submitted in lieu of Form 3160-5

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Sundry Noti	ices and Reports on Well	s	
1. Type of Well GAS	0)屋(CEIVED	Lease Number SF-079391 If Indian, All. o Tribe Name Unit Agreement Na
2. Name of Operator		4AY 2 4 1999	
3. Address & Phone No. of Operat PO Box 4289, Farmington, NM	& GAS COMPANY		San Juan 27-5 Uni Well Name & Numbe San Juan 27-5 U # API Well No. 30-039-20620
4. Location of Well, Footage, Se 1725'FNL, 1170'FWL, Sec.8, T-	-27-N, R-5-W, NMPM	11.	Field and Pool Tapacito Pict.Cli County and State Rio Arriba Co, NM
12. CHECK APPROPRIATE BOX TO INITYPE of Submission _X Notice of Intent Subsequent Report Final Abandonment 13. Describe Proposed or Comp. It is intended to repair to the attached pr	Abandonment Recompletion Plugging Back X Casing Repair Altering Casing X Other - Restimulat leted Operations the casing and restimula	Change of Pla Change of Pla New Construct Non-Routine I Water Shut or Conversion to	ans tion Fracturing Ef o Injection
			SSILLY 19 PH 12: 35
no	(188) Title Regulatory	correct. y Administrator	
(This space for Federal or Stat APPROVED BY CONDITION OF APPROVAL, if any		Date	<u> </u>

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NMOCD

Stage	Foam Volume (gal)	Clean Gel Volume (gal)	Sand Volume (lbs)	<u>Type</u>
Pad	3.075	923	0	
1 ppg	2.000	627	2,000	20/40 Az
2 ppg	3.000	9 82	6,000	20/40 Az
3 ppg	25.200	8.594	75,600	20/40 Az
	22,850	8.105	91,400	20/40 Az
4 ppg Flush	488	222 @ 55% N2	Ō	20/40 Az
Totals	56,613	19,453	175,000	

Treat frac fluid with the following additives per 1000 gallons:

• 30# WG-19

(Gelling agent pre-mixed in full tank)

2.0 gal SSO-21M

(Non-ionic surfactant pre-mixed in full tank)

• 0.5# GBW-3

(Enzyme breaker mixed on fly)

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Sundry Notices and Reports	on Wells
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2. Name of Operator	MAY 2 4 1999
RESOURCES OIL & GAS COMPANY	OIL CON DIV San Juan 27-5 Unit Well Name & Number
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326	30-039-20620
4. Location of Well, Footage, Sec., T, R, M 1725'FNL, 1170'FWL, Sec.8, T-27-N, R-5-W, NMP	10. Field and Pool Tapacito Pict.Clift 11. County and State Rio Arriba Co, NM
Type of Submission X Notice of Intent Subsequent Report Final Abandonment X Other - Res	ce of Action Change of Plans On
13. Describe Proposed or Completed Operations It is intended to repair the casing and re to the attached procedure.	
Signed (NEB) Title Record (NEB)	egulatory Administrator Date 5/19/99

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Casing Repair

- 1. MOL, hold safety meeting, and RU completion rig. Insure all safety equipment is strategically located and functioning properly. NU relief lines to blow pit. ND wellhead and NU 7-1/16" 3M BOP, stripping head, and blooie line. Test
- 2. PU and TIH with a 2-7/8" RBP and 1-1/4" tubing. Set RBP at 2050'. Release from BP. Spot 10' of sand on BP. TOOH.
- 3. PU 1 jt. 2-7/8" tubing and screw into casing. MIRU wireline specialties. Freepoint 2-7/8" casing.
- 4. PU 2-7/8" packer. TIH with 2-7/8" packer on 1-1/4" tubing. Set packer at lowest 100% freepoint in casing. Pressure test casing below and above packer. Release packer and TOOH. If casing leak is below packer RDMO. If leak is above packer continue with step 5.
- 5. RIH with stringshot. Back off casing at lowest joint 100% free. RDMO wireline specialties.
- 6. Circulate hole clean. TOOH and lay down old 2-7/8" casing.
- 7. PU and TIH with new 2-7/8" casing. Screw in to existing casing.
- 8. Pressure test casing to 3700-psi for 15 minutes.
- 9. TIH with 1-1/4" tubing. Clean out to top of RBP. Latch on to 2-7/8" RBP and TOOH. Lay down RBP. TIH. CO to PBTD. TOOH and lay down 1-1/4" tubing.
- 10. RDMO

Rigless Procedure

- 11. Install 2 7/8 In. 6.5# N-80 EUE 8rd sub and 5000 psi frac valve. Lay flowback line to pit.
- 12. Set two (2) 400 bbl frac tank(s) on location and fill with 640 bbl 2% KCI water. Treat tank with biocide prior to filling. Heat gel tank to 60-70 °F in winter.
- 13. RU stimulation company to frac down 2 7/8" casing. Hold pre-job safety meeting with all personnel on location. Pressure test surface lines to 4700 psi prior to stimulation. Breakdown perforations by bullheading 200 gals 15% inhibited acid with the following additives:
 - 1 gal/M HAI-81M (corrosion inhibitor)
 - 1 gal/M SSO-21M (surfactant)

Fracture stimulate in 1 to 4 ppg stages at 35 BPM constant downhole rate with 53,488 gal of 70Q N₂ foamed 30# linear guar gel and 175,000# 20/40 mesh Arizona sand. **Maintain a bottom hole frac gradient of 0.65 psi/ft throughout job**. When sand is in hopper and the concentration begins to drop, call flush. **Maintain previous stage's slurry and N2 rates. Quick flush to 100 ft. above top perforation with +/- 222 fluid gals**. Maximum treating pressure is 3,700 psi. Monitor bottomhole treating pressure, surface treating pressure, downhole rate, foam quality, and sand concentration with computer van. Treat per the following schedule:

Foam Volume (gal)	<u>Clean Gel Volume (gal)</u>	Sand Volume (Ibs)	<u>Type</u>
3.075	923	0	
2.000	627	2,000	20/40 Az
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Treat frac fluid with the following additives per 1000 gallons:

• 30# WG-19

(Gelling agent pre-mixed in full tank)

2.0 gal SSO-21M

(Non-ionic surfactant pre-mixed in full tank)

0.5# GBW-3

(Enzyme breaker mixed on fly)

3.0 gal AQF-2

• 0.18# BE-6

0.25 gal BA-20

(Foamer mixed on fly)
(Bacteriacide pre-mixed in full tank)
(pH buffer mixed on fly)

- 14. Shut well in after frac and record ISIP. Empty remaining fluid in frac tanks to pit and RD stimulation company. Install flowback line above frac valve. Wait 1 hour before commencing flowback. Open well to pit in accordance to **flowback schedule enclosed in procedure**. If choke plugs off, shut well in and remove obstruction from choke and return to flowback schedule. **Do not replace with next larger choke size until schedule dictates**. Continue cleaning well up until fluid returns are negligible. **Take pitot gauges when possible**.
- 15. ND flowback line, frac valve, and isolation tool. NU production valve with flow tee. NU flowback line.

Swab Rig Clean-Up

- 16. MIRU Silver Star. PU and RIH with 2 1/4" sand bailer. CO to PBTD at 2,219'. Monitor gas and water returns. **Take** pitot gauges when possible.
- 17. Continue cleaning up after frac until sand returns are a trace and fluid recovery is less than 2 BPH. TOOH. **Take final pitot gauge.**
- 18. RD and release swabbing unit.