

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

January 8, 1991

POST OFFICE BOX 2086
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210

Attention: Jim Brown

RE: Injection Pressure Increase
Pathfinder "AFT" Well No. 7
Eddy County, New Mexico

Dear Mr. Brown:

Reference is made to your request dated December 17, 1990, to increase the surface injection pressure on the Pathfinder "AFT" Well No. 7. This request is based on a step rate test conducted on the well on December 16, 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

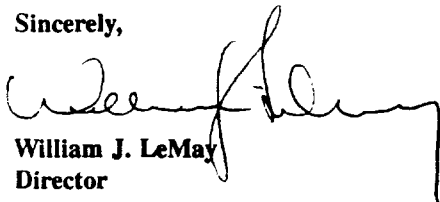
MAXIMUM INJECTION
SURFACE PRESSURE

Pathfinder "AFT" Well No. 7
Unit F, Section 21, T-10 South,
R-27 East, NMPM, Eddy County,
New Mexico.

1600 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
D. Catanach
R. Brown
File: SWD-394

1600 pax

TO: David Comstock

FROM: Jim Brown

PHONE: 827-5741

180 M.P.H.



YATES
PETROLEUM
CORPORATION

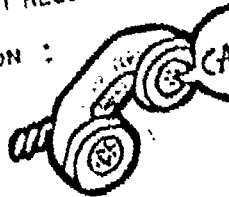
DATE: 12-17-90

NUMBER OF PAGES: 5
(INCLUDING COVER)

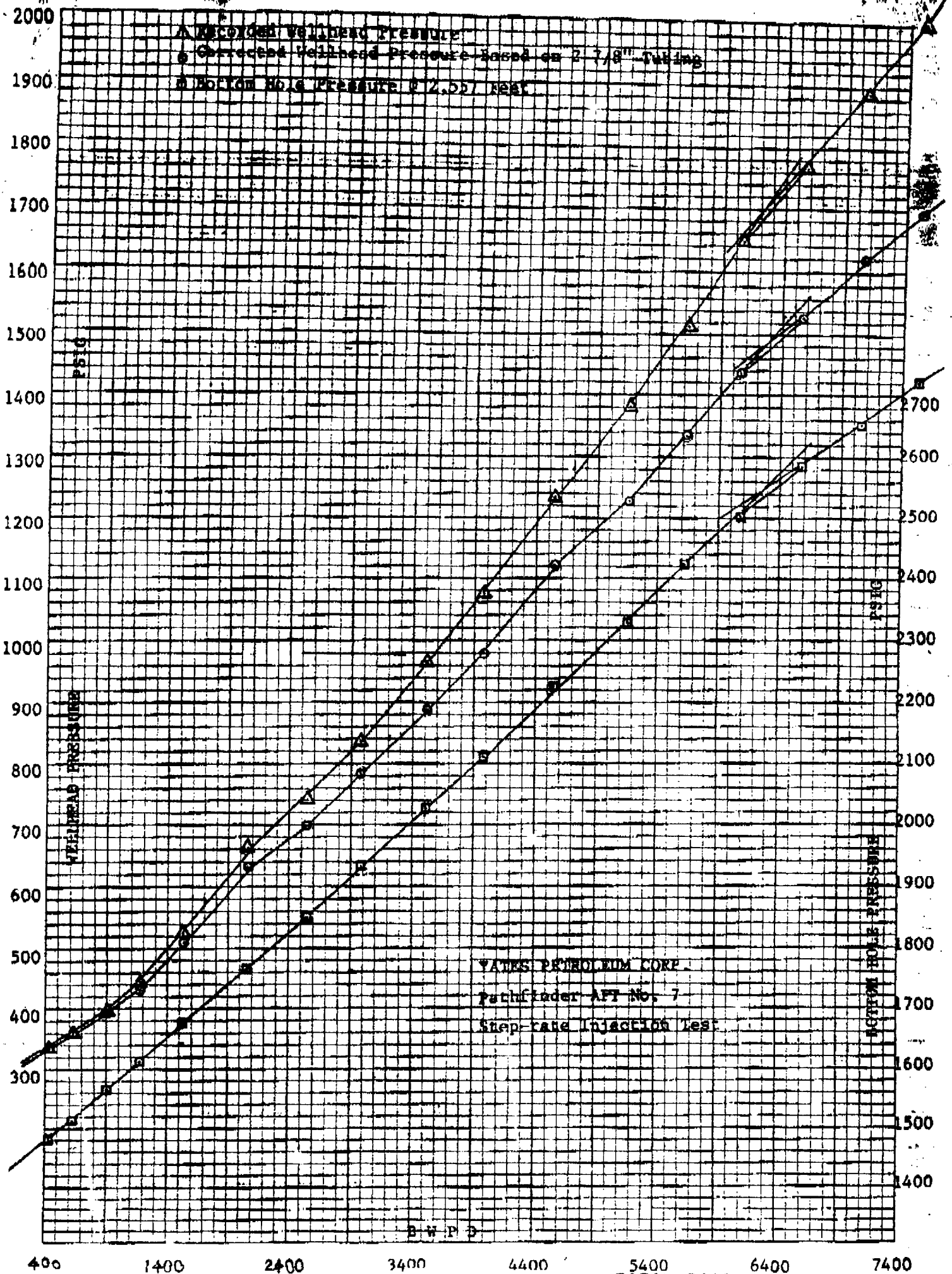
YATES FAX NUMBER:

(505) 746-6480

IF YOU DO NOT RECEIVE ALL OF THE
TRANSMISSION :



(505) 748-1471 EXT. 157



067 P05 DEC 17 '90 11:51

JOHN WEST ENGINEERING COMPANY

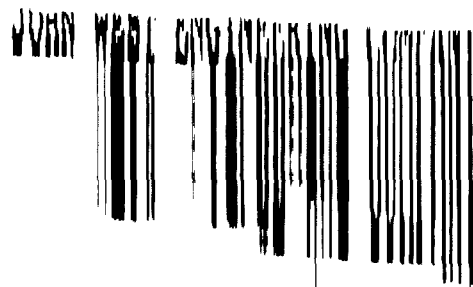
Well Name Pathfinder APT #9

Test Date 12/16/90

Company Name Yates Petroleum Corp.

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Step Rate Injection Test

Well Name Pathfinder AFT #7

Test Date 12/16/90

Company Name Yates Petroleum Corp.

Remarks	Time	Tbg. Press.	Rate B P D	Total	B H P	Tbg. Press.	Rate G P M	Total
				BOMB SET @ 2557'				
	9:05	271.2		0	1436.00			
	9:10	295.5	374.40	1.3	1462.00			
	9:15	312.10	432.00	2.8	1472.00			
Rate I	9:20	335.10	432.00	4.3	1480.00	333.7	12.04	1.416
			412.80					
	9:25	335.00	604.80	6.4	1500.00			
	9:30	378.5	633.60	8.6	1508.00			
Rate II	9:35	359.3	604.80	10.7	1516.00	356.3	17.92	2.954
			614.40					
	9:40	383.50	921.60	13.9	1542.00			
	9:45	382.20	892.80	17.0	1553.00			
Rate III	9:50	397.5	892.80	20.1	1563.00	391.5	26.32	6.016
			902.40					
	9:55	442.20	1209.6	24.3	1592.00			
	10:00	438.40	1209.6	28.5	1605.00			
Rate IV	10:05	440.90	1152.00	32.5	1616.00	430.9	34.72	10.042
			1190.40					
	10:10	543.20	1526.4	37.8	1650.00			
	10:15	518.90	1526.4	43.1	1666.00			
Rate V	10:20	525.30	1526.40	48.4	1671.00	509.4	44.52	15.907
			1526.40					
	10:25	598.10	2044.80	55.5	1730.00			
	10:30	641.60	2073.60	62.7	1749.00			
Rate VI	10:35	660.80	2044.80	69.8	1766.00	633.2	59.92	27.560
			2054.40					
	10:40	705.5	2563.20	78.7	1813.00			
	10:45	731.00	2563.20	87.6	1834.00			
	10:50	730.00	2526.40	96.4	1852.00	698.7	74.48	41.312

Step Rate Injection Test

Well Name Pathfinder AFT #7
Company Name Yates Petroleum Corp.

Test Date 12/16/90

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Remarks	Time	Tbg. Press.	Rate B P D	Total	B H P	Tbg. Press.	Rate G P M	Total
	11:10	903.40	3513.60	139.80	1981.00			
	11:15	927.70	3513.60	152.00	2004.00			
Rate IX	11:20	962.10	3484.80	164.10	2024.00	888.1	102.20	74.003
			3503.99					
	11:25	1033.70	4003.20	178.00	2069.00			
	11:30	1055.40	4003.20	191.90	2093.00			
Rate X	11:35	1074.60	3974.40	205.7	2113.00	980.3	116.48	94.260
			3993.59 Changed to 2" meter					
	11:40	1188.50	4089.60	14.2	2174.00			
	11:45	1215.40	4572.20	30.1	2202.00			
Rate XI	11:50	1233.30	4521.60	45.8	2227.00	1120.7	128.24	112.618
			4396.80					
	11:55	1339.50	5212.80	63.9	2280.00			
	12:00	1359.90	5155.20	81.8	2307.00			
Rate XII	12:05	1380.30	5155.20	99.7	2330.00	1228.1	150.92	152.211
			5174.40					
	12:10	1476.20	5644.80	119.30	2376.00			
	12:15	1492.80	5616.00	138.80	2402.00			
Rate XIII	12:20	1514.50	5587.20	158.2	2422.00	1337.4	163.80	177.111
			5616.00					
	12:25	1597.70	6076.80	179.30	2460.00			
	12:30	1625.80	6076.80	200.40	2484.00			
Rate XIV	12:35	1643.70	6105.60	221.6	2503.00	1438.2	177.52	205.528
			6086.40					
	12:40	1733.30	6652.80	244.70	2546.00			
	12:45	1755.00	6537.60	267.40	2566.00			
Rate XV	12:50	1767.70	6595.20	290.30	2583.00	1529.3	192.36	238.439
			6595.20					
	12:55	1856.00	7171.20	315.20	2619.00			
	1:00	1876.50	6998.40	339.50	2638.00			
Rate XVI	1:05	1891.7	7056.00	364.00	2654.00	1620.2	206.36	271.532
			7075.19					