

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

2. NAME OF OPERATOR

ARCO Oil and Gas Company, Division of Atlantic Richfield Company

3. ADDRESS OF OPERATOR

P.O. Box 5540, Denver, Colorado 80217

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 790' FNL & 1410' FEL

At top prod. interval reported below ----

At total depth ----

API #30-045-26592

14. PERMIT NO. DATE ISSUED
BLM 10-24-85

12. COUNTY OR PARISH STATE
San Juan New Mexico

15. DATE SPUDDED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (OF, RKB, RT, GR, ETC.)* 19. ELEV. CASINGHEAD
11-6-85 11-15-85 1-9-86 6281'GL 6293'KB ----

20. TOTAL DEPTH, MD & TVD 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS
4866' 4768' 1 ---- 0-4866' ----

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Mesaverde 4692'-4708' & 4620'-4658'

25. WAS DIRECTIONAL SURVEY MADE

NO

26. TYPE ELECTRIC AND OTHER LOGS RUN

DIL/GR FDC/CNL/GR-Cal

27. WAS WELL CORED

NO

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	504'KB	12-1/4"	350 sx	---
5-1/2"	15.5#	4866'KB	7-7/8"	1200 sx - 2 stage	---

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
		NONE		

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8"	4599'	---

31. PERFORATION RECORD (Interval, size and number)

4692'-4708' 1 SPF
4620'-4658' 1 SPF
4658'-4692' 1 SP4F

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OIL CON. DIV.
DIST. 3

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4730'-4560'	4 bbls acid
4658'-4708'	2500 gal + 72 ball sealers
4658'-4708'	52,700 gal + 24,616 # 10/20 sd
(OVER)	

33. PRODUCTION

DATE FIRST PRODUCTION 12-14-85 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Swabbed and flowed during completion WELL STATUS (Producing or shut-in) Shut in

DATE OF TEST 1-9-86 HOURS TESTED 3 CHOKE SIZE 48/64" PROD'N. FOR TEST PERIOD --- OIL—BBL. 180 GAS—MCF. --- WATER—BBL. --- GAS-OIL RATIO ---

FLOW. TUBING PRESS. 225 CASING PRESSURE 477 CALCULATED 24-HOUR RATE --- OIL—BBL. 1447 GAS—MCF. --- WATER—BBL. --- OIL GRAVITY-API (CORR.) ---

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

To be sold

TEST WITNESSED BY

Bobby Watchman

35. LIST OF ATTACHMENTS

2 of #26 above and Daily Well History

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

K.E. Baum / K.E. Baum

TITLE

Acting District Drilling Superintendent

DATE 2-4-86

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

17. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof, cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
NO CORES AND NO DST'S				Ojo	1413'	
				Kirtland	1651'	
				Fruitland	2087'	
				Pictured Cliffs	2340'	
				Lewis	2431'	
				Chacra	3243'	
				Cliffhouse	3919'	
				Menefee	4004'	
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.				Point Lookout	4607'	
				Mancos	4774'	
4620'-4708'	104,878 gals + 8000#	100 mesh sand, 86,000#	20/40 mesh sand			
	and 19,410#	10/20 mesh sand				

FEB 27 1980
 10 11 30 AM
 10 11 30 AM
 10 11 30 AM

Hammond #3
NW NE 790' FNE & 1410' FEL
Section 34-27N-8W
San Juan County, New Mexico

11/7/85 504 Day-1 (504') - WOC. (8-5/8" @ 504')
MW: 8.7 Vis: 45
Spud @ 1615 hrs, 11/6/85. Drld t/PD w/surveys. RU & ran 12 jts 8-5/8"
csg. Cmt'd w/350 sx CI "B" w/adds. Circ cmt t/surf. WOC.

11/8/85 504 Day-2 (0') - Prep t/tst BOPE's. (8-5/8" @ 504')
WOC. Cut off csg. Weld on head & test t/1000 psi. NU BOPE.

11/9-12 3834 Day-6 (3330') - Drlg. (8-5/8" @ 504')
Fin NU BOPE & tst. Tstd BOPE t/3000#-15 min, tst csg t/1000#, DO
t/2334'. Lost pmp press. TOH w/25,000# drag. Did not find W0 in pipe.
TIH, pmp press ok. Wsh & rm 70' t/btm. Drld t/2646', lost pmp press. TOH
& remove bad jt. TIH, wsh & rm 40' t/btm. Drld t/PD. Max hole dev;
1-1/2° @ 834'.

11/13/85 4335 Day-7 (501') - Drlg. (8-5/8" @ 504')
MW: 9.1 Vis: 37 PvYp: 10/5
Drld t/PD. Dev; 1-1/4° @ 3865', 4177'.

11/14/85 4860 Day-8 (525') - Drlg. (8-5/8" @ 504')
MW: 9.2 Vis: 55 PvYp: 19/10
Drld t/PD.

11/15/85 4866 Day-9 (6') - LD DP t/run csg. (8-5/8" @ 504')
MW: 9.2 Vis: 56 PvYp: 22/16
Circ & cond f/logs. TOH - SLM=4866.19', Board=4866.89', no corr. RU
Gearhart. Ran DIL/GR, FDC/CNL/GR/CAL. RD loggers. TIH W/bit. No fill.
Circ. ST. No fill. Circ & cond mud. LD DP.

11/16-18 4866 Day-12 (0') - RDRT, W0 completion (5-1/2" @ 4866')
LD DP & DC's. RU csg crew & run 116 jts 5-1/2" 15.50# K-55 LT&C csg. Two
stages cmt'd. 1st stage f/4866-2475' w/750 sx 50/50 Poz mix w/adds. 2nd
stage 2475'-surf, cmt w/350 sx Lite w/adds followed by 100 sx "H" cmt.
Circ cmt t/surf. NO BOPE & set slips & hung csg w/55M#. MU tbg head &
tstd t/3000 psi. RR @ 0500 hrs 11/16/85. Drop f/report until completion
commences.

Hammond #3
 NW NE 790' ~~FNL~~ & 1410' FEL
 Section 34-27N-8W
 San Juan County, New Mexico

12/6/85 4866	Day-1 PBD: 4778 - Drill out DV tool. (5-1/2" @ 4866') MIRU Farmington WS Rig #158 12/5/85. NU 5000 psi 80PE. TIH w/4-3/4" bit & 3 3-1/8" DC's. Tag'd DV @ 2472'. SDFN. Dropped f/report 11/16-18/85.
12/7-9 4866	Day-4 PBD: 4768' - Prep t/acidize & frac. (5-1/2" @ 4866') Drld 12' cmt & DV tool @ 2484'. TOH. PU csg scraper. CO t/PBTD 4768' KB. Circ w/2% KCL wtr. Ran CBL/VDL/GR/CCL f/PBTD t/2300'; exc bond 4776-4618', good bond f/4618-4535', exc bond f/4535-4300'. Press tst csg t/± 3500 psi f/10 min. Perf f/4692-4708' & 4620-4658' w/1 SPF. TIH & set bkr retrievomatic pkr @ 4578'. RU swb. Swabbed t/pkr. No gas or fluid entry. Filled frac tanks. ready t/acidize & frac.
12/10/85 4866	Day-5 PBD: 4768' - Prep t/CO & re-frac Mesaverde. (5-1/2" @ 4866') 41 hr SITP=200 psi. Bled dwn in 10 min. Swb w/no fld entry. TIH & spt'd 4 bbls acid f/4730-4560'. Set pkr @ 4471' w/25M#. RU Smith Energy & acidized w/2500 gals 15% HCL, BDP=2400 psi. Dropped 72 balls & balled off w/exc ball action. Held 3800 psi f/15 min. Rel press, cont pmpng, balled off again. Rel press. Fin displ flush. Knock balls off perfs & POH w/pkr. Frac Mesaverde w/33M gals 25 ppg x-linked wtr pad followed by 10M gals w/1 ppg 10/20 sand, & 9.7M gals w/1-1/2 ppg 10/20 sand. Screened out w/3600 psi w/24,616# 10/20 sand & 52,700 gal fluid in zone. AIR=40.5 BPM & 1100 psi. SI t/let gel brk.
12/11/85 4866	Day-6 PBD: 4768' - Prep t/ re-frac. (5-1/2" @ 4866') 17 hr SICP=0 psi. FL @ surf. TIH w/tbg. Tagged frac snd @ 3575'. CO t/PBD=4768'. Lst 100 bbls while cln across perfs. TOH w/tbg. Ran GR tracer svy. Snd f/4612-4712' (perf interval 4620-4705'). Frac stayed in zone. SDFN.
12/12/85 4866	Day-7 PBD: 4768' - Prep t/ re-frac Mesaverde. (5-1/2" @ 4866') 14 hr SICP=vaccum. TIH w/pkr. Swbd & rec gas cut wtr & snd. RD swb & TOH w/tbg & pkr. TIH w/csg gun t/perf f/4658-4692'. Snd fill @ 4655'. RD perf. SDFN.
12/13/85 4866	Day-8 PBD: 4768' - SI to let gel brk. (5-1/2" @ 4866') 13 hr SICP - 0 psi. CO sd to 4692'. Perf 4658-4692' w/1 SP4F. CO to 4730'. Frac Mesaverde w/20M gal slick wtr pre-pad, 80,260 gal gelled wtr, 4618 gals slick wtr flush, 8000# 100 mesh sd, 86M# 20/40 sd, 1941M# 10/20 sd. Max sd conc 3-1/2 ppg 10/20 sd. BDP - 2150 psi @ 60 BPM. AIR 60.5 BPM @ 1650 psi. ISIP 1100 psi, 5 min SIP 900 psi, 10 min SIP 800 psi, 15 min SIP 800 psi. SI to let gel brk.

Hammond #3
 NW NE 790' & 1410' FEL
 Section 34-27N-8W
 San Juan County, New Mexico

12/14-16 4866	Day-10 PBD: 4768' - Prep to cont swbg. (5-1/2" @ 4866') In AM 12/14/85, 15 hr SITP vac. Tagged sd @ 4646' & CO to 4730' w/bailer. Swbd w/gas cutting. SDFN. In AM 12/15/85, 15 hr SICP vac. CO to 4736'. TIH w/tbg OE. IFL 1100'. Made 16 swb runs, rec'd 97 BLW, mod gas cut, FFL 1800'. RD swb. TIH w/tbg. SDFN.
12/17/85 4866	Day-11 PBD: 4768' - Cont to swb. (5-1/2" @ 4866') In AM 39 hr SITP sli blw, SICP vac. NO BOPE. NU Xmas tree. Lnd'd tbg OE @ 4599' KB. RU swb, $\pm$ FL 1300'. Made 22 swb runs, rec'd 178 BLW mod gas-cut. FFL 2000'. SDFN.
12/18/85 4866	Day-12 PBD: 4768' - Cont to swb. (5-1/2" @ 4866') 14 hr SITP=50 psi, SICP=0 psi. RU swb. IFL 1500'. Made 21 swb runs. Rec 214 BLW, heavily gas cut. Csg press inc f/0psi t/160 psi. SDFN.
12/19/85 4866'	Day-13 PBD: 4768' - Cont to swb. (5-1/2" @ 4866') 14 hr SITP=250 psi, SICP=270 psi. IFL 1800'. Made 5 swb runs. Rec 53 BLW, heavily gas cut w/good show of condensate. RDMO Farmington Rig #158. MIRU swbng unit. Made 13 swb runs, rec'd 151 BLW. Csg press 450 psi. SDFN.
12/20/85 4866	Day-14 PBD: 4768' - Cont to flw/tst. (5-1/2" @ 4866') 14 hr SITP=325 psi, SICP=525 psi. SFL 1700'. Made 17 swb runs. SICP incr t/700 psi. Condensate incr f/2% t/10%. Well started flwg @ 1500 hrs. FTP=25, FCP=700. Left well flwg overnight.
12/21-23 4866	Day-17 PBD: 4768' - TOTPS. (5-1/2" @ 4866') Flwd well over night. FTP=25 psi, FCP=550 psi. Well making alot of wtr. TOTPS @ 2:00 pm, 12/20/85. <u>Drop f/report pending results of potential</u> <u>test.</u>
01/31/86 4866	Day- PBD: 4768' - <u>FINAL REPORT - COMPLETED GAS WELL</u> , 1/9/86. (5-1/2" @ 4866') Final flw data after 20 day SI is 1447 MCFD through 48/64" choke. Dropped Perfs: 4692-4708' 1 SPF, 4620-4658' 1 SPF. (Dropped f/report of 12/21-23/85.) LPP=4708'.