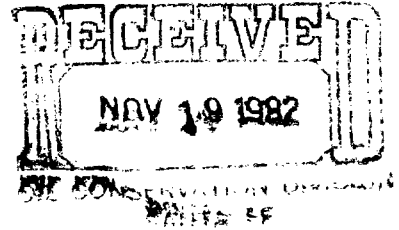




McClellan Oil Corporation

November 17, 1982



Oscar Simpson
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501

Re: Sulimar Queen Unit
Water Injection

Dear Sir:

McClellan Oil Corporation requested via a letter sent September 24, 1982 for administrative authorization to inject water into the Queen formation at a maximum of 1000 psi. Mr. Ramey stated in his return letter of September 28, 1982 that it would be necessary to run a "step-rate" test on the Tract I-11 before the authorization could be granted.

Enclosed are copies of frac treatments from the Sulimar Queen Tract I-11 and Sulimar Queen Tract 1-15. Average treating pressure runs from 1700 psi to 2000 psi indicating that fracture pressure is somewhat greater than the requested 1000 psi. Instant shut-in pressures are consistently higher than 1200 psi.

Also, the Tract 1-11 is presently at 1000 psi injection pressure, accepting approximately 20.6 barrels of water per day. This rate obviously does not indicate fracture conditions.

Furthermore, a valid step-rate test could not be run unless the fracture pressure is obtained during the test. We are strongly opposed to this as we do not wish to create fractures out of zone and lose our injection point.

Therefore, McClellan Oil Corporation again requests for administrative authorization to inject at 1000 psi.

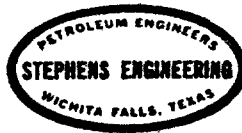
Sincerely yours,

Paul Ragsdale
Operations Manager

PR/ks

Enclosures

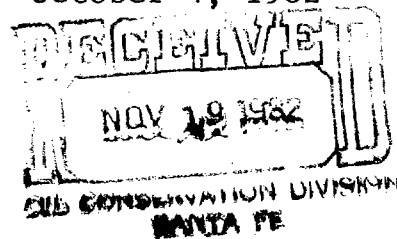
TELEPHONE - 817-723-2166



POST OFFICE BOX - 2249

WICHITA FALLS, TEXAS
76307

October 4, 1982

McClellan Oil Corporation
Drawer 730
Roswell, New Mexico 88202

Attn: Mr. Paul Ragsdale

Re: Step Rate Test
McClellan Oil Corporation
Sulimar Queen Unit
Well No. 1-11
Chaves County, New Mexico

Dear Paul:

Reference is made to a letter recently received in your office from Mr. Joe D. Ramey with the Energy and Minerals Department of the State of New Mexico. This letter was dated September 28, 1982 and requested that a step rate test be run on well No. 1-11 to prove that water injected at 1000 psi would not fracture the formation.

As shown in the last several monthly reports prepared by Stephens Engineering, injection into well No. 1-11 is presently at 1000 psi and the well is accepting approximately 20.6 barrels of water per day. Since this rate is obviously not indicating a fracture condition, we request further information from Mr. Ramey as to what type step rate test he would desire in order to prove that fracturing does not occur in the Sulimar area at 1000 psi.

It is pointed out that in the event Mr. Ramey desires that the pressures be taken above 1000 psi to create actual fracturing in the reservoir that two very dangerous conditions exist. These conditions consist of the possibility that the tubing now in well No. 1-11 could be parted or develops a leak since this tubing has been used for a considerable amount of time. This tubing can operate at a pressure of 1000 psi, but could possibly fail at a

pressure above that position. Secondly, that should fracturing actually be purposely originated at this well it is possible that the well could be lost as a good injection point by communication with zone above and/or below the formation now accepting injection.

Therefore, we request that Mr. Ramey identify the type test he desires to obtain an exemption especially since we are presently operating at a pressure that is requested in his letter of September 28, 1982 and is obviously not creating a fracturing condition in the formation at present.

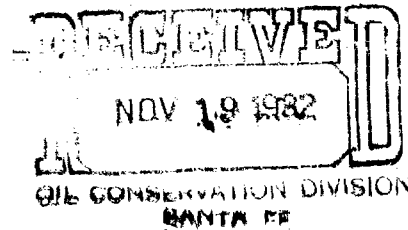
Should there be any questions concerning this matter, please do not hesitate to contact our office.

Yours very truly,

STEPHENS ENGINEERING


Joe L. Johnson, Jr.

JLJjr/cp



Date 2/27/76 Western District Hobbs, N. Mex. F. Receipt 140708
Operator McClellan Oil Corporation
Lease Sulimar Queens Unit Tract Well No. 1 #11
Field Sulimar Location 24-15s-29e
County Chaves State New Mexico
Stage Number 1 This Zone ☒ This Well ☒

WELL DATA:

OG ☐ NG ☐ NO ☒ OO ☐ WD ☐ IW ☐ Misc. ☐ Depth TD/~~FB~~ 2010 Formation Queens
 Size Tubing _____ Tubing Perf. _____ Type Packer _____ Set At _____
 1/2" Wt. 15.50# Set From 0 To 2010 Size Liner _____ Wt. _____
 To _____ Open Hole: Size _____ From _____ To _____
 Size _____ Holes Per Foot 2 Intervals 1970 - 1978
 (16 Holes)

Previous Treatment None Prior Production None

TREATMENT DATA:

Pad Used: Yes ☒ No ☐ Pad Type Gelled Water
Treating Fluid Type: Oil ☐ Water ☒ Acid ☐ Misc. ☐ Foam ☐ Emulsion ☐
10,000 Fluid Description Gelled Water

Treating Fluid Volume Gals.	10,000	Fluid Description	Gelled Water
-----------------------------	--------	-------------------	--------------

Total Prop Quantity: 11,250 Lbs. Prop Type: Sand ☒ Beads ☐ Special ☐ None ☐

Prop Mesh Sizes, Types and Quantities 8250# 20/40, 3000# 10/20

•Hole Loaded With Fresh Water

Treat Via: Tubing ☐ Casing ☒ Anul ☐ Tubing & Anul. ☐

Ball Sealers: None In Stages of

Types and Number of Pumps Used 1 Fracmaster 1111

Auxiliary Materials 20# B-10; 110 Gallons SP-181; 400# J-2; 250# Aqua Seal 2;

15 Gallons Aqua Flow

Procedure **Frac Casing Perfs via Casing**

FLUID PUMPED AND CAPACITIES IN BBLS.

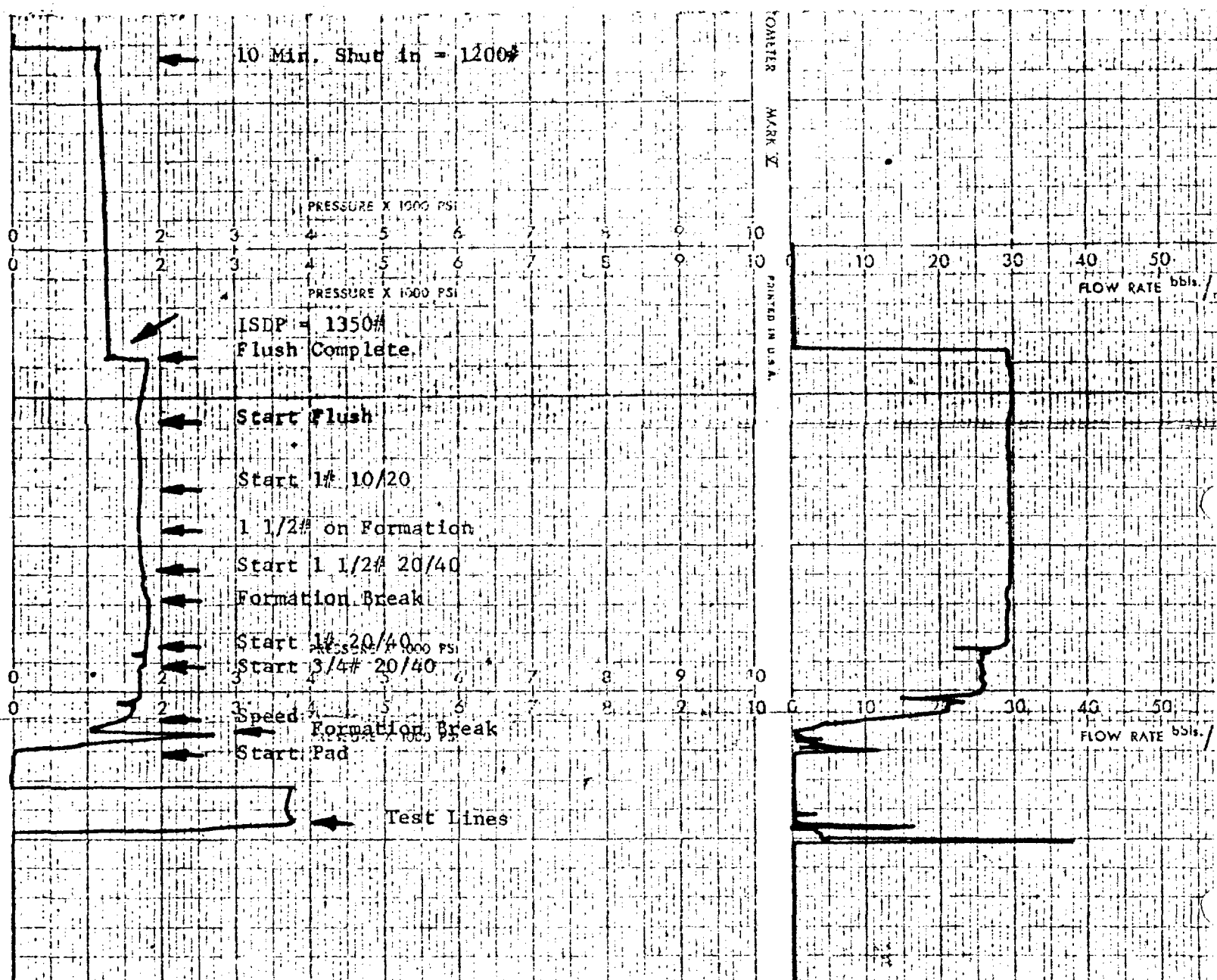
Tubing Cap.	
Casing Cap.	47
Annular Cap.	
Open Hole Cap.	
Fluid to Load	
Pad Volume	48
Treating Fluid	330
Flush	47
Overflush	15
Total to Recover	340

[illegible]

Treating Pressure: Min.	1000	Max.	2750	Avg.	1700
Inj. Rate on Treating Fluid	29	Rate on Flush	29		
Avg. Inj. Rate	29	I.S.D.P.	1350	Flush Dens. lb/gal	8.34
Final Shut-in Pressure	1200	in	10	Minutes	
Operator's Maximum Pressure	3500				

Customer Representative Mr. Jack McClellan
Western Representative John Capps
Distribution _____
5cc: Box 848, Roswell, N. Mex., 88201
1cc: Hobbs District Office

Job Number



TREATMENT REPORT

Date 11/10/82 Western District Roswell F. Receipt 618274
Operator McClellan Oil
Lease Sulimar Queen Tract Well No. 1-15
Field Sulimar Location _____
County Chaves State New Mexico
Stage Number 1 This Zone ☒ This Well ☒

DATA:	OG ☐ NG ☐ NO ☒ OO ☐ WD ☐ IW ☐ Misc. ☐	Depth TD/PB	2040	Formation	Queen
Size Tubing	2 3/8	Tubing Park spot	2010	Type Packer	none
Weight	5.5 Wt.	15.5	Set From	--	To --
Size Liner	--	Wt.	--	Set At	--
Open Hole: Size	--	From	--	To	--
Perforations: Size	.40	Holes Per Foot	2 (PF)	Intervals	1990-1996
					12 holes

us Treatment n.a. Prior Production n.a.

ATTENTION DATA:		Pad Used: Yes ☒ No ☐ Pad Type <u>30 lb. H₂O</u> Treating Fluid Type: Oil ☐ Water ☒ Acid ☒ Misc. ☐ Foam ☐ Emulsion ☐ Fluid Volume Gals. <u>14,250</u> Fluid Description <u>14,000 gal. 30 lb. 2% KCl,</u> <u>250 gal. 15% DS-30</u>		FLUID PUMPED AND CAPACITIES IN BBLs.	
Prop Quantity <u>12,000</u> Lbs. Prop Type: Sand ☒ Beads ☐ Special ☐ None ☐		Fresh Sizes, Types and Quantities <u>8,000 lb. 20/40, 4,000 lb. 10/20</u>		Tubing Cap. <u>7.7</u>	
Loaded With <u>2% KCl</u> Treat Via: Tubing ☐ Casing ☒ Anul ☐ Tubing & Anul. ☐		Valers: <u>--</u> In <u>--</u> Stages of <u>--</u>		Casing Cap. <u>47.5</u>	
and Number of Pumps Used <u>1 1414</u>		ry Materials <u>510 lb. J-2, 2800 lb. KCl, 17 gal. Aqua Flow, .25 gal.</u>		Annular Cap. <u>36.7</u>	
<u>I-10, 200 lb. Aquaseal</u>		ure. <u>Spot 6 Bbl. 15% DS-30, pull tubing, treat perms via casing</u>		Open Hole Cap. <u>--</u>	
<u>with 14,000 gal. 30 lb. Slick 2% KCl with 8,000 lb. 20/40 and</u>		<u>4,000 lb. 10/20, then flush.</u>		Fluid to Load <u>--</u>	
				Pad Volume <u>49</u>	
				Treating Fluid <u>150</u>	
				Flush <u>47.3</u>	
				Overflush <u>12.7</u>	
				Total to Recover <u>259</u>	

[illegible]

g Pressure: Min.	1800	Max.	2400	Avg.	2000	Customer Representative	Mr. Paul Ragsdale
e on Treating Fluid	13	Rate on Flush	14	Western Representative	H.J. Freeman		
j. Rate	13	I.S.D.P.	1300	Flush Dens. lb/gal	8.43	Distribution	P.O. Box 730, Roswell, N.M.
ut-in Pressure	1300	in	15	Minutes.			lcc
or's Maximum Pressure	2500					Roswell District Office	lcc

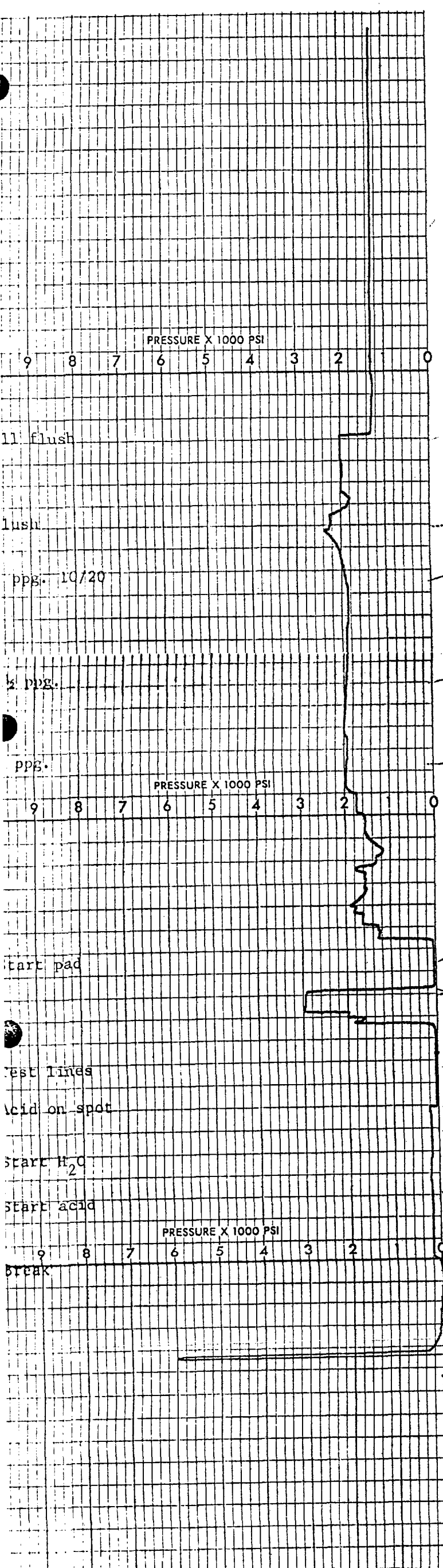
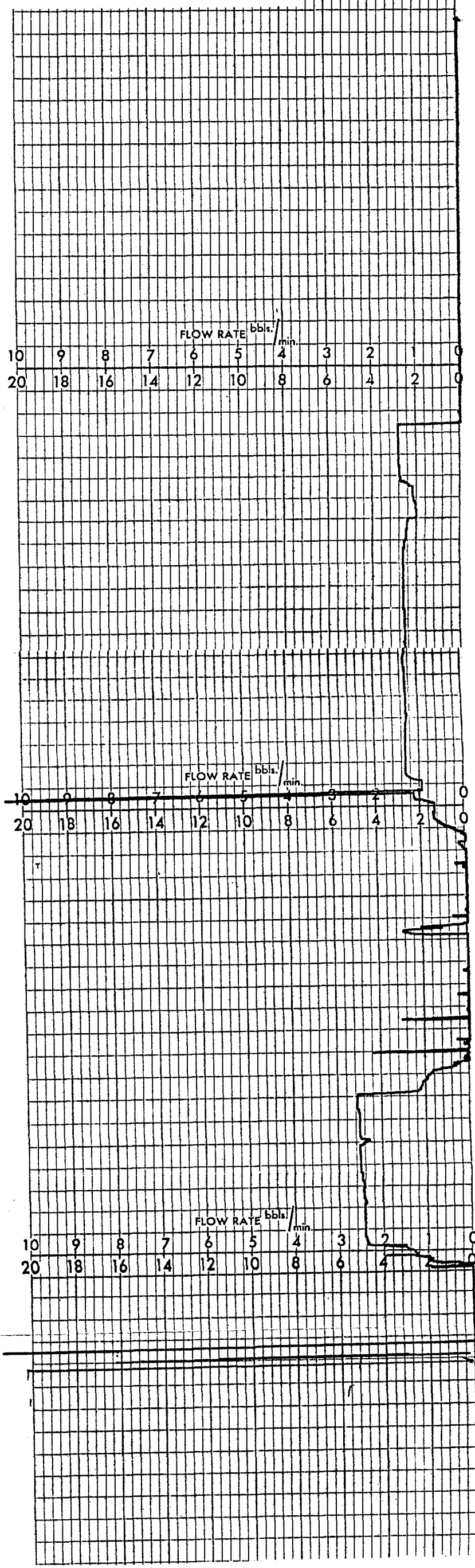


CHART NO. 1-A

WESTERN CO. FORT WORTH, TEXAS.



The Western Company

of North America

TREATMENT REPORT

Date 2-27-78 Western District 40385-10-11 F. Receipt
 Operator W. J. MELLAN OIL CORPORATION
 Lease SULIDAR QUEENS UNIT TRACT Well No. 1 # 11
 Field SULIDAR Location SEC 34-155-29E
 County CHAVEZ State NEW MEXICO
 Stage Number 1 This Zone ☒ This Well ☒

WELL DATA: OG ☐ NG ☐ NO ☒ OO ☐ WD ☐ IW ☐ Misc. ☐ Depth TD/PB 2010 Formation QUEENS
 Size Tubing _____ Tubing Perf. _____ Type Packer _____ Set At _____
 Size Casing 5 1/2 Wt. 15.50 Set From 0 To 2010 Size Liner _____ Wt. _____
 Liner Set From _____ To _____ Open Hole: Size _____ From _____ To _____
 Casing Perforations: Size 4 1/4 Holes Per Foot 2 Intervals 1970 - 1978
116 HOLES
 Previous Treatment NONE Prior Production NONE

TREATMENT DATA: Pad Used: Yes ☒ No ☐ Pad Type BELLED WATER
 Treating Fluid Type: Oil ☐ Water ☒ Acid ☐ Misc. ☐ Foam ☐ Emulsion ☐
 Treating Fluid Volume Gals. 10,000 Fluid Description BELLED WATER
 Total Prop Quantity 11250 Lbs. Prop Type: Sand ☒ Beads ☐ Special ☐ None ☐
 Prop Mesh Sizes, Types and Quantities R250# 20/40 3000# 10/20
 Hole Loaded With FRESH WATER Treat Via: Tubing ☐ Casing ☒ Anul ☐ Tubing & Anul. ☐
 Ball Sealers: NONE In _____ Stages of _____
 Types and Number of Pumps Used 1 F2M 1111
 Auxiliary Materials 20# B-10 : 110 GALS SPIRI; 400# F-2 : 250# A-SEAL
2 : 15 GALS AQUA FLOW
 Procedure FRAC PEG. PERFS 111A PEG.

FLUID PUMPED AND CAPACITIES IN BBLs.
 Tubing Cap. _____
 Casing Cap. 47
 Annular Cap. _____
 Open Hole Cap. _____
 Fluid to Load _____
 Pad Volume 48
 Treating Fluid 330
 Flush 47
 Overflush 15
 Total to Recover 340

Time AM/PM	Treating Pressure-Psi		Barrels Fluid Pumped	Inj. Rate B P M	REMARKS—
	Tubing	Casing			
11:56			1	5	SAFETY MEETING
11:56		2750	1	4	2 LINES TESTED
12:01		1750	48	25	ST. PAD 1 PRESSURE ENTRY
12:04		1800	65	25	FRM. BREAK TO 1000#- SPEED PUMP
12:04		1750	144	29	ST. 30" 20/40 SAND
12:07		1700	216	29	ST. 1" 20/40 SAND
12:09		1700	278	29	ST. 1 1/2" 20/40 SAND
12:11		1800	340	29	ST. 1" 10/20 SAND
					ST. FLUSH
					FLUSH COMPLETE

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 OIL CORP.

Treating Pressure: Min. 1000 Max. 2750 Avg. 1700
 Inj. Rate on Treating Fluid 29 Rate on Flush 29
 Avg. Inj. Rate 29 I.S.D.P. 1250 Flush Dens. lb/gal. 6.34
 Final Shut-in Pressure 1200 in 10 Minutes.
 Operator's Maximum Pressure 3500

Customer Representative JACK M. MELLAN
 Western Representative JOHN CHAPPS
 Distribution _____

Job Number _____

Date 11-10-92 Western District Lawwell F. Receipt 618271
Operator 1920 Well Co. Inc.
Lease Sevier Queen Tract Well No. 1-15
Field Sevier Location
County Sevier State New Mexico
Stage Number 1 This Zone ☐ This Well ☐

OG ☐ NG ☐ NO ☒ OO ☐ WD ☐ IW ☐ Misc. ☐ Depth TD/PB 2040 Formation Queen
Size Tubing 2-3/4 Tubing Perf. 2010 Type Packer None Set At

Size Casing 5 1/2 Wt. 15.5 Set From — To — Size Liner — Wt. —
 Liner Set From — To — Open Hole: Size — From — To —
 Casing Perforations: Size 40 Holes Per Foot 2 (PF) Intervals 1990-1996 22 holes

Prior Production 1/1/1

Pad Used: Yes ☒ No ☐ Pad Type: 30/6 H₂O
Treating Fluid Type: Oil ☐ Water ☒ Acid ☒ Misc. ☐ Foam ☐ Emulsion ☐

Treating Fluid Volume Gals. <u>14,250</u>	Fluid Description <u>14,250 gal. 30% 25% K21</u>
---	--

Total Prop Quantity 12,000 Lbs. Prop Type: Sand ☒ Beads ☐ Special ☐ None ☐

Prop Mesh Sizes, Types and Quantities 5,000 15 20/40 4,000 15 10/20

Hole Loaded With 2 1/2" PCL Treat Via: Tubing ☐ Casing ☒ Anul ☐ Tubing & Anul. ☐

Ball Sealers: _____ In _____ Stages of _____

Types and Number of Pumps Used 1 - 14/121

Auxiliary Materials: 510# J-7 @ 2800/lb. K.L.H. : Total Area Flow: .25

I-10 : 210R, Apr 6, 1941

Procedure: Cont. (1) RLH 1-2" MS-30-Pull Tubing Taped Poles Via Lanes

10/1 - 1984 - 1/6 - 10/16 - 34.4 x 23.2 KLL w/ 8,030 lbs - 20/40 x 4,620/lbs 10/76

Th. A. A.

FLUID PUMPED AND CAPACITIES IN BBLS.

Tubing Cap. 27

Casing Cap. 47.5

Annular Cap. 3/4

Open Hole Cap. _____

Fluid to Load _____

Pad Volume 49

Treating Fluid 150

Flush 47

Overflush 120

Total to Recover 25

[illegible]

REMARKS—

Cont P

Sept 11

TABLE 18.

21 April 1961

21 Feb - 1

SPT # 15
Load Test

TSP-1300

5 min - 1300

10 min 1300

15 PM. $\alpha = 1300$

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NOV 14 1982

NOV 14 1986

CONFIDENTIAL

Treating Pressure: Min. 1800 Max. 2400 Avg. 2000
Inj. Rate on Treating Fluid 13 Rate on Flush 14
Avg. Inj. Rate 13 I.S.D.P. 1300 Flush Dens. lb/gal 8.43
Final Shut-in Pressure _____ in _____ Minutes.
Operator's Maximum Pressure 2500

Customer Representative Paul Kesseler
Western Representative Deanna
Distribution

Job Number



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

September 28, 1982

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

McClellan Oil Corporation
Drawer 730
Roswell, New Mexico 88202

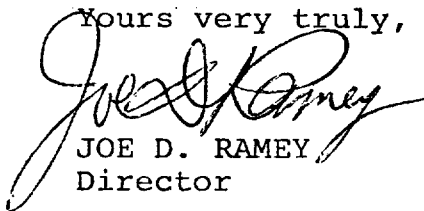
Attention: Mr. Paul Ragsdale

Gentlemen:

Before an increase in injection pressure can be granted to wells in the Sulimar Pool it will be necessary that you take a step rate test on Well No. 1-11 located in Unit L of Section 24. If the step rate test indicates that water can be injected at 1000 psi without fracturing, I will be happy to grant the injection pressure increase.

Please contact the Artesia office prior to taking the test.

Yours very truly,


JOE D. RAMEY
Director

JDR/fd

cc: L. A. Clements

