Form PS-8 (Rev. 6/79)

The Western Company of North America

TREATMENT REPORT

Date 2-19-81 Production District Farmington (31) Receipt 134737
Operator John H. Hill, Supervising Corp
Lease Navajo B Well No. 10-E
Field Basin Dakota Location S8, T28N, R8W
County San Juan State New Mexico
Stage Number 1 This Zone ☐ This Well ☒

RECEIVED MAR 23 1981 OIL CON. COM. DIST. 3

WELL DATA: OG ☐ NG ☒ NO ☐ OO ☐ WD ☐ IW ☐ Misc. ☐ Depth 3D/PB 6955 Formation Dakota
Size Tubing 2 3/8 Tubing Perf unknown Type Packer Full Bore Set At unknown
Size Casing 4½ Wt. 10.5 Set From surface To Size Liner -- -- Wt. --
Liner Set From -- To -- Open Hole: Size -- To --
Casing Perforations: Size .34 Holes Per Foot 1 Intervals 6599, 6599, 6602, 6607, 6670, 6672, 6678, 6682, 6688, 6693, 6697, 6699, 6702, 6705, 6708, 6713, 6724, 6726, 6729, 6731, 6734, 6737, 6739, 6743
Previous Treatment none Prior Production none

TREATMENT DATA: Pad Used Yes ☒ No ☐ Pad Type 22 KCl
Treating Fluid Type: Oil ☐ Water ☐ Acid ☒ Misc. ☐ Foam ☐ Emulsion ☐
Treating Fluid Volume Gals. 1,092 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/22 KCl Treat Via: Tubing ☒ Casing ☐ Anul ☐ Tubing & Anul. ☐
Ball Sealers: 50 In 1 Stages of 50
Types and Number of Pumps Used (1) High Horse Acidmaster
Auxiliary Materials 850 lbs. KCl; 2 gals. I-15; 1,000 gals. 15% HCl

FLUID PUMPED AND CAPACITIES IN BBLS.

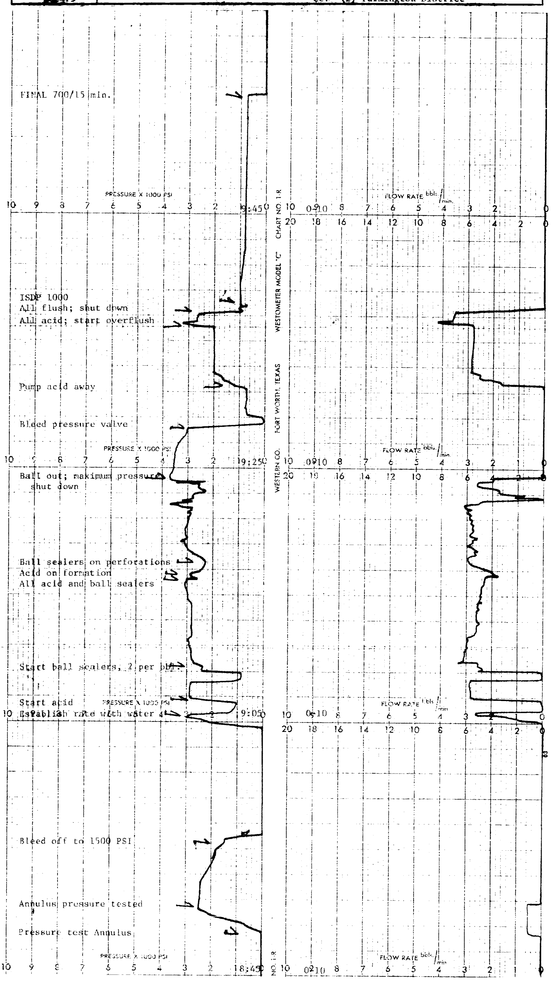
Tubing Cap.	23
Casing Cap.	3
Annular Cap.	67
Open Hole Cap.	--
Fluid to Load	--
Pad Volume	2
Treating Fluid	24
Flush	35
Overflush	--
Total to Recover	61

Procedure Pressure test Annulus to 2500 PSI; establish rate down tubing, 2 bbls.; start acid for 5 bbls.; drop 2 ball sealers per bbl for 19 bbls. of acid; spin out ball dropper and start water for 34 bbls.

Time AM/PM	Treating Pressure-Psi Tubing	Casing	Barrels Fluid Pumped	Inj. Rate BPM	REMARKS—
8:48	-	-	-	.5	Pressure test Annulus
8:50	-	2500	1	0	Annulus pressure tested
8:55	-	1500	1	0	Bleed off to 1500 PSI
9:05	3000	-	2	2.6	Establish rate with water
9:06	2900	-	2	2.8	Start acid
9:09	2400	-	7	3.1	Start ball sealers, 2 per bbl.
9:16	3000	-	26	2.4	All acid and ball sealers
9:16	2900	-	27	2.3	Acid on formation
9:17	2300	-	28	2.9	Ball sealers on perforations
9:26	3700	-	45	2	Ball out; maximum pressure; shut down
9:28	3000	-	45	0	Bleed pressure valve
9:31	1000	-	45	1.5	Pump acid away
9:36	1900	-	55	2.8	All acid; start overflush
9:37	2600	-	60	3.5	All flush; shut down

Treating Pressure: Min. 2300 Max. 3700 Avg. 3000
Inj. Rate on Treating Fluid 2.9 Rate on Flush 2.9
Avg. Inj. Rate 2.9 I.S.D.P. 1000 Flush Dens. lb/gal. 8.42
Final Shut-in Pressure 700 in 15 Minutes.
Operator's Maximum Pressure 4000

Customer Representative Lee Burton
Western Representative J. Savage
Distribution (9) JOHN H. HILL*
17400 Dallas Pkwy
Dallas, Texas 75252
Attn: Mr. Steve Connor

Job Number 82475

cc: (2) Farmington District