Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.: Jicarilla Contract 124

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Jicarilla Apache

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—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: Amoco Production Company

8. FARM OR LEASE NAME: Jicarilla Apache Tribal 124

3. ADDRESS OF OPERATOR: 501 Airport Drive, Farmington, NM 87401

9. WELL NO.: 14

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 415' FSL X 2065' FWL

RECEIVED
JUL 11 1984
BUREAU OF LAND MGMT.
FARMINGTON RESOURCE AREA

10. FIELD AND POOL, OR WILDCAT: West Lindrith Gallup-Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SE/SW Sec. 24, T25N, R4W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7057' GR

12. COUNTY OR PARISH: Rio Arriba

13. STATE: NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF		PULL OR ALTER CASING		WATER SHUT-OFF		REPAIRING WELL	
FRACTURE TREAT		MULTIPLE COMPLETE		FRACTURE TREATMENT		ALTERING CASING	
SHOOT OR ACIDIZE		ABANDON*		SHOOTING OR ACIDIZING		ABANDONMENT*	
REPAIR WELL	X	CHANGE PLANS		(Other)			
(Other)							

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

17. 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 request approval to repair a casing leak that has been found in the surface casing near the surface of the subject well according to the attached procedure.

RECEIVED
JUL 16 1984
OIL CON. DIV.
DIST. 3

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

SIGNED Original Signed By B. D. Shaw TITLE Adm. Supervisor DATE 7-9-84

(This space for Federal or State office use)

APPROVED
JUL 1984
/s/ J. Stan McKee
for AREA MANAGER

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

NMOCC

*See Instructions on Reverse Side

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 statements or representations as to any matter within its jurisdiction.

Form 9-330
(Rev. 5-63)

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED JAN 11 1984 DIST. 3

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: Jicarilla Contract 124

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Jicarilla Apache

7. UNIT AGREEMENT NAME:

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

8. FARM OR LEASE NAME: Jicarilla Apache Tribal 124

2. NAME OF OPERATOR: Amoco Productions Company

9. WELL NO.: 14

3. ADDRESS OF OPERATOR: 501 Airport Drive, Farmington, NM 87401

10. FIELD AND POOL, OR WILDCAT: West Lindrith Gallup Dakota

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 415' FSL X 2065' FWL
At top prod. interval reported below: Same
At total depth: Same

RECEIVED JAN 06 1984 BUREAU OF LAND MANAGEMENT FARMINGTON RESOURCE AREA

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: SE/SW, Sect. 24, T25N, R4W

14. PERMIT NO.

12. COUNTY OR PARISH: Rio Arriba

13. STATE: NM

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
8-20-83	9-2-83	10-15-83	7057' GR	7070' KB

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
7999'	7955'		→	0-TD	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
(6772'-7090') (7668'-7706') (7802'-7864') West Lindrith Gallup Dakota

25. WAS DIRECTIONAL SURVEY MADE: Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL/GR/SP X CDL/CNL/GR

27. WAS WELL CORED: No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8.625"	24# K-55	308'	12.25"	4x32 cu.ft. Class "B" w/2% CACL2	
5.5"	15.5# K-55	7999'	7.875"	(1st) 501 cu.ft. Class "B" 50/50 Poz tailed in with 148 cu.ft. Class "B" neat, (2nd) 1970 cu.ft. Class "B" 65/35 Poz tailed in with 148cu.ft. Class "B" neat.	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875"	7847'	

31. PERFORATION RECORD (*Interval, size and number*)
6772'-6880', 6900'-7090', 1jsp2f, .38" in diameter, 7668'-7678', 7688'-7706', 2jspf, .38" in diameter, 7802'-7820', 7842'-7864', 2jspf, .45" in diameter for a total of 285 holes.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
(6772'-7090')	90,000g. 30# gel water cont. 2% KCL, 1gal surfactant/1000g fluid & 102,000 #sand
(7668'-7706')	67,000g 30# gel water cont. 2% KCL, 1gal surfactant/1000g fluid & 67,000 # sand. Fracture cont. on back...

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
11-28-83	Pumping 1.50" plunger X 20' long	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
11-29-83	24 hr.	none		49	84.3	27	1720

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
0	150 psig SI		49	84.3	27	39°

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): To be sold

TEST WITNESSED BY: B.V. Duke

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

ACCEPTED FOR RECORD

SIGNED Original Signed By D.D. Lawson TITLE District Administrative Supervisor DATE 12-28-83

JAN 10 1984

FARMINGTON RESOURCE AREA

BY SMM

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

NMOCC

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

(Fracture con't) (7802'-7864') 48,000g. 30# gel water cont. 2% KCL, 1g surfactant/1000g fluid and 48,000# sand.

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				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Ojo Alamo	2750	2822	Sandstone			
Fruitland	3284	3580	Coal			
Pictured Cliffs	3580	3660	Sandstone			
Mesa Verde	5123	5670	Sandstone w/coal stringers			
Gallup	6782	7092	Sandstone			
Dakota	7664	7880	Sandstone (Graneras X main Dakota)			

U.S. GOVERNMENT PRINTING OFFICE: 1963 O-683636
837-497

FARMINGTON DISTRICT WORKOVER DATE: 6/27/84

OPERATIONS TO BE PERFORMED: (Circle One) Recompletion (Repair) Service

LEASE AND WELL Jic Apache Trib 124 No. 14 FIELD West Lindrith

FORMATION Gallup-Dakota LOGS DIL, GR, SP-CNL, CDL, GR

LOCATION 415 FSL X 2065 FWL Sec 24, T25N, R4W

COMP. DATE 10/15/83 EL: 7070 (KB) TD: 7990' PBD: 7950'

CSG: 8-5/8" 24 # K-55 @ 308': 5-1/2" 15.5 # K-55 @ 7998'

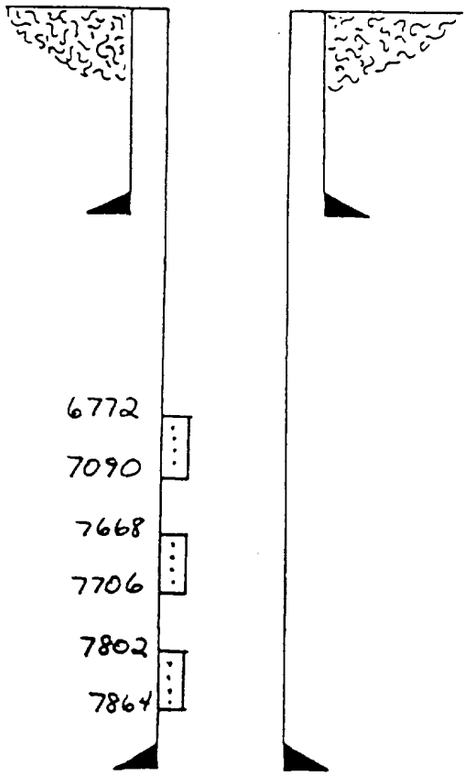
COMP. INT. 6772-7090', 7668-7706, 7802-7864 ORIG. STIM.

IP 49 BOPD x 84 MCFD CURRENT PROD. INT. Same

PURPOSE: Repair Casing Leak

SDB TKA TWE (5/PERMITTING DESK) RWO 2FF ENGR FILE

WELLBORE SKETCH



PROCEDURE

1. TOH with rods and tubing.
2. TIH with BP and packer assembly. Set BP at 6700'. Pressure test casing to 2000 psi.
3. If casing will not pressure test, locate hole with packer. When hole is located, squeeze with 50 sacks of Class B Neat with 2% $CaCl_2$. (See NOTE 2)
4. If production string pressure tests, Set BP at 4000'. TOH with tubing and packer.
5. Perforate 3085' with 2 JSPF.
6. TIH with packer and tubing. Set packer at 3030' and establish circulation through bradenhead.

DISTRICT SUPERINTENDENT S.D. Bates

DISTRICT ENGINEER Tim Gilbreath

DISTRICT FOREMAN J.W. Evans

ENGINEER Morris Bell

DATE 6/28/84

ENG-40

7. Cement with 850 sacks of Class B Neat with 2% $CaCl_2$. After tubing is displaced shut-in well overnight and wait on cement.

8. TOH with packer and tubing. TIH with bit and drill out cement.

9. TOH with bit. Pressure test squeeze to 1000 psi. Retrieve BP at 4000'.

10. TIH with tubing and rods and return well to production.

Notes:

1. If cement is not circulated to surface in step 7 run temperature survey and located cement top.
2. If a hole is located in production casing, set cement retainer above hole and squeeze off hole. Pressure test squeeze to 1500 psi.

Amoco Production Company

WELL REPAIR AUTHORIZATION AND REPORT

ORIGINAL ☐ CORRECTION 6 ☐ DELETION 9

FLAC (WELL) NO.

LEASE/UNIT NAME AND WELL NUMBER: JICARILLA APACHE TRIBAL 124 No. 14

HORIZON NAME: GALLUP-DAKOTA

HORIZON CODE

FIELD: WEST LINDRITH

COUNTY: Rio Arriba

STATE: NM.

CONTROL DATE MO DAY YR

OPERATOR: Amoco Prod. Comp.

DISTRICT: FARMINGTON

ELEVATION: 7070'

ELEV. REFERENCE PT.: KB

IF PRODUCING WELL ON LEASE, TBG

T.D.: 7990'

P.B.T.D.: 7950'

LOCATION: SECTION 24, T25N, R4W

AFE NO.

DRLG INTEREST: 1.0000

NET INTEREST: 0.8750

OTHER WORKING INTERESTS

TOTAL REPAIR HORIZONS: 1

STATUS AFTER REPAIR: PRODUCING ☑ INJECTION ☐

PRODUCTION INCREASE EXPECTED: YES ☐ NO ☑

TYPE JOB (SELECT ONE MAJOR (1) AND MAXIMUM THREE MINOR (2)

CONVERT TO INJECTION	☐	CONVERT TO PROD.	☐	DEEPEN	☐
WATER FRAC	☐	OIL FRAC	☐	ACID FRAC	☐
SQUEEZE	☐	REPAIR CASING	1	WHIPSTOCK	☐
PLUG BACK	☐	PERFORATE	2	CEMENT SQUEEZE	2
WASHING SAND	☐	SAND CONTROL	☐	OTHER	☐
RUN LINER OR SCREEN	☐	PULL LINER OR SCREEN	☐		

TREATING VOLUME — GAL.

AREA REPAIR CODE

REPAIR DESCRIPTION (MAXIMUM 25 SPACES)

REPAIR CASING LEAK

GROSS PRODUCTION

	BEFORE	ANTICIPATED	UNIT PRICE
OIL BOPD	20	20	$/BBL 29.00
WATER BWPD	20	20	
GAS MCFD	50	50	$/MCF 3.40
OTHER /DAY			$/UNIT

EXPECTED PAYOUT ____ MONTHS

GROSS INJECTION

WATER ☐ GAS ☐ LPG ☐ AIR ☐ STEAM ☐ OTHER ☐

	BEFORE	ANTICIPATED
RATE BPD OR MCFD		
PRESSURE PSIG		

ESTIMATED COST

INTANGIBLES

RIG COST	$ 25,200
EQUIPMENT RENTAL	500
CIRCULATING MEDIA	1,000
CEMENT AND SERVICE	5,000
PACKERS AND EQUIPMENT	5,000
PERFORATE, LOG, WIRELINE	1,000
STIMULATION	
LABOR	
SPECIAL EQUIPMENT	
FISHING	
OTHER INTANGIBLES	4,300
TOTAL INTANGIBLES	$ 42,000

TANGIBLES

CSG., TBG., HEAD, ETC.	$
TOTAL GROSS COST	$ 42,000
Amoco WORKING INTEREST COST	$ 42,000

REASON FOR WORK

A CASING LEAK HAS BEEN FOUND IN THE SURFACE CASING NEAR THE SURFACE OF THE WELL. THIS LEAK NEEDS TO BE REPAIRED BY CEMENT SQUEEZING. THE PRODUCTION CASING WILL ALSO BE PRESSURE TESTED TO MAKE SURE IT ISN'T LEAKING ALSO.

REPAIR RESULT: SUCCESS ☐ FAILURE ☐

DATE REPAIR COMPLETED: MO. ____ DAY ____ YR. ____

GROSS PRODUCTION DURING PAYOUT

OIL BOPD		GAS MCFD	
WATER BWPD		OTHER /DAY	

GROSS INJECTION

RATE BPD OR MCFD		PRESSURE PSIG	

ESTIMATED FINAL GROSS COST $

RECOMMENDED: Michael J Brown — DATE: 7-6-84

AUTHORIZED — DATE: MO 6 DAY 21 YR 84