

MERIDIAN OIL

October 1, 1986

Mr. R. L. Staments
New Mexico Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501

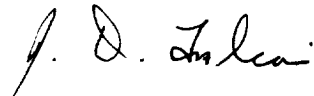
Re:  San Juan 30-6 Unit #112Y Disposal Well

Dear Mr. Staments:

Attached is an analysis of a step-rate injectivity test on the subject well which was conducted by Meridian Oil Inc. on September 26, 1986. This test was witnessed by Mr. Frank Chavez of your Aztec office.

This information is being submitted as an amendment to our request for a maximum injection rate and pressure of 12,000 barrels of water per day at 2000 psig, respectively as shown on Attachment #4 of our application. We request this information be changed to 18,720 barrels of water per day at 1852 psig.

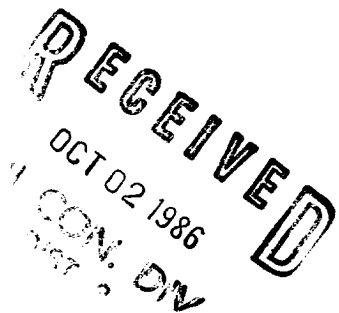
Sincerely,



James D. Falconi
Drilling Engineer

JDF:pd

cc: Mr. Frank Chavez



STEP RATE INJECTION TEST

MERIDIAN OIL INC.
TREATMENT REPORTPAGE _____ OF _____
STAGE _____ OF _____
DATE 9-26-86

WELL NAME <u>SAN JUAN 30-6 #112 Y</u>	SEC. <u>26</u> T <u>30</u> R <u>6</u>	COUNTY <u>Rio Arriba</u>	STATE <u>N. Mex.</u>
FORMATION <u>Morrison/Entrada</u>	FIELD	TD <u>14030</u>	PSTD
COTD			

WELL DATA

CASING: Size <u>9 5/8</u> O.D.	LINER: Size <u>7</u> O.D.	TUBING: Size <u>4 1/2</u> O.D.	BRIDGE PLUG ☐ PACKER ☒
Weight <u>47162.8</u> Type <u>SS-95</u>	Weight <u>38*</u> Type <u>S-95</u>	Weight <u>11610.5</u> Type <u>K-55</u>	Type <u>Packer FA-1</u>
Depth <u>8105</u>	From <u>7756</u> To <u>14026</u>	Depth <u>8000</u>	Set At <u>8000'</u>

PERFORATING -- TREATING

PERFORATING CO. <u>Basin</u>	TREATING CO. <u>Western</u>
SPF <u>1</u> Type Shot	Equipment <u>Van, Pumps, Blenders, Iron</u>
Perf. Diameter <u>.6"</u> Total Holes <u>551</u> Missfires	Number and Type Pumps <u>3-1000's</u>
Perf. Intervals <u>9052-9245, 9520-9562, 9574-9634,</u>	Tanks: El Paso ☒ No: Other
<u>9646-9670, 9780-9782, 9766-9780, 9800-9800, 9821-9828,</u>	Number and Size Tanks <u>6-400's</u>
<u>9847-9854, 9859-9860, 9880-9884, 9878-9880, 9886-9888</u>	<u>555-WATER</u>

MATERIALS USED: Sand: _____ Mesh: _____ Pounds: _____ Other _____
Fluid _____; Load _____ Gal.; Breakdown _____ Gal.; Treat _____ Gal.; Flush _____ Gal.
Total Fluid <u>60,690</u> Gal. Chemicals Used _____

TREATMENT SUMMARY	Average Rates -- BPM: Treating _____ Displ. _____ Overall _____
Ball Sealers: Type _____; Diameter _____ Inch; Total No. _____; (_____ Sets of _____ Each. Other _____)	
Pressures -- PSI: Maximum Allowable _____ Breakdown _____ Max. Trtg. _____	
Minimum Trtg. _____ Aug. Trtg. _____ ISIP <u>1650</u> 5 Min. <u>1200</u> 15 Min. <u>900</u>	
Sand Density _____ #/ Gal.: Max. _____ Min. _____ Overall _____	

DETAILS OF TREATMENT

$$P_{sg} - P_p = P_{un}$$

STAGE NO.	SAND (LB.)	FLUID - GAL.	PRESSURE	IR - BPM	NO. BALLS DROPPED	REMARKS
1	—	630	100	1	—	100-40=90
		1260	200	2		200-17=183
		2540	430	4		400-61.5=338.5
		3150	600	5		600-128=472
		5725	1000	7 1/2		1000-218=782
		6300	1420	10		1420-329=1091
		13860	2090	15		2090-695=1395
		12,600	2710	20		2710-1175=1535
		15,780	3350	25		3350-1771=1579
		7875	1800	12 1/2		1800-479=1303
GENERAL DISCUSSION						

MOLIRU. TEFTELLER RAN Pressure bomb to 8200'. Western RAN STEP RATE TEST
AS SHOWN ABOVE

JOB COMPLETE: DATE 9-26-86
TIME 2:00 PM


EXPLORATION REPRESENTATIVE

To: Mr. C. W. Dein

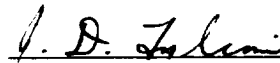
Date: September 29, 1986

From: J. D. Falconi

Location: Farmington, NM

Subject: San Juan 30-6 Unit #112Y
Step-Rate Injection Test

Attached is an analysis of the data from the step-rate injection test on the subject well. This test was conducted September 26, 1986 by R. M. Pinkett and J. K. Dennington, and witnessed by Mr. Frank Chavez of the New Mexico Oil Conservation Division. In accordance with New Mexico Oil Conservation Division rules, fluid was injected for a minimum of fifteen minutes at various rates. Results of the test indicate a maximum injection rate of 13.0 BPM (18,720 BWPD) at 1852 psig surface pressure.

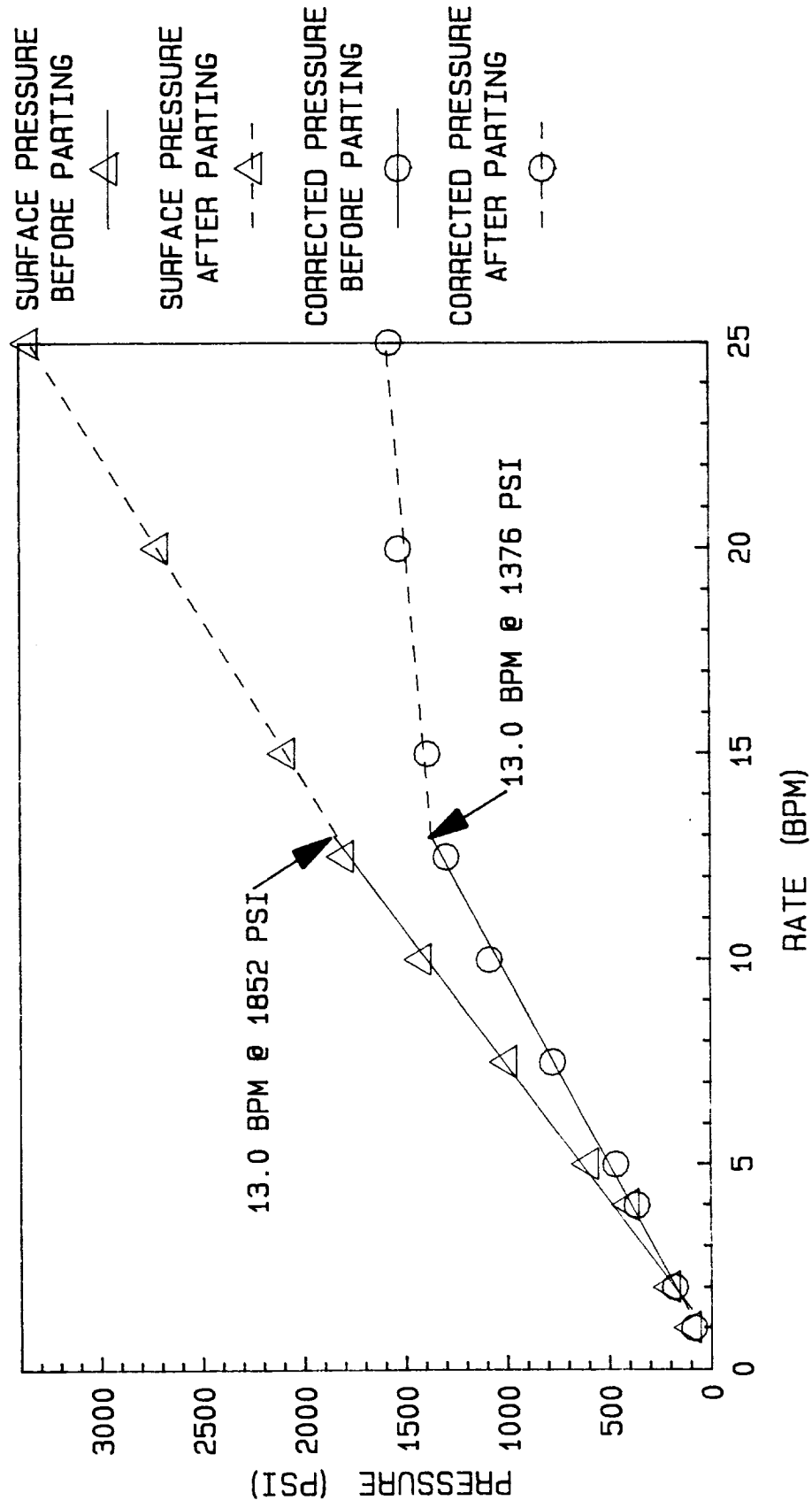


J. D. Falconi

JDF:pd

cc: J. K. Dennington
D. R. Harris
R. M. Pinkett
D. C. Walker

SAN JUAN 30-6 UNIT #112Y DISPOSAL WELL



STEP-RATE TEST RUN 09-26-86
BY R.M.PINKETT & J.K.DENNINGTON
CORRECTED PRESSURE = SURFACE - FRICTION PRESSURE

INJECTION DATA

Data Set #1

Surface pressure before parting

<u>Rate(BPM)</u>	<u>Pressure(psig)</u>
1.0	100
2.0	200
4.0	400
5.0	600
7.5	1,000
10.0	1,420
12.5	1,800

Data Set #3

Corrected pressure before parting

<u>Rate(BPM)</u>	<u>Pressure(psig)</u>
1.0	90
2.0	183
4.0	369
5.0	472
7.5	782
10.0	1,091
12.5	1,303

Data Set #2

Surface pressure after parting

<u>Rate(BPM)</u>	<u>Pressure(psig)</u>
15.0	2,090
20.0	2,710
25.0	3,350

Data Set #4

Corrected pressure after parting

<u>Rate(BPM)</u>	<u>Pressure(psig)</u>
15.0	1,395
20.0	1,535
25.0	1,579

NOTE: Corrected pressure = surface
pressure - friction pressure

Regression Data

Date Set	Regression Type	R^2	Slope	Y-intercept
#1	linear	0.994	151.9	-123.0
#2	linear	0.995	126.0	196.7
#3	linear	0.997	109.1	- 41.5
#4	linear	0.917	18.4	1135.0