

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR
501 Airport Drive, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface **185' PSL & 2383' VEL**
 At proposed prod. zone **Same**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
9 miles southeast of Shiprock, New Mexico

5. LEASE DESIGNATION AND SERIAL NO.
I-29-110-58

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo Tribal

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
USC Section 18

9. WELL NO.
32

10. FIELD AND POOL, OR WILDCAT
Boychack Dakota

11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA
SE/4 Section 18, T-29-N, R-16-W

12. COUNTY OR PARISH 13. STATE
San Juan New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) **2383'**

16. NO. OF ACRES IN LEASE **4160**

17. NO. OF ACRES ASSIGNED TO THIS WELL **40 (joint)**

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. **160'**

19. PROPOSED DEPTH

20. ROTARY OR CABLE TOOLS

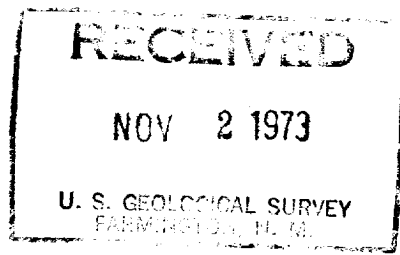
21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5038' RDS

22. APPROX. DATE WORK WILL START*
November 1973

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE .	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8-3/4"	7"	17#	60'	35 sx (circ ent)
6-1/4"	4-1/2"	9.5#	691'	125 sx (circ ent)

Amoco proposes to run Gamma Ray-Neutron logs from surface to TD 691', set a 4-1/2" cement retainer at 550', squeeze with 35 sacks of cement below retainer, perforate 194-210' and 220-225' and test the Gallup.



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Original Signed by J. ARTHUR'S BELL TITLE Area Engineer DATE October 31, 1973

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER
 SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR
501 Airport Drive, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface **185' FSL & 2383' VEL**
 At proposed prod. zone **Same**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
9 miles southeast of Shiprock, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
2383'

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4160

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20. ROTARY OR CABLE TOOLS

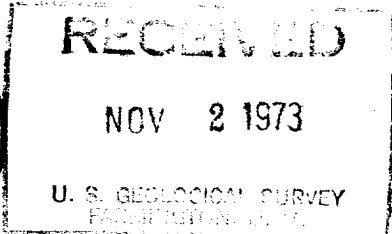
21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5038' RDB

22. APPROX. DATE WORK WILL START*
November 1973

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8-3/4"	7"	17#	60'	35 sx (circ ent)
6-1/4"	4-1/2"	9.5#	691'	125 sx (circ ent)

Amoco proposes to run Gamma Ray-Neutron logs from surface to TD 693', set a 4-1/2" cement retainer at 550', squeeze with 35 sacks of cement below retainer, perforate 194-210' and 220-225' and test the Gallup.



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Original Signed by J. ARNOLD SHELL TITLE Area Engineer DATE October 31, 1973

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

I-89-IND-58

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribal

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

USG Section 18

9. WELL NO.

32

10. FIELD AND POOL, OR WILDCAT

Undesignated Gallup

11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA

**SE/4 Section 18,
T-29-N, R-16-W**

12. COUNTY OR PARISH 13. STATE

San Juan

New Mexico

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR
501 Airport Drive, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

185' PSL & 2383' PSL

14. PERMIT NO.

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

5038' BDB

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) **Plug Back**

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

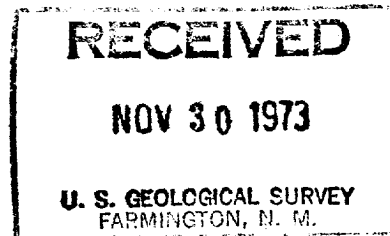
REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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.)*

Moved in a service unit on November 26, 1973 and pulled rods and pump. Set a 4-1/2" cement retainer at 553' and cement squeezed below retainer with 35 sacks Class "A" Heat cement at 3 BPM and 400 psi. Maximum pressure 500 and final pressure 150 psi. Reversed out 1/2 barrel cement. Perforated Gallup intervals 194-210' and 220-225' with 4 SPV. The 2-3/8" production tubing landed at 212'. Alternately shutting in and swabbing well with no fluid recovery.



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

SIGNED J. ARNOLD STELL

TITLE Area Engineer

DATE November 29, 1973

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

I-89-IND-38

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribal

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
USG Section 18

9. WELL NO.

32

10. FIELD AND POOL NAME
Undesignated Pool

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA
**SE/4 Section 18,
T-29-N, R-16-W**

12. COUNTY OR PARISH
San Juan

13. STATE
New Mexico

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR
301 Airport Drive, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

185' PSL & 2383' VWL

14. PERMIT NO.

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

5038' RDB

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

CHANGE PLANS

(Other) _____

(Other) _____

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

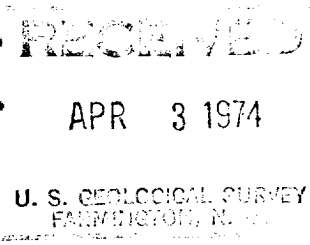
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Due to the failure of the subject well to produce commercial quantities of hydrocarbons, we propose to abandon the well as follows:

1. Squeeze 23 sacks Class "A" Neat cement into formation.

2. Fill 4-1/2" casing to surface with Class "A" Neat cement.

3. Cut off wellhead, erect P&I marker and clean up location.



Verbal approval to abandon the well received in telephone conversation between Mr. M. L. Seelinger, U.S.G.S., and Mr. E. K. Kobbe, Amoco Production Co., March 29, 1974.

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

SIGNED J. ARLOP STALL

TITLE Area Engineer

DATE April 2, 1974

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

I-09-140-38

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

USC Section 18

9. WELL NO.

32

10. FIELD AND POOL, OR WILDCAT

Undesignated Gallup

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

**SW/4 SE/4 Section 18,
T-29-N, R-16-W**

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other **RECEIVED**

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other **MAY 10 1974**

2. NAME OF OPERATOR
AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR
501 Airport Drive, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface **185' FEL & 2383' FEL**

At top prod. interval reported below **Same**

At total depth **Same**

14. PERMIT NO. DATE ISSUED

15. DATE SPUDDED **12-23-69** 16. DATE T.D. REACHED **12-29-69** 17. DATE COMPL. (Ready to prod.) **4-6-74 PIA** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* **5038' RDB, 5034' CL** 19. ELEV. CASINGHEAD **-**

20. TOTAL DEPTH, MD & TVD **693'** 21. PLUG, BACK T.D., MD & TVD **553'** 22. IF MULTIPLE COMPL., HOW MANY* **2** 23. INTERVALS DRILLED BY **→** 24. ROTARY TOOLS **0-TD** 25. CABLE TOOLS **-**

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
**692-1/2-693' Dakota PIA 11-28-73 (dry)
Gallup - dry hole**

25. WAS DIRECTIONAL SURVEY MADE
No

26. TYPE ELECTRIC AND OTHER LOGS RUN
Gamma Ray-Neutron

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
7"	17#	60' RDB	8-3/4"	35 sz	None
4-1/2"	9.5#	691' RDB	6-1/4"	125 sz (cure ent)	None

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					-	-	

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL (MD)	SIZE	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
194-210') 4 SPV (Gallup)	553-693'	Cmt squeezed w/35 sz Class "A" Neat.
220-225'		194-210', 220-225'	Oil squeezed w/50 bbls. lease oil.

33.* PRODUCTION

DATE FIRST PRODUCTION _____ PRODUCTION METHOD (Flowing, gas lift, pumping, etc.) **Dry Hole** WELL STATUS (Producing or shut-in) **Abandoned**

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
			→				
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
		→					

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) _____ TEST WITNESSED BY _____

35. LIST OF ATTACHMENTS _____

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

Original Signed by

SIGNED G. L. HAMILTON TITLE Area Adm. Supvt. DATE May 8, 1974

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

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

1-00-125-32

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribal

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

USC Section 18

9. WELL NO.

32

10. FIELD AND POOL, OR WILDCAT

Undesignated Gallup

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

**SW/4 SE/4 Section 18,
T-29-N, R-16-W**

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

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 GAS WELL OTHER

2. NAME OF OPERATOR
AMCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR
501 Airport Drive, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

185' FSL & 2383' FSL, Section 18, T-29-N, R-16-W

14. PERMIT NO.

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

5034' GL, 5038' RDB

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

CHANGE PLANS

(Other) _____

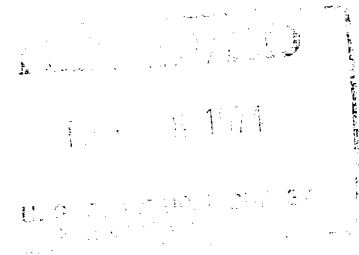
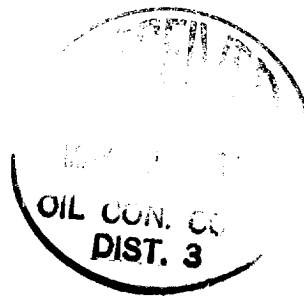
(Other) _____

(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.)*

After failing to find commercial quantities of oil or gas, the USC Section 18 No. 32 was plugged and abandoned on April 6, 1974, as follows:

1. Squeezed 23 sacks Class "A" Neat cement into the formation.
2. Filled the 4-1/2" casing to surface with 17 sacks Class "A" Neat cement.
3. Cut off wellhead and erected P&A marker.
4. Cleaned up well location for inspection.



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

SIGNED G. L. HAMILTON

TITLE Area Adm. Supvr.

DATE May 7, 1974

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____