The Western Company — Treatment Report

K. Edwards
Chaco #1
Sec 18-T26N-R12W
San Juan, N.M.
Foam Frac
309660
1-27-95

J.K. Edwards
Chaco #1
Sec 18-T26N-R12W
San Juan, N.M.
Foam Frac
L309660
1-27-95

Date January 27, 1995 | District Farmington | F.Receipt L309660 | Operator J. K. Edwards
Lease Chaco | Well No. 1 | Field Pictured Cliff | Location SEC.18,T26N,R12W
County San Juan | State NM | Stage Number 1 | This Zone ☒ | This Well ☒

WELL DATA

OG ☐ NG ☒ NO ☐ OO ☐ WD ☐ IW ☐ Misc. ☐ Depth TD/PB 1,137' Formation Pictured Cliffs
Tubing Size 2 7/8" Wt. 6.5 Set at: 1,137' Type Packer N/A Set at
Casing Size N/A Wt. Set From To Liner Size N/A Wt.
Liner Set From To Open Hole: Size N/A From To
Casing Perforation: Size .50 Holes Per Foot 2 Intervals 1,113'-1,139' 52 Holes
Previous Treatment N/A Prior Production N/A

TREATMENT DATA

Pad Used: Yes ☒ No ☐ Pad Type 20# J-4 70Q FOAM
Treat. Fluid Type: Foam ☒ Water ☐ Acid ☐ Oil ☐ Vol. 7,350 Gal.
Base Fluid type 20# J-4 Base Fluid Vol. 8,274 Gal.
Foam Qual. 70 % Mitchell ☒ Slurry ☐ Surface ☐ Downhole ☐ Total Prop Qty. 35,000 Lbs.
Prop Type: Sand ☒ WP-1 ☐ WP-3 ☐ Baux. ☐ Other 12/20 Br 5,000
Prop Mesh Sizes, Types and Quantities 40/70 BR 5000/20/40 25000 Ar
Hole Loaded With N/A Treat Via: Tubing ☒ Casing ☐ Anul. ☐ Tubing & Anul. ☐
Ball Sealers: N/A In Stages of
Types and Number of Pumps Used 2 1000's/2 N2 Pumps
Auxiliary Materials 300# J-4/ 50 G. FRAC FOAM I/50# P-4/ 8# B-11

LIQUID/GAS PUMPED AND CAPACITIES IN BBLS

Tubing Cap.	6.5
Casing Cap.	N/A
Annular Cap.	N/A
Open Hole Cap.	N/A
Fluid to Load	2
Pad Volume	50
Treating Fluid	175
Flush	6
Over Flush	N/A
Fluid to Recover	197
Total N2	138,000
Total CO2	N/A

PROCEDURE SUMMARY

7,000 G. PAD/ 3,500 G. 1# 40/70 /5,000 G. 1# 20/40 / 9,380 G. 2#
1,820 G. 3# 12/20 /252 G. FLUSH

Time AM/PM	Treating Press.-Psi		Surface Slurry bbls Pumped		Slurry Rate BPM	Surface CO2 bbls Pumped		CO2 Rate BPM	Surface N2 MSCF Pumped		N2 Rate SCFM	Comments Safety Meeting/Test Lines
	STP	Annulus	Stage	Total		Stage	Total		Stage	Total		
AM11:42	1610		0	0	9.1				0	0	7,300	START PAD 70Q
11:47	1320		50	50	10				31	31	7,300	START 1# 40/70 70Q
11:50	1310		25	75	10				20	51	7,200	START 1# 20/40 70Q
11:54	1260		41	116	11				29	80	6,200	START 2# 20/40 70Q
12:02	1440		88	204	11.7				46	126	5,800	START 3# 12/20 70Q
12:04	1310		21	225	12.8				12	138	0	START FLUSH 20# J-4
12:05	390		6	231	12.8							SHUT DOWN 5 MINS-340
												10 MINS-310

Treating Pressure: Min 100 Max. Avg. 1100 Customer Representative Paul Thompson
Inj. Rate on Treating Fluid 9-11.7 Rate on Flush 12.8 Western Representative T.M. Crabb
Avg. Inj. Rate 30 I.S.D.P. 390 Flush Dens. lbs/gal 8.43 Distribution NORMAL
Final Shut-in Pressure 280 In 15 Minutes
Operator's Maximum Pressure (psi) 3000
Recommendation ID# FM050248

Job Number 150614