"	24#	496' KB	12-1/4"	335 sx (See attached)	NONE		
4-1/2"	11.6#	6157' KB	7-7/8"	1585 sx (See attached)	NONE		
29. LINER RECORD							
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	30. TUBING RECORD		
---	NONE	---	---	---	SIZE	DEPTH SET	PACKER SET
---	---	---	---	---	2-3/8"	5307' KB	NONE
31. Perforation Record (Interval, size and number) Gallup 5916'-6056' 36 holes Gallup 5556'-5876' 41 holes				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
				DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED		
				5916'-6056'	See attached		
				5556'-5876'	See attached		
33. PRODUCTION							
Date First Production 8-8-83		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) SI	
Date of Test 8-30-83	Hours Tested 24 hrs	Choke Size 48/64"	Prod'n. For Test Period 4.5	Oil - Bbl. 4.5	Gas - MCF 129	Water - Bbl. -0-	Gas - Oil Ratio 28,667
Flow Tubing Press. 305	Casing Pressure 510	Calculated 24-Hour Rate 4.5	Oil - Bbl. 4.5	Gas - MCF 129	Water - Bbl. -0-	Oil Gravity - API (Corr.) 39.9°	
34. Disposition of Gas (Sold, used for fuel, vented, etc.) To be sold.						Test Witnessed By Ray Hitchcock	
35. List of Attachments 2 of #26 above and Daily Well History							
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 <u>W.A. Walther, Jr.</u>				TITLE <u>Operations Manager</u>		DATE <u>9-7-83</u>	

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 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 <u>695'</u>	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland <u>948'/1765'</u>	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs <u>2031'</u>	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House <u>3693'</u>	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee <u>3736'</u>	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout <u>4345'</u>	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos <u>4752'</u>	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup <u>5556'</u>	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 _____	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. _____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
				695'	948'	253'	Ojo Alamo
				948'	1765'	817'	Kirtland
				1765'	2031'	266'	Fruitland
				2031'	2115'	84'	Pictured Cliffs
				2115'	3137'	1022'	Lewis
				3137'	3693'	556'	Chacra
				3693'	3736'	43'	Cliff House
				3736'	4345'	609'	Menefee
				4345'	4752'	407'	Point Lookout
				4752'	5556'	804'	Upper Mancos
				5556'	6067'	511'	Gallup
				6067'	---	---	Lower Mancos

ARCO STATE #101
512' FNL & 2080' FEL
Section 16-29N-10W
San Juan County, New Mexico

28. CEMENTING RECORD:

8-5/8" casing cemented with 335 sx (391.95 cu.ft.) Class "B", 2% CaCl_2 , 1/4#/sx flocele (yield 1.17 cu.ft. per sx - 15.6 ppg). Precede slurry with 10 bbls water. Full returns throughout. Circled 13 bbls good cement to surface.

4-1/2" casing cemented in 2 stages. Pumped 25 bbls mud flush and cemented 1st stage with 280 sx (800.0 cu.ft.) 65/35 Class "B" poz with 12% gel, 12.5#/sx gilsonite, 1.4#/sx flocele, 1/2% CFR-2 (yield 2.86 cu.ft. per sx) followed by 255 sx (298.35 cu.ft.) Class "B" neat with 3/4% CFR-2 + 1/4#/sx flocele (yield 1.17 cu.ft. per sx). Bumped plug. Dropped bomb and opened DV tool. Circu. Pump 25 bbls mud flush and cemented 2nd stage with 400 sx (904 cu.ft.) Lite cement with 9% gel + 12-1/4#/sx gilsonite + 1/2% CFR-2 + 3% CaCl_2 (yield 2.26 cu.ft. per sx) followed by 650 sx (786.5 cu.ft.) poz mix with 2% gel + 1/4% CFR-2 (yield 1.21 cu.ft. per sx). Bump plug. Circled approx 5 bbls cement to surface.

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

5916'-6056'	Spotted 250 gals 7-1/2% HCL with inhibitor fines suspend agent, anti-sludging agent and non-emulsifier
5916'-6056'	Acidized with 1500 gals 7-1/2% HCL with additives as above and 54 balls
5916'-6056'	Foam frac using 451 bbls gelled KCL water, 1,348,944 SCF N_2 + 64,450# 20/40 sand
5556'-5876'	Spotted 350 gals 7-1/2% HCL with inhibitor, fines suspend agent, anti-sludging agent and non-emulsifier
5556'-5876'	Acidized with 2500 gals 7-1/2% HCL with additives as above and 62 balls
5556'-5876'	Foam frac using 934 bbls gel, 2,339,400 SCF N_2 + 145,434# 20/40 sand