STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

September 27, 1990

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

McClellan Oil Corp.
P.O. Drawer 730
Roswell, NM 88202

Attention: Mitch Lee

RE: Injection Pressure Increase
Shell "15" Federal No. 3
Chaves County, New Mexico

Dear Mr. Lee:

Reference is made to your request dated August 24, 1990, to increase the surface injection pressure on the Shell "15" Federal Well No. 3. This request is based on a step rate test conducted on the well on August 20, 1990. The results of the test have been reviewed by my staff and we feel an increase in injection pressure on the well is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following well.

WELL AND LOCATION	MAXIMUM INJECTION SURFACE PRESSURE
Shell "15" Federal Well No. 3 Unit E, Section 15, T-15 South, R-29 East, Chaves County.	770 PSIG

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,

William J. LeMay
Director

cc: Oil Conservation Division - Artesia
File: SWD-384
R. Brown
D. Catanach

McClellan Oil Corporation

August 24, 1990

State of New Mexico
P.O. Box 2088
Santa Fe, NM 87504

Attn: William J. Lemay
Director

Re: Administrative Order #SWD-384
Shell 15 Federal 3
Section 15-T15S-R29E
1650' FNL & 660' FWL
API-30-005-62656
Chaves County, New Mexico

Dear Sir:

In reference to this well, injection pressure has reached 364 PSI surface.

On August 20, 1990, a step rate test was performed by John West Engineering. (See attached report on the test.) This test was witnessed by OCD representative, Johnny Robertson of Artesia.

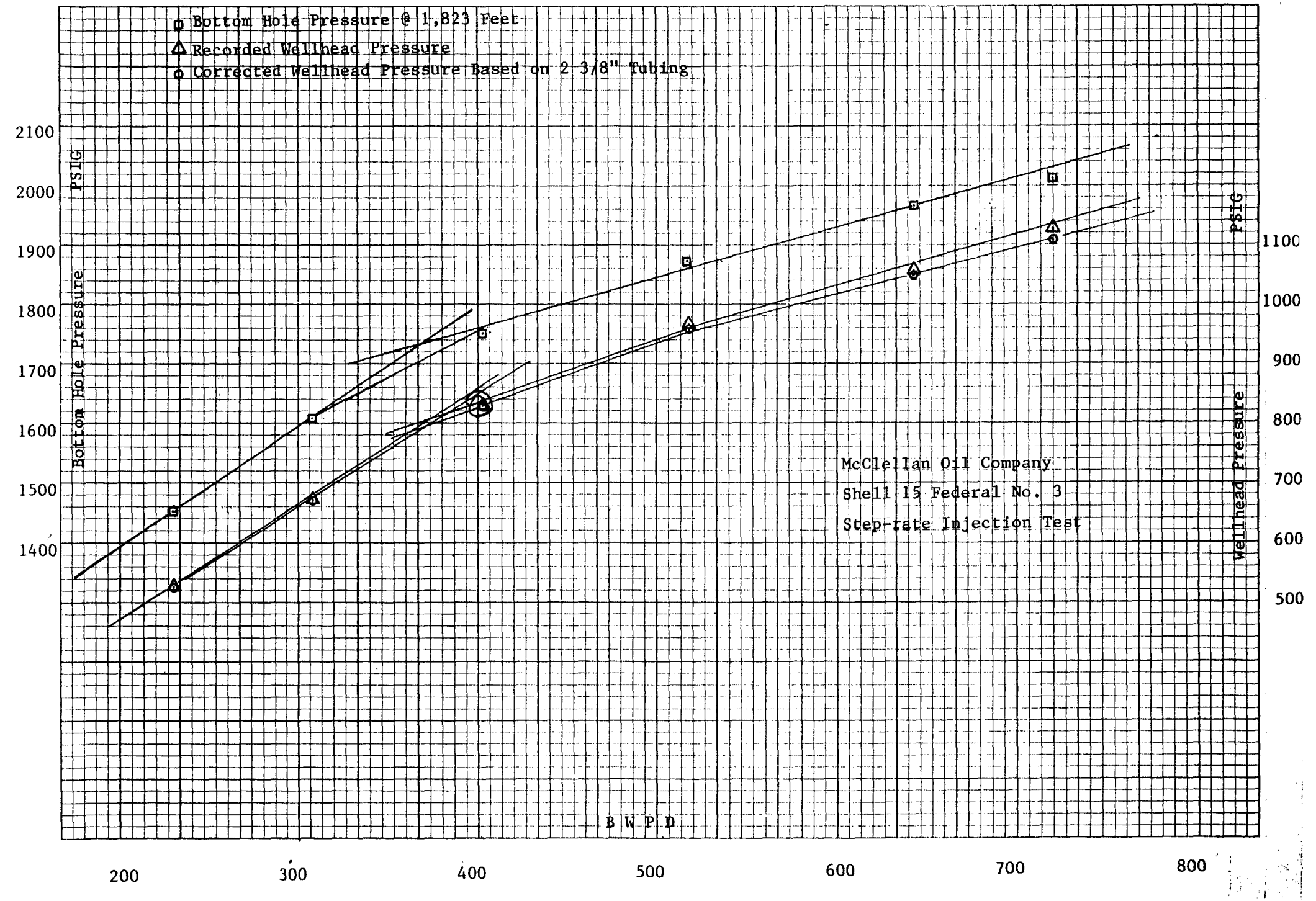
McClellan Oil Corporation would like to increase it's surface injection from 364 PSI to 780 PSI.

Thank you,

Mitch Lee
Drlg. & Comp. Eng.

ML/pt

Attachments


Bottom Hole Pressure @ 1,823 Feet
Recorded Wellhead Pressure
Corrected Wellhead Pressure Based on 2 3/8" Tubing
Bottom Hole Pressure PSIG
Wellhead Pressure PSIG
2100
2000
1900
1800
1700
1600
1500
1400
1100
1000
900
800
700
600
500
McClellan Oil Company
Shell 15 Federal No. 3
Step-rate Injection Test
B W P D
200
300
400
500
600
700
800

JOHN WEST ENGINEERING COMPANY

Step Rate Injection Test

Well Name Shell 15 Federal No. 3 Test Date 8/20/90

Company Name McClellan Oil Company

Remarks	Time	Tbg. Press.	Rate B P D	Total	B H P	Tbg. Press.	Rate G P M	Total
				BOMB SET @ 1,823'				
	8:50	179.0		0	1098.80			
	8:55	440.70	288.00	1.0	1351.30			
	9:00	494.30	201.60	1.7	1408.30			
Rate I	9:05	527.30	201.60	2.4	1451.90	526.3	6.72	1,041
			230.40					
	9:10	588.60	316.80	3.5	1528.70			
	9:15	652.40	288.00	4.5	1572.70			
Rate II	9:20	671.40	316.80	5.6	1606.00	669.6	8.96	1.772
			307.20					
	9:25	755.70	403.20	7.0	1680.80			
	9:30	782.40	403.20	8.4	1716.80			
	9:35	830.80	403.20	9.8	1752.20	827.9	11.76	2.930
			403.20					
	9:40	901.00	518.40	11.6	1816.10			
	9:45	921.50	518.40	13.4	1851.30			
Rate IV	9:50	963.60	518.40	15.2	1876.40	958.9	15.12	4.664
			518.40					
	9:55	1017.30	633.60	17.4	1924.30			
	10:00	1029.80	662.40	19.7	1948.70			
Rate V	10:05	1058.80	633.60	21.9	1965.40	1051.8	18.76	6.951
			643.20					
	10:10	1090.40	720.00	24.40	1991.00			
	10:15	1105.50	720.00	Meter stopped	2007.70			
Rate VI	10:20	1111.60	720.00	trash in meter	2014.30	1103.0	21.00	8.564
			720.00					

JOHN WEST ENGINEERING COMPANY

Step Rate Injection Test

Well Name Shell 15 Federal No. 3 Test Date 8/20/90

Company Name McClellan Oil Company

Remarks	Time	Tbg. Press.	Rate B P D	Total	B H P	Tbg. Press.	Rate G P M	Total
Fall-off	10:21	1044.90			1984.90			
	10:22	1023.10			1962.20			
	10:23	1003.90			1943.40			
	10:24	988.50			1927.70			
	10:25	975.70			1914.90			
	10:26	964.10			1904.30			
	10:27	952.60			1892.70			
	10:28	942.30			1883.00			
	10:29	932.00			1873.20			
	10:30	922.90			1864.70			
	10:31	913.90			1854.80			
	10:32	904.90			1847.30			
	10:33	897.20			1838.60			
	10:34	889.50			1830.90			
	10:35	881.80			1823.10			