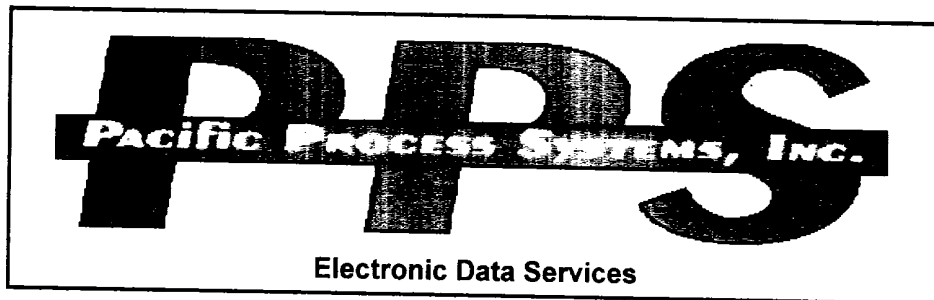




Hobbs, NM

(505) 392-8813

Step Rate Injection Test Report

for

Phillips Petroleum Co.

Leamex #61 W

Sec24-T17S-R33E

C - 25 11/06/01

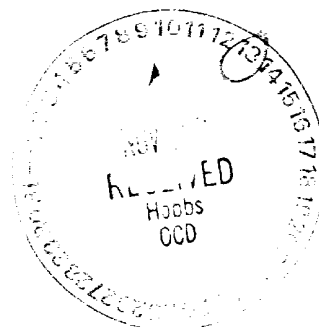
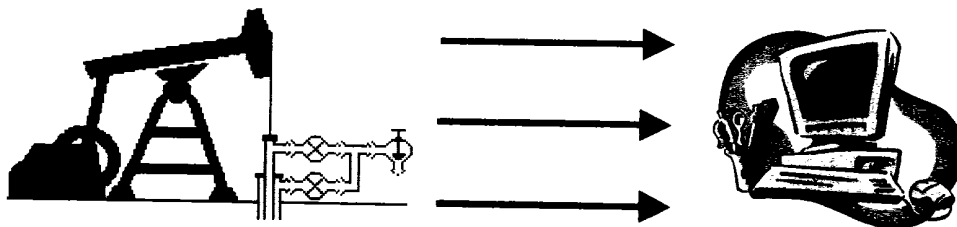


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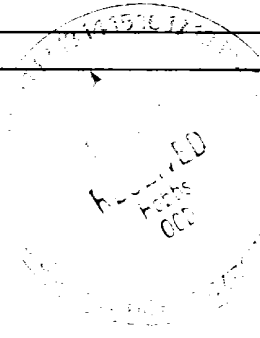


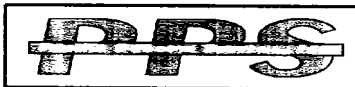


COMPANY : Phillips Petroleum Co.
WELL: Leamex #61 W
COMPANY REP: Jack Lowder
PERFORATIONS: N/A

SERVICE DATES : 11/06/01
TEST TYPE : Step Rate
PPS TECHNICIANS : Ginanni / Brown
BHP GAUGE DEPTH: N/A

11/06/01	8:20	Started pumping @ 450 BPD
11/06/01	8:25	
11/06/01	8:30	
11/06/01	8:35	
11/06/01	8:40	
11/06/01	8:45	
11/06/01	8:50	Increased to 750 BPD
11/06/01	8:55	
11/06/01	9:00	
11/06/01	9:05	
11/06/01	9:10	
11/06/01	9:15	
11/06/01	9:20	Increased to 1050 BPD
11/06/01	9:25	
11/06/01	9:30	
11/06/01	9:35	
11/06/01	9:40	
11/06/01	9:45	
11/06/01	9:50	Increased to 1350 BPD
11/06/01	9:55	
11/06/01	10:00	
11/06/01	10:05	
11/06/01	10:10	
11/06/01	10:15	
11/06/01	10:20	Increased to 1650 BPD
11/06/01	10:25	
11/06/01	10:30	
11/06/01	10:35	
11/06/01	10:40	
11/06/01	10:45	

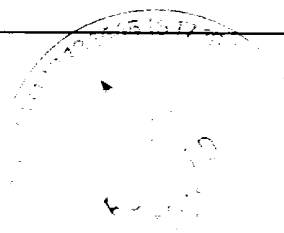




COMPANY : Phillips Petroleum Co.
WELL: Leamex #61 W
COMPANY REP: Jack Lowder
PERFORATIONS: N/A

SERVICE DATES : 11/06/01
TEST TYPE : Step Rate
PPS TECHNICIANS : Ginanni / Brown
BHP GAUGE DEPTH: N/A

11/06/01	10:50	Increased to 1950 BPD
11/06/01	10:55	
11/06/01	11:00	
11/06/01	11:05	
11/06/01	11:10	
11/06/01	11:15	
11/06/01	11:20	Increased to 2250 BPD
11/06/01	11:25	
11/06/01	11:30	
11/06/01	11:35	
11/06/01	11:40	
11/06/01	11:45	
11/06/01	11:50	Increased to 2550 BPD
11/06/01	11:55	
11/06/01	12:00	
11/06/01	12:05	
11/06/01	12:10	
11/06/01	12:15	
		Increased to 2850 BPD
11/06/01	12:25	
11/06/01	12:30	
11/06/01	12:35	
11/06/01	12:40	
11/06/01	12:45	
11/06/01	12:50	Increased to 3150 BPD
11/06/01	12:55	
11/06/01	13:00	
11/06/01	13:05	
11/06/01	13:10	
11/06/01	13:15	





COMPANY : Phillips Petroleum Co.
WELL: Leamex #61 W
COMPANY REP: Jack Lowder
PERFORATIONS: N/A

SERVICE DATES : 11/06/01
TEST TYPE : Step Rate
PPS TECHNICIANS : Ginanni / Brown
BHP GAUGE DEPTH: N/A

11/06/01	13:20	Ceased pumping, started falloff
11/06/01	13:21	
11/06/01	13:22	
11/06/01	13:23	
11/06/01	13:24	
11/06/01	13:25	
11/06/01	13:30	
11/06/01	13:35	End of test.



COMPANY : Phillips Petroleum Co.

WELL: Leamex #61 W

COMPANY REP: Jack Lowder

PERFORATIONS: N/A

SERVICE DATES : 11/06/01

TEST TYPE : Step Rate

PPS TECHNICIANS : Ginanni / Brown

BHP GAUGE DEPTH: N/A

	8:20	1682.8				
	8:25	1674.1	1.7	493.3	14.39	
	8:30	1696.2	3.4	489.6	14.28	
	8:35	1670.2	5.1	487.7	14.22	
	8:40	1684.3	6.8	489.8	14.29	
	8:45	1669.7	8.5	492.2	14.36	
1	8:50	1742.6	11.1	739.0	21.55	
	8:55	1734.3	13.8	769.9	22.46	
	9:00	1703.7	16.4	763.6	22.27	
	9:05	1728.8	19.0	749.3	21.85	
	9:10	1687.4	21.6	742.1	21.64	
	9:15	1750.1	24.2	751.1	21.91	
2	9:20	1727.9	27.7	1018.5	29.71	
	9:25	1717.5	31.4	1064.8	31.06	
	9:30	1746.0	35.1	1048.2	30.57	
	9:35	1743.1	38.6	1017.0	29.66	
	9:40	1811.1	42.3	1060.8	30.94	
	9:45	1802.9	45.8	1026.9	29.95	
3	9:50	1778.5	50.4	1305.2	38.07	
	9:55	1778.6	55.0	1339.0	39.05	
	10:00	1861.1	59.7	1344.7	39.22	
	10:05	1806.6	64.3	1339.4	39.07	
	10:10	1805.1	69.0	1344.7	39.22	
	10:15	1899.3	73.7	1346.6	39.28	
4	10:20	1864.8	79.3	1622.9	47.34	
	10:25	1859.1	85.2	1679.0	48.97	
	10:30	1929.3	91.0	1682.1	49.06	
	10:35	1902.5	96.9	1695.1	49.44	
	10:40	1875.2	102.8	1691.4	49.33	
	10:45	1914.8	108.6	1695.5	49.45	



COMPANY : Phillips Petroleum Co.

WELL: Leamex #61 W

COMPANY REP: Jack Lowder

PERFORATIONS: N/A

SERVICE DATES : 11/06/01

TEST TYPE : Step Rate

PPS TECHNICIANS : Ginanni / Brown

BHP GAUGE DEPTH: N/A

5	10:50	1950.5	115.4	1957.7	57.10
	10:55	2004.5	122.3	1977.5	57.68
	11:00	2002.5	129.2	1986.2	57.93
	11:05	1954.3	136.1	1981.9	57.81
	11:10	1966.5	143.0	1986.0	57.93
	11:15	1999.6	149.9	1985.7	57.92
6	11:20	2014.7	157.4	2178.5	63.54
	11:25	2061.2	165.1	2203.7	64.27
	11:30	2016.8	172.8	2214.0	64.57
	11:35	2084.1	180.4	2208.2	64.41
	11:40	2023.1	188.1	2215.8	64.63
	11:45	2100.1	195.8	2210.4	64.47
7	11:50	2107.5	204.4	2480.7	72.35
	11:55	2138.1	213.2	2531.8	73.84
	12:00	2081.2	222.0	2532.8	73.87
	12:05	2095.8	230.8	2528.6	73.75
	12:10	2154.2	239.6	2529.3	73.77
	12:15	2096.0	248.4	2533.6	73.90
8	12:20	2181.8	257.5	2637.8	76.94
	12:25	2179.3	267.0	2731.0	79.65
	12:30	2183.8	276.8	2827.8	82.48
	12:35	2164.2	286.7	2829.3	82.52
	12:40	2159.2	296.5	2832.5	82.62
	12:45	2170.7	306.3	2832.4	82.61
9	12:50	2213.3	316.4	2898.7	84.54
	12:55	2233.9	327.5	3191.6	93.09
	13:00	2230.0	338.6	3209.3	93.61
	13:05	2228.0	349.8	3210.7	93.65
	13:10	2236.4	360.9	3212.7	93.70
	13:15	2228.0	372.1	3206.3	93.52



COMPANY : Phillips Petroleum Co.

WELL: Leamex #61 W

COMPANY REP: Jack Lowder

PERFORATIONS: N/A

SERVICE DATES : 11/06/01

TEST TYPE : Step Rate

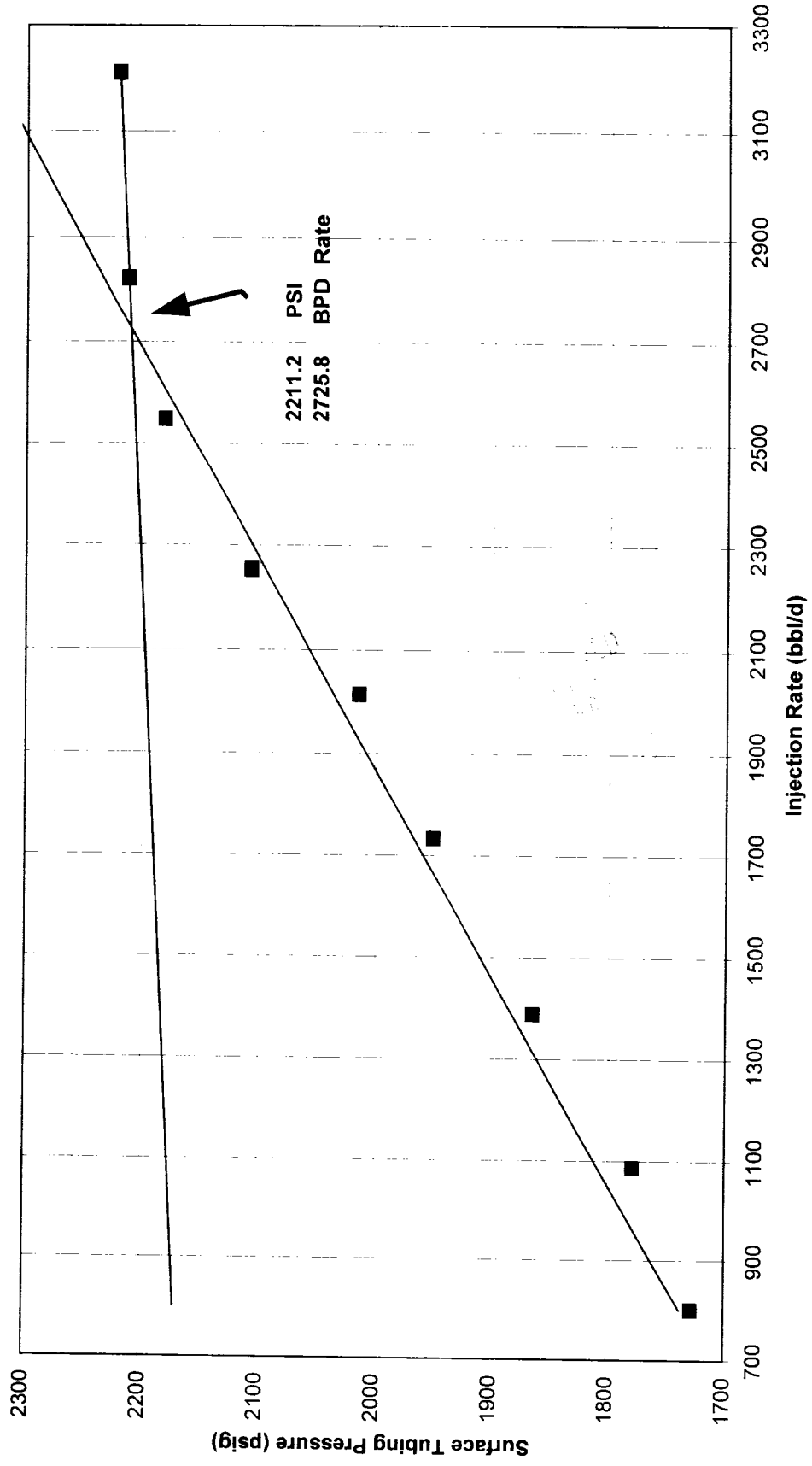
PPS TECHNICIANS : Ginanni / Brown

BHP GAUGE DEPTH: N/A

Falloff	13:20	2221.3	383.2	3217.0	93.83	
	13:21	1943.7				
	13:22	1911.0				
	13:23	1902.0				
	13:24	1894.4				
	13:25	1887.3				
	13:30	1857.0				
	13:35	1832.9				

Pacific Process Systems, Inc.

Step Rate Injection Test



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