

The Western Company

of North America

TREATMENT REPORT

Date 11-4-80 Western District Farmington (31) F. Receipt 347153
 Operator JOHN H. HILL *Supron Energy*
 Lease Jicarilla "A" Well No 11-E201
 Field Blanco Mesa Verde Location S13, T24N, R4W
 County Rio Arriba State New Mexico
 Stage Number 2 This Zone ☐ This Well ☒

WELL DATA: OG ☐ NG ☒ NO ☐ OO ☐ WD ☐ IW ☐ Misc ☐ Depth TD/RB 6200 Formation Mesa Verde
 Size Tubing 2 3/8 Tubing Perf. 5900 Type Packer Baker Full Bore Set At 5900
 Size Casing 7 5/8 Wt. 26.4 Set From surface To 3800 Size Liner 5 1/2 Wt 15.5
 Liner Set From 3800 To 6200 Open Hole: Size --- From --- To ---
 Casing Perforations: Size .36 Holes Per Foot various Intervals 5986, 5992, 5999, 6006, 6012, 6018, 6024, 6030, 6036, 6042, 6054, 6058, 6135 (13 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. 92,517 Fluid Description Slick water

FLUID PUMPED AND CAPACITIES IN BBLs.
 Tubing Cap. 22.8
 Casing Cap. 236.4
 Annular Cap. ---
 Open Hole Cap. ---
 Fluid to Load 60.8
 Pad Volume 476
 Treating Fluid 1666
 Flush 234
 Overflush ---
 Yield to Recover 2376

Total Prop Quantity 70,000 Lbs. Prop Type: Sand ☒ Beads ☐ Special ☐ None ☐
 Prop Mesh Sizes, Types and Quantities 20/40 frac sand, 70,000
 Hole Loaded With 2" KCl Treat Via: Tubing ☐ Casing ☒ Anul ☐ Tubing & Anul ☐
 Ball Sealers: 13 In 13 Stages of 1 per bbl
 Types and Number of Pumps Used (2) 1414's; (1) GRE 1700
 Auxiliary Materials 11,400 lbs KCl; 280 lbs FR-2; 26 gals X-acide; 1000 gals
 HCl; 1 gal J-15

Procedure Break down formation via tubing and 26 ball sealers in 200 gals water
 15% HCl acid; frac via casing with 70,000 lbs 20/40 1# gal in 1100 gals water

Time AM/PM	Treating Pressure-Psi Tubing	Casing	Barrels Fluid Pumped	Inj. Rate BPM	REMARKS—
10:30	0	0	0	1	Pressure test frac line to 4600 PSI
10:34	4700	0	3	0	Test good; bleed off pressure
10:40	0	0	0	2	Start 15% HCl break down
10:41	3700	0	12	0	Start 13 ball sealers
10:43	3000	0	12	5	Start 15% HCl acid
10:45	1500	0	23	5	Start 13 ball sealers in 15% HCl
10:48	1700	0	36	5	Start 2" KCl
10:53	4000	0	60.8	0	Maximum pressure obtained
1:40	0	0	0	10	Start pad
1:52	0	1300	476	52	Start 20/40 sand @1# gal
1:56	0	1200	707	51	20/40 sand 1# gal on formation
2:24	0	800	2142	52	Start flush
2:33	0	800	2376	52	All flush, shut down

Treating Pressure: Min. 800 Max. 1300 Avg. 1000
 Inj. Rate on Treating Fluid 52 Rate on Flush 52
 Avg. Inj. Rate 51 I.S.D.P. 0 Flush Dens. lb/gal 8.4
 Final Shut-in Pressure --- in --- Minutes.
 Operator's Maximum Pressure 4000

Customer Representative Lee Burton
 Western Representative Jim Quinn
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 cc: Farmington District

Job Number 599942

