

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-78

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SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
OPERATOR		

5a. Indicate Type of Lease	
State ☐	Fee ☒
5. State Oil & Gas Lease No.	

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 - " (FORM C-101) FOR SUCH PROPOSALS.)

OIL WELL ☒ GAS WELL ☐ OTHER ☐		7. Unit Agreement Name	
Name of Operator Amoco Production Company		8. Farm or Lease Name Romero Gas Com "A"	
Address of Operator 501 Airport Drive, Farmington, NM 87401		9. Well No. 1	
Location of Well UNIT LETTER <u>K</u> <u>1850</u> FEET FROM THE <u>South</u> LINE AND <u>1850</u> FEET FROM THE <u>West</u> LINE, SECTION <u>27</u> TOWNSHIP <u>29N</u> RANGE <u>10W</u> NMPM.		10. Field and Pool, or Wildcat Armenta Gallup/Bloomfield Chacra	
15. Elevation (Show whether DF, RT, GR, etc.) 5496' GR		12. County San Juan	

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

REFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
IRREPARABLY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
WELL OR ALTER CASING ☐	OTHER ☐	CASING TEST AND CEMENT JOB ☐	OTHER ☐
OTHER ☐ Plug and abandon Armenta Gallup Recomplete Blanco Mesa Verde <i>Extension</i>			

Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) (SEE RULE 1103.)

Amoco Production Company requests approval to plug and abandon the Gallup horizon and recomplete the Mesa Verde horizon in the subject well according to the attached procedure.

RECEIVED

MAR 12 1984

OIL CON. DIV.

DIST. 3

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

Original Signed By B. D. Shaw TITLE Administrative Supervisor DATE 3-7-84

PROVED BY Earl Busch TITLE Geologist II DATE 3-17-84

ADDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-102
Revised 10-1-78STATE OF NEW MEXICO
OIL AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

All distances must be from the outer boundaries of the Section.

Operator AMOCO PRODUCTION COMPANY		Lease ROMERO GAS COM "A"		Well No. 1
Well Letter K	Section 27	Township 29N	Range 10W	County San Juan
Actual Footage Location of Well: 1850 feet from the South line and 1850 feet from the West line				
Ground Level Elev. 5496	Producing Formation Gallup / Chacra	Pool Armenta Gallup/Bloomfield Chacra	Dedicated Acreage: 40/160 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 Communitization

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.

fee surface
fee minerals

RECEIVED

MAR 12 1984

OIL CON. DIV.
DIST. 3

Sec.

Gallup Horizon
TO BE REVEALED
& ABANDONED

MESA VERDE

GALLUP

27

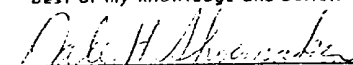
1850'

1850'

Chacra

CERTIFICATION

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



Name

D. H. SHOEMAKER

Position

DISTRICT ENGINEER

Company

AMOCO PRODUCTION COMPANY

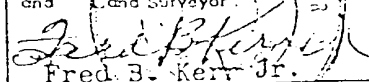
Date

NOVEMBER 10, 1982

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

November 5, 1982

Registered Professional Engineer
and Land Surveyor
Fred B. Kerr Jr.

Certificate No. 1000

FARMINGTON DISTRICT WORKOVER

DATE: 3/2/84

OPERATIONS TO BE PERFORMED: (Circle One)

Recompletion

Repair

Service

LEASE AND WELL Rotero A+B #1FIELD Blanco MesaverdeFORMATION Mesaverde

LOGS

LOCATION SW4, Sec 27, T29N, R10WSan Juan County, New Mexico

COMP. DATE

EL: 5509' KBTD: 5750' PBD: 5693'CSG: * See Attached Wellbore Diagram *

COMP. INT.

ORIG. STIM.

IP

CURRENT PROD. INT. Chacra
2794 - 2914PURPOSE: Recomplete to MV after Gallup PxA

SDB

DHS

GOM

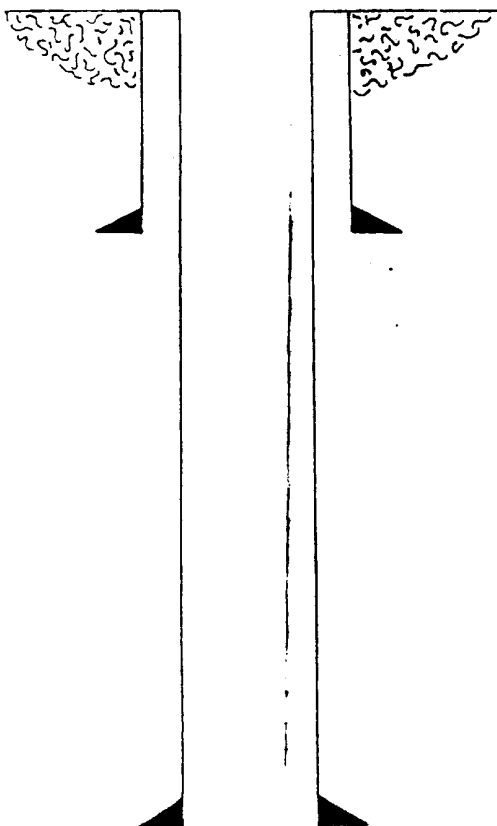
5/PERMITTING DESK (TAE, RWO, 2FF)

TAC

FILE

WELLBORE SKETCH

PROCEDURE



1. Trip out with rods and pump, $2\frac{3}{8}$ " Chacra string, $2\frac{1}{16}$ " Gallup vent string. Pick up on $2\frac{3}{8}$ " Gallup string 30,000 lbs over weight and release Baker AL-5 packer. Trip out with tubing and packer.
2. Set cement retainer at 5300 ft. string into retainer and squeeze out Gallup ports with 50 sk of Class B mat. Pick up out of retainer and drop 5 sk onto retainer. Trip out with tubing.
3. Perforate 5090' with 4 squeeze shots. Squeeze out liner hanger with 50 sacks of class B with 2% CaCl₂. Pick up and displace cement to 4990' with 15 sk of cement.
4. Trip in with tubing and packer. Set packer at 3250' and pressure test casing to 1000 psig.

DISTRICT SUPERINTENDENT [Signature]DISTRICT ENGINEER [Signature]

DISTRICT FOREMAN

ENGINEER T.D. ClawsonDATE 3/5/84

- Trip out with tubing and packer.
5. Perforate density log intervals 4039-50, 4066-69, 4082-4108, 4120-41, 4160-74, 4184-4200, 4226-32, 4242-62, 4276-86, 4312-21, and 4340-47 with 2.5 SF.

6. Trip in with $3\frac{1}{2}$ " tubing and packer. Set packer at 4000' and breakdown ports as follows:

A. Establish rate of 30-40 bpm with 2% KCl water.

B. Shut down and obtain ISIP.

C. Resume rate and drop 380 ballsealers.

D. Recover ballsealers.

7. Frac Mesaverde down $3\frac{1}{2}$ " tubing at 30-40 bpm with packer at 4000' with 215,000 gallons of 20 lb gelled water containing 2% KCl, 1 gal surfactant 1000, and 2 hr breaker at 150°F as follows:

Stage Number	Volume (gals)	Sand Concentration (ppm)	Slurry Volume (gals)	Rate (bpm)
1	90,000	1 gal	90,000	30-40
2	40,000	1	41,820	30-40
3	85,000	2	92,737	30-40
4	1,530	Flush	1,530	30-40

8. Leave well at 4 hrs for gel to break and fracture to heal.

9. Clean out to 4000', set a retrievable BP at 4000', and pressure test BP to 3000 psig.

10. Perforate Density log intervals 3442-68, 3475-80, 3596-3601, 3630-38, 3719-50, 3792-3806, 3855-59, 3867-87, and 3910-27 with 2 ISPF.

11. Breakdown ports down $3\frac{1}{2}$ " tubing with packer at 3400' as follows:

A. Establish rate of 30-40 bpm with 2% KCl water.

B. Shut down and obtain ISIP.

C. Resume rate and drop 360 ballsealers.

D. Recover ballsealers.

12. Frac Mesaverde down $3\frac{1}{2}$ " tubing at 30-40 bpm with packer at 3400' with 159,000 gallons of 20 lb gelled water containing 2% KCl, 1 gal surfactant 1000, and 2 hr breaker at 150°F as follows:

Stage Number	Volume (gals)	Sand Concentration (ppg)	Slurry Volume (gals)	Rate (bpm)
1	55,000	Ad	55,000	30-40
2	25,000	1	26,138	30-40
3	70,000	2	76,371	30-40
4	1,310	Flush	1,310	30-40

13. Leave well SI 4 hrs for gel to break and fracture to heal.

14. Clean out to BP, retrieve BP, and flow back both zones to clean up.

15. After sand fill subsides, set production packer at 3250 ft, run $2\frac{3}{8}$ " Mesaverde string to 4350', and $2\frac{3}{8}$ " Chacra string to 2914'. Run blast joints on MV string across Chacra perfs.

16. Flow or swab back Mesaverde only

17. Shut well in for potential test.

Notes:

1. Maximum breakdown and frac pressure is 8000 psig down $3\frac{1}{2}$ " tubing.
2. May have to kill Chacra to pull tubing strings prior to P/A.
3. Rate of 30-40 bpm can be obtained due to very low net frac pressures anticipated. First stage may go on vacuum.
4. Flow fracs back overnight through $\frac{1}{2}$ " to $\frac{3}{4}$ " choke nipple.

CHACRA PERFORATIONS:
2794'-2804'
2886'-2914'

7" LINER TOP @ 3228'

PRODUCTION PACKER @ 4940'
2 1/16" GALLUP VENT TBG @ 4943'

4 1/2" LINER TOP @ 5040'

GALLUP PERFORATIONS:
5316'-5652'

2 3/8" GALLUP PRODUCTION TBG @
5665'. 2" X 1 1/2" X 16' PUMP X
3/4" RODS @ 5635'

TD 5750'
PBD 5675'

CENTRALIZERS SET ABOVE FLOAT AND SHOE AND EVERY OTHER JOINT AT THE FOLLOWING
INTERVALS: 3375'-3420' AND 5129'-5249'.

13 3/8" CSG SET @ 295'
X 743 FT³ OF CLASS B
"NEAT" CMT TO SURFACE

2 3/8" CHACRA TBG @ 2929'

9 5/8" CSG SET @ 3440' X
472 FT³ OF CLASS B "NEAT"
CMT X 970 FT³ OF CLASS B
50:50 POZ, 6% GEL X 2%
MED TUF PLUG X .8% FLA.
CMT TO SURFACE.

7" CSG SET @ 5270' X 118
FT³ OF CLASS B "NEAT" CMT
X 462 FT³ OF CLASS B 50:50
POZ, 6% GEL X 2% MED TUF
PLUG X .8% FLA. CMT TOP
@ 3120'

LINER
4 1/2" ^ SET AT 5675' X
224 FT³ OF CLASS B "NEAT"
CMT. CMT TOP AT 5664'