

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other ☐
2. NAME OF OPERATOR
Amoco Production Company
3. ADDRESS OF OPERATOR
501 Airport Dr., Farmington, NM 87401
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1821' x 1695' FEL
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5. LEASE
Hicarilla Contract 35 SW-I-4214
6. INDIAN, ALLOTTEE OR TRIBE NAME
Hicarilla Apache
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Hicarilla Gas Com 35A
9. WELL NO.
1E
10. FIELD OR WILDCAT NAME
Basin Dakota/Otero Gallup
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
NW/SE, Section 11, T24N, R5W
12. COUNTY OR PARISH 13. STATE
Rio Arriba NM
14. API NO.
30-039-22175
15. ELEVATIONS (SHOW OF, KDB, AND WD)
6621' GL

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☒
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

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RECEIVED
DEC 01 1982

U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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 plans to complete the Gallup and commingle with the Dakota as per the attached procedure. Work will commence upon approval.

approval for commingling must be obtained from NMOC

Subsurface Safety Valve: Manual and Type

Set @ Ft.

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

Original Signed By

SIGNED

~~B.T. ROBERTSON~~

TITLE Admin. Supvr.

DATE 11-30-82

AS AMENDED

This space for Federal or State office use.

APPROVED BY

TITLE

DATE

COMPLETION OF APPROVAL

DEC 01 1982

JAMES F. SIMS

DISTRICT ENGINEER

See Instructions on Reverse Side

NMOC

All distances must be from the outer boundaries of the Section

Operator AMOCO PRODUCTION COMPANY			Lease JICARILLA GAS COM 35A		Well No. 1-E
Unit Letter J	Section 11	Township 24N	Range 5W	County Rio Arriba	
Actual Footage Location of Well: 1820 feet from the South line and 1695 feet from the East line					
Ground Level Elev. 6621	Producing Formation Dakota/Gallup		Pool Basin Dakota/Otero Gallup		Dedicated Acreage 320/40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

ACCEPTED FOR RECORD DEC 01 1982 BY _____ FARMINGTON DISTRICT		RECEIVED DEC 01 1982 U. S. GEOLOGICAL SURVEY FARMINGTON, N. M.	
Jicarilla Apache No. 35A Lease		11 Jicarilla Apache No. 35 Lease	
Dakota		Gallup	

1820'

1695'

CERTIFICATION

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

B. E. Fackrell

Name

B. E. Fackrell

Position

District Engineer

Company

AMOCO PRODUCTION CO.

Date

August 27, 1979

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 knowledge and belief.

Date Surveyed

August 27, 1979

Registered Professional Surveyor
and/or Land Surveyor

Fred B. Kerr Jr.
Fred B. Kerr Jr.

Certificate No. 10000

PROCEDURE

WELL NAME: Jicarilla Gas Com 35A No 1E FIELD: Otero Gallup

LOCATION: 1820' ECL x 1695' FEL, Section 11 FORMATION(S): Gallup

T24N, R5W, Rio Arriba County, NM

ELEVATIONS: KB: 6634' TD: 7095' PBD: 7048'

CASING: 8-5/8" (24#) SA 297'
4 1/2" (11.6#) SA 7095'
2-3/8" tubing SA 6978'

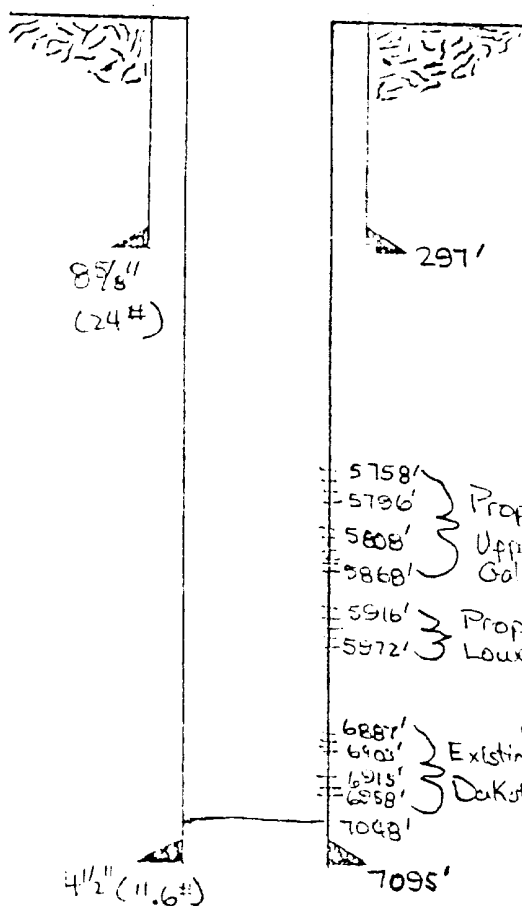
LOGS: IEL, SP, GR, Compensated Neutron - Formation Density

DV TOOL SET AT: 5049'

WELLBORE SKETCH

PROCEDURE

COMPLETE GALLUP AND COMMINGLE
WITH THE DAKOTA.



1. Trip out with 2-3/8" tubing hot. DO NOT KILL WELL IF POSSIBLE.

2. Run gamma ray correlation log and collar from 6000' to 5760'.

3. Wireline set a top drillable bridge plug at 6120'. Pressure test bridge plug and casing to 3800 psi maximum.

4. Perforate induction log interval from 5972' to 5916' with 1 JSPP.

5. Breakdown Lower Gallup perforations with 79 balls in 26 barrels of 20-lb gel. Establish a rate of 30 BPM w/20 lb gel and obtain an ISIP prior to dropping balls.

6. Run a junk basket to 6120' to knock balls off perfs.

7. Wireline set a tubing retrievable bridge plug at 5900' and pressure test to 1000 psi maximum.

8. Perforate Induction Log intervals 5868' to 5808' and 5796' to 5758' with 1 JSPP

9. Breakdown Upper Gallup perforations with 138 ball

(Amm)

- in 46 barrels of 20 lb gel. Establish a rate of 30 BPM w/ 20 lb gel and obtain an ISIP prior to dropping balls. Run a junk basket to 5900' to knock any ball sealers off of perforations.
10. Trip into hole with 2-3/8" tubing and latch onto bridge plug at 5900' and trip out of hole.
 11. Trip in with 2-3/8" tubing to 5740'.
 12. Frac entire Gallup (5972' - 5758') down 2-3/8" tubing and annulus with 135,000 gallons of 70% quality foam containing 20-lb gelled water, 2% 2570 scf of nitrogen per barrel of frac fluid and 220,500 lbs of 20-40 mesh sand. Pump all liquid, sand, and 10% of the nitrogen down annulus with remainder down the tubing. Pump as follows:

A. Pump 12000 gal (286 bbl) pack
 B. Pump 5000 gal (119 bbl) w/ .5 ppg SN (1.7 ppg @ bbl)
 C. Pump 18000 gal (429 bbl) w/ 1 ppg SN (3.4 ppg @ bbl)
 D. Pump 100000 gal (2381 bbl) w/ 2 ppg SN (6.7 ppg @ bbl)
 E. Flush with 45 bbl foam
 13. Leave well SI for 2 hrs and then flow back. Drill out bridge plug set at 5900'.
 14. Clean up well until sand production stops. Wireline set a permanent (drillable) production packer at 5850'. Trip in hole with 2-3/8" production tubing, seal assembly, and sliding sleeve.

15. Land 2-3/8" production string at 6940'.
At 6820' a seating nipple (1.78") is to be run on top of the seal assembly. The sliding sleeve should be located just above the seating nipple. There should also be a 1.81" seating nipple at the top of the sliding sleeve.

One joint
of tubing
above packer

16. Place a blanking plug in the lower seating nipple (1.78") and open sliding sleeve. Release rig and leave well shut-in for 7 days so that OTIS can run a pressure bomb.
17. After the 7-day buildup, flow well through a test separator for a minimum of 14 days or until orders are given to quit testing. All flow should be through a test separator to measure oil, water, and gas production. Report all measurements every morning to Allen Montoya (ext. 262).
18. During the 14-day flow test, collect two samples of oil, gas, and water and send them to Allen Montoya.
19. After testing is complete, shut-in well and wait on orders from Main Office.

NOTES

1. Average injection rate for Gallup frac should be 30 BPM.
2. Run blast joints across Gallup perforations

Jic Gas Com 35 A No 1E

- 3. Maximum pressure in annulus = 3800 psi
- 4. maximum pressure in tubing = 6200 psi

SUMMARY

Foam		
Frac Fluid	* Load & Bkdn)	20-40 SN
(gal/bbl)	(gal/bbl)	(lb)
<u>41,000/978</u>	<u>16,800/400</u>	<u>220,500</u>

Nitrogen
(scf)
2,600,000

* 20 lb gel water will be used
on the breakdown.

Engineers: Allen Montoya 325-2508
Dist Engrs: Dale Shoemaker 325-6448
Lead Engr: Gary Munson 598-5781

Approved: S.D. Blanton
By: _____
Date: 11-19-82

GM
11-19-82