

OIL CONSERVATION DIVISION

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

P.O.Box 2088

Santa Fe, New Mexico 87504-2088

WELL API NO.

3004526013

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. 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.)

7. Lease Name or Unit Agreement Name

LEEPER GAS COM D

1. Type of Well:

OIL
WELL ☐

GAS
WELL ☒

OTHER

2. Name of Operator

AMOCO PRODUCTION COMPANY

Attention

Nancy I. Whitaker

8. Well No.

1 Y

9. Pool name or Wildcat

CEDAR HILL FRUITLAND BASAL COAL GAS

4. Well Location

Unit Letter

L

: 1500

Feet From The

SOUTH

Line and

840

Feet From The

WEST

Line

Section

34

Township

32N

Range

10W

NMPM

SAN JUAN

County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

5838 GR

11.

Check Appropriate Box to Indicate Nature of Notice Report or Other Data
NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☒

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐

PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

12. 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 PERMISSION TO C/O AND REPERFORATE AND REFRAC THE
FRUITLAND COTTONWOOD ZONE IN THE ABOVE WELL ACCORDING THE ATTACHED PROCEDURES.

FOR TECHNICAL INFORMATION PLEASE CONTACT KHANH VU 303-830-4920

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

SIGNATURE

Nancy I. Whitaker

TITLE

Staff Assistant

DATE

05-01-1997

TYPE OR PRINT NAME

Nancy I. Whitaker

TELEPHONE NO.

303-830-5039

(This space for State

APPROVED BY ORIGINAL SIGNED BY ERNIE BUSCH

TITLE

DEPUTY OIL & GAS INSPECTOR, DIST. #3

DATE

MAY - 6 1997

CONDITIONS OF APPROVAL, IF ANY:

SJOET Well Work Procedure

Leeper Gas Com D 1Y

Version: #1
Date: April 29, 1997
Budget: Well Repair
Work Type: CO & Frac Cottonwood

Objectives:

1. CO and Frac Cottonwood
 2. Reduce loading effects and increase production
 3. Place well back on production
-

Pertinent Information:

Location:	1500'FSL x 840'FWL;Sect 34L-T32N, R10W	Horizon:	FC
County:	San Juan	API #:	30-045-26013
State:	New Mexico	Engr:	Vu
Lease:	Fee	Phone:	W-(303)830-4920
Well Flac:			P -(303)687-3819
			H -(303)980-6324

Economic Information:

APC WI:	96.84%	Prod. Before Repair:	2068 MCFD
Estimated Cost:	\$60,000	Anticipated Prod.:	2568 MCFD
Payout:	3.4 Months		
Max Cost -12 Mo. P.O.			

Formation Tops: (Formation tops)

Nacimiento:		FT - Cottonwood:	2374'-410'
Ojo Alamo:	1247'	FT - Cahn:	2608'-58'
Kirtland Shale:		Pictured Cliffs:	
Fruitland:	1807'	PBD:	2670'
FT - Ignacio:	2122'-34'	TD:	2685'
*(Estimated)			

Bradenhead Test Information:

Test Date:	Tubing:	Casing:	BH:	
Time	BH	CSG	INT	CSG
5 min				
10 min				
15 min				

Comments:

Leeper Gas Com D 1Y
Orig. Comp. 8/84
TD = 2685', PBD = 2670'
Page 2 of 2
Version 1

History: Well was completed cased hole, only the Cahn seams has been open. This well has been producing @ 1.5-2 mmcf/d since 1989. A recent tag located fill @ 2662' and fluid @ 2238'. This wellwork will cleanout the wellbore and open up the Cottonwood (middle seams), a prolific seam. This well will require 2 rig moves due to location size constraint.

1. Install/Check anchors. Inspect location for pit, access, etc.
2. Pick up workstring
3. MIRUSU
4. NUBOE, kill well w/ produced coal water, if necessary. Set tbg stop.
5. TOH w/ 2 7/8" tbg @ 2647' (6.5#, J-55)
6. TIH w/ 6 1/4" bit, bit sub and workstring. Cleanout hole to PBD @ 2670'. Note: the well has been plugged back w/ a CIBP.
7. Set RBP @ 2450'. Pressure test csg to max frac pressure (3000 psi). If there is any leak, locate it and sqz cement. Contact Denver eng if any leaks occur.
8. RU lubricator
9. Run GR/CCL to correlate perf (perfs picked from Welex's GR/CD/DSN log dated 8/18/84)
10. TIH w/ perf guns & perf the following schedule:

<u>COAL ZONES</u>		<u>PERFORATIONS</u>	
Cottonwood	2,387 to 2,394	4 spf	28 "
	2,396 to 2,400	4 spf	16 "
	2,402 to 2,410	4 spf	<u>32</u> "
			76 holes

11. TOH w/ guns. RD lubricator
12. Install frac valve and RDMO for frac equipment to move on

MI frac equipment
Frac according to Schedule A (Leeper Gas Com D 1Y)
MO frac equipment

11. MIRUSU
12. Flow back to tank. Try to minimize sand flowback, by slowly changing flow condition.
13. CO to PBD @ 2670'
14. Run 2640' of 2 7/8" tubing w/ SN one jt off bottom with plug in place.
15. ND BOE, NU tree and RDMORT. Retrieve plug and bring well on line slowly in attempt to minimize any cavitation effect.

Note: well may require swabbing to enable RTP.

Dependent on speed of hole stabilization, I estimate this procedure to require approximately 5 days and to cost \$60,000 (see attached AFE form).

Khanh Vu

W - (303) 830-4920
Pager - (303) 687-3819
H - (303) 980-6324
Fax - (303) 830-4777
Continuous Fax - (303) 830-4276

Frac Schedule - A

rn

Well Name: Leeper Gas Com D 1Y
Location: Sec 34, T32N, R10W
County: San Juan
State: New Mexico

KB elev. 5858.5 ft
API No.
Well Flac
Formation: Fruitland Coal - Cottonwood

PERFORATIONS Existing Perforations

from	to	net	
2387	2394	7	@ 4 jspf
2396	2400	4	@ 4 jspf
2402	2410	8	@ 4 jspf
total		19 ft	76 holes

RATE
55 (bpm)

NOTE: Bullhead 500 gal 7.5% Fe-HCl ahead of frac job.

Treatment Schedule

STAGE NUM.	STAGE TYPE	STAGE VOLUME (gallons)	PROP CONC. (lb/gal)	PROP TYPE	FLUID TYPE	QUALITY IPF (%)	SAND TOTAL (lbs)	SUM SAND (lbs)	STAGE TIME (min)	SUM TIME (min)
1	Pad	11,000	0.00	NA	Foam	0.70	0	0	4.76	4.76
2	SLF	4,000	1.00	20/40	Foam	0.70	4000	4000	1.81	6.57
3	SLF	7,500	2.00	20/40	Foam	0.70	15000	19000	3.54	10.12
4	SLF	6,000	2.50	20/40	Foam	0.70	15000	34000	2.89	13.01
5	SLF	2,500	3.00	20/40	Foam	0.70	7500	41500	1.23	14.24
6	SLF	1,100	4.00	20/40	Foam	0.70	4400	45900	0.56	14.80
7	SLF	900	5.00	20/40	Foam	0.70	4500	50400	0.48	15.28
8	Flush	3,800	0.00	NA	Foam	0.52	0	50400	1.65	16.93

Blender and Pumping Schedule

STAGE NUM.	STAGE TYPE	VOLUME FLUID (gallons)	FLUID SUM (gallons)	PROP CONC (lb/gal)	DENSITY (lb/gal)	SLURRY VOLUME (gallons)	SUM SLURRY (gallons)	DIM. FACT	SLURRY RATE (bpm)	N2 RATE (scf/min)
1	Pad	3300	3300	0.00	8.33	3300	3300	1.00	16.50	27647
2	SLF	1255	4555	3.19	10.06	1437	4737	1.15	18.90	25897
3	SLF	2455	7010	6.11	11.29	3139	7876	1.28	21.10	24300
4	SLF	2005	9015	7.48	11.79	2689	10566	1.34	22.13	23536
5	SLF	853	9868	8.80	12.22	1195	11760	1.40	23.12	22829
6	SLF	390	10258	11.28	12.95	591	12351	1.51	24.98	21492
7	SLF	332	10589	13.57	13.53	537	12888	1.62	26.71	20256
8	Flush	1843	12432	0.00	8.33	1843	14731	1.00	26.68	20256

Totals:

Foam	33,000	gallons
Water (less tank bottoms)	15,000	gallons
Tanks (400 bbl)	1	tanks
Proppant, 20/40 Arizona Sand	50,400	pounds
Nitrogen (plus cool down)	425	MSCF

Frac Schedule - A

Special Instructions:

- 1 Frac down: 7", 23#, K-55 Casing
- 2 Optimal frac rate is: 55 bpm
- 3 Anticipated WHTP: 1,800 psi.
- 4 Pressure on the annulus is: NA psi.
- 5 Monitor and record annular pressure during frac job. Observe 9 5/8"
- 6 Maximum pressure on the casing is: 3000 psi.
- 7 Maximum pressure on the tubing is: na psi.
- 8 Set pressure relief valve for the frac at: NA psi.
- 9 Set pressure kick-outs on fluid and N2 pumps at: 2500 psi.
- 10 Displace with: foam 52% Q
- 11 Displace frac to 100 ft. above top perforation.
- 12 Run foamer package as below
- 13 As soon as frac crew leaves location begin flowback on 1/4" choke, after 4 hrs switch to 1/2" choke.
- 14 No tracer is necessary.
- 15 Please provide Denver with the following # of fracture stimulation reports:
un-bound 3 ea
- 16 Fluid composition per 1000 gallons base fluid:

SSO-21	6.00 gallons	(foamer/surfactant)
BE-6	0.19 pounds	(bactericide)
AQF-2	1.00 gallons	(foamer)

- 17 Perform ALL quality control checks.
- 18 Water trucks and tanks should be clean prior to filling.
- 19 Bactericide should be added to the tanks prior to filling.
- 20 Water used should be city water or water filtered to 5 micron absolute.
- 21 Record strap, pH, temp, and appearance for each tank. Amoco rep to get this data prior to pumping.
- 22 The following pre and post job inventories should be included in the frac report:

Fluid	Proppant
Gas	Chemicals

Sand sieve acceptable limits:

	40/70	20/40	16/30	12/20	SAND
< 0.1% REMAIN	30	16	12	8	MESH
> 90% REMAIN	70	40	30	20	MESH
< 1.0% GO THRU	100	50	40	30	MESH

Amoco Production Company

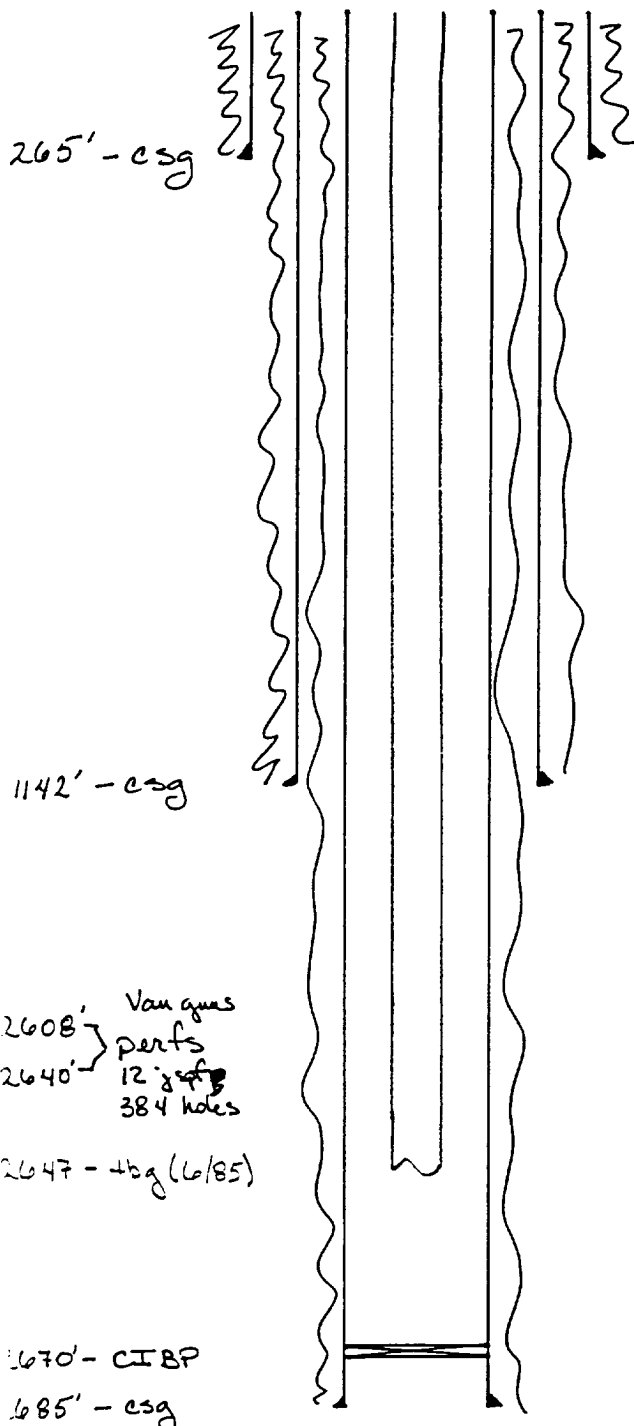
ENGINEERING CHART

Sheet No 1 of 1
 File _____
 Appn _____
 Date 3/27/97
 By KQV

SUBJECT Leeper Gas Com D 1Y

Spud 8/84

KB - 14'



TOC - Surf. (Circ)

13 $\frac{3}{8}$ ", 48#, K-55, ST&C

Djo 1247'

TOC - Surf (Circ)

9 $\frac{5}{8}$ ", 32.3#, H-40, ST&C

IGNACIO 212
9 seams 40

Frac: (5/85) 203 mgal w/ 40# & 50# xgel
450 ml 10/20 Brady

Sands 22
5 seams 6

TOC - Surf (Circ)

Cottonwood 2
4 seams 2

2 $\frac{7}{8}$ ", 6.4#, J-55, T&C

Sands 2476
1 seam 36

7", 23#, K-55, ST&C

Cahn 2601
2 seams 3:

