Form PS-8 (Rev. 6/75)

The Western Company of North America

TREATMENT REPORT

Date 8/11/77 Western District Hobbs, N. Mex. F. Receipt 160073
Operator Carl Engwall
Lease Fletcher Federal Well No 1
Field Lynch Location 27 [illegible]-34e
County Lea State New Mexico
Stage Number 2 This Zone X This Well

WELL DATA: OG NG NO XX OO WD IW Misc Depth TD/PB [illegible] Formation Yates
Size Tubing 2 3/8" Tubing Perf. 3521 Type Packer Lovejoy TS Set At 3521
Size Casing 7" Wt. 20# Set From 0 To 3450 Size Liner 4 1/2" Wt. 9.5
Liner Set From 3450 To 3600 Open Hole: Size From To
Casing Perforations: Size .38 Holes Per Foot 2 Intervals 3518-3[illegible]
Previous Treatment Prior Production

TREATMENT DATA: Pad Used: Yes X No Pad Type Mini-Max
Treating Fluid Type: Oil Water X Acid Misc. Foam Emulsion
Treating Fluid Volume Gals. 20,000 Fluid Description Mini-Max
Total Prop Quantity 25,000 Lbs. Prop Type: Sand X Beads Special Non-
Prop Mesh Sizes, Types and Quantities 20/40
Hole Loaded With 2% KCL Water Treat Via: Tubing X Casing Anul Tubing & Anul.
Ball Sealers: 10 In 1 Stages of 10
Types and Number of Pumps Used 2 Pacesetters 1000
Auxiliary Materials 21 Gallons Adomite; 50# Aqua Seal II; 210# [illegible]

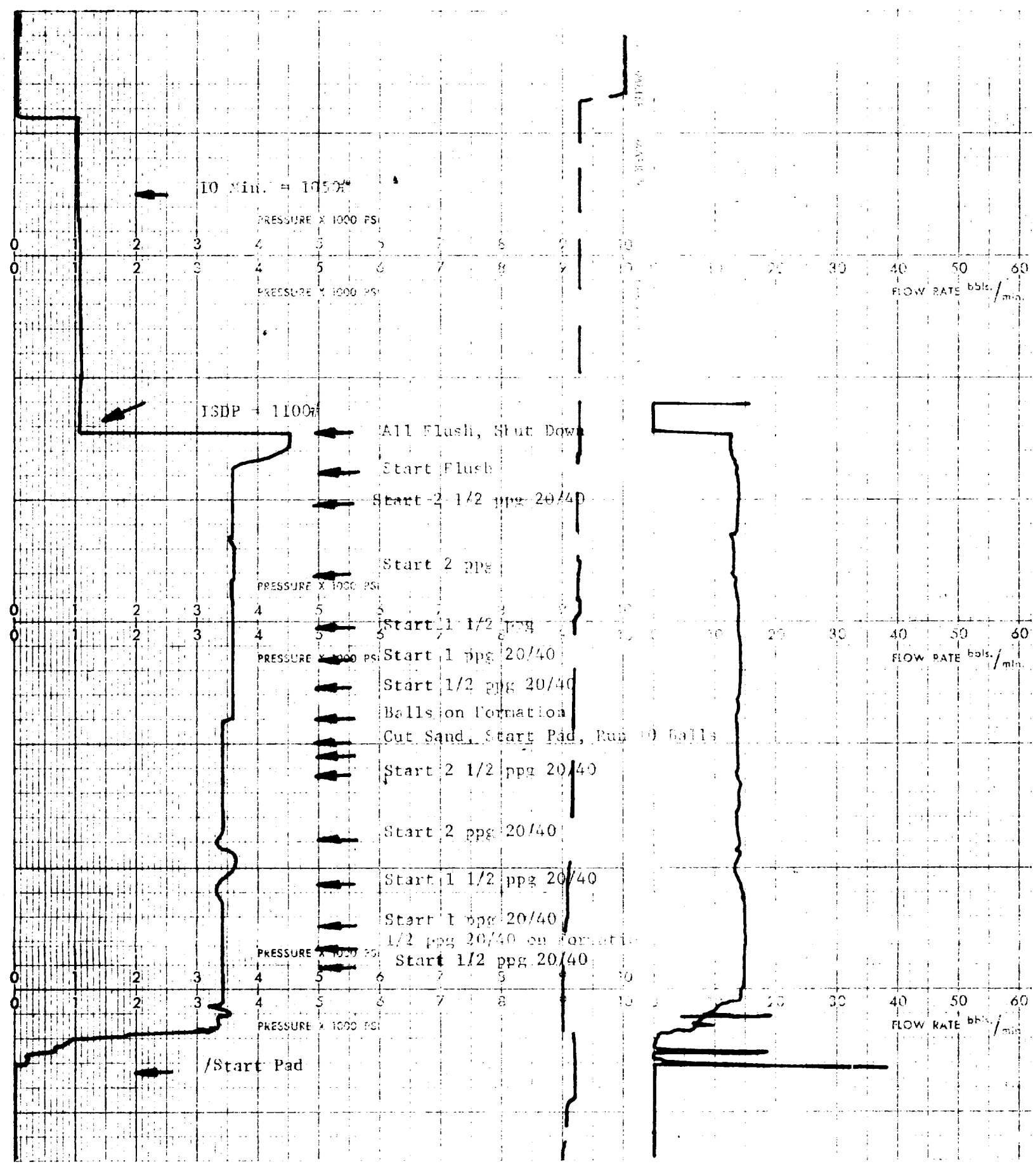
FLUID PUMPED AND CAPACITIES IN BBLS.

Tubing Cap.	12.6
Casing Cap.	[illegible].7
Annular Cap.	122
Open Hole Cap.	
Fluid to Load	
Pad Volume	48
Treating Fluid	434
Flush	14.[illegible]
Overflush	
Total to Recover	496

Procedure Treat Casing Perfs via Tubing as follows: Run Two Stage [illegible] Frac Separated by 10 Balls as follows: 2000 pad; 1000 with 1/2; 1000 with 1 ppg; 2000 with 1 1/2 ppg; 2500 with 2 ppg; 1000 with 2 1/2 ppg 20/40; Flush with [illegible] 2% KCL Water.

Time AM/PM	Treating Pressure-Psi Tubing	Casing	Barrels Fluid Pumped	Inj. Rate BPM	REMARKS— Safety Meeting, Test Lines
10:32	0	1000	0	0	Start Pad.
10:36	3400	1000	48	15	Start 1/2 ppg 20/40.
10:36+	3400	1000	62	15	1/2 ppg on Formation
10:37+	3400	1000	72	15	Start 1 ppg.
10:39+	3300	1000	106	15	Start 1 1/2 ppg.
10:41	3300	1000	156	14	Start 2 ppg.
10:43+	3450	850	218	14	Start 2 1/2 ppg.
10:45	3450	850	242	14	Cut Sand, Start Pad, Run 10 Balls.
10:46	3450	850	256	14	Balls on Formation.
10:47+	3600	800	290	14	Start 1/2 ppg 20/40.
10:48+	3600	800	314	14	Start 1 ppg 20/40.
10:50	3600	800	350	14	Start 1 1/2 ppg 20/40.
10:52	3600	850	398	14	Start 2 ppg 20/40.
10:55	3600	750	458	14	Start 2 1/2 ppg 20/40.
10:56	3600	750	482	14	Start Flush.
10:57+	4550	750	496	14	Shut Down.

Treating Pressure: Min. 3300 Max 4550 Avg 3600
Inj. Rate on Treating Fluid 14 Rate on Flush 14
Avg. Inj. Rate 14 I.S.D.P. 1150 Flush Dens. lb/gal 8.4
Final Shut-in Pressure 1050 in 10 Minutes.
Operator's Maximum Pressure 5000

Customer Representative Mr. Bill Morgan
Western Representative Jerry Grady
Distribution
Sent Box 1[illegible] Roswell, N. Mex. 88201
Lea Co. [illegible] District Office

Job Number
514547