Submit 3 Copies to Appropriate District Office

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised 1-1-89

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

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

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

OIL CONSERVATION DIVISION

P.O.Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO. 3004509106

5. Indicate Type of Lease STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name: Jacques

1. Type of Well: OIL WELL ☐ GAS WELL ☒ OTHER

2. Name of Operator: AMOCO PRODUCTION COMPANY Attention: Pat Archuleta

8. Well No. #1

P.O. Box 800 Denver Colorado 80201 303-830-5217

9. Pool name or Wildcat: Blanco Mesaverde

4. Well Location
Unit Letter M : 1090 Feet From The SOUTH Line and 850 Feet From The WEST Line

Section 25 Township 30N Range 9W NMPM SAN JUAN County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

11. Check Appropriate Box to Indicate Nature of Notice Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	PLUG AND ABANDONMENT	☐
PULL OR ALTER CASING	☐			CASING TEST AND CEMENT JOB	☐		
OTHER: Repair	☒			OTHER:			☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Amoco Production Company requests permission to repair the above well per the attached procedures.

If you have any technical questions contact Mark Rothenberg at (303) 830-5612.

RECEIVED
MAY 12 1998
OIL CON. DIV.
DIST. 3

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

SIGNATURE Pat Archuleta TITLE Staff Assistant DATE 07-08-1997

TYPE OR PRINT NAME Pat Archuleta TELEPHONE NO. 303-830-5217

(This space for State)

APPROVED BY Johnny Robinson TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE MAY 12 1998

CONDITIONS OF APPROVAL, IF ANY:

SJOET Well Work Procedure

Wellname: Jacques #1
Version: #1
Date: June 27, 1997
Budget: Repair and DRA
Workover Type: Payadd, Bradenhead

Objectives:

This well in 1982 had a casing leak and to repair it, a 5.5" liner was cemented inside the 7.625" casing. The bradenhead was not repaired. It currently flows a steady stream of clear water out the bradenhead. In addition to repairing the bradenhead, the well should benifit by removing the packer in the well and lowering the tubing into the perforated intervals. Also, the Menefee was not completed and offers a good pay add opportunity.

1. Tubing will be pulled and inspected.
2. Packer will be milled up.
3. Bradenhead will be repaired
4. Menefee sands will be perf'd and frac'd.
5. Tubing will be landed at 4615' and well returned to production.

Pertinent Information:

Location:	1090' FSL, 850' FWL, M25-30N-9W	Horizon:	MV
County:	San Juan	API #:	30-045-09105
State:	New Mexico	Engr:	Mark Rothenberg
Lease:		Phone:	W--(303)830-5612
Well Flac:	978685		H--(303)841-8503
Ls Flac:	698067		P--(303)553-6448

Economic Information:

APC WI:	24%	MV Prod. Before Repair:	80 MCFD
Estimated Cost:	$132,000	MV Anticipated Prod.:	350 MCFD
Payout:	62 months		
ROI:	1.05	IRR:	16.9
DROI(13):	0.12	PV(13)	$3M

NOTE: Economics based on Menefee payadd costs and does not include bradenhead costs since those are required by regulatory agencies. ($75M payadd, $20M BH, $15 plr, 20% cont.)

Formation Tops: (Estimated formation tops)

Ojo Alamo:	1208	Cliffhouse:	4060
Kirtland Shale:	1380	Menefee:	4130
Fruitland:	2060	Point Lookout:	4538
Pictured Cliffs:	2340	Mancos Shale:	4680
Lewis Shale:	2425		

Bradenhead Test Information:

Test Date: 6/27/97 **Tubing:** **Casing:** **BH:**

Comments: Flowed a steady stream of water through bradenhead

Note:The main objective of this workover is to shut off water flow coming from the 7.625" x 10.375" annulus. Since the 5.5" casing is cemented to surface, there is no way to determine top of cement on the 7.625". Old reports indicate TOC for the 7.625" should be approximately 1875'. This is above the Fruitland formation but below the Ojo Alamo. It is assumed that the water is coming from the Ojo Alamo. This procedure is to first check for casing leaks in the 5.5" casing and repair those. NOTE THERE ARE TWO INDEPENDANT STRINGS ON 5.5" CSG. THEY ARE NOT TIED TOGETHER. DO NOT CONFUSE THE GAP IN THE TWO STRINGS FROM 2433-2435 FOR A CASING LEAK. For the bradenhead repair, only the upper string will be tested. The lower string will be tested prior to adding the Menefee sands. For the bradenhead repair, perforate through both strings of casing and squeeze cement behind the 7.625" casing from atleast 50' below the Ojo Alamo to 50' above the Ojo Alamo and the same with the Naciamento. If possible, it would be best if circulation can be established from 50' below the Ojo Alamo to surface.

Suggested procedure:

1. Contact Federal or State agency prior to starting repair work.
2. Install and/or test anchors.
3. MIRUSU. Check and record tubing, casing and bradenhead pressures.
4. Blow well down, kill well if necessary with 2% KCL.
5. Nipple down well head, nipple up and pressure test BOP's.
6. Perforate tubing just above packer and circulate fluid off backside. Trip out of hole with tubing and seal assembly, checking condition of the tubing. Replace any bad joints of tubing and any perforated joints of tubing.
7. Trip in hole with metal muncher and drill up model D packer at 3942. Trip out of hole.

Checking condition of 5.5" casing:

8. RU wireline and run in the hole with CIBP. Set 5 1/2" CIBP at 1450 ft. Spot sand on CIBP and pressure test csg to 1000 psi. If leak is found, trip in hole with tubing and packer and isolate leak(s). Try and establish circulation, noting which annulus you can circulate through.
9. If no leak is found in the 5.5" casing, skip to step 12.

Eliminating Leaks in the 5.5" casing (if any)

10. If leak is found in 5.5" casing and circulation is established in the 5.5" x 7.625" annulus, calculate the cement volume needed and mix and pump sufficient class B or equivalent to circulate to surface. Shut valve and attempt to obtain a squeeze pressure. WOC. If circulation is not established, block sqeeze 50 sx of class B cement. Trip out of hole. WOC.
11. Trip in hole with tubing and bit and drill out cement and pressure test casing. Re-squeeze leaks if casing fails pressure test.

Isolating the Ojo Alamo behind the 7.625" casing:

12. Perforate 2 squeeze hole at 1430' with jet shots designed for maximum penetration (note: the objective is to obtain a squeeze hole through the 5.5" casing and the 7.625" casing so cement can be placed behind the 7.625" string).
13. Trip in hole with tubing and packer and attempt to establish circulation through squeeze holes up the 7.625" x 10.75" annulus. If circulation cannot be obtained, block squeeze 100 sx of class B cement. If cement is circulated, calculate cement volume needed and mix and pump sufficient class

B cement to circulate to surface. Shut valve and attempt to obtain squeeze pressure. Trip out of hole. WOC.

14. Trip in hole with tubing and bit and drill out cement and pressure test casing. Re-squeeze if casing fails pressure test.

Isolating the Naciamento behind 7.625" casing (if not accomoplished while isolating Ojo):

15. If circulation was not obtained in step 13, perforate at approximately 250' two squeeze holes with shots designed to penetrate both strings of casing.

16. Trip in hole with tubing and packer and establish circulation through squeeze holes up the 7.625" x 10.75" annulus and calculate cement volume needed and mix and pump sufficient class B cement to circulate to surface. Shut valve and attempt to obtain squeeze pressure. Trip out of hole. WOC.

17. Trip in hole with tubing and bit and drill out cement and pressure test casing. Re-squeeze if casing fails pressure test.

Adding Menefee Sands

18. RU wireline and run cbl/ccl/gr log from PBTD to at least 3500' or to top of cement. Do not need to log above 2435'. Ensure cement adequate to contain frac. Perform remedial cementing if necessary.

19. Run in hole and set RBP at approximately 4530'.

20. RIH and perforate select fire the Menefee at:
4235', 4260', 4306', 4310', 4330', 4338'
4390', 4394', 4446', 4450', 4486', 4490', 4496'

21. Trip in hole with frac string and packer, setting packer at approximately 4140'. Breakdown and ball off perforations with 500 gal of 7.5% FeHCl and 20 1.1 s.g. RCN balls. Knock balls off with packer and reset packer.

22. Frac Menefee according to attached frac procedure.

23. Flow well back as soon as possible on a 1/4" choke, increasing to 1/2" or larger according to well response. Record gas, water, and oil rates. Once pressure subsides, obtain gas and water samples.

24. Release packer and trip out of hole with frac string and packer.

25. Trip in hole with tubing and retrieving head and clean well out to RBP, retrieve plug and trip out of hole.

Returning well to production

26. Trip in hole with production string and clean out well to at least 4670'.

27. Land the production string (1/2 mule shoe on bottom and a seating nipple one joint off bottom), 4615' Nipple down BOP's, nipple up well head.

28. Swab well in and put well on production.

29. Rig down move off service unit.

If problems are encountered, please contact:
MARK ROTHENBERG
(W) (303) 830-5612
(H) (303) 841-8503
(P) (303) 553-6448

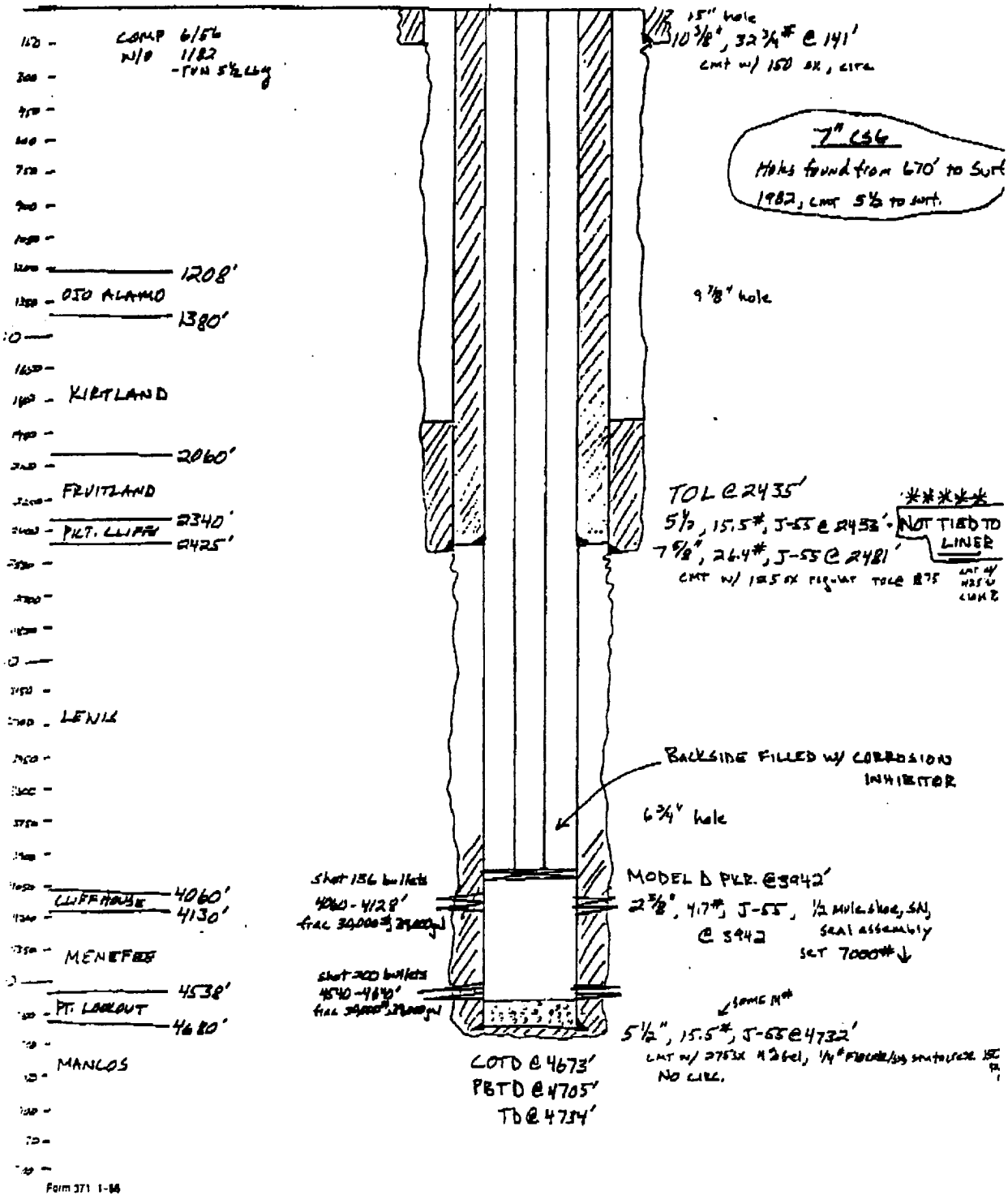
Amoco Production Company

ENGINEERING CHART

Sheet No ____ Of ____
File ____
Appn ____
Date 4/23/97
By MBR

SUBJECT JACQUES #1 3004509105

1090' FSL x 850' FWL M25-30N-9W



Form 371 1-86

BRADENHEAD TEST REPORT

Date of Test: 9-30-96

OPERATOR: Amoco Production Company

Well Name and Number: JACQUEZ 001

Formation (s): MV

Unit M Section: 25 Township: 30 Range: 9

Amoco Run Number: 74 Meter Number (s): 34130

NMOCD Test Area: A

INITIAL PRESSURE (psi)

Well Status (circle one): Shut-In (Flowing) — circled: Flowing

No. of Casing Strings (circle one): Two (Production and Surface) Three (Intermediate, Production and Surface)

Pressure: Tubing 130 psi Intermediate 10 psi Casing 250 psi Bradenhead -0- psi

INSTRUCTIONS FOR TESTING WELLS WITH TWO (2) CASING STRINGS:

A. Open bradenhead to atmosphere.
B. Record casing pressure every 5 minutes.
C. Note characteristics of bradenhead flow.
D. Describe any water flow.

INSTRUCTIONS FOR TESTING WELLS WITH THREE (3) CASING STRINGS:

A. Open bradenhead to atmosphere.
B. Record casing pressure every 5 minutes.
C. Note characteristics of bradenhead flow.
D. Describe any water flow from the intermediate. Shut in intermediate valve.
E. Open bradenhead to the atmosphere.
F. Record casing and intermediate pressures every 5 minutes.
G. Note characteristics of bradenhead flow.
H. Describe any water flow from the bradenhead.

PRESSURE (psi)

Time	Bradenhead	Casing	Intermediate	Casing
5 minutes	-0-	250	-0-	250
10 minutes				
15 minutes				
20 minutes				
25 minutes				
30 minutes				

FLOW CHARACTERISTICS

	Bradenhead	Intermediate
Steady Flow		
Surges		
Down to Nothing		✓
No Flow	✓	
Gas		
Water		
Gas and Water		

DESCRIBE ANY WATER FLOW

	Bradenhead	Intermediate
Clear		✓
Fresh		
Salty		
Sulfur		
Black		
Muddy		

REMARKS: [illegible handwritten remarks]

Tested By: [signature] Witnessed By: ______ Position: ______