

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

(See other in-
structions 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 <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. SF-080597	
b. TYPE OF COMPLETION: NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Amoco Production Company		7. UNIT AGREEMENT NAME GARTNER A #5B	
3. ADDRESS AND TELEPHONE NO. P.O. Box 800, Denver, Colorado 80201		8. FARM OR LEASE NAME, WELL NO. Arnold Federal A 1	
4. LOCATION OF WELL (Report location clearly and in accordance with the data required by the well completion log) At surface 960' FNL 1190' FWL At top prod. interval reported below At total depth		9. API WELL NO. 3004528959	
14. PERMIT NO.		12. COUNTY OR PARISH San Juan	
DATE ISSUED		13. STATE New Mexico	
15. DATE SPUDDED 7/6/93	16. DATE T.D. REACHED 8/4/93	17. DATE COMPL. (Ready to prod.) 7/8/95	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5879' GR
20. TOTAL DEPTH, MD & TVD 7304	21. PLUG, BACK T.D., MD & TVD 7026	22. IF MULTIPLE COMPL., HOW MANY* 2	23. INTERVALS DRILLED BY ROTARY TOOLS YES CABLE TOOLS NO
24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* Mesaverde 4035-4291			25. WAS DIRECTIONAL SURVEY MADE No
26. TYPE ELECTRIC AND OTHER LOGS RUN no logs run			27. WAS WELL CORED No

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
13.375 K55	68#	402'	17.5"	465 sx Class B	
9.625 K55	36#	2927'	25.25"	260 sx C1 B; 2nd stage:	
				615 sx C1 B, Tail w/ 100 sx C1 B	
7.000 K55	23#	6860'	8.75"	830 sx Class B	

LINER RECORD					TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4.5"	6665'	7304'	160sx C1 G		2.375	4303'	

PERFORATION RECORD (Interval, size and number)				ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
See attachment				DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
				See attachment	

PRODUCTION							
DATE FIRST PRODUCTION 6/23/95		PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) Flowing				WELL STATUS (Producing or shut-in) S/I-WAITING ON PIPLN	
DATE OF TEST 7/7/95	HOURS TESTED 15	CHOKE SIZE .5"	PROD'N FOR TEST PERIOD	OIL - BBL. 0	GAS - MCF. 0	WATER - BBL. 7	GAS-OIL RATIO
FLOW TUBING PRESS 7	CASING PRESSURE 100	CALCULATED 24-HOUR RATE	OIL - BBL. 0	GAS - MCF. 0	WATER - BBL. 11	OIL GRAVITY - API (CORR.)	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) To be sold	TEST WITH GAS
--	---------------

35. LIST OF ATTACHMENTS Perf & frac sheet, C102	JUL 27 1995
--	-------------

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records	NMOCD	FARMINGTON DISTRICT OFFICE
SIGNED <u>Patty Haefele</u>	TITLE <u>Staff Assistant</u>	BY <u>21</u> DATE <u>7-21-95</u>

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

7. 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	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
				Kirkland	1275'	
				Fruitland	2390'	
				Pictured Cliffs	2676'	
				Lewis Shale	2860'	
				Cliff House	4401'	
				Menefee	4531'	
				Point Lookout	4881'	
				Mancos Shale	5258'	
				Greenhorn	6843'	
				Dakota	6963'	

Arnold Federal A 1

Sec. 27-T30N-R8W

30-045-28959

MIRUSU 6-9-95. Circulate clean. Reland tubing at 7096 ft. Spotted barite and sand 7216-7232 to try and isolate the water zone. Set cement retainer at 7026 ft. Pressure at 500 psi.

Squeeze the Dakota formation 7076-7232 ft with 5 sx Class B 65/35 poz, 14.0 ppg, 1.250 cuft/sx yield, 2% gel.

Plugback 7232-7029 ft with 14 sx 65/35 poz w/ 2% gel at 3000 psi at 1 bpm.

Plugback 7026-6523 ft with 50 sx 65/35 poz w/ 2% gel, 4000 psi, 1 bpm. Isolate leak at 3955 ft. Set packer at 3645' to squeeze hole in casing.

Squeeze 3941-3955 ft with 67 sx Class B cement, 15.6 ppg, 1.230 cuft/sx yield, 3.0 bpm, 849 psi.

spot cont. from
Plugback 3962-3730' with 33 sx Ideal cement *Drill out* Circ hole clean, pressure test 1000 psi.

Perforations: 4264, 4265, 4266, 4289, 4290, 4291 w/ 2 JSPF, 12 total shots, gun size 4", phasing 120 deg, 23 gms. TIH with PPI tool, break down perfs: bottom 3 perfs communicating, top 3 perfs broke down at 700 psi at 1 bpm. TOH with PPI. Top of liner at 3920 ft, bottom at 3998 ft.

Frac 4264-4291 ft with 83,286 lbs 20/40 sand, scf 815338, 70% quality, 30 gel strength, breakdown pr 2652 psi, 7.7 bpm.

Perforate Lewis shale: 4035, 4055, 4075, 4095, 4118, 4140, 4160, 4180 with 1 JSPF, 8 total shots, .340" diameter, 3.125" gun size, 180 deg phasing, 12 gms.

Frac Lewis shale 4035-4180 ft with 93,500 lbs sand and 807725 scf n2, 70% quality, avg rate 30 bpm, avg pressure 2180 psi, SICP 1075 psi. Flow 15 hrs on 1/2" choke.

TIH and pulled frac liner and pulled RBP. TIH with tubing and swab. TIH with ret head and cleaned out sand off RBP at 4220 ft and pulled RBP. TIH with production tubing and landed at 4303 ft.
RDMOSU 7/8/95.

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

55 JUL 25 1994

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 APT Number 30-045-28959		1 Pool Code 72319		1 Pool Name Blanco Mesaverde		
4 Property Code		4 Property Name Arnold Federal A			4 Well Number 1	
1 OGRID No. 000778		1 Operator Name Amoco Production Company			1 Elevation 5879' GR	

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	27	30N	8W	D	960	North	1190	West	San Juan

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres 320 W/2	13 Joint or Infill	14 Consolidation Code	15 Order No.
-------------------------------	--------------------	-----------------------	--------------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>16</p>	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p><u>Patty Haeefe</u> Signature Patty Haeefe Printed Name Business Associate Title <u>6/13/95</u> Date</p>			
	<p>18 SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p><u>March 4, 1993</u> Date of Survey Signature and Seal of Professional Surveyer: Gary Wann 7016 Certificate Number</p>			