052-1211

The Western Company of North America
TREATMENT REPORT

Date 02 08 90 Western District FARMINGTON F. Record 13369
Operator MERIDIAN OIL
Lease SAN JUAN 30-6 SWD Well No. #2
Field MORRISON/ENTRADA Location SEC 23 T30N R7W
County RIO ARRIBA State NM
Stage Number ____ This Zone ☐ This Well ☐

WELL DATA: OC ☐ NC ☐ NO ☐ OO ☐ WD ☐ IW ☒ Misc. ☐ Depth TD/PB 8890 Formation BLUFF,MORRISON,ENTRADA
Size Tubing 2.1/2 Tubing Perf ____ Type Packer PRODUCTION? Set At 8250
Size Casing 7" Wt 23# Set From SURFACE To — Size Liner ____ Wt ____
Liner Set From ____ To ____ Open Hole Size ____ From ____ To ____
Casing Perforations: Size 50 Holes Per Foot ____ Intervals 7971-8865 747 HOLES
Previous Treatment FRAC ALL THREE ZONES Prior Production NA/INJECTION WELL

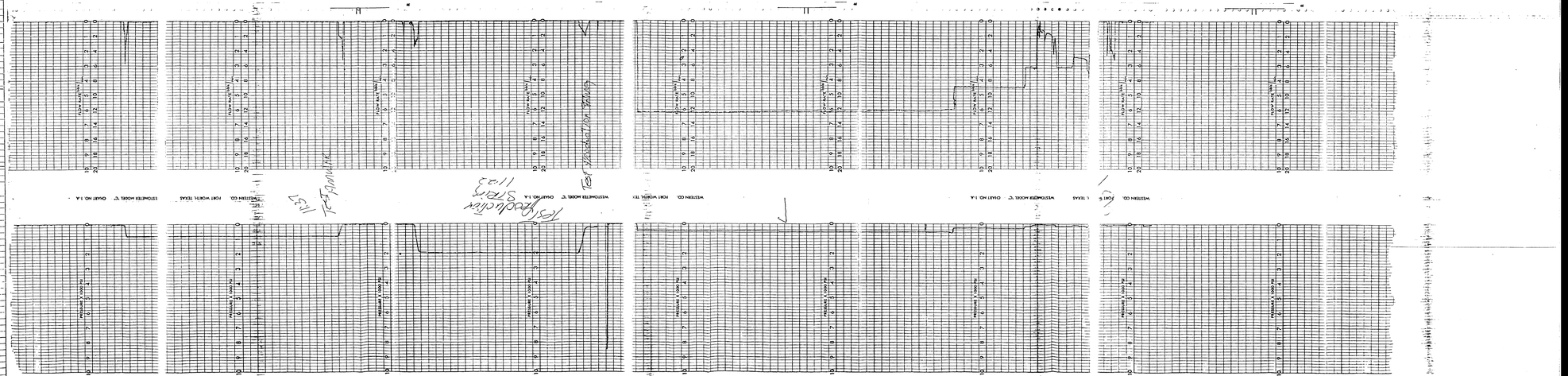
TREATMENT DATA: Pad Used Yes ☐ No ☐ Pad Type NONE
Treating Fluid Type: Oil ☐ Water ☒ Acid ☐ Misc. ☐ Foam ☐ Emulsion ☐
Treating Fluid Volume Gals ____ Fluid Description PACKER FLUID
Total Prop Quantity NA Lbs. Prop Type: Sand ☐ Beads ☐ Special ☐ None ☐
Prop Mesh Sizes, Types and Quantities PACKER FLUID
Hole Loaded With PACKER FLUID Treat Via: Tubing ☐ Casing ☐ Anul ☐ Tubing & Anul. ☒
Salt Sealers ____ lb Stages of ____
Types and Number of Pumps Used (1) ACID FRAC 700
Auxiliary Materials MERIDIAN SUPPLIED PACKER FLUID

Procedure PUMP 200 BBL BLENDED PACKER FLUID, DISPLACE WITH 122 BBL PRODUCED WATER, TEST 4-1/2 TUBING TO 2000 PSI, TEST ANNULAR TO 750 PSI

FLUID PUMPED AND CAPACITIES IN BBLS.
Tubing Cap ____ 122
Casing Cap ____ 150
Annular Cap ____
Open Hole Cap ____
Fluid to Load ____ 1
Pad Volume ____
Treating Fluid ____ 200
Flush ____ 122
Overflush ____
Total to Recover 323

Time AM/PM	Treating Pressure-Psi Tubing	Casing	Barrels Fluid Pumped	Inj. Rate B P M	REMARKS—
9:51	250	—	200	6.5	START PACKER FLUID
10:31	500	—	122	6.7	START DISPLACEMENT
10:53	500	—	322	6.7	SHUTDOWN
11:32	2000	—	5	1	TEST PRODUCTION STRING HOLD TEST FOR 30 MIN
11:37	—	750	5	1	TEST ANNULAR HOLD TEST 30 MIN HELD 30 MIN TUBING 2000 PSI HELD 30 MIN ANNULAR 750 PSI

Treating Pressure: Min 500 Max 2000 Avg 2000
Avg Rate on Treating Fluid 6 Rate on Flush 6
Avg Inj Rate 6 ISIP NA Flush Data 8/psi 9744
Final Shut-in Pressure ____ Minutes ____
Operator's Maximum Pressure 2000

Customer Representative DALE GALE
Western Representative RON GUNGUN
Distribution MERIDIAN OIL

Job Number 872466