Form PS-8 (Rev. 6/75)

The Western Company
of North America
TREATMENT REPORT

Date 10-25-80 Western District Farmington (31) F. Receipt 346746
Operator ~~JOHN H. HILL~~ Supron Energy
Lease Jicarilla A Well No. 13-E
Field Basin Dakota Location S13,T26N,R4W
County Rio Arriba State New Mexico
Stage Number 1, This Zone ☐ This Well ☒

WELL DATA: OG ☐ NG ☒ NO ☐ OO ☐ WD ☐ IW ☐ Misc. ☐ Depth TD/PB 8229 Formation Dakota
Size Tubing -- Tubing Perf. -- Type Packer -- Set At --
Size Casing 7 5/8 Wt. 26 Set From surface To 3800 Size Liner 5½ Wt. 17
Liner Set From 3800 To 8229 Open Hole: Size -- From -- To --
Casing Perforations: Size .40 Holes Per Foot variable Intervals 8040-8198 (14 holes)

Previous Treatment none Prior Production none

TREATMENT DATA: Pad Used: Yes ☒ No ☐ Pad Type Slick water
Treating Fluid Type: Oil ☐ Water ☒ Acid ☐ Misc. ☐ Foam ☐ Emulsion ☐
Treating Fluid Volume Gals. 102,522 Fluid Description Slick water
Total Prop Quantity 101,250 Lbs. Prop Type: Sand ☒ Beads ☐ Special ☐ None ☐
Prop Mesh Sizes, Types and Quantities 20/40 sand, 101,250 lbs.
Hole Loaded With 2% KCl Treat Via: Tubing ☐ Casing ☒ Anul ☐ Tubing & Anul. ☐
Ball Sealers: -- In -- Stages of --
Types and Number of Pumps Used (2) 1414's; (1) Pacesetter
Auxiliary Materials 126 gals Aquaflow; 63 gals X-cide; 229 lbs FR-2

FLUID PUMPED AND CAPACITIES IN BBLS.

Tubing Cap.	--
Casing Cap	388
Annular Cap.	--
Open Hole Cap.	--
Fluid to Load	--
Pad Volume	119
Treating Fluid	2322
Flush	277
Overflush	--
Total to Recover	2718

Procedure Pressure test frac line to 5000 PSI; frac Dakota via casing with 119 bbls slick water pad; 178 bbls ½#/gal 20/40 sand; 1428 bbls 1# 20/40 and 595 bbls 1½#/gal 20/40; flush to top perforation with 277 bbls; all fluid 2% KCl slick water

Time AM/PM	Treating Pressure Psi Tubing	Treating Pressure Psi Casing	Barrels Fluid Pumped	Inj. Rate BPM	REMARKS—
10:20	-	0	0	1	Start pressure test of frac line
10:30	-	4900	7	0	Test good; bleed off
11:20	-	0	0	10	Start pad
11:26	-	2200	119	34	Start 20/40 sand @½#/gal
11:31	-	1900	297	34	Start 20/40 sand @1#/gal
11:34	-	1950	396	34	20/40 sand @½#/gal on formation
11:39	-	2000	574	34	20/40 sand @1#/gal on formation
12:11	-	2300	1726	34	Start 20/40 sand @1½#/gal
12:19	-	2400	2003	34	20/40 sand @1½#/gal on formation
12:32	-	2400	2440	34	Start flush
12:40	-	2700	2718	34	All flush, shut down

Treating Pressure: Min. 1900 Max. 2400 Avg. 2200
Inj. Rate on Treating Fluid 34 Rate on Flush 34
Avg. Inj. Rate 34 I.S.D.P. 1900 Flush Dens. lb/gal 8.42
Final Shut-in Pressure 1400 in 15 Minutes.
Operator's Maximum Pressure 4500

Customer Representative Lee Burton
Western Representative Jim Quinn
Distribution (9) JOHN H. HILL
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Job Number 603273