

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 ☐ Infill
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: 1520' FSL x 1520' FEL
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

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

SUBSEQUENT REPORT OF:

- ☐
☐
☐
☐
☐
☐
☐
☐
☐
☐

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.

Application for an unorthodox location has been filed with the NMOCC in Santa Fe.

approval to commingle must be approved by NMOCC

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Original Signed By B.T. Roberson TITLE Admin. Supvr. DATE 11-30-82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY, 01 1982

James F. Sims
JAMES F. SIMS
DISTRICT ENGINEER

*See Instructions on Reverse Side

NMOCC

All distances must be from the outer boundaries of the Section

Operator AMOCO PRODUCTION COMPANY		Lease JICARILLA GAS CO. 35C		Well No. 1-E
Unit Letter J	Section 2	Township 24N	Range 5W	County Rio Arriba
Actual Footage Location of Well:				
1520 feet from the South line and		1520 feet from the East line		
Ground Level Elev. 6707	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 FARMINGTON DISTRICT		RECEIVED DEC 01 1982 U. S. GEOLOGICAL SURVEY FARMINGTON, N. M.	
BY _____		Sec. _____	
Jicarilla Apache No. 35 Lease		2 Jicarilla Apache No. 36A Lease	
Dakota		Gallup	

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 31, 1979

Registered Professional Engineer
and/or State Surveyor

Red B. Kerr Jr.

Certificate No.

3450

PROCEDURE

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

LOCATION: 1520' FSL X 1520' FEL, Section 2 FORMATION(S): Gallup

T24N, R5W, Rio Arriba County, NM

ELEVATIONS: KB: 6720' TD: 7189' PBD: 7151'

CASING: 8 5/8" (24#) SA 302'
4 1/2" (11.6#) SA 7189'
2 3/8" tubing SA 7079'

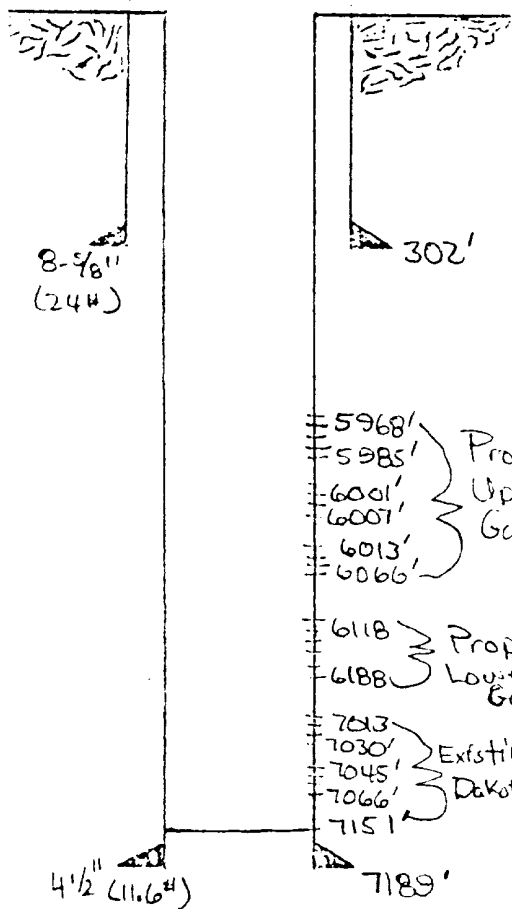
LOGS: IEL, GR, Compensated Densilog, Neutron

DV TOOL SET AT: 4959'

WELLBORE SKETCH

PROCEDURE

COMPLETE GALLUP and COMMINGEE
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 locator from 6200' to 5900'.

3. Wireline set a top drillable bridge plug at 6250'. Pressure test bridge plug and casing to 3800 psi.

4. Perforate induction log interval from 6118' to 6188' with 1 JSPE.

5. Breakdown Lower Gallup perforations with 99 balls in 33 bbls 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 6250' to knock balls off perfs.

7. Wireline set a tubing retrievable bridge plug at 6090' and pressure test to 1000 psi maximum.

8. Perforate Induction Log intervals 6066'-6013', 6007'-6001' and 5985'-5968' with 1 JSPE.

9. Breakdown Upper Gallup perforations with 108 balls in

Jic Gas Com 35 C No 1E

36 bbls 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 6090' to knock ball sealers off of perforations.

10. Trip into hole with 2-3/8" tubing and latch onto bridge plug at 6090' and trip out of hole.

11. Trip in with 2-3/8" tubing to 5850'.

12. Frac entire Gallup (6188'-5968') down 2-3/8" tubing and annulus with 135,000 gallons of 70% quality foam containing 20-lb gelled water, 2% KCL, 25% 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) pad

B. Pump 5000 gal (119 bbl) w/ .5 ppg SN (1.7 ppg @ blend)

C. Pump 18000 gal (429 bbl) w/ 1 ppg SN (3.4 ppg @ blend)

D. Pump 100000 gal (2381 bbl) w/ 2 ppg SN (6.7 ppg @ blend)

E. Flush with 45 bbl foam.

13. Leave well SI for 2 hrs. and then flow back. Drill out bridge plug set at 6250'.

14. Clean up well until sand production stops. Wireline set a permanent (drillable)

production packer at 6980'. Trip in hole with 2-3/8" production tubing, seal assembly, and sliding sleeve.

15. Land 2-3/8" production string at 7040'. At 6950' 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

Jic Gas Com 35 C No 1E

be 30 BPM

2. Run blast joints across Gallup perforations.
3. Maximum pressure in annulus = 3800 psi
4. Maximum pressure in tubing = 6200 psi

SUMMARY

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

Nitrogen
(scf)
 2,600,000

* 20 lb gal water will be used
 on the Breakdown.

Engineer: Allen Montoya 325-2508
 Dist Engr: Dale Shoemaker 325-6449
 Lead Engr: Gary Munson 598-5781

Approved: J. D. Blum

By: _____

Date: 11-19-82

AM
11-19-82