



Southern
Rockies
Business
Unit

June 3, 1996

Mr. William J. LeMay, Director
New Mexico Oil Conservation Division
2040 S. Pacheco Street
P.O. Box 6429
Santa Fe, NM 87505

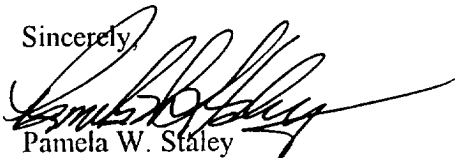
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JUN - 6 1996
OIL CON. DIV.
DIST. 3

Application For Exception to Rule 107-J(2)
Requirements for Tubing of Wells
Archuleta #1B Well
980' FNL & 1230' FWL, Unit C Section 30-T30N-R8W
Blanco Mesaverde Pool
San Juan County, New Mexico

Amoco Production Company hereby requests administrative approval for exception to NMOCD general rule (107-J-2) to permit production of a gas well equipped with casing larger in size than 2 7/8-inch OD without tubing. Amoco is currently drilling this well and does not intend to use tubing in the production of the well. The casing for this well is scheduled to be 3.5-inch OD. This well will be completed as a single completion in the Mesaverde formation. Total depth of the well is projected to be less than 5000' (4739'). The well is within one mile of existing Blanco Mesaverde production and is not a wildcat (See attached plat of Mesaverde wells). No waste is expected to occur as a result of not having tubing in the hole.

Should you have questions, do not hesitate to call me at (303) 830-5344.

Sincerely,

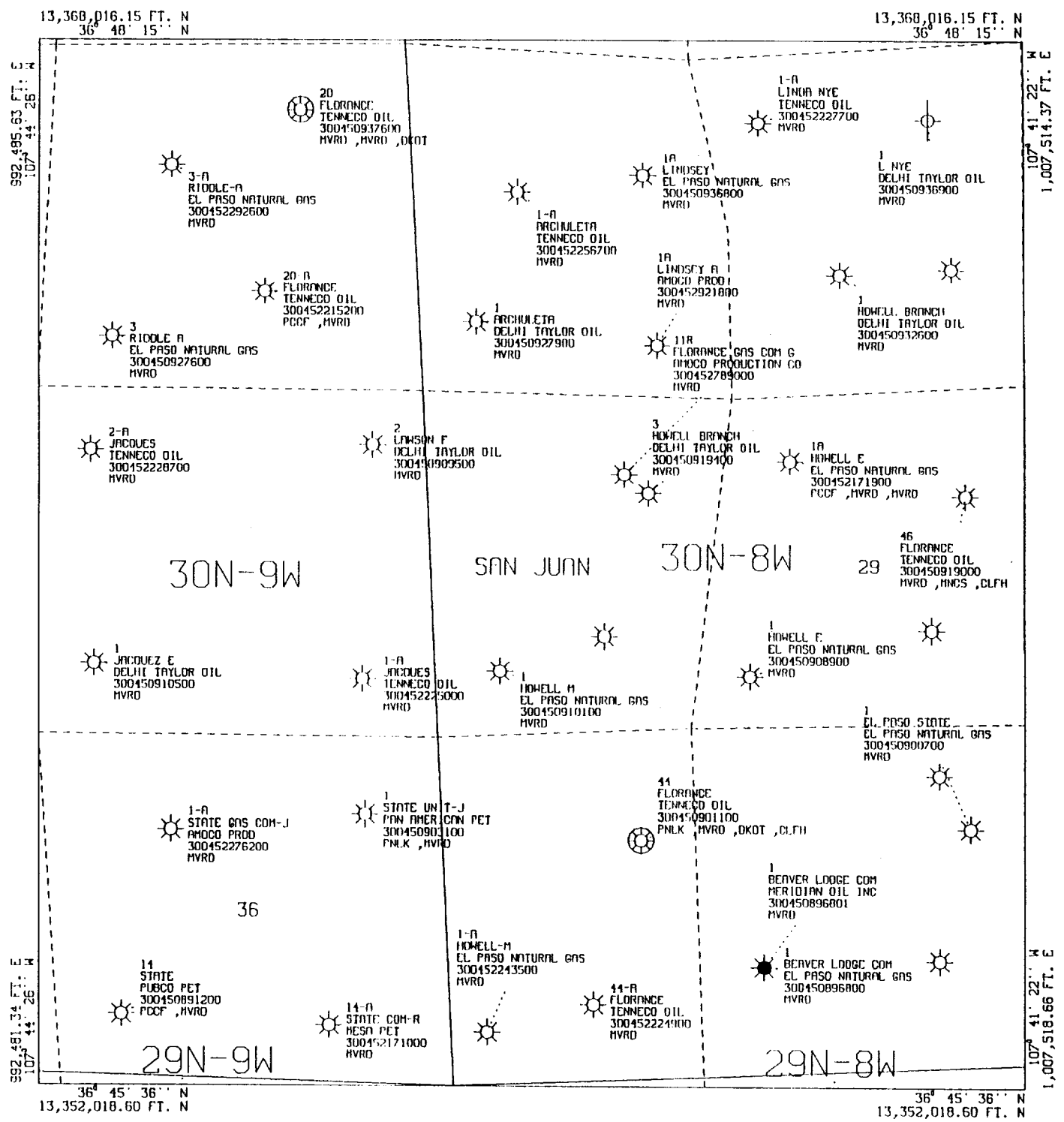

Pamela W. Staley

Attachments

cc: Frank Chavez, Supervisor
NMOCD District III
1000 Rio Brazos Road
Aztec, NM 87410

Robert DeHererra, Amoco
Patty Haeefe, Amoco

12:55:41 MON 3 JUN, 1996 JOB#0932302, ISSCO DISPLA 10.0



All geological and geophysical data, including the interpretation thereof, appearing on this map is the private and confidential property of Amoco Production Company. The publication or reproduction thereof without the written permission of said Company is strictly prohibited.



AMOCO PRODUCTION COMPANY
PLAT MAP
Archuleta 1B
Blanco Mesaverde

SCALE 1 IN. = 2,000 FT. JUN 3, 1996

123--RUN#96155104955

AMOCO PRODUCTION COMPANY
DRILLING and COMPLETION PROGRAM

Lease: Archuleta
 County: San Juan New Mexico
 Former name:

Well No. #1B
 Surface Location: 980' FNL & 1230' FWL of Section 30, T30N, R8W
 Field:

OBJECTIVE: Single MV		APPROXIMATE DEPTHS OF GEOLOGICAL MARKER	
METHOD OF DRILLING		Actual GL-----Estimated KB 5651 5663	
TYPE OF TOOLS	DEPTH OF DRILLING		
Rotary	Ground Level - TD		
LOGGING PROGRAM			
TYPE	DEPTH	Marker	Depth (ft.)
			SS Elev. (ft.)
Triple Combo (GR-SP-CAL-HRI-SDL-DSN-ML)	Spud to TD	Ojo Alamo	1,134
		Kirtland	1,350
		Fruitland Coal	2,071
		PC	2,377
		Lewis Shale	2,479
		Cliff House *	4,074
		Menefee Shale *	4,154
		Point Lookout *	4,539
		Mancos	4,689
		Gallup	
		Greenhorn	
		Dakota	
		TOTAL DEPTH	4,739
Logging Program Remarks:			
		* Possible pay	
		** Probable completion	
		Ojo Alamo is possible usable water	
SPECIAL TESTS		DRILL CUTTING SAMPLES	
TYPE	DEPTH INTERVAL, ETC	FREQUENCY	DEPTH
None		None	None
Remarks:		DRILLING TIME	
		FREQUENCY	
		Geograph	
		DEPTH	
		Surf - TD	
		Mud Logging Program: None	
		Coring Program: None	

MUD PROGRAM:

Approx. Interval	Type Mud	Weight, #/gal	Vis, sec/qt	W/L, cc's/30 min.
50' - 2629' (1) (2)	Water	8.6 - 9.2	Sufficient to clean hole	N/C
2629' - TD (3)	Air/Gas			

Mud Program Remarks:

- 1 - The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency.
- 2 - If required to mud up, mud up with a LSND designed for good hole cleaning.
- 3 - If required to mud up, mud up with a LSND designed for good hole cleaning, API WL between 10 -15.

CASING PROGRAM:

Casing String	Estimated Depth	Casing Size	Hole Size	Landing Point, Cement, Etc
Conductor	50	8-5/8"	12.25"	
Surface	2,629	5-1/2"	7.875"	1, 2
Production	4,739	2-7/8"	4.75"	3

Casing Program Remarks:

- 1 - Circulate cement to surface.
- 2 - Set casing 150' into the Lewis Shale.
- 3 - Circulate cement at least 200' into the surface casing overlap.

GENERAL REMARKS:

Business Unit Engineering staff to design completion program.

Form 46 Reviewed by:

PREPARED BY:

P. Edwards/Craig/Ovitz

Form 46 7-84bw

Date: 4/13/95

Logging program reviewed by:

APPROVED:

For Production Dept

Rev. Date: 3/18/96 14:15

APPROVED:

For Exploration Dept

File: archul1b xl-7

District I
P.O. Box 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2010 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-101
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address: Amoco Production Company P.O. Box 800 Denver, Colorado 80201		OGRID Number 000778
		API Number 30 - 045 - 29261
Property Code 268	Property Name Archuleta	Well No. 11B

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	30	30N	8W		980	North	1230	West	San Juan

Proposed 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
Proposed Pool 1 Blanco Mesaverde 72319 342.54					Proposed Pool 2				

Work Type Code N	Well Type Code G	Cable/Rotary R	Lease Type Code P	Ground Level Elevation 5651'
Multiple No	Proposed Depth 4739'	Formation Gallup	Contractor Aztec	Spud Date 6/1/95

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12.25"	8.625"	24#	50'	30sk C1 B	Surface
7.88"	5.5"	14#	2629'	395sk C1 B	Surface
4.75"	2.875"	6.5#	4739'	165sk C1 B	2400'
	3 1/4"				

Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

See Attached:

RECEIVED
JUN 23 1995

OIL CON. DIV.
DIST. 2

RECEIVED
JUN - 2 1995

OIL CON. DIV.
DIST. 3

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Julie L. Acevedo*
Printed name: Julie L. Acevedo
Title: Sr. Staff Assistant

Date: 5/4/95
Phone: 303-830-6003

OIL CONSERVATION DIVISION

Approved by: *James B. Buel*
Title: DEPUTY OIL & GAS INSPECTOR, DIST. #3

Approval Date: JUN 23 1995
Expiration Date: JUN 23 1996

Conditions of Approval:
Attached ☐

Albuquerque, NM 88141-1740

Albuquerque, NM 88110

1500 Briscoe Rd., Alamo, NM 87410

Alamo, NM

1500 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-10
Revised October 18, 1992
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

9. AM Number 90-045-29261		1. Pool Code 72319		2. Pool Name Blanco Mesaverde	
3. Property Code 268		4. Property Name Archuleta			
5. OCHID No. 000778		6. Operator Name Amoco Production Company			
				7. Well Number #1B	
				8. Elevation 5651	

10. Surface Location

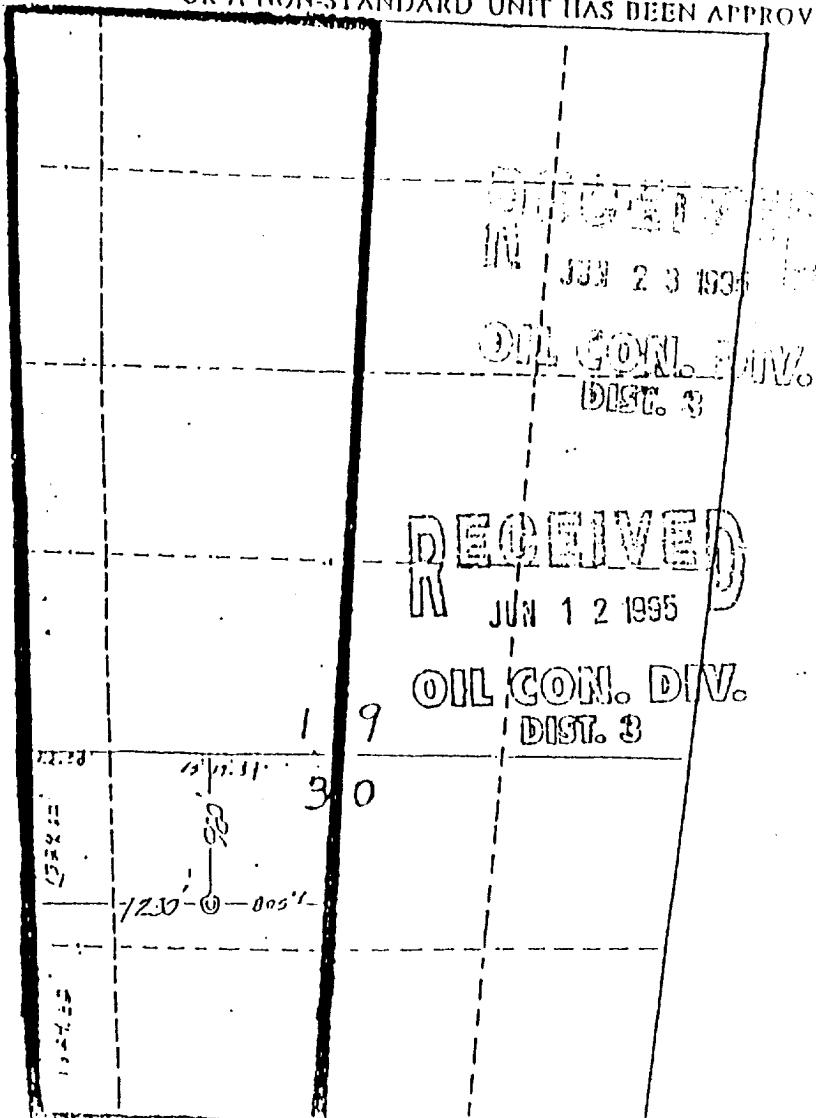
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	30	30N	8W		980	North	1230	West	San Juan

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 342.54	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



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DIST. 3

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OIL CON. DIV.
DIST. 3

17. OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Julie L. Acevedo
Signature
Julie L. Acevedo
Printed Name
Sr. Staff Assistant
Title
6/7/95
Date

18. SURVEYOR CERTIFICATION

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.

October 26, 1994
Date of Survey

Signature and Seal of Professional Surveyor

On File

7016
Certificate Number

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-105
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION
P.O. Box 2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

Santa Fe, New Mexico 87504-2088

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO. 3004529261
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Archuleta
8. Well No. 1B
9. Pool name or Wildcat Blanco Mesaverde

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐		7. Lease Name or Unit Agreement Name Archuleta	
b. Type of Completion: NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER ☐		8. Well No. 1B	
2. Name of Operator Amoco Production Company		9. Pool name or Wildcat Blanco Mesaverde	
3. Address of Operator P.O. Box 800 Denver Colorado 80201 (303) 830-4988		10. Date Spudded 5/15/96	
4. Well Location Unit Letter C : 980 Feet From The North Line and 1230 Feet From The West Line Section 30 Township 30N Range 8W NMPM San Juan County		11. Date T.D. Reached 6/4/96	
12. Date Compl. (Ready to Prod.) 8/16/96		13. Elevations (DF & RKB, RT, GR, etc.) 5651' GR	
14. Elev. Casinghead		15. Total Depth 4810'	
16. Plug Back T.D. 4728'		17. If Multiple Compl. How Many Zones? 18. Intervals Drilled By Rotary Tools YES Cable Tools NO	
19. Producing Interval(s), of this completion - Top, Bottom, Name Mesaverde 3880-4690'		20. Was Directional Survey Made No	
21. Type Electric and Other Logs Run TMD		22. Was Well Cored No	

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8.625"	24#	132'	12.25"	100 sx C1 B	
5.5"	14#	2605'	7.875"	300 sx C1 B, Tail w/ 100 sx C1 B	
3.5"	9.3#	4783'	4.75"	130 sx C1 B	

24. LINER RECORD				25. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					no tubing		

26. Perforation record (interval, size, and number) See attachment	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	See attachment	

28. Date First Production 6/24/96		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) SI; W/O 1st delivery	
Date of Test 8/15/96	Hours Tested 21	Choke Size 1/2"	Prod'n For Test Period	Oil - Bbl. 0	Gas - MCF 3096	Water - Bbl. 0	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure 480	Calculated 24-Hour Rate	Oil - Bbl. 0	Gas - MCF 3538	Water - Bbl. 0	Oil Gravity - API - (Corr.)	

29. Disposition of Gas (Sold, used for fuel, vented, etc.) To be sold	Test Witnessed By
--	-------------------

30. List Attachments Perf and Frac page
--

31. 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

Signature Patty Haefele Printed Name Patty Haefele Title Staff Assistant Date 8/19/96

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Northwestern New Mexico

OIL OR GAS SANDS OR ZONES

IMPORTANT WATER SANDS

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology

From	To	Thickness in Feet	Lithology

Archuleta 1B

30-045-29261

Sec. 30 T30N R8W

Work commenced 6/13/96. Pressure test casing and frac valve to 5000 psi, held ok. Run TMD log from 3700-4728'. Limited entry perforations in Point Lookout at: 4500', 4511', 4518', 4538', 4558', 4562', 4580', 4591', 4606', 4615', 4636', 4642', 4646', 4663', 4671', 4677', 4683', 4690' with 1 JSPF, .290" diameter, 2" gun, 120 deg phasing. Acidize 4500-4690' with 12 bbls hydrochloric acid, 5150 psi, 7 bpm. Frac well from 4500-4690' with 45,927 lbs 16/30 sand; 530,989 scf, 70% quality, max pressure 3268 psi, max rate 25 bpm. Begin flowing well on 6/24/96. Tagged sand at 4670'. Set plug above Point Lookout formation at 4480'. Blew down well to 0 psi. Loaded hole with clayfix water and pressure test casing to 2100 psi, held ok.

Limited entry perforations in Menefee at: 4406', 4400', 4394', 4389', 4384', 4380', 4376', 4371', 4358', 4354', 4347', 4344', 4324', 4280', 4267', 4252', 4237', 4232' with 1 JSPF, 18 total shots, .290" diameter, 2" gun, 120 deg phasing, 7.5 gms. Acidize 4232-4406' with 12 bbls acid, max pressure 2650 psi, max rate 4.0 bpm. Frac well from 4232-4406' with 77,093 lbs 16/30 sand; 1,046,478 scf, 70% quality, max pressure 4705 psi, max rate 30 bpm. Flowing well. Tagged bottom (4361') with 100' of fill over bottom perms. Set plug at 4195'. Loaded hole with water and tested plug to 2000 psi, held ok.

Limited entry perforations in Cliffhouse at: 4172', 4154', 4148', 4142', 4137', 4123', 4118', 4114', 4110', 4106', 4102', 4099', 4092', 4087', 4080', 4005', 3996', 3968', 3880' with 1 JSPF, 19 total shots, .290" diameter, 2" gun, 120 deg phasing, 7.5 gms. Plugback to 4180'. Acidize 3880-4172' with 12 bbls hydrochloric acid, 4800 psi, 4.1 bpm. Frac 3880-4106' with 88,886 lbs 16/30 sand; 1,465,386 scf, avg pressure 3492, avg rate 10 bpm. Flowing well. Tag at 4179'. SICP 500 psi. Tag sand at 4140' and clean out to drill plug at 4195', drill out. Tag sand at 4375' and clean out to drill plug at 4660' and drill out. Tag sand at 4660' and cleanout to PBTD of 4728'. Cleanout with air. Flow test well. SICP 560 psi. Tag fill at 4722'. No tubing in hole. RDMOSU 8/15/96.