

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir
Use "APPLICATION FOR PERMIT - " for such proposals

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MAY 11 1995 PM 2:40

U/O FARMINGTON, NM

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Amoco Production Company

Attention:
Patty Haefele

3. Address and Telephone No.
P.O. Box 800, Denver, Colorado 80201 (303) 830-4988

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
790' FSL 2045' FEL Sec. 20 T 28N R 8W Unit O

5. Lease Designation and Serial No.
SF-080101

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Bolack 3E

9. API Well No.
3004525552

10. Field and Pool, or Exploratory Area
Basin Dakota

11. County or Parish, State
San Juan New Mexico

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other Bradenhead Repair	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Amoco Production Company intends to do a bradenhead repair per the attached procedure.

Please call Mark Rothenberg (303) 830-5612 with any technical questions and Patty Haefele (303) 830-4988 for any other questions.

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MAY 18 1995
OIL CON. DIV.
DIST. 3

14. I hereby certify that the foregoing is true and correct

Signed Patty Haefele

Title Staff Assistant

05-10-1995

(This space for Federal or State office use)

APPROVED

Approved by

Title

Conditions of approval, if any:

MAY 15 1995

DISTRICT MANAGER

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 representations as to any matter within its jurisdiction.

SJOET Well Work Procedure

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Wellname: Bolack 3 E
Version: #1
Date: May 1, 1995
Budget: DRA
Workover Type: Bradenhead repair

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OTO FARMINGTON, NM

Objectives:

Recently failed a bradenhead test (flowed water).

1. CBL will be run to locate TOC.
2. Bradenhead and any casing leaks will be repaired.
3. Tubing will be lowered to 6550' and well returned to production.

Pertinent Information:

Location:	790' FSL, 2045' FEL, O20-28N-8W	Horizon:	DK
County:	San Juan	API #:	30-045-25552
State:	New Mexico	Engr:	Mark Rothenberg
Lease:	Federal # SF080101	Phone:	W--(303)830-5612
Well Flac:			H--(303)696-7309

Economic Information:

APC WI:	92.5%	DK Prod. Before Repair:	64 MCFD
Estimated Cost:	\$42,500	DK Anticipated Prod.:	64 MCFD
Payout:	48 months		
Max Cost -12 Mo. P.O.	\$16,289		
PV15:	\$M		
Max Cost PV15:	\$M		

*Note: *Economics run based upon 64 MCFD production vs 0 MCFD.*

*Note: *Because this is a BH repair and payout will occur within life of well, work will be performed.*

Formation Tops: (Estimated formation tops)

Nacimiento:		Menefee:	3776
Ojo Alamo:	1180	Point Lookout:	4343
Kirtland Shale:	1250	Mancos Shale:	4728
Fruitland:	1700	Gallup:	5537
Pictured Cliffs:	2100	Greenhorn:	6285
Lewis Shale:	2150	Graneros:	6350
Chacra:	2700	Dakota:	6388
Cliffhouse:	3723	Morrison:	

Bradenhead Test Information:

Test Date: 1/17/95 Tubing: 245psi Casing: 390psi BH: 10psi

Time	BH	CSG	INT	CSG
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5 min

10 min

15 min

Comments: Blew down in 1 sec. - after 30 min. started to flow clear, salty water. 1/2 test flange plug had too much press to pull.

Wellname: Bolack 3 E

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Suggested Procedures:

1. Contact Federal or State agency prior to starting repair work.
2. Catch gas and/or water sample off of bradenhead and casing, and have analyzed.
3. Install and/or test anchors.
4. MIRUSU. Check and record tubing, casing and bradenhead pressures.
5. Blow well down, kill well if necessary with 2% KCL.
6. Nipple down well head, nipple up and pressure test BOP's.
7. Trip in the hole and tag PBTD, check for fill, trip and tally out of hole with tubing checking condition of tubing.
8. Trip in the hole with bit and scraper for the intermediate casing and trip in to the top of the liner. Trip out of the hole with bit and scraper. Trip in hole with second bit and scraper and run from the top of the liner to the top of the perforations. A seating nipple and standing valve may be run in order to pressure test the tubing.
9. Trip in the hole with RBP and PKR. Set RBP 50-100 ft. above perforations. Trip out of hole one joint and set PKR and pressure test RBP to 1500 psi. Release PKR, spot sand on RBP and pressure test csg to 1000 psi. If no leak is found, trip out of hole with PKR and skip to step 11.
10. Trip out of hole isolating leak in liner, if any. If a liner leak is found, establish injection rate and check for circulation around liner top. Also, determine if there is a leak above the top of the liner. Trip out of hole with PKR.
11. Run CBL from 1500' to surface under 1000 psi and fax results to Denver attn: Mark Rothenberg (303-830-9262).
12. If there are no casing leaks, skip to step 14.
13. If there is a leak in the liner and a leak above the top of the liner, trip in hole with a RBP that fits the liner and a PKR that fits the intermediate casing. Set RBP 30-60' below the top of the liner. Release PKR and trip out of hole isolating leak in the intermediate casing.
14. Based on the location of the leak, if any, and the results of the CBL, perforate casing if necessary with 4 JSPF and circulate dye if possible to determine cement volume. Depending on the depth of the hole and circulating pressure, a PKR or a cement retainer may be needed.
15. Mix and pump sufficient cement (class B or equivalent with two hour setting time) to circulate to surface, if circulation to surface is possible. Shut bradenhead valve and attempt to obtain a squeeze pressure and WOC.
16. Trip out of hole. Trip in the hole with bit and scraper and drill out cement and pressure test casing. Re-squeeze leaks if casing fails pressure test.
17. If cement is not circulated to the surface, it may be necessary to run another CBL (and/or temperature survey 8-10 hours after cementing) and repeat steps 14 thru 16.
18. Trip in the hole with retrieving head for RBP, circulate sand off of RBP and trip out of hole with plug.

Wellname: Bolack 3 E

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19. If there is a leak in the liner top, trip in hole with a PKR. If there is no leak in the liner top, skip to step 22.
20. Mix and pump sufficient cement (class B or equivalent with two hour setting time) to squeeze liner top. Attempt to obtain a squeeze pressure and WOC.
21. Trip in the hole with bit and scraper and drill out cement and pressure test casing. Re-squeeze leak if liner top fails pressure test.
22. If there is a second RBP in the liner, trip in the hole with a retrieving head, circulate sand off of the RBP and trip out of hole with the plug.
23. If there is a leak in the liner or squeeze work is required based on the CBL, perforate casing, if necessary with 4 JSPF. Trip in hole with a cement retainer and set above the leak or perforations.
24. Mix and pump sufficient cement (class B or equivalent with two hour setting time) and attempt to obtain a squeeze pressure and WOC.
25. Trip in the hole with bit and scraper and drill out cement and pressure test casing. Re-squeeze leaks if casing fails pressure test.
26. Trip in the hole with retrieving head for RBP set in the liner, circulate sand off of RBP with 2% KCL and trip out of hole with plug.
27. Trip in hole with a sawtooth collar and/or bailer and clean out to PBTID and trip out of hole.
28. Trip in the hole with the production string (1/2 mule shoe on bottom and a seating nipple one joint off bottom), adding joints to land tubing at 6550'. Nipple down BOP's, nipple up well head.
29. Swab well in and put well on production.
30. Rig down move off service unit.

If problems are encountered, please contact:

MARK ROTHENBERG

(W) (303) 830-5708

(H) (303) 343-3973

Amoco Production Company

ENGINEERING CHART

Sheet No

Of

File

Appn

Date 4/25/95

By MDR

SUBJECT Bolack 3E LEASE: FEDERAL SFO80101

O 20, 28N, 8W 790 FSL, 2045 FEL API: 2045 25552

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APR 21 11 PM 2:40

(Non Standard Location, approved 11/24/82)

70 Feet in Well, the Finished Dlg 2/18/83

NOTE: BH flowed water
in '85, '88. Had
steady flow of gas
in '92

WELL NEVER BEEN WORKED ON

(12 1/4" hole to 255')
9 5/8" 36# CSG @ 248'

Original Test 196
SIGP = 1990 psi
AOF = 2292 M

OTO ALAMO 1180'
1250'

KIRTLAND

1700'

FRUITLAND

2100'
2150'

LEWIS

3723'
CLIFF HOUSE 3776'

MENEPEE

4343'

POINT LOOKOUT

4728'

MANLOS

5537'

GALLUP

GRANEROS 6285'
GREENHORN 6350'
6388'

DAKOTA

PERFS

6480-6501
6529-32
6548-51
(2TJPF)

230 SX CMT

450 SX CMT

TOL @ 2500' (may be @ 2484')

7', 23# K-55 CSG @ 2653'

(6 1/4" hole to 6610')

2 3/8' Tbg, SN, POP @ 6440'
4 1/2", 10.5# K-55 CSG @ 6608
PBSD @ 6595'



STATE OF NEW MEXICO
ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

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5:40 PM

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178
670 FARMINGTON, NM

BRADENHEAD TEST REPORT
(Submit 2 copies to above address)

Date of Test 01/17/95 Operator Amoco Production Company
Lease Name Bolack Well No. #3E Location: Unit Section 020 Township 28 N Range 8 W
Pressure (Shut-in or Flowing) Tubing 245 Intermediate Casing 390 Bradenhead 10

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

TIME	PRESSURES:		BRADENHEAD FLOWED	INTERMEDIATE FLOWED
	INTERMEDIATE	CASING		
5 min.	N/A	390	Steady Flow <u>X</u>	
10 min.	N/A	390	Surges <u> </u>	
min.	N/A	390	Down to Nothing <u> </u>	
20 min.	N/A	390	Nothing <u> </u>	
25 min.	N/A	390	Gas <u> </u>	
30 min.	N/A	390	Gas & Water <u> </u>	
			Water <u>X</u>	

If Bradenhead flowed water, check description below:

CLEAR X FRESH SALTY X SULFUR BLACK

REMARKS: Pulled 1" plug. Had 10 lb. on bradenhead. Blew down in 1 second. ~~Started to blow clear, salty water~~
1/2" test plug had too much pressure to pull out of bottom flange of tubing head. ~~After 20 Minute~~

By Joe Schrock Witness

FMC Wellhead Equipment Division - Farmington, NM

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11 300452555200DK
11 300452555200DK

BOLACK 3E

0202808-003EDK

Operator- AMOCO PRODUCTION CO
APC_WI - 0.92500000

Engr: zalc14

