Form PE-8 (Rev. 6/75)

The Western Company of North America

TREATMENT REPORT

Date 3-11-81 Western District Farmington (31) Receipt 334934
Operator ~~JOHN H. HILL~~ So. Union Expl Co.
Lease Newsom B Well No. 13-E
Field Basin Dakota Location 20 ~~S9~~ T26N, R8W
County San Juan State New Mexico
Stage Number 1 This Zone ☐ This Well ☒

WELL DATA: OG ☐ NG ☒ NO ☐ OO ☐ WD ☐ IW ☐ Misc. ☐ Depth TD/PB 6850 Formation Dakota
Size Tubing 2 3/8(6.5#) Tubing Perf. 6650 Type Packer Baker Full Bore Set At 6650
Size Casing 5½ Wt. 15.5 Set From surface To 6850 Size Liner -- Wt. --
Liner Set From -- To -- Open Hole: Size -- From -- To --
Casing Perforations: Size .34 Holes Per Foot 1 Intervals 6674, 6676, 6684, 6689, 6768, 6770, 6776, 6780, 6788, 6790, 6792, 6808, 6810, 6812, 6814 (14 holes)
Previous Treatment none Prior Production none

TREATMENT DATA: Pad Used: Yes ☐ No ☒ Pad Type
Treating Fluid Type: Oil ☐ Water ☐ Acid ☒ Misc. ☐ Foam ☐ Emulsion ☐
Treating Fluid Volume Gals. 1,843.8 Fluid Description 15% HCl
Total Prop Quantity -- Lbs. Prop Type: Sand ☐ Beads ☐ Special ☐ None ☒
Prop Mesh Sizes, Types and Quantities --
Hole Loaded With circulated w/2% KCl water Treat Via: Tubing ☒ Casing ☐ And ☐ Tubing & Ann. ☐
Ball Sealers: 42 In 28 Stages of 1 per ½ bbl.
Types and Number of Pumps Used (1) High HHP Acidmaster
Auxiliary Materials 3,500 lbs. KCl; 1,500 gals. 15% HCl; 1½ gals. [illegible]
Procedure Break down via tubing with 2% KCl; 36 bbls. 15% HCl and 42 ball sealers; flush with 2% KCl

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FLUID PUMPED AND CAPACITIES IN BBLS.

Tubing Cap.	21
Casing Cap.	--
Annular Cap.	--
Open Hole Cap.	--
Fluid to Load	7.9
Pad Volume	--
Treating Fluid	36
Flush	23
Overflush	--
Total to Recover	66.9

Time AM/PM	Treating Pressure-Psi Tubing	Casing	Barrels Fluid Pumped	Inj. Rate BPM	REMARKS—
11:20	0	-	0	2.4	Start break down
11:23	2850	-	7.9	3.4	Shut down
11:24	0	-	7.9	0	Start acid and ball sealers
11:28	2200	-	16	2.9	Shut down; lost prime
11:32	600	-	16	3	Start acid and ball sealers again
11:43	2450	-	43.9	2.6	All acid and ball sealers; start flush
11:50	4000	-	58	0	Maximum pressure obtained; shut down
11:52	2950	-	58.2	.5	Pump into
11:52	4000	-	58.3	0	Maximum pressure obtained; shut down
11:54	2700	-	58.3	.5	Pump into
11:54	4000	-	58.4	0	Maximum pressure obtained; shut down
11:58	2400	-	58.4	.5	Pump into
11:58	4000	-	58.5	0	Maximum pressure obtained; shut down; surge
12:06	700	-	58.5	1.2	Pump acid away
12:11	1800	-	66.9	1.7	All acid away; shut down

Treating Pressure: Min. 2200 Max. 4000 Avg. 3000
Inj. Rate on Treating Fluid 2.8 Rate on Flush 2
Avg. Inj. Rate 2 I.S.D.P. 1300 Flush Dens. lb/gal 8.42
Final Shut-in Pressure -- in -- Minutes.
Operator's Maximum Pressure 4000

Customer Representative C. D. Moore, T. A. Daniels
Western Representative Harry Mitchell
Distribution (9) JOHN H. HILL*
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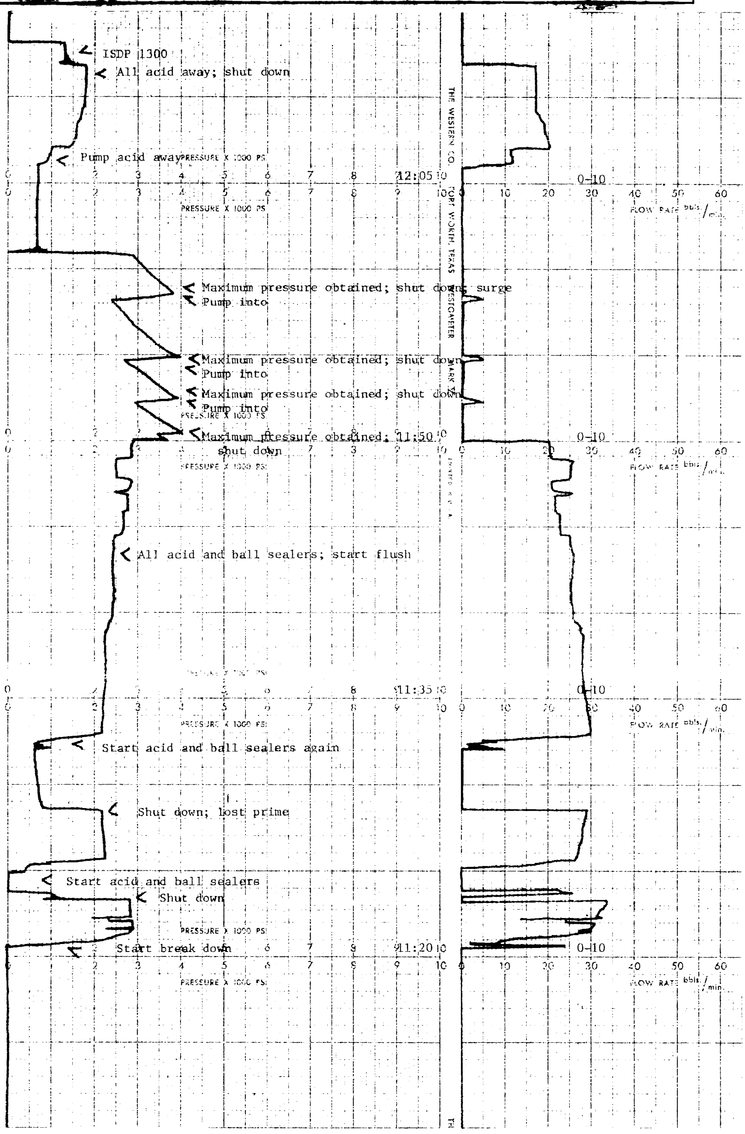
Attn: Mr. Steve Connor
cc: (2) Farmington District

Job Number 600614