

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

(See other instructions on reverse side)

FOR APPROVED  
OMB NO. 1004-0137  
Expires: December 31, 1991

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 ☒ Recompletion

2. NAME OF OPERATOR: Amoco Production Company  
Attention: Julie Acevedo

3. ADDRESS AND TELEPHONE NO.: P.O. Box 800, Denver, Colorado 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 1350' FSL 685' FWL UNIT  
At top prod. interval reported below  
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: SF-078051  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
7. UNIT AGREEMENT NAME  
8. FARM OR LEASE NAME, WELL NO.: Mudge Com B 2E  
9. API WELL NO.: 3004525381  
10. FIELD AND POOL, OR WILDCAT: Blanco Mesaverde  
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Section 14 Township 31N Range 11W

14. PERMIT NO. DATE ISSUED 12. COUNTY OR PARISH: San Juan 13. STATE: New Mexico

15. DATE SPUDDED: 05/28/82 16. DATE T.D. REACHED: 06/06/82 17. DATE COMPL. (Ready to prod.): 07/28/93 18. ELEVATIONS (DF, RKB, RT, GR, ETC.): 5865' KB 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD: 7105' KB 21. PLUG, BACK T.D., MD & TVD: 7093' KB 22. IF MULTIPLE COMPL., HOW MANY: 1 23. INTERVALS DRILLED BY: ROTARY TOOLS YES 070 CABLE TOOLS NO 034

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)\*: 4129'-4869' Blanco Mesaverde  
25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: 27. WAS WELL CORED: No

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
9 5/8"	36#	328' KB	12.250	285' ex CL B	0
7"	23#	4725' KB	8 3/4"	1st: 160' ex CL B	0
				2nd: 110SX CL B, 100SX CL B	

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4 1/2"	4564' KB	7105' KB	290		2 1/16"	6985'	5100'
					1 1/2"	4511'	

31. PERFORATION RECORD (Interval, size and number)  
See Attached  
AUG - 6 1993  
OIL CON. DIV  
DIST. 3

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.  
DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED  
See Attached

33. PRODUCTION  
DATE FIRST PRODUCTION: 07 01 1993  
PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump): Flowing  
WELL STATUS (Producing or shut-in): SI/WO/Pipeline  
DATE OF TEST: 07 27 1993 HOURS TESTED: 24 CHOKE SIZE: 1/2" PROD'N FOR TEST PERIOD: 0 OIL - BBL: 500 GAS - MCF: 0 WATER - BBL: 0 GAS-OIL RATIO  
FLOW TUBING PRESS: 300 CASING PRESSURE: 400 CALCULATED 24-HOUR RATE: 0 OIL - BBL: 500 WATER - BBL: 0 OIL GRAVITY - API (CORR.):  
ACCEPTED FOR RECORD

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): To be Sold TEST WITNESSED BY

35. LIST OF ATTACHMENTS: AUG 04 1993

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records  
SIGNED: Julie L. Acevedo TITLE: Sr. Staff Assistant DATE: 07-29-1993

37. 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):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
San Jose	Surface	723'	Sandstone
Ojo Alamo	723'	814'	Sand, water
Kirtland	814'	2163'	Sand, shale
Fruitland	2163'	2530'	Sand, shale, coal
Pictured Cliffs	2530'	2725'	Sand, gas
Lewis	2725'	3981'	Shale
Mesaverde	3981'	4121'	Sand, shale
Cliffhouse	4121'	4316'	Sand, shale, gas
Menefee	4316'	4776'	Sand, shale, coal, gas water
Point Lookout	4776'	5060'	Sand, gas
Mancos	5060'	5943'	Shale
Gallup	5943'	6787'	Shale, siltstone
Graneros	6839'	6895'	Shale
Dakota	6895'	TD	Sand, shale, gas

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Greenhorn	6787'	

MIRUSU 6-7-93, NDWH, NUBOPS. TIH tag fill 7056', TIH W/RET plug & set @ 6800'. TOH W/ RET. TIH set PKR @ 4556' (15' below liner top), press. test to 1000psi Held OK. Start out of hole, isolating holes BTM hole 3770'-3801', 2nd hole 2937'-2969', TOH W/PKR, TIH W/7" RET tension PKR, set PKR @ 3200', mix & pump 400sx Cl B, AIR 3.2 BPM at 14-1800psi., Displace cmt to 3450'. Rel PKR & pull up to 2426', set PKR, mix & pump 150sx Cl B cmt, displace cmt to 2750'. TIH tag cmt @ 2615', drill cmt to depth of 2956', press. test to 3000psi. held OK. TOH, TIH & tag cmt @ 3444'. Drilled 374' cmt to 3818'. Press. test to 1000psi. Held OK. Re- Press. up to 1000psi. would not hold. TIH to liner top @ 4540', TIH W/PKR to 4523' and press test liner top to 3000psi Held. TOH & isolate leak in casing between 3770'-3801'. TOH W/ PKR & TIH open ended TBG to 3828', mixed & spotted cmt, 50sx Cl B. pulled up to 3206' & staged in 1/4 BBls cmt- to 1000psi., left 270' cmt in csg. TOH W/TBG, TIH W/bit & tagged up @ 3566', drilled cmt 276' to 3842'. Press test to 500psi. OK. NDBOP & wellhead, install 5000psi well head and frac valve, NU BOPS. RU WLE and ran CBL CCL GR log from 5000' to surf, CMT top on 4.5" CSG @ 4752', CMT top on 7" csg @ 2575', RIH and perf SQ holes 4 JSPF @ 4746' .4" hole, RD WLE. TIH W/RET PKR to 476', press. test CSG and PKR to 500psi, EST. inj. @ 2 BPM @ 1400psi with 8 BBls, Rel. PKR & TIH W/CMT RET & set @ 4638', RU CMT equip. & mixed & pump 50sx CL B cmt & displaced W/16.5 BBls to SQ press. of 2000 psi. ( 7.5 BBls behind casing, 1.7 BBl below ret. & reversed out 1 BBl cmt) stung out of RET. & TOH. TIH & tag cmt @ 4606' & drill cmt & cmt ret @ 4638', drill out of cmt @ 4766', press. test csg to 500psi Held OK. TIH to 4900' & circ hole clean, TOH W/bit & DC, RU WLE. & ran CBL, CCL, GR from 4900' to liner top, cmt top on 4.5 csg @ 4715', RD WLE.

Perf: Perf MV intervals 4746'-4750, 4776'-4792', 4800'-4818', 4823'-4828', 4835'-4839', 4846'-4851', 4858'-4863', 4866'-4869', W/2 JSPF, .4" hole. Frac MV interval 4746'-4869' with 44961 pad X-linked and 170000# 12/20 sand, displaced with 2965 BBls, AIR 70 BPM, max press 2525 psi total fluid Volume 93403 gal.

TOH with Frac string and PKR- TIH with RBP and PKR and set RBP @ 4525' press. test to 2500psi. Held Ok. TOH and dumped 4 sx sand on RBP.

Perf: Perf MV intervals 4129'-4151', 4162'-4166', 4170'-4174', 4224'-4252', 4259'-4265', 4272'-4282', 4290'-4310', W/2 JSPF, .5" hole 188 total shots. RD WLE, TIH W/PKR and set @ 4050', press. test annulus to 500psi, Held OK. press test TBG, donut & flanges to 3500psi Held OK. Frac MV interval from 4129'-4310' with 70 quality N2 foam & 123300# of 16/30 sand, AIP 2415, AIR 54 BPM. Total N2 pumped= 954200 SCF AVG rate =19281 SCF/MIN.

REL PKR @ 4050'. TOH. TIH W/ RBP and set @ 2898'. TOH W/ RET head and dumped 3sx sand on RBP. RIH W/ WLE and perf CSG @ 2520' W/2 JSPF .5" diam., pump 20 BBls 2% KCL water into perfs @ 1BPM @ 800psi. TIH W/CMT RET. & set @ 2323' & press test to 500psi. SQ hole @ 2520' W/150sx Cl B cmt, displaced cmt to cmt ret and stung out. TIH & tagged cmt ret @ 2323' and drilled out cmt ret and cmt to 2514'. (perf @ 2520') press. test to 500psi lost 100psi in 15 min. TIH W open ended tbg to 2569'. RU cmt equip- mix & spot 50sxs Cl B, displace 5.5 BBls behind pipe to squeeze press of 484psi. TIH tag cmt 2392', drill out to 2569'. press. test to 500psi Held OK. TIH -tag sand 6368' clean out. TIH W/bit tag fill 7004', attempt to clean out no go. TIH with mill & drill collars tag tight spot at 7004', mill 4", TOH. TIH 4 jts 2-1/16" on 2-3/8" - TIH clean out to 7098'. TOH LD 2 3/8" tbg, chg rams to 2 1/16". RI WLE, set 4-1/2" Baker model D PKR @ 5100'. Land longstring- run shortstring, NDBOPS, NUWH. Test wellhead seals to 2000psi. OK. TBG in hole as follows: Longstring 2 1/16" landed @ 6985', Baker Model D PKR @ 5100'. (note tight spot in 4- 1/2 at 7004') Shortstring 1 1/2" landed @ 4511', 1/2 mule shot welded shut. RDMOSU. 7/28/93.