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



BRUCE KING
GOVERNOR

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

October 6, 1992

Mr. Frank Chavez
NMOCD
1000 Rio Brazos Road
Aztec, New Mexico 87401

RECEIVED
OCT 09 1992
OIL CON. DIV.
DIST. 3

Dear Frank:

Enclosed for your review are the calculations regarding a maximum surface injection pressure on the Phillips Petroleum Company San Juan 32-8 Well No. 303. Injection at a surface pressure of 2750 psi will result in a bottomhole pressure of 4757 psi, which is well below the bottomhole fracture pressure as calculated from initial fracture treatments on the subject well.

Both Larry and I agree with the calculations and therefore recommend the assignment of 2750 psi to the subject well. If you have any questions, please give us a call.

Sincerely,

David Catanach
David Catanach

xc: William J. LeMay

Phillips Pt. Co. San Juan 32-8 No. 303

Bottomhole Fracture Pressure from Fracture Treatment:

Entrada: ISIP = 1884 psi

$P_h @ 9142' = 3958 \text{ psi}$ $P_{bhf} = 5842 \text{ psi}$

Bluff: ISIP = 1900 psi

$P_h @ 8895' = 3851 \text{ psi}$ $P_{bhf} = 5751 \text{ psi}$

Morrison: ISIP = 2360 psi

$P_h @ 8646' = 3744 \text{ psi}$ $P_{bhf} = 6094 \text{ psi}$

Requested surface pressure = 2750 psi

Resulting bottomhole pressure from step rate test = 4757 psi

Rate = 7.0 Barrels per minute.

$$P_{bh} = P_s + P_{hy} - P_f$$

$$4757 \text{ psi} = 2750 \text{ psi} + 3684^* \text{ psi} - P_f$$

$$\underline{P_f = 1677 \text{ psi}}$$

* Hydraulic Pressure
Based on bomb depth of
8510'

Friction loss corresponds very well to
Halliburton friction loss for
2 7/8" non-lined tubing. (See graph)

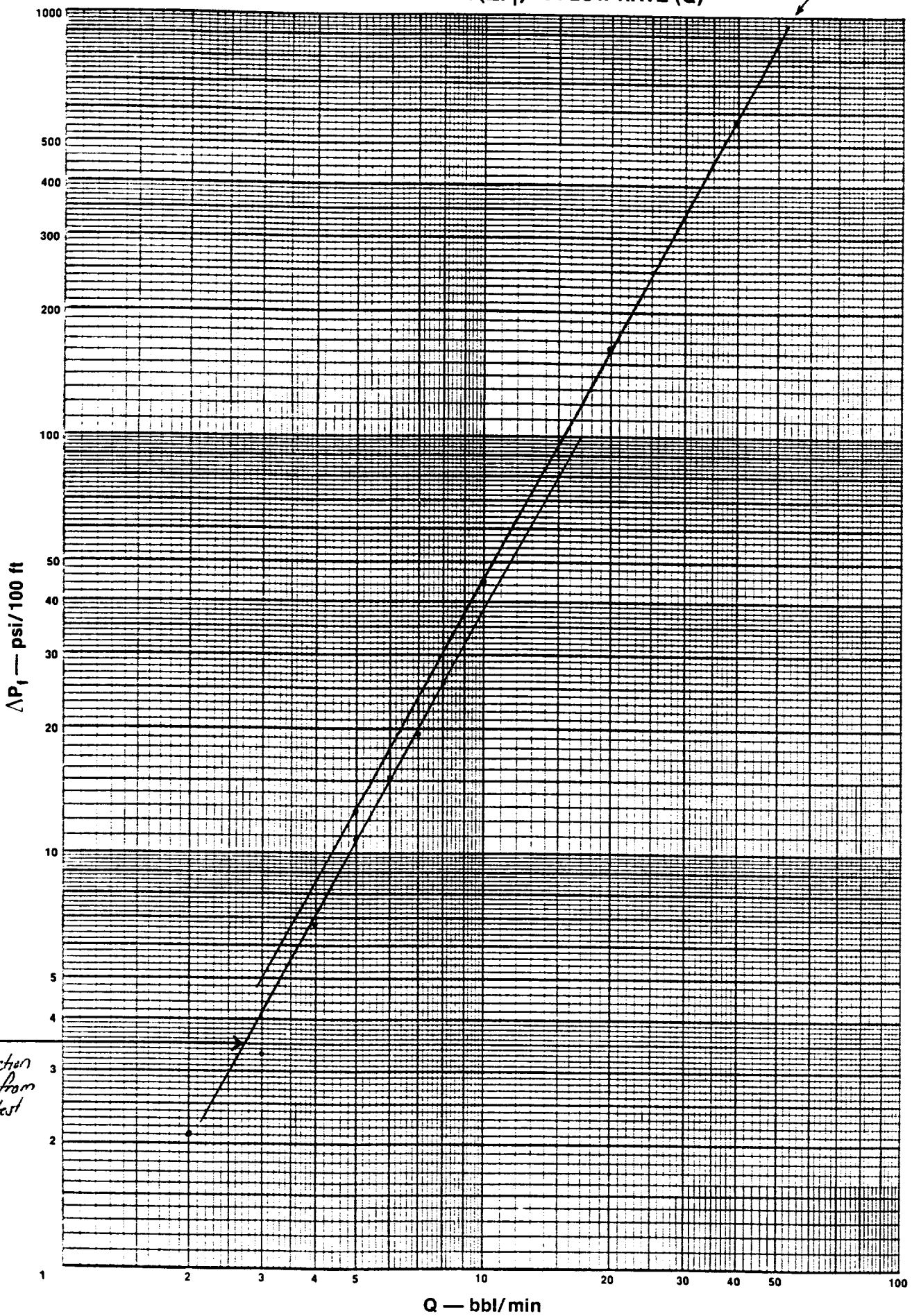
Conclusion:

Injection at a rate of 7.0 BPM @ 2750 psi surface pressure
will result in a bottomhole pressure of 4757 psi which
is 994 psi below the lowest bottomhole fracture pressure as
determined from fracture treatment.

FRICION PRESSURE (ΔP_f) vs FLOW RATE (Q)

2 7/8" non-lined tubing
from Halliburton.

Fig. 12



Actual friction
loss line from
step rate test
data.



Phillips Petroleum

SJ32-8 #303 SWD

Fracturing Services *Entrada*

Prepared for : Mike Larimer

San Juan Basin
Entrada Formation

1884 ICID

San Juan County
New Mexico

DS Service Point : Farmington, New Mexico
505-325-5096

Prepared by: Patrick Graham
August 31, 1992

Disclaimer Notice

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WELL TREATMENT REPORT



DS-494-A PRINTED IN U.S.A.

DOWELL SCHLUMBERGER INCORPORATED

DATE

WELL NAME AND NUMBER <i>ST 22-5 #300 SAND</i>		LOCATION (LEGAL) <i>SEC 14 T31N R34W</i>		DS LOCATION <i>Farmington</i>		TREATMENT NUMBER <i>1506-4176</i>	
POOL/FIELD <i>El Anaco P1 Area</i>		FORMATION <i>Entrada</i>		BOTTOM HOLE TEMPERATURE <i>78.25</i>		AGE OF WELL NEW ☒ REWORK ☐	
COUNTY/PARISH <i>SAN JUAN</i>		STATE <i>New Mexico</i>		ALLOWABLE PRESSURE TBG <i>—</i> CSG: <i>6000</i>		PERFORATED INTERVALS	
TYPE OF SERVICE ☐ MATRIX TREATMENT ☐ SAND CONTROL ☒ FRACTURING ☐ OTHER		PRIMARY TREATING FLUID <i>WF-140 + YF-140 ID</i>		CASING SIZE WT DEPTH <i>5 1/2 17 78.25</i>		TOP TO BOTTOM NO OF HOLES <i>4074 TO 4210 174'</i>	
OPERATOR NAME <i>Phillips</i>				TUBING SIZE WT DEPTH <i>4 1/2 14.6 1510</i>			
SERVICE INSTRUCTIONS <i>FR3 Entrada Formation @ 906 BPM</i>				PACKER TYPE PACKER DEPTH <i>— —</i>			
				TUBING VOLUME ANNULAR VOL <i>— —</i>			
				OPEN HOLE CASING VOL <i>— 201</i>		PERF. DIAMETER- <i>3.5 IN.</i>	
				DISPLACEMENT <i>196</i>		PERFORATED INTERVAL TOTAL- <i>196 FT.</i>	
ARRIVED ON LOCATION: <i>0630</i>		LEFT LOCATION: <i>1400</i>		C TBG ☐ TUBING ☐ JOB DONE DOWN CASING ☒ ANNULUS ☐ BOTH ☐			

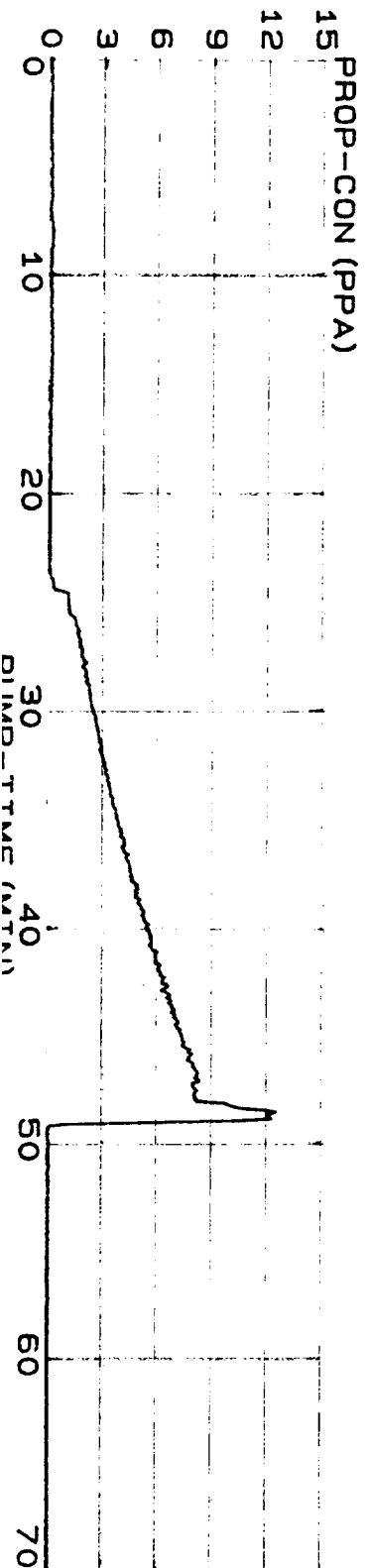
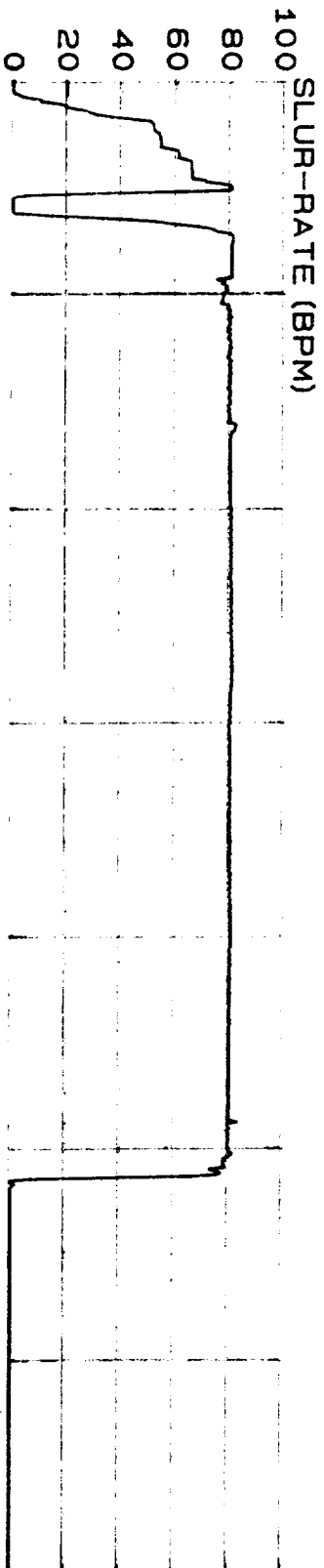
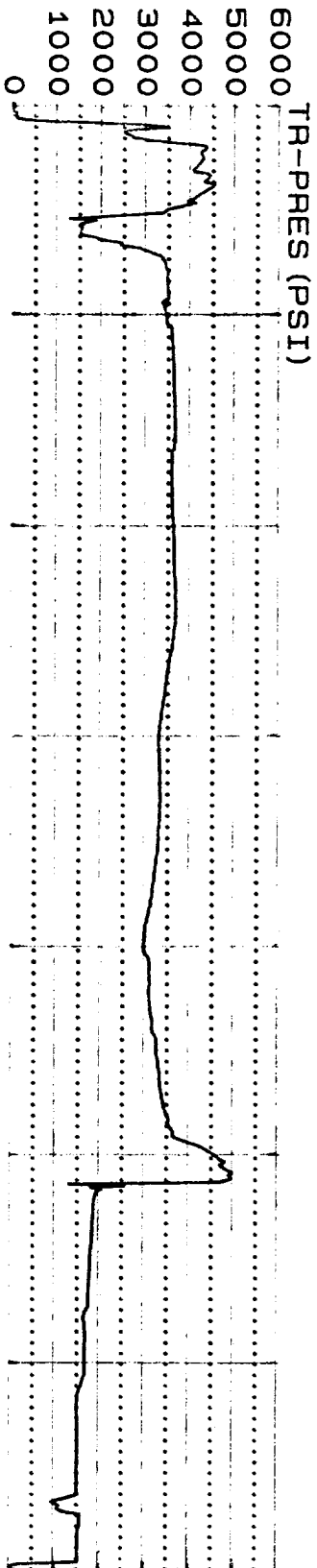
TIME (0001 to 2400)	INJECTION RECORD							PRESSURE		NOTATIONS
	TYPE OF FLUID	RATE BPM	CO ₂ - N ₂ RATE	INCREMENT VOL. BBLs	CUM. VOL. BBLs	PROP TYPE	PROP #GAL	CSG	TBG	
0945	WF-140									Pre-Job Safety Meeting
0929										Pressure Test To <i>6500</i> psi
0923										Press Test (Choke manifold)
										To 5000 psi
0929										set pump at 6800 psi
1001	WF-140	80		245				511		Start pre pad injection
1006	WF-140	0			245			1628		Shut down ISEP <i>3590</i>
1006	YF-140	41		54				2044		Restart pad
1017	"	80		1327	209			3367		Plumps To Full Rate
1024	"	80		302	1626	<i>2nd stage</i>	1	3619		Start 1 st sand Ramped
1027	"	80		329	1928	"	2	3445		Start 2 nd sand Ramped
1032	"	80		305	2257	"	3	3317		Start 3 rd sand Ramped
1035	"	80		258	2562	"	4	3262		Start 4 th sand Ramped
1039	"	80		212	2820	"	5	3033		Start 5 th sand Ramped
1041	"	80		200	3022	"	6	3092		Start 6 th sand Ramped
1044	"	80		201	3232	"	7	3147		Start 7 th sand Ramped
1046	"	80		157	3433	"	8	3321		Start 8 th sand Ramped
1048	"	80		45	3590	"	12	3523		Start 12 th sand (W/L)
1049	WF-140	80		195	3635			3610		Out sand start Flush
1051	"	80			3830					
1056										
1101										

FLUID		NITROGEN		BPM AVERAGE INJECTION RATES CARBON DIOXIDE		TOTAL W/PROP		WATER/ACID		OIL		VOLUME FLUID INJECTED NITROGEN		CARBON DIOXIDE	
								BBLs		BBLs		CCF		TONS	
MAXIMUM		FINAL		TREATING PRESSURE SUMMARY AVERAGE		IMMED. S.D.P.		15 MIN S.I.P.		TOTAL INJECTED		QUANTITY PROPPANT PLACED TOTAL ORDERED/DESIGNED		LBS	
<i>4060</i>		<i>4807</i>				<i>1925</i>		<i>118/10</i>		<i>305,269</i>		<i>700,000</i>		<i>700,000</i>	
PRODUCTION PRIOR TO THIS TREATMENT															
☐ Test ☐ Stabilized															
CUSTOMER REPRESENTATIVE <i>Mike Lamm</i>								DS SERVICE SUPERVISOR <i>Jason M. Lewis</i>							
FRACTURE GRADIENT <i>.6</i>								PAD VOLUME <i>69,000</i> GALS % PAD <i>47</i>							
PAGE <i>1</i> OF <i>1</i> PAGES															



PPR TREATMENT REPORT
28 Aug 92

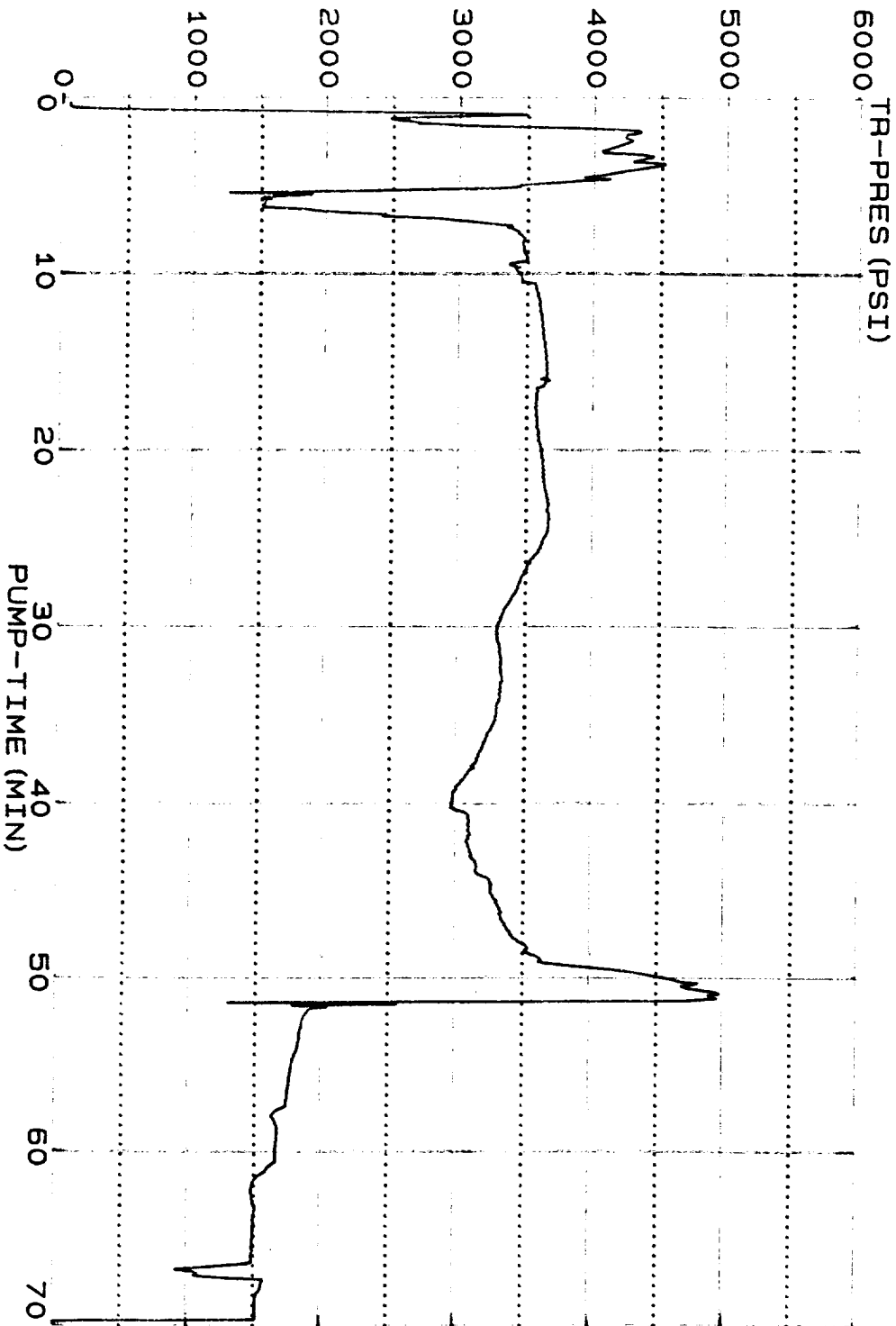
PHILLIPS PETROLEUM
SU32-B 303 SWD
1ST STAGE





PPR TREATMENT REPORT
28 Aug 92

PHILLIPS PETROLEUM
SUS2-B 303 SWD
1ST STAGE



D O W E L L S C H L U M B E R G E R

CUSTOMER:	PHILLIPS PETROLEUM	DISTRICT:	1ST STAGE
REPRESENTATIVE:	TERRY JOHNSON	DS SUPERVISOR:	ROGER W. LEWIS
CELL:	SJ32-8 303 SWD	DATE:	28 Aug 92

TREATMENT LOG

TIME HH:MM:SS	PUMP-TIM MIN	TR-PRES PSI	NET-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb
10:11:04	0.80	735	-4944	6.96	0.9	0.1	0
10:11:19	1.05	3481	-4944	16.49	3.7	0.0	0
10:11:34	1.30	2474	-4944	22.61	8.6	0.0	0
10:11:49	1.55	2685	-4944	30.33	15.4	0.1	0
10:12:04	1.80	3568	-4944	44.22	24.6	0.0	0
10:12:19	2.05	4347	-4944	51.71	37.1	0.0	0
10:12:34	2.30	4223	-4944	51.91	50.0	0.0	0
10:12:49	2.55	4278	-4944	53.92	63.2	0.0	0
10:13:04	2.80	4186	-4944	54.24	76.8	0.0	0
10:13:19	3.05	4081	2266	54.44	90.4	0.0	0
10:13:34	3.30	4342	2203	60.59	104.5	0.0	0
10:13:49	3.55	4379	2431	61.04	119.7	0.0	0
10:14:04	3.80	4511	2318	65.28	135.3	0.0	0
10:14:19	4.05	4397	2349	65.56	151.6	0.0	0
10:14:34	4.30	4191	2210	65.76	168.1	0.0	0
10:14:49	4.55	4017	1965	65.89	184.5	0.1	0
10:15:04	4.80	3921	1819	71.06	201.6	0.1	0
10:15:19	5.05	3440	1015	80.56	221.2	0.1	0
10:15:33	NEW STAGE						
10:15:51	5.58	1884	203	0.00	244.9	0.1	0
10:16:06	5.83	1582	687	0.00	244.9	0.0	0
10:16:23	6.12	1518	596	0.00	244.9	0.1	0
10:16:40	6.40	1856	634	14.20	245.8	0.1	0
10:16:55	6.65	2442	499	49.62	254.4	0.0	0
10:17:10	6.90	2850	510	66.42	269.1	0.0	0
10:17:25	7.15	3166	703	75.72	287.2	0.0	0
10:17:40	7.40	3344	850	81.08	307.2	0.1	0
10:17:55	7.65	3431	861	80.96	327.4	0.1	0
10:18:10	7.90	3454	904	80.56	347.6	0.1	0
10:18:25	8.15	3472	915	80.56	367.7	0.1	0
10:18:40	8.40	3463	873	80.35	387.9	0.1	0
10:18:55	8.65	3468	865	80.48	408.0	0.1	0
10:19:10	8.90	3477	830	80.42	428.1	0.0	0
10:19:25	9.15	3491	838	80.56	448.2	0.0	0
10:19:40	9.40	3399	838	74.95	468.3	0.1	0

TREATMENT LOG

TIME H:MM:SS	PUMP-TIM MIN	TR-PRES PSI	NET-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-COL PP	TOT-PROP
0:09:55	9.65	3440	834	78.33	487.7		
0:10:10	9.90	3427	796	78.72	507.3		
0:10:25	10.15	3454	846	77.27	526.7		
0:10:40	10.40	3459	864	76.66	545.9		
0:10:55	10.65	3559	852	79.44	565.4		
0:11:10	10.90	3564	933	79.69	585.4		
0:11:25	11.15	3578	936	80.58	605.3		
0:11:40	11.40	3582	939	80.00	625.2		
0:11:55	11.65	3591	938	79.08	645.0		
0:12:10	11.90	3596	955	79.77	664.9		
0:12:25	12.15	ORL 3591	D.D. 955	79.13	684.9		
0:12:40	12.40	PIA 3605	PAN 958	80.06	704.8		
0:12:55	12.65	3605	960	79.77	724.8		
0:13:10	12.90	3610	967	79.45	744.8		
0:13:25	13.15	3619	969	80.49	764.8		
0:13:41	13.40	3614	974	80.41	784.7		
0:13:56	13.65	3619	980	80.12	804.7		
0:14:11	13.90	3628	975	80.13	824.7		
0:14:26	14.15	3628	983	79.68	844.6		
0:14:41	14.40	3633	1005	78.99	864.6		
0:14:56	14.65	3642	1005	79.90	884.5		
0:15:13	14.93	3642	997	79.90	907.2		
0:15:31	15.23	3642	997	79.22	931.1		
0:15:46	15.48	3642	1006	79.22	951.0		
0:16:01	15.73	3646	1014	79.68	970.9		
0:16:16	15.98	3600	993	79.00	990.8		
0:16:31	16.23	3633	939	81.85	1011.3		
0:16:46	16.48	3573	949	80.53	1031.7		
0:17:01	16.73	3573	926	80.21	1051.7		
0:17:16	16.98	3568	920	80.00	1071.8		
0:17:31	17.23	3564	926	80.00	1091.7		
0:17:46	17.48	3568	917	79.89	1111.7		
0:18:01	17.73	3564	910	79.77	1131.7		
0:18:16	17.98	3564	922	80.00	1151.7		
0:18:31	18.23	3578	924	80.13	1171.7		
0:18:46	18.48	3573	919	80.26	1191.7		
0:19:01	18.73	3568	928	79.90	1211.7		
0:19:16	18.98	3582	929	79.90	1231.8		
0:19:31	19.23	3587	933	80.26	1251.8		
0:19:46	19.48	3582	943	80.13	1271.8		
0:20:01	19.73	3600	950	80.21	1291.8		
0:20:16	19.98	3610	947	80.13	1311.9		
0:20:31	20.23	3614	953	80.57	1332.0		

BY]

TREATMENT LOG

TIME HH:MM:SS	PUMP-TIM MIN	TR-PRES PSI	NET-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb
10:20:46	20.48	3614	953	80.57	1352.1	0.0	3320
10:21:01	20.73	3614	962	80.57	1372.2	0.0	400
10:21:16	20.98	3619	966	80.57	1392.4	0.0	400
10:21:31	21.23	3619	971	80.34	1412.5	0.0	4520
10:21:46	21.48	3623	971	80.34	1432.6	0.0	4730
10:22:01	21.73	3628	971	80.57	1452.8	0.0	400
10:22:16	21.98	3633	975	80.57	1472.9	0.0	0
10:22:31	22.23	3637	980	80.57	1493.0	0.0	0
10:22:46	22.48	3646	985	80.34	1513.1	0.0	0
10:23:01	22.73	3651	989	80.34	1533.3	0.0	500
10:23:07	START RECORDING POD DATA1			80.13	2386.0	3.3	55807
10:23:22	START PUMPING PROPPANT096			80.13	2406.0	3.3	61234
10:23:39	23.35	3660	994	80.34	1582.9	0.0	-1
10:23:59	23.68	3665	998	80.34	1609.8	0.0	6612
10:24:19	24.02	3665	1005	80.47	1636.6	0.2	6163
10:24:21	NEW STAGE 3285			80.00	2506.3	3.7	73958
10:24:39	24.35	3665	1001	80.70	1663.5	0.2	408
10:24:59	24.70	3651	1005	80.70	1690.4	1.1	1289
10:25:19	25.03	3633	1011	80.70	1717.3	1.1	2484
10:25:39	25.37	3619	1009	80.70	1744.2	1.1	3584
10:25:59	25.70	3591	1015	80.70	1771.0	1.4	4887
10:26:11	NEW STAGE						
10:26:28	26.18	3546	998	80.61	1811.4	1.6	7250
10:26:43	26.43	3527	990	80.96	1831.6	1.5	8514
10:26:59	26.70	3504	1004	80.96	1851.8	1.7	9800
10:27:14	26.93	3481	1012	81.04	1872.0	1.7	11128
10:27:29	27.18	3468	1010	80.96	1892.2	1.8	12516
10:27:44	27.43	3459	994	80.61	1912.4	1.7	13922
10:28:00	27.70	3440	989	80.84	1932.6	1.9	15365
10:28:20	28.03	3422	990	80.81	1959.6	1.8	17370
10:28:40	28.37	3394	992	80.74	1986.5	2.0	19445
10:28:47	NEW STAGE 3001			80.30	2843.6	3.1	125451
10:29:04	28.77	3367	982	80.51	2020.1	2.1	22064
10:29:20	29.03	3344	970	80.13	2040.2	2.2	23752
10:29:40	29.37	3321	961	80.21	2066.9	2.3	26023
10:30:00	29.70	3312	964	80.14	2093.7	2.3	28339
10:30:21	30.05	3285	974	80.22	2123.0	2.4	30991
10:30:38	30.33	3280	985	79.91	2145.6	2.6	33109
10:30:53	30.58	3285	988	79.91	2165.6	2.6	35027
10:31:08	30.83	3294	997	79.76	2185.6	2.7	36987

TREATMENT LOG

TIME HH:MM:SS	PUMP-TIM MIN	TR-PRES PSI	NET-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT
10:31:23	31.08	3303	1014	80.14	2205.6	2.7	
10:31:38	31.33	3312	1019	80.21	2225.6	2.7	
10:31:53	31.58	3308	1031	80.21	2245.7	2.8	
10:32:08	31.83	3317	1047	80.14	2265.7	2.8	
10:32:23	32.08	3312	1068	79.91	2285.7	2.9	
10:32:38	32.33	3312	1066	80.14	2305.8	3.0	
10:32:50	NEW STAGE	3147	1433	79.91	3244.0	6.9	
10:33:08	32.83	3321	1089	80.29	2345.8	3.1	
10:33:23	33.08	3326	1101	80.29	2365.9	3.3	
10:33:38	33.33	3317	1101	80.13	2386.0	3.3	
10:33:53	33.58	3312	1096	80.13	2406.0	3.3	
10:34:08	33.83	3308	1090	80.21	2426.1	3.4	
10:34:23	34.08	3317	1115	80.21	2446.1	3.5	
10:34:38	34.33	3298	1118	80.36	2466.2	3.5	
10:34:53	34.58	3285	1096	80.36	2486.2	3.6	
10:35:08	34.83	3285	1099	80.06	2506.3	3.7	
10:35:23	35.08	3280	1104	80.29	2526.4	3.8	
10:35:38	35.33	3280	1105	80.29	2546.4	3.8	
10:35:53	35.58	3262	1102	80.29	2566.5	3.9	
10:36:08	35.83	3248	1104	80.29	2586.6	3.9	
10:36:23	36.08	3221	1101	80.13	2606.6	4.1	
10:36:38	36.33	3211	1100	80.13	2626.7	4.0	
10:36:53	36.58	3193	1108	80.36	2646.8	4.2	
10:37:03	NEW STAGE						
10:37:18	37.00	3175	1110	79.98	2680.2	4.3	
10:37:34	37.27	3152	1097	80.06	2701.7	4.4	
10:37:49	37.52	3143	1105	80.44	2721.7	4.5	
10:38:04	37.77	3129	1116	80.52	2741.8	4.6	
10:38:22	38.05	3124	1117	80.52	2764.6	4.9	
10:38:40	38.35	3074	1084	80.42	2788.7	4.7	
10:39:00	38.70	3042	1077	80.29	2815.5	5.0	
10:39:20	39.03	RD 3001	1062	80.36	2843.6	5.1	
10:39:40	39.37	2969	1046	80.52	2869.1	5.2	
10:40:00	39.70	2969	1034	80.80	2896.0	5.3	
10:40:20	40.03	2960	1049	80.50	2922.8	5.3	
10:40:41	40.37	2978	1059	80.50	2949.7	5.6	
10:41:01	40.70	3083	1177	80.21	2976.5	5.6	
10:41:21	41.03	AD 3092	1227	80.06	3003.2	5.8	
10:41:26	NEW STAGE	4474	2697	80.80	3029.3	0.9	
10:41:41	41.35	3092	1254	80.65	3030.0	5.9	

TREATMENT LOG							
TIME HH:MM:SS	PUMP-TIM MIN	TR-PRES PSI	NET-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb
10:42:01	41.68	3092	1268	80.21	3056.7	6.1	165077
10:42:21	42.03	3088	1293	80.52	3083.5	6.1	170420
10:42:41	42.37	3083	1303	80.21	3111.6	6.3	176168
10:43:01	42.68	3097	1330	80.58	3137.0	6.5	181455
10:43:21	43.02	3106	1351	80.42	3163.8	6.6	187022
10:43:41	43.35	3138	1368	80.37	3190.5	6.7	192744
10:44:01	43.68	3147	1429	80.29	3217.3	6.8	198525
10:44:21	44.02	3147	1435	79.91	3244.0	6.9	204408
10:44:27	NEW STAGE	1011	1107	0.00	3830.4	0.0	305267
10:44:45	44.43	3243	1552	80.14	3277.4	7.0	211870
10:45:01	44.68	3266	1566	79.83	3297.4	7.3	216396
10:45:21	45.02	3253	1575	80.06	3324.1	7.3	222519
10:45:41	45.35	3272	1585	80.06	3350.8	7.3	228714
10:46:03	45.73	3294	1655	80.14	3381.5	7.6	235985
10:46:21	46.03	3321	1675	80.14	3404.1	7.7	241437
10:46:41	46.37	3321	1703	80.14	3432.2	7.9	248232
10:46:49	NEW STAGE	1011	1030	0.00	3830.4	0.0	305267
10:47:05	46.77	3344	1727	79.91	3464.2	8.2	256171
10:47:21	47.02	3358	1746	80.14	3484.2	8.2	261153
10:47:41	47.35	3390	1798	80.14	3510.9	7.9	267723
10:48:01	47.70	3410	1839	79.91	3537.5	7.9	274319
10:48:21	48.02	3472	1915	79.71	3564.2	8.1	280926
10:48:27	NEW STAGE						
10:48:45	48.43	3514	2037	79.86	3597.5	11.9	290885
10:48:54	NEW STAGE	1011	1011	0.00	3830.4	0.0	305267
10:49:11	48.85	3610	2105	79.58	3630.7	12.2	301844
10:49:30	49.18	3660	2226	79.56	3657.3	0.1	305267
10:49:45	49.43	3972	2358	79.80	3677.3	0.0	305272
10:49:58	STOP PUMPING PROPPANT 947			0.00	3830.4	0.0	305267
10:50:15	STOP RECORDING POD DATA			0.00	3830.4	0.0	305267
10:50:32	50.22	4658	2750	80.11	3739.8	0.0	305267
10:50:51	50.53	4681	2843	78.12	3765.2	0.0	305267
10:51:06	50.78	4868	2742	78.12	3784.7	0.0	305267
10:51:21	51.03	4882	2827	73.08	3804.1	0.0	305267
10:51:23	END OF ROAD MAP						
10:51:41	51.37	4676	2697	65.60	3829.3	0.0	305267
10:51:56	51.62	1774	1973	0.00	3830.3	0.0	305267

TREATMENT LOG							
TIME HH:MM:SS	PUMP-TIM MIN	TR-PRES PSI	NET-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb
10:52:13	51.90	1893	1139	0.00	3830.4	0.0	305267
10:52:30	52.18	1866	1172	0.00	3830.4	0.0	305267
10:52:45	52.43	1852	1149	0.00	3830.4	0.0	305267
10:53:00	52.68	1847	1144	0.00	3830.4	0.0	305267
10:53:15	52.93	1838	1135	0.00	3830.4	0.0	305267
10:53:30	53.18	1829	1126	0.00	3830.4	0.0	305267
10:53:45	53.43	1829	1121	0.00	3830.4	0.0	305267
10:54:00	53.68	1824	1121	0.00	3830.4	0.0	305267
10:54:15	53.93	1820	1112	0.00	3830.4	0.0	305267
10:54:31	54.18	1811	1107	0.00	3830.4	0.0	305267
10:54:46	54.43	1792	1089	0.00	3830.4	0.0	305267
10:55:01	54.68	1779	1080	0.00	3830.4	0.0	305267
10:55:16	54.93	1774	1066	0.00	3830.4	0.0	305267
10:55:31	55.18	1769	1062	0.00	3830.4	0.0	305267
10:55:46	55.43	1760	1057	0.00	3830.4	0.0	305267
10:56:01	55.68	1756	1053	0.00	3830.4	0.0	305267
10:56:16	55.93	1751	1048	0.00	3830.4	0.0	305267
10:56:31	56.18	1747	1043	0.00	3830.4	0.0	305267
10:56:46	56.43	1742	1039	0.00	3830.4	0.0	305267
10:57:01	56.68	1737	1034	0.00	3830.4	0.0	305267
10:57:16	56.93	1737	1030	0.00	3830.4	0.0	305267
10:57:31	57.18	1733	1025	0.00	3830.4	0.0	305267
10:57:46	57.43	1710	1020	0.00	3830.4	0.0	305267
10:58:01	57.68	1646	975	0.00	3830.4	0.0	305267
10:58:16	57.93	1623	920	0.00	3830.4	0.0	305267
10:58:31	58.18	1646	924	0.00	3830.4	0.0	305267
10:58:46	58.43	1660	947	0.00	3830.4	0.0	305267
10:59:01	58.68	1669	956	0.00	3830.4	0.0	305267
10:59:16	58.93	1669	961	0.00	3830.4	0.0	305267
10:59:31	59.18	1664	956	0.00	3830.4	0.0	305267
10:59:46	59.43	1660	956	0.00	3830.4	0.0	305267
11:00:01	59.68	1660	952	0.00	3830.4	0.0	305267
11:00:16	59.93	1655	947	0.00	3830.4	0.0	305267
11:00:31	60.18	1655	947	0.00	3830.4	0.0	305267
11:00:46	60.43	1655	947	0.00	3830.4	0.0	305267
11:01:03	60.72	1632	933	0.00	3830.4	0.0	305267
11:01:20	61.00	1591	897	0.00	3830.4	0.0	305267
11:01:35	61.25	1554	860	0.00	3830.4	0.0	305267
11:01:50	61.50	1509	824	0.00	3830.4	0.0	305267
11:02:05	61.75	1486	778	0.00	3830.4	0.0	305267
11:02:20	62.00	1481	773	0.00	3830.4	0.0	305267
11:02:35	62.25	1476	769	0.00	3830.4	0.0	305267
11:02:50	62.50	1481	769	0.00	3830.4	0.0	305267

TREATMENT LOG							
TIME HH:MM:SS	PUMP-TIM MIN	TR-PRES PSI	NET-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb
11:03:05	62.75	1486	773	0.00	3830.4	0.0	305267
11:03:20	63.00	1495	778	0.00	3830.4	0.0	305267
11:03:35	63.25	1504	796	0.00	3830.4	0.0	305267
11:03:50	63.50	1499	796	0.00	3830.4	0.0	305267
11:04:05	63.75	1495	787	0.00	3830.4	0.0	305267
11:04:20	64.00	1495	782	0.00	3830.4	0.0	305267
11:04:35	64.25	1490	787	0.00	3830.4	0.0	305267
11:04:50	64.50	1490	782	0.00	3830.4	0.0	305267
11:05:05	64.75	1490	778	0.00	3830.4	0.0	305267
11:05:20	65.00	1486	782	0.00	3830.4	0.0	305267
11:05:35	65.25	1486	778	0.00	3830.4	0.0	305267
11:05:50	65.50	1481	778	0.00	3830.4	0.0	305267
11:06:05	65.75	1486	778	0.00	3830.4	0.0	305267
11:06:20	66.00	1481	773	0.00	3830.4	0.0	305267
11:06:35	66.25	1481	773	0.00	3830.4	0.0	305267
11:06:50	66.50	1321	773	0.00	3830.4	0.0	305267
11:07:05	66.75	909	279	0.00	3830.4	0.0	305267
11:07:20	67.00	1069	329	0.00	3830.4	0.0	305267
11:07:35	67.25	1298	421	0.00	3830.4	0.0	305267
11:07:50	67.50	1563	856	0.00	3830.4	0.0	305267
11:08:05	67.75	1550	847	0.00	3830.4	0.0	305267
11:08:20	68.00	1541	842	0.00	3830.4	0.0	305267
11:08:35	68.25	1518	810	0.00	3830.4	0.0	305267
11:08:50	68.50	1513	805	0.00	3830.4	0.0	305267
11:09:06	68.75	1509	801	0.00	3830.4	0.0	305267
11:09:21	69.00	1509	801	0.00	3830.4	0.0	305267
11:09:36	69.25	1509	801	0.00	3830.4	0.0	305267
11:09:55	69.57	1513	805	0.00	3830.4	0.0	305267
11:10:10	69.82	2	-307	0.00	3830.4	0.0	305267
11:10:25	70.07	-16	-4944	0.00	3830.4	0.0	305267
11:10:40	70.32	-20	-4944	0.00	3830.4	0.0	305267
11:10:55	70.57	-20	-4944	0.00	3830.4	0.0	305267
11:11:10	70.82	-16	-4944	0.00	3830.4	0.0	305267
11:11:25	71.07	-16	-4944	0.00	3830.4	0.0	305267
11:11:37	END JOB						
11:15:16	71.27	-16	-4944	0.00	3830.4	0.0	305267
11:15:31	71.27	-16	-4944	0.00	3830.4	0.0	305267

Phillips Petroleum

S.J. 32-8 #303

Fracture Treatment Execution Report

Prepared for: Mike Larimer

San Juan Basin
Morrison

ISIP (B.K.d.w.)
2360

San Juan
New Mexico

WELL NAME AND NUMBER J 32-8 #303	LOCATION (LEGAL) Sec 14 T31N R8W	DS LOCATION Farmington	TREATMENT NUMBER 1506-4194
FORMATION Juan Basin	STATE Missouri	BOTTOM HOLE TEMPERATURE 220	AGE OF WELL NEW ☒ REWORK ☐
PARISH IN Juan	STATE New Mexico	ALLOWABLE PRESSURE TBG: - CSG: 6000	OIL ☐ TYPE OF WELL GAS ☐ WATER ☐ INJ. ☒
SERVICE FRAC TREATMENT ☐ SAND CONTROL ☐ FRACTURING ☐ OTHER ☐	PRIMARY TREATING FLUID WUF-140 and YF-140D	CASING SIZE WT DEPTH 5 1/2 17 7860	PERFORATED INTERVALS TOP TO BOTTOM NO. OF HOLES 8516 TO 8782 289
PRODUCT Phillips petroleum		TUBING SIZE WT DEPTH 2 1/2 146	
INSTRUCTIONS		PACKER TYPE PACKER DEPTH	
		TUBING VOLUME ANNULAR VOL	
		OPEN HOLE CASING VOL.	
		DISPLACEMENT	
VERSION PURPOSES 24 BBLs EQUALS 1000 GALLONS	ON LOCATION: 0700	LEFT LOCATION: 1930	
		C. TBG. ☐ TUBING ☐ JOB DONE DOWN CASING ☒ ANNULUS ☐ BOTH ☐	

INJECTION RECORD							PRESSURE		NOTATIONS
TYPE OF FLUID	RATE BPM	CO ₂ - H ₂ RATE	INCREMENT VOL. BBLs	CUM. VOL. BBLs	PROP TYPE	PROP #/GAL	CSG	TBG	
H ₂ O									Pre-Job Safety Meeting <u>Yes</u>
									Pressure Test To <u>6800</u> psi
-	-	-	-	-	-	-	-	-	press test Choke manifold
-	-	-	-	-	+	-	-	-	set popoff valve 6800 psi
-	-	-	-	-	-	-	-	-	wait on well master valve
WUF-140	20	-	220	-	-	-	2760	-	start prep pad
"	80	-	25	220	-	-	4546	-	pumps to Full Rate
"	0	-	80	245	-	-	2360	-	Shutdown I.S.P.A.
YF-140D	41	-	67	253	-	-	3459	-	start pad
"	80	-	211	320	-	-	4395	-	pumps to Full Rate
"	0	-	-	531	-	-	2257	-	Shutdown Hyd Lock outflow
-	-	-	-	-	-	-	-	-	Discuss problem with Customer
-	-	-	-	-	-	-	-	-	Evaluate Fluid Left and gelation
-	-	-	-	-	-	-	-	-	of going with 3 pads
-	-	-	-	-	-	-	-	-	Decision made 6el 40000
-	-	-	-	-	-	-	-	-	Fluid and unit on part to be repaired
YF-140D	20	-	144	-	-	-	2400	-	start pad
"	80	-	1353	144	-	-	5498	-	pumps to Full Rate
"	80	-	284	1497	2nd attempt	1	4088	-	Start 1 st sand Ramped
"	80	-	247	1781	"	2	3891	-	Start 2 nd sand Ramped
"	80	-	288	2028	"	3	3727	-	Start 3 rd sand Ramped

80	NITROGEN	BPM AVERAGE INJECTION RATES	CARBON DIOXIDE	TOTAL W/PROP	WATER/ACID	OIL	VOLUME FLUID INJECTED	NITROGEN	CARBON DIOXIDE
					BBLs	BBLs	BBLs	CCF	TONS
128	FINAL	TREATING PRESSURE SUMMARY	AVERAGE	IMMED. S.D.P.	15 MIN S.I.P.	TOTAL INJECTED	QUANTITY PROPPANT PLACED	TOTAL ORDERED/DESIGNED	
						334,000	LBS	342,000	LBS
ION PRIOR TO THIS TREATMENT					☐ Test ☐ Stabilized				
FR REPRESENTATIVE Ke Larimer					DS SERVICE SUPERVISOR Logan W. Lee				
FRACTURE GRADIENT .8 / .71					PAD VOLUME 75000 GALS % PAD 47				
PAGE 1 OF 2 PAGES									

MADE IN U.S.A.



DOWELL SCHLUMBERGER INCORPORATED

DATE _____

9-4-92

.L NAME AND NUMBER

32-8 "303

LOCATION (LEGAL)

Sec 14 T31280

POOL/FIELD

FOOTFIELD
SANDY AND RASIN

TREATMENT NUMBER

9251-1526-4192

PAGE

1 OF 2

PAGES

INJECTION RECORD

PRESSURE

NOTATIONS

[illegible]

D O W E L L S C H L U M B E R G E R

DOJ LATV
ASIA
JAMES
8-55

OR: PHILLIPS PETROLEUM
INITIATIVE: MIKE LARIMER
S.J.32-8 #303

DISTRICT: 3rd.STAGE
DS SUPERVISOR: ROGER LEWIS
DATE: 04 Sep 92

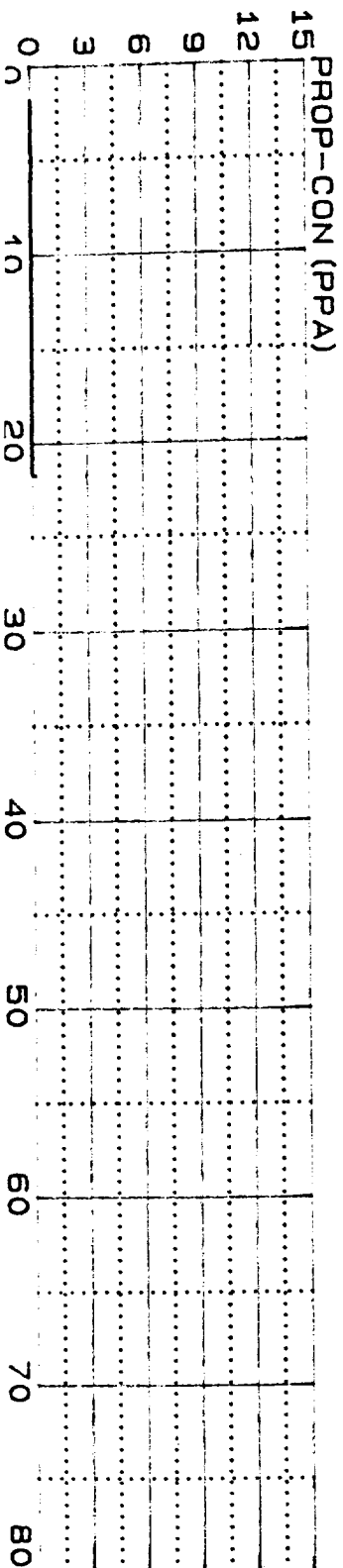
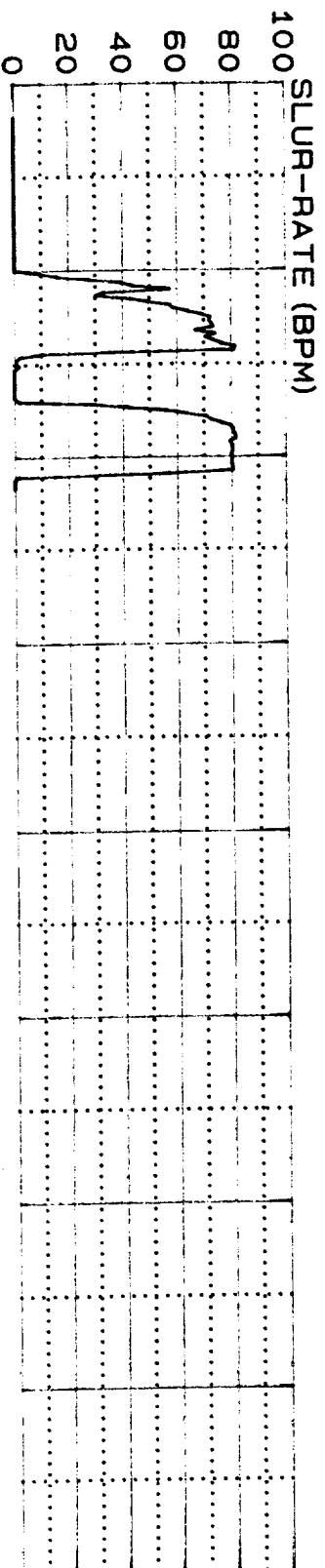
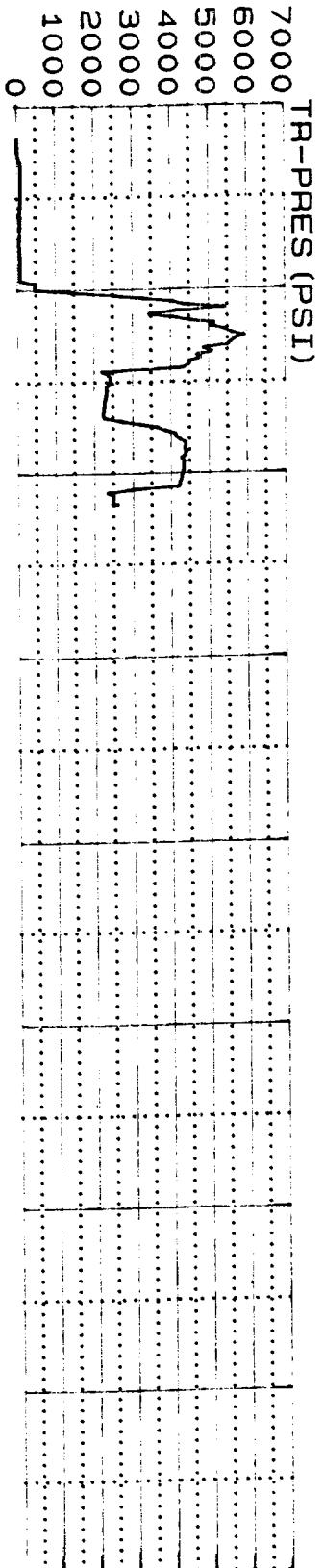
STAR		TREATMENT LOG						
SS	MIN	BPM	PPA	BBL	BBL	lb	PSI	
16	0.00	0.00	0.0	0.0	0.0	0	229	
31	0.00	0.00	0.0	0.0	0.0	0	220	
46	0.00	0.97	0.0	0.0	0.0	0	357	
01	0.00	0.15	0.0	0.0	0.0	0	3045	
16	0.00	0.00	0.0	0.0	0.0	0	5091	
31	0.00	0.00	0.0	0.0	0.0	0	5077	
46	0.00	0.00	0.0	0.0	0.0	0	5036	
01	0.00	0.00	0.0	0.0	0.0	0	4995	
16	0.00	0.00	0.0	0.0	0.0	0	6047	
31	0.00	0.00	0.0	0.0	0.0	0	6469	
46	0.00	0.00	0.0	0.0	0.0	0	6638	
01	0.00	0.00	0.0	0.0	0.0	0	6688	
16	0.00	0.00	0.0	0.0	0.0	0	6638	
31	0.00	0.15	0.0	0.0	0.0	0	6647	
46	0.00	0.00	0.0	0.0	0.0	0	6881	
01	0.00	0.00	1.3E+05	0.0	0.0	0	6816	
16	0.00	0.00	-0.1	0.0	0.0	0	4285	
31	0.00	1.03	-0.2	0.0	0.0	0	51	
46	0.00	0.91	-0.1	0.0	0.0	0	23	
01	0.00	0.68	-0.1	0.0	0.0	0	60	
16	0.00	0.30	-0.1	0.0	0.0	0	51	
31	0.00	0.24	-0.1	0.0	0.0	0	60	
46	0.00	0.00	-0.0	0.0	0.0	0	74	
01	0.00	0.00	-0.2	0.0	0.0	0	69	
16	0.00	0.00	-0.1	0.0	0.0	0	69	
31	0.00	0.00	-0.1	0.0	0.0	0	69	
46	0.00	0.00	-0.1	0.0	0.0	0	69	

E	PUMP-TIM	SLUR-RAT	PROP-CON	TOT-SLUR	TOT-FLUI	TOT-PROP	TR-PRES
:SS	MIN	BPM	PPA	BBL	BBL	lb	PSI
:01	0.00	0.00	-0.1	0.0	0.0	0	64
:16	0.00	0.00	-0.0	0.0	0.0	0	64
:31	0.00	0.00	-0.0	0.0	0.0	0	64
:46	0.00	0.00	0.0	0.0	0.0	0	64
:01	0.00	0.00	-0.0	0.0	0.0	0	64
:16	0.00	0.00	-0.0	0.0	0.0	0	55
:31	0.00	0.00	-0.0	0.0	0.0	0	51
:46	0.00	0.00	-0.0	0.0	0.0	0	51
:01	0.00	0.00	-0.0	0.0	0.0	0	51
:16	0.00	0.00	-0.0	0.0	0.0	0	51
:31	0.00	0.00	-0.0	0.0	0.0	0	51
:46	0.00	0.00	-0.0	0.0	0.0	0	51



PPR TREATMENT REPORT
04 Sep 92

PHILLIPS PETROLEUM
S.J. 32-B #303
3RD. STAGE



D O W E L L S C H L U M B E R G E R

FOMER:	PHILLIPS PETROLEUM	DISTRICT:	3RD. STAGE
RESENTATIVE:	MIKE LARIMER	DS SUPERVISOR:	ROGER LEWIS
L:	S.J. 32-8 #303	DATE:	04 Sep 92

TREATMENT LOG

TIME :MM:SS	PUMP-TIM MIN	TR-PRES PSI	NET-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb
:38:17	1.43	19	-6308	0.00	0.0	0.0	0
:38:32	1.68	19	-6308	0.00	0.0	0.0	0
:38:47	1.93	19	-6308	0.00	0.0	0.0	0
:39:02	2.18	19	-6308	0.00	0.0	0.0	0
:39:17	2.43	19	-6308	0.00	0.0	0.0	0
:39:32	2.68	37	-2538	0.00	0.0	0.0	0
:39:47	2.93	78	-2529	0.00	0.0	0.0	0
:40:02	3.18	92	-2484	0.00	0.0	0.0	0
:40:17	3.43	92	-2484	0.00	0.0	0.0	0
:40:32	3.68	92	-2484	0.00	0.0	0.0	0
:40:47	3.93	92	-2484	0.00	0.0	0.0	0
:41:02	4.18	92	-2484	0.00	0.0	0.0	0
:41:17	4.43	92	-2484	0.00	0.0	0.0	0
:41:32	4.68	92	-2484	0.00	0.0	0.0	0
:41:47	4.93	92	-2479	0.00	0.0	0.0	0
:42:02	5.18	87	-2488	0.00	0.0	0.0	0
:42:17	5.43	83	-2493	0.00	0.0	0.0	0
:42:32	5.68	78	-2497	0.00	0.0	0.0	0
:42:47	5.93	74	-2497	0.00	0.0	0.0	0
:43:02	6.18	74	-2502	0.00	0.0	0.0	0
:43:17	6.43	74	-2502	0.00	0.0	0.0	0
:43:32	6.68	74	-2502	0.00	0.0	0.0	0
:43:49	6.97	69	-2502	0.00	0.0	0.0	0
:44:07	7.27	64	-2506	0.00	0.0	0.0	0
:44:22	7.52	60	-2516	0.00	0.0	0.0	0
:44:37	7.77	64	-2516	0.00	0.0	0.0	0
:44:52	8.02	69	-2506	0.00	0.0	0.0	0
:45:07	8.27	74	-2502	0.00	0.0	0.0	0
:45:22	8.52	74	-2502	0.00	0.0	0.0	0
:45:37	8.77	74	-2502	0.00	0.0	0.0	0
:45:52	9.02	74	-2502	0.00	0.0	0.0	0
:46:07	9.27	74	-2502	0.00	0.0	0.0	0
:46:22	9.52	74	-2502	0.00	0.0	0.0	0
:46:37	9.77	440	-2131	0.00	0.0	0.0	0
:46:52	10.02	463	-2108	0.00	0.0	0.0	0
:47:07	10.27	1923	-1820	11.08	1.5	0.0	0

TREATMENT LOG

IME MM:SS	PUMP-TIM MIN	TR-PRES PSI	NET-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb
47:22	10.52	3296	362	27.47	6.7	0.0	0
47:37	10.77	4198	908	41.26	16.0	0.0	0
47:53	11.03	5439	1785	57.22	29.0	0.0	0
48:08	11.28	3434	1571	30.08	39.7	0.0	0
48:23	11.53	4033	803	42.63	48.4	0.0	0
48:38	11.78	4830	1025	53.78	60.1	0.0	0
48:53	12.03	5068	1691	58.46	74.5	0.0	0
49:09	12.30	5434	1677	63.64	91.1	0.0	0
49:24	12.55	5928	2154	72.30	108.7	0.0	0
49:39	12.80	5663	1975	72.07	126.7	0.0	0
49:55	13.05	5494	1723	73.21	144.9	0.0	0
50:11	13.32	4876	1497	67.86	163.2	0.0	0
50:27	13.58	4697	1098	70.25	181.9	0.0	0
50:43	13.83	4647	1060	73.37	200.2	0.0	0
51:03	14.17	4381	560	81.95	226.3	0.0	0
51:12	NEW STAGE						
51:29	14.62	2381	245	2.16	244.6	0.0	0
51:44	14.87	2431	-201	0.66	244.9	0.0	0
51:59	15.12	2449	-251	1.74	245.2	0.0	0
52:16	15.40	2349	-213	0.00	245.3	0.0	0
52:33	15.68	2321	-254	0.00	245.3	0.0	0
52:48	15.93	2298	-268	0.00	245.3	0.0	0
53:03	16.18	2280	-296	0.00	245.3	0.0	0
53:18	16.43	2262	-305	0.00	245.3	0.0	0
53:33	16.68	2248	-328	0.00	245.3	0.0	0
53:48	16.93	2230	-337	0.00	245.3	0.0	0
54:04	17.18	2706	-422	29.43	248.0	0.0	0
54:23	17.52	3644	-51	55.61	262.6	0.0	0
54:38	17.77	3965	188	67.12	278.1	0.0	0
54:53	18.02	4134	283	72.41	295.9	0.0	0
55:08	18.27	4290	261	79.17	314.7	0.0	0
55:23	18.52	4377	336	80.59	334.6	0.0	0
55:39	18.78	4331	252	78.17	356.1	0.0	0
55:54	19.03	4390	230	81.62	376.5	0.0	0
56:09	19.28	4335	186	80.28	396.5	0.0	0
56:25	19.55	4340	151	80.31	417.9	0.0	0
56:40	19.80	4340	155	80.08	437.9	0.0	0
56:56	20.07	4308	135	80.21	459.3	0.0	0
57:13	20.35	4276	115	80.31	480.7	0.0	0
57:29	20.62	4230	70	80.36	503.4	0.0	0
57:48	20.93	2999	16	56.78	527.9	0.0	0
58:03	21.18	2633	-141	0.00	530.9	0.0	0

TREATMENT LOG

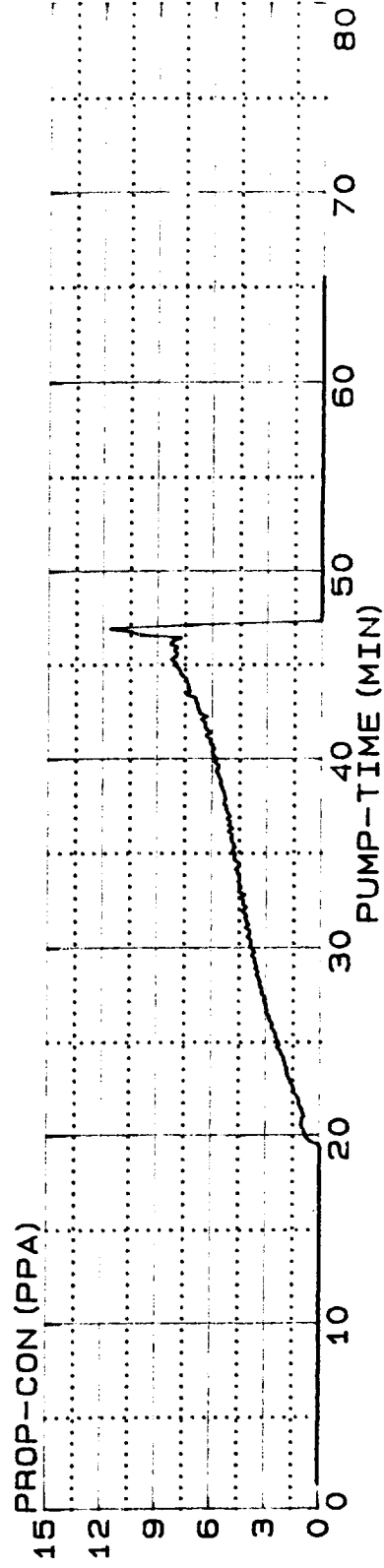
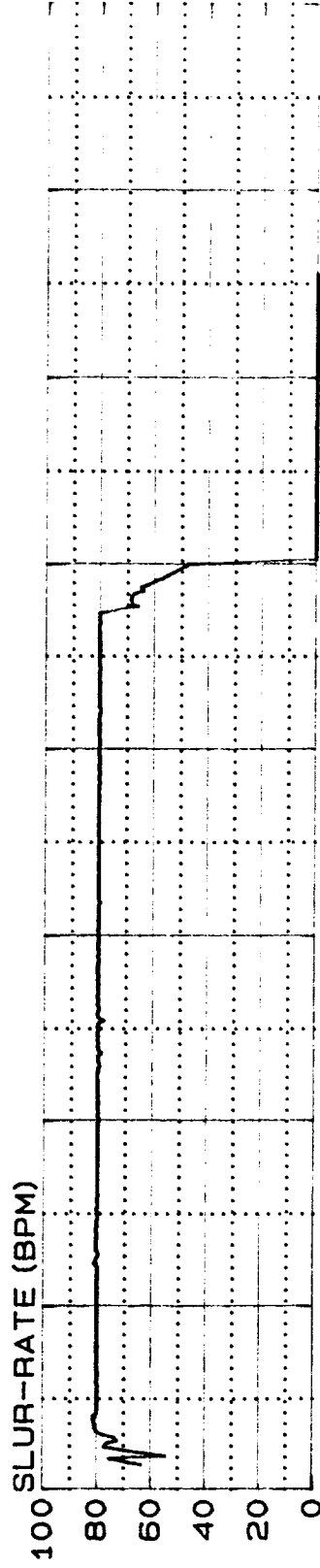
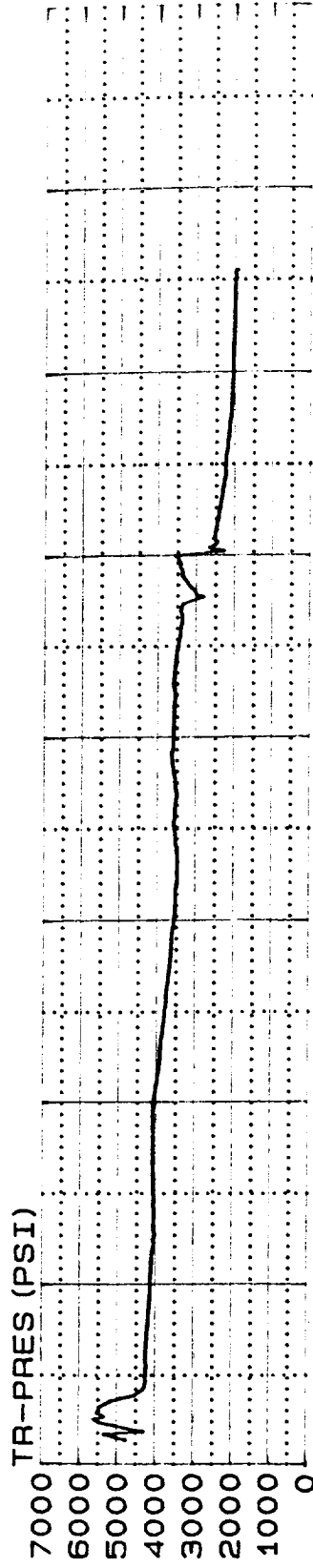
TIME :MM:SS	PUMP-TIM MIN	TR-PRES PSI	NET-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb
:58:18	21.43	2504	-27	0.00	530.9	0.0	0
:37:05	END JOB						
:40:31	21.65	2600	23	0.00	530.9	0.2	0
:40:46	21.65	2605	28	0.00	530.9	0.2	0
:41:01	21.65	2605	28	0.00	530.9	0.2	0



PPR TREATMENT REPORT

04 Sep 92

PHILLIPS PETROLEUM
S.J. 32-8 #303
3RD. STAGE

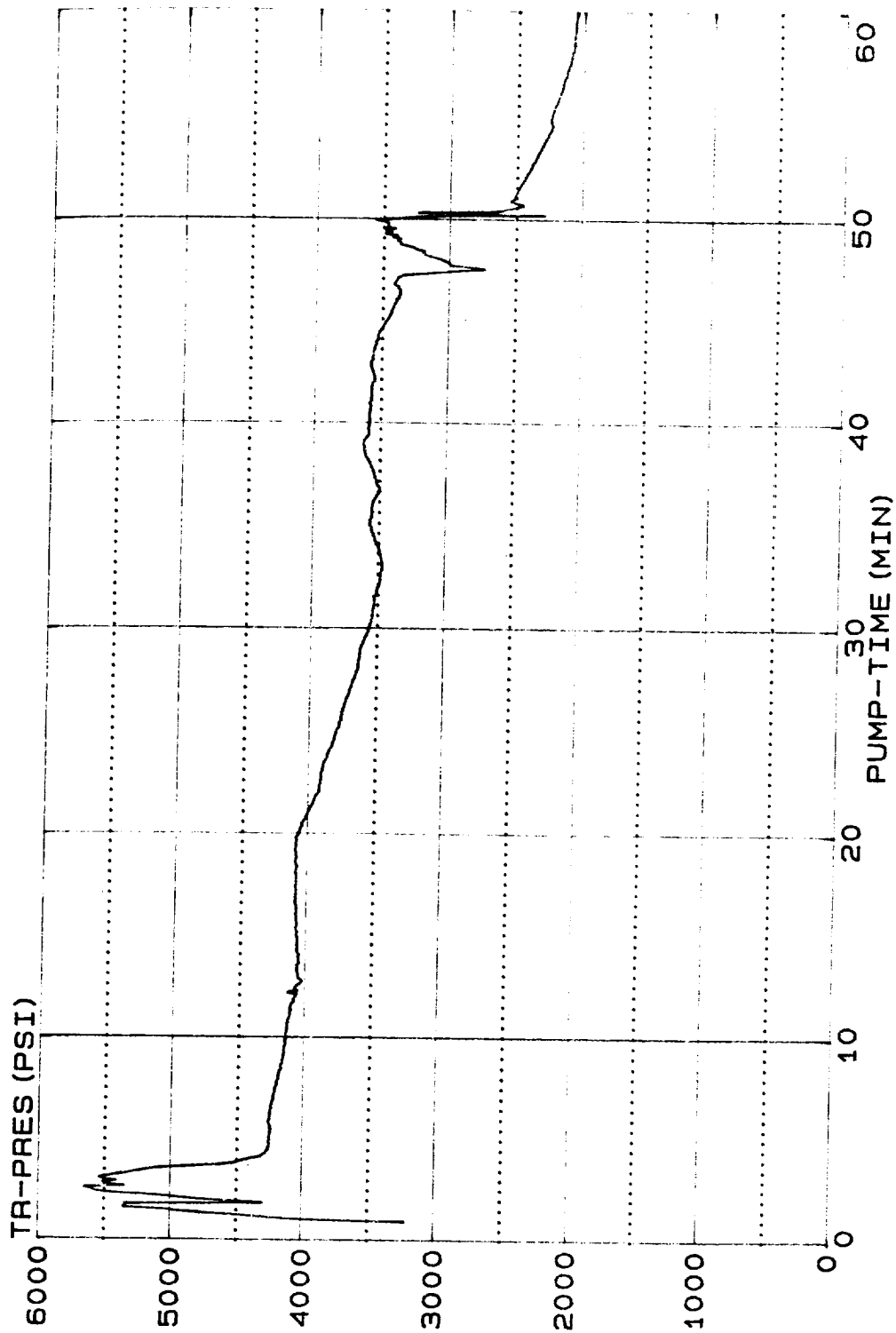


Time Zero is at: 15:18:20



PPR TREATMENT REPORT
04 Sep 92

PHILLIPS PETROLEUM
S.J. 32-8 #303
3RD. STAGE



D O W E L L S C H L U M B E R G E R

TOMER:	PHILLIPS PETROLEUM	DISTRICT:	3RD. STAGE
RESENTATIVE:	MIKE LARIMER	DS SUPERVISOR:	ROGER LEWIS
L:	S.J. 32-8 #303	DATE:	04 Sep 92

TREATMENT LOG

TIME :MM:SS	PUMP-TIM MIN	TR-PRES PSI	NET-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb
:19:33	1.22	4345	843	52.50	16.6	0.0	0
:19:48	1.47	4963	1033	65.85	31.5	0.0	0
:20:03	1.72	5342	1440	75.22	49.5	0.0	0
:20:19	1.97	4500	1493	58.77	65.3	0.0	0
:20:38	2.30	5237	1125	74.29	87.8	0.0	0
:20:53	2.55	5603	1514	76.48	107.2	0.0	0
:21:08	2.80	5494	1686	74.24	125.9	0.0	0
:21:23	3.05	5498	1372	78.07	144.8	0.0	0
:21:39	3.30	5407	1401	80.48	164.8	0.0	0
:21:58	3.63	5086	1050	80.92	191.8	0.0	0
:22:13	3.88	4537	438	81.33	212.1	0.0	0
:22:29	4.15	4386	274	80.88	232.4	0.1	0
:22:49	4.48	4276	125	80.09	259.1	0.0	0
:23:09	4.82	4253	84	80.09	285.8	0.0	0
:23:29	5.15	4258	75	79.95	312.5	0.0	0
:23:49	5.48	4248	73	79.95	339.1	0.0	0
:24:08	5.80	4258	75	79.95	365.8	0.0	0
:24:23	6.05	4258	78	80.06	385.8	0.0	0
:24:24	Changed CLO-STRES Calibration						
:24:43	6.38	4253	569	80.06	412.5	0.0	0
:24:58	6.63	4244	564	80.06	432.5	0.0	0
:25:13	6.88	4235	557	80.18	452.6	0.0	0
:25:28	7.13	4230	553	80.18	472.6	0.0	0
:25:43	7.38	4221	537	80.06	492.6	0.0	0
:25:59	7.65	4212	537	80.18	512.6	0.0	0
:26:19	7.98	4198	525	80.06	539.4	0.0	0
:26:39	8.32	4189	510	80.18	566.1	0.0	0
:26:59	8.63	4175	496	80.18	592.8	0.0	0
:27:19	8.97	4161	477	80.18	619.5	0.0	0
:27:38	9.30	4152	477	80.18	646.2	0.0	0
:27:53	9.55	4152	468	80.18	666.2	0.0	0
:28:08	9.80	4143	464	80.18	686.3	0.0	0
:28:23	10.05	4143	455	80.18	706.3	0.0	0
:28:39	10.30	4139	455	80.18	726.4	0.0	0
:28:59	10.63	4129	450	80.18	753.1	0.1	0

TREATMENT LOG							
TIME :MM:SS	PUMP-TIM MIN	TR-PRES PSI	NET-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb
:29:19	10.97	4120	441	80.18	779.9	0.0	0
:29:39	11.32	4116	429	80.18	806.6	0.0	0
:29:59	11.65	4107	428	80.18	833.4	0.0	0
:30:19	11.98	4074	396	80.11	860.1	0.0	0
:30:39	12.32	4052	377	81.19	887.0	0.0	0
:30:54	12.57	4061	381	81.04	908.6	0.0	0
:31:09	12.82	4029	358	79.61	928.7	0.0	0
:31:24	13.07	4056	373	80.77	948.7	0.0	0
:31:39	13.32	4065	368	80.54	968.9	0.0	0
:31:54	13.57	4065	369	80.64	989.1	0.0	0
:32:09	13.82	4056	365	80.35	1009.2	0.0	0
:32:24	14.07	4052	368	80.27	1029.3	0.0	0
:32:39	14.32	4070	384	80.31	1049.4	0.0	0
:32:54	14.57	4070	377	80.00	1069.5	0.0	0
:33:09	14.82	4065	383	80.00	1089.5	0.0	0
:33:24	15.07	4074	387	80.08	1109.6	0.0	0
:33:39	15.32	4079	397	80.44	1129.6	0.0	0
:33:54	15.57	4074	394	80.37	1149.7	0.0	0
:34:09	15.82	4079	391	80.23	1169.8	0.0	0
:34:24	16.07	4084	396	80.44	1189.8	0.0	0
:34:39	16.32	4079	397	80.08	1209.9	0.0	0
:34:54	16.57	4084	398	80.08	1230.0	0.0	0
:35:09	16.82	4084	406	80.10	1250.0	0.0	0
:35:24	17.07	4084	399	80.10	1270.1	0.0	0
:35:43	17.38	4084	401	80.31	1295.4	0.0	0
:35:58	17.63	4084	406	80.31	1315.5	0.0	0
:36:13	17.88	4084	399	80.10	1335.5	0.0	0
:36:28	18.13	4088	400	80.10	1355.5	0.0	0
:36:31	START RECORDING POD DATA						
:36:48	18.47	4084	399	80.10	1382.3	0.0	0
:37:03	18.72	4088	406	80.10	1402.3	0.0	0
:37:14	START PUMPING PROPPANT						
:37:29	19.13	4088	401	80.23	1435.7	0.0	-7
:37:49	19.47	4088	410	80.10	1462.4	0.0	-8
:38:09	19.80	4088	403	80.10	1489.1	0.7	384
:38:29	20.13	4065	416	80.02	1515.7	0.8	1209
:38:49	20.47	4042	412	80.23	1542.5	1.0	2199
:38:55	NEW STAGE						
:39:13	20.88	4015	414	80.10	1575.9	1.0	3570
:39:29	21.13	3997	423	80.23	1595.9	1.0	4305

TREATMENT LOG

TIME MM:SS	PUMP-TIM MIN	TR-PRES PSI	NET-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb
39:49	21.47	3969	429	80.10	1622.6	1.1	5375
40:08	21.80	3951	433	80.17	1649.3	1.1	6559
40:23	22.05	3923	448	80.23	1669.4	1.2	7486
40:38	22.30	3914	433	80.10	1689.4	1.3	8529
40:47	NEW STAGE						
41:03	22.72	3905	453	80.10	1722.8	1.5	10448
41:19	22.97	3905	452	83.57	1743.0	1.6	11719
41:38	23.30	3891	455	80.31	1769.5	1.7	13490
41:53	23.55	3882	468	80.23	1789.6	1.9	14913
42:08	23.80	3859	465	80.18	1809.6	1.9	16350
42:23	24.05	3850	464	80.17	1829.7	2.0	17867
42:40	24.33	3823	464	80.23	1852.4	2.1	19655
42:57	24.62	3814	468	80.23	1875.1	2.2	21538
43:12	24.87	3804	474	80.23	1895.2	2.3	23309
43:22	NEW STAGE						
43:37	25.28	3777	485	80.10	1928.6	2.4	26289
43:52	25.53	3768	536	79.93	1948.6	2.5	28146
44:07	25.78	3759	492	80.43	1968.7	2.7	30088
44:22	26.03	3749	507	83.87	1988.8	2.6	32080
44:37	26.28	3740	506	80.31	2008.7	2.8	34120
44:52	26.53	3727	503	80.31	2028.8	2.9	36221
45:07	26.78	3713	510	80.31	2048.8	2.9	38404
45:22	27.03	3699	520	80.31	2068.9	3.0	40625
45:37	27.28	3685	511	80.36	2089.0	3.1	42890
45:52	27.53	3676	508	80.31	2109.0	3.2	45161
46:07	27.78	3658	500	80.23	2129.1	3.2	47514
46:22	28.03	3644	501	80.36	2149.2	3.2	49902
46:37	28.28	3640	498	80.36	2169.3	3.3	52328
46:52	28.53	3635	517	80.31	2189.4	3.4	54806
47:07	28.78	3630	519	80.23	2209.4	3.4	57342
47:22	29.03	3626	523	80.10	2229.5	3.5	59889
47:25	NEW STAGE						
47:42	29.37	3603	515	80.36	2256.3	3.6	63369
47:57	29.62	3589	511	80.23	2276.3	3.8	66017
48:12	29.87	3566	506	80.43	2296.4	3.7	68681
48:27	30.12	3557	510	80.22	2316.5	3.9	71374
48:42	30.37	3543	505	80.17	2336.6	3.8	74124
48:57	30.62	3539	516	80.17	2356.6	4.0	76910
49:12	30.87	3534	513	80.30	2376.7	3.9	79720
49:27	31.12	3530	520	80.22	2396.8	4.1	82558

TREATMENT LOG

TIME MM:SS	PUMP-TIM MIN	TR-PRES PSI	NET-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb
49:42	31.37	3525	521	80.17	2416.8	4.1	85409
49:57	31.62	3530	526	80.22	2436.9	4.1	88319
50:14	31.90	3507	532	80.30	2459.6	4.2	91631
50:31	32.18	3489	523	80.30	2482.3	4.1	94996
50:46	32.43	3484	519	80.30	2502.4	4.2	97971
51:01	32.68	3484	525	80.22	2522.4	4.4	100990
51:16	32.93	3470	525	80.30	2542.5	4.4	104012
51:31	33.18	3470	528	80.30	2562.6	4.4	107147
51:38	NEW STAGE						
51:56	33.60	3484	541	80.22	2596.0	4.4	112333
52:11	33.85	3493	574	80.30	2616.1	4.5	115459
52:26	34.10	3511	585	80.30	2636.1	4.7	118646
52:41	34.35	3530	609	80.30	2656.2	4.5	121859
52:56	34.60	3543	618	80.22	2676.3	4.7	125033
53:11	34.85	3553	644	80.22	2696.3	4.7	128303
53:26	35.10	3571	650	80.10	2716.3	4.7	131571
53:41	35.35	3571	655	80.30	2736.4	4.7	134880
53:56	35.60	3557	651	80.22	2756.5	4.9	138188
54:11	35.85	3557	659	80.30	2776.5	4.9	141554
54:26	36.10	3553	665	80.22	2796.5	5.0	144953
54:41	36.35	3534	657	80.30	2816.6	4.8	148373
54:57	36.60	3511	644	80.10	2836.7	5.1	151811
55:12	36.85	3498	636	80.30	2856.7	5.1	155255
55:27	37.10	3521	646	80.30	2876.8	5.0	158724
55:42	37.35	3534	675	80.22	2896.8	5.2	162219
55:57	37.60	3543	692	80.17	2916.9	5.3	165770
56:02	NEW STAGE						
56:17	37.93	3566	729	80.22	2943.6	5.3	170552
56:32	38.18	3585	823	79.71	2963.6	5.3	174139
56:47	38.43	3612	768	79.62	2983.6	5.4	177766
57:02	38.68	3617	800	79.96	3003.6	5.5	181450
57:17	38.93	3626	810	80.10	3023.7	5.5	185159
57:32	39.18	3626	822	80.10	3043.7	5.6	188903
57:47	39.43	3589	813	80.17	3063.7	5.7	192705
58:02	39.68	3589	801	80.17	3083.8	5.6	196509
58:17	39.93	3589	804	80.09	3103.8	5.8	200379
58:37	40.27	3585	811	80.10	3130.5	5.9	205541
58:52	40.52	3589	825	80.17	3150.5	6.0	209490
59:07	40.77	3580	821	80.17	3170.6	6.0	213422
59:22	41.02	3585	834	80.10	3190.6	6.1	217429
59:37	41.27	3571	837	80.17	3210.7	6.3	221472

TREATMENT LOG

TIME MM:SS	PUMP-TIM MIN	TR-PRES PSI	NET-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb
:59:48	NEW STAGE						
:00:03	41.70	3571	835	80.22	3245.4	6.3	228564
:00:18	41.95	3566	841	80.10	3265.4	6.4	232705
:00:33	42.20	3553	841	80.10	3285.4	6.5	236935
:00:48	42.45	3557	840	80.22	3305.4	6.7	241150
:01:03	42.70	3571	881	80.09	3325.5	6.7	245496
:01:18	42.95	3580	894	80.17	3345.5	6.8	249856
:01:33	43.20	3566	913	80.04	3365.5	7.0	254286
:01:48	43.45	3562	911	80.17	3385.6	7.4	258770
:02:03	43.70	3557	925	80.10	3405.6	7.1	263349
:02:18	43.95	3539	924	80.10	3425.6	7.3	267954
:02:33	44.20	3525	923	80.22	3445.7	7.4	272619
:02:48	44.45	3525	930	80.10	3465.7	7.6	277344
:02:56	NEW STAGE						
:03:13	44.87	3484	916	80.22	3499.1	7.9	285406
:03:28	45.12	3461	907	80.30	3519.2	8.0	290333
:03:43	45.37	3438	899	80.17	3539.2	8.0	295338
:03:58	45.62	3424	896	80.10	3559.3	7.9	300281
:04:13	45.87	3411	888	80.22	3579.4	8.1	305234
:04:28	46.12	3397	880	80.22	3599.4	8.3	310196
:04:43	46.37	3365	869	80.30	3619.5	7.9	315182
:04:58	46.62	3370	868	80.37	3639.5	9.9	320296
:05:13	46.87	3415	921	80.17	3659.6	10.7	326278
:05:22	NEW STAGE						
:05:41	47.33	3347	820	80.30	3697.1	0.1	333637
:05:44	STOP PUMPING PROPPANT						
:05:51	NEW STAGE						
7:06:10	47.82	2985	457	68.38	3730.1	0.0	333642
7:06:10	STOP RECORDING POD DATA						
7:06:26	48.08	3049	460	68.63	3748.4	0.0	333642
7:06:41	48.33	3186	466	68.63	3765.6	0.0	333642
7:06:56	48.58	3251	427	63.84	3782.4	0.0	333642
7:07:11	48.83	3374	433	64.91	3798.6	0.0	333642
7:07:26	49.08	3370	473	59.81	3814.1	0.0	333642
7:07:42	49.33	3489	566	56.87	3828.5	0.0	333642
7:08:01	49.67	3475	509	51.40	3846.6	0.0	333642
7:08:16	49.92	3493	498	48.21	3859.0	0.0	333642

TREATMENT LOG

TIME MM:SS	PUMP-TIM MIN	TR-PRES PSI	NET-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb
08:25	Changed SHUT-IN-TIME Calibration						
08:42	50.35	3241	453	0.00	3867.2	0.0	333643
08:57	50.60	2514	650	0.23	3867.3	0.0	333643
09:12	50.85	2509	553	0.00	3867.3	0.0	333643
09:27	51.10	2518	622	0.00	3867.3	0.0	333643
09:42	51.35	2500	590	0.00	3867.3	0.0	333643
09:57	51.60	2481	576	0.00	3867.3	0.0	333643
10:12	51.85	2459	549	0.00	3867.3	0.0	333643
10:27	52.10	2436	530	0.00	3867.3	0.0	333643
10:42	52.35	2413	503	0.00	3867.3	0.0	333643
10:57	52.60	2390	489	0.00	3867.3	0.0	333643
11:12	52.85	2372	462	0.00	3867.3	0.0	333643
11:27	53.10	2349	448	0.00	3867.3	0.0	333643
11:42	53.35	2330	420	0.00	3867.3	0.0	333643
11:57	53.60	2312	407	0.00	3867.3	0.0	333643
12:12	53.85	2289	379	0.00	3867.3	0.0	333643
12:29	54.13	2266	365	0.00	3867.3	0.0	333643
12:46	54.42	2243	338	0.00	3867.3	0.0	333643
13:01	54.67	2243	324	0.00	3867.3	0.0	333643
13:16	54.92	2248	333	0.00	3867.3	0.0	333643
13:31	55.17	2239	324	0.00	3867.3	0.0	333643
13:46	55.42	2225	315	0.00	3867.3	0.0	333643
14:01	55.67	2211	297	0.00	3867.3	0.0	333643
14:16	55.92	2193	288	0.00	3867.3	0.0	333643
14:31	56.17	2179	265	0.00	3867.3	0.0	333643
14:46	56.42	2166	256	0.00	3867.3	0.0	333643
15:01	56.67	2156	246	0.00	3867.3	0.0	333643
15:16	56.92	2147	237	0.00	3867.3	0.0	333643
15:31	57.17	2138	224	0.00	3867.3	0.0	333643
15:46	57.42	2120	214	0.00	3867.3	0.0	333643
16:01	57.67	2111	196	0.00	3867.3	0.0	333643
16:16	57.92	2102	192	0.00	3867.3	0.0	333643
16:31	58.17	2092	178	0.00	3867.3	0.0	333643
16:46	58.42	2079	169	0.00	3867.3	0.0	333643
17:01	58.67	2079	164	0.00	3867.3	0.0	333643
17:16	58.92	2079	164	0.00	3867.3	0.0	333643
17:31	59.17	2069	155	0.00	3867.3	0.0	333643
17:46	59.42	2069	155	0.00	3867.3	0.0	333643
18:01	59.67	2065	150	0.00	3867.3	0.0	333643
18:16	59.92	2056	146	0.00	3867.3	0.0	333643
18:31	60.17	2051	137	0.00	3867.3	-2.5	333643
18:46	60.42	2056	137	0.00	3867.3	-2.5	333643

TREATMENT LOG							
TIME :MM:SS	PUMP-TIM MIN	TR-PRES PSI	NET-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb
:19:01	60.67	2056	141	0.00	3867.3	-2.5	333643
:19:16	60.92	2047	137	0.00	3867.3	0.0	333643
:19:31	61.17	2042	127	0.00	3867.3	0.0	333643
:19:46	61.42	2042	132	0.00	3867.3	0.0	333643
:20:01	61.67	2042	127	0.00	3867.3	0.0	333643
:20:16	61.92	2037	127	0.00	3867.3	0.0	333643
:20:31	62.17	2033	118	0.00	3867.3	0.0	333643
:20:46	62.42	2028	118	0.00	3867.3	0.0	333643
:21:01	62.67	2024	109	0.00	3867.3	0.0	333643
:21:18	62.95	2019	105	0.00	3867.3	0.0	333643
:21:35	63.23	2019	105	0.00	3867.3	0.0	333643
:21:50	63.48	2015	100	0.00	3867.3	0.0	333643
:22:05	63.73	2015	100	0.00	3867.3	0.0	333643
:22:20	63.98	2010	95	0.00	3867.3	0.0	333643
:22:35	64.23	2005	91	0.00	3867.3	0.0	333643
:22:50	64.48	2005	91	0.00	3867.3	0.0	333643
:23:06	64.73	1996	86	0.00	3867.3	0.0	333643
:23:21	64.98	1983	72	0.00	3867.3	0.0	333643
:23:36	65.23	1987	68	0.00	3867.3	0.0	333643
:23:48	END JOB						
:27:25	65.43	1950	40	0.00	3867.3	0.0	333643



Phillips Petroleum

SJ32-8 #303 SWD

Fracturing Services *Bluff*

Prepared for : Mike Larimer

San Juan Basin
Bluff Formation

1900 ISIP

San Juan County
New Mexico

DS Service Point : Farmington, New Mexico
505-325-5096

Prepared by: Patrick Graham
September 2, 1992

Disclaimer Notice

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WELL TREATMENT REPORT



DS-494-A PRINTED IN U.S.A.

DOWELL SCHLUMBERGER INCORPORATED

DATE

8-1-92

WELL NAME AND NUMBER SI 32-8 #303		LOCATION (LEGAL) SEC 14 T31N R8W		DS LOCATION Farmington		TREATMENT NUMBER 1506-4156	
FOUL/FIELD SAN JUAN BASIN		FORMATION Bluff		BOTTOM HOLE TEMPERATURE NEW		TYPE OF WELL OIL	
COUNTY/PARISH SAN JUAN		STATE NEW MEXICO		ALLOWABLE PRESSURE TBG: — CSG: —		PERFORATED INTERVALS	
TYPE OF SERVICE ☐ MATRIX TREATMENT ☐ SAND CONTROL ☒ FRACTURING ☐ OTHER		PRIMARY TREATING FLUID WF-140 YF-140D		CASING SIZE WT DEPTH 5.5 17 7860		TOP TO BOTTOM NO OF HOLES 8860 TO 8920 70	
OPERATOR NAME Phillips Petroleum				TUBING SIZE WT DEPTH 4.5 11.6 1570			
SERVICE INSTRUCTIONS For and STC @ 60 BPM using 10,000 bbls pre-pat WF-140 and 37,000 bbls YF-140D and 42,000 bbls YF-140D containing 210,000 lbs. 20/40 Ottawa sand 1 ppm. To 12 ppb. Ramped and Flush with 143,000 WF-140				PACKER TYPE PACKER DEPTH — —			
				TUBING VOLUME ANNULAR VOL — —			
				OPEN HOLE CASING VOL. — —		PERF. DIAMETER- .35 IN.	
ARRIVED ON LOCATION: 0600		LEFT LOCATION: 1130		DISPLACEMENT 196.7		TOTAL- 70 FT.	
				C. TBG. ☐ TUBING ☐ CASING ☒ ANNULUS ☐ BOTH ☐		JOB DONE DOWN	

TIME	TYPE OF FLUID	RATE BPM	CO ₂ - % RATE	INCREMENT VOL BBS	CUM. VOL BBS	PROP TYPE	PROP AMT	CSG.	TBG.	NOTATIONS
0807										Pre-Job Safety Meeting Yes
0743										Pressure Test To 6800 psi
0740	H ₂ O	—	—	—	—	—	—	—	—	press Test Choke manually
0743	H ₂ O	—	—	—	—	—	—	—	—	set pop off Test lines
0808	—	—	—	—	—	—	—	—	—	initiate Break Test and del
0918	WF-140	8	—	66	—	—	—	1446	—	Start pre pad
0920	WF-140	60	—	171	66	—	—	4358	—	pumps to Full Rate
0923	WF-140	0	—	—	237	—	—	1900	—	Shutdown TSEP
0925	—	—	—	—	—	—	—	—	—	Choke del Break. OK.
0932	YF-140D	30	—	58	—	—	—	1758	—	Start pad
0933	"	60	—	794	295	—	—	2784	—	pumps to Full Rate
0941	"	60	—	234	1089	20/40	1	3090	—	Start 1# 20/40 Ottawa Ramped
0951	"	60	—	195	1323	20/40	2	2999	—	Start 2# 20/40 Ramped
0954	"	60	—	195	1518	20/40	3	2935	—	Start 3# 20/40 Ramped
0957	"	60	—	197	1713	20/40	4	3164	—	Start 4# 20/40 Ramped
1000	"	60	—	143	1910	"	5	3572	—	Start 5# 20/40 Ramped
1003	"	60	—	121	2058	"	6	2894	—	Start 6# 20/40 Ramped
1005	"	60	—	123	2174	"	7	2646	—	Start 7# 20/40 Ramped
1007	"	60	—	150	2297	"	8	2582	—	Start 8# 20/40
1009	"	60	—	37	2447	"	12	2760	—	Start 12# 5.0 pad
1010	WF-140	40	—	—	2484	—	—	2820	—	Cut sand start Flush

FLUID 60		NITROGEN —		BPM AVERAGE INJECTION RATES CARBON DIOXIDE —		TOTAL W/PROP 60		WATER/ACID 2445 BBS		OIL — BBS		VOLUME FLUID INJECTED NITROGEN — CCF		CARBON DIOXIDE — TONS	
MAXIMUM 4340		FINAL 3160		TREATING PRESSURE SUMMARY AVERAGE 3000		IMMED. S.D.P. 2230		15 MIN S.I.P. 1423		TOTAL INJECTED 215,000 LBS		QUANTITY PROPAGANT PLACED TOTAL ORDERED/DESIGNED 210,000 LBS			

PRODUCTION PRIOR TO THIS TREATMENT

☐ Test
☐ Stabilized

CUSTOMER REPRESENTATIVE

DS SERVICE SUPERVISOR

PAD VOLUME

GALS % PAD **46**

FRACTURE GRADIENT

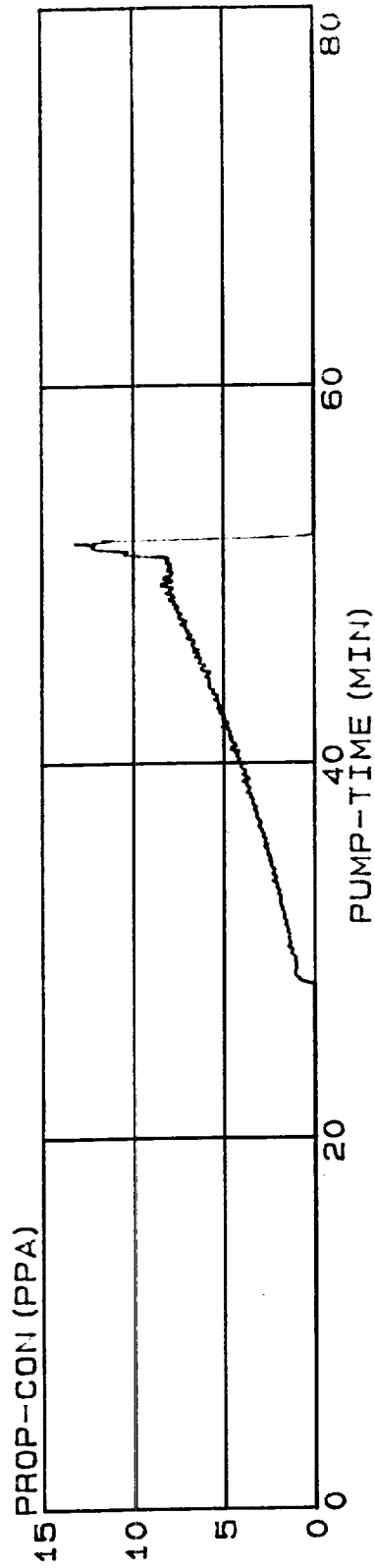
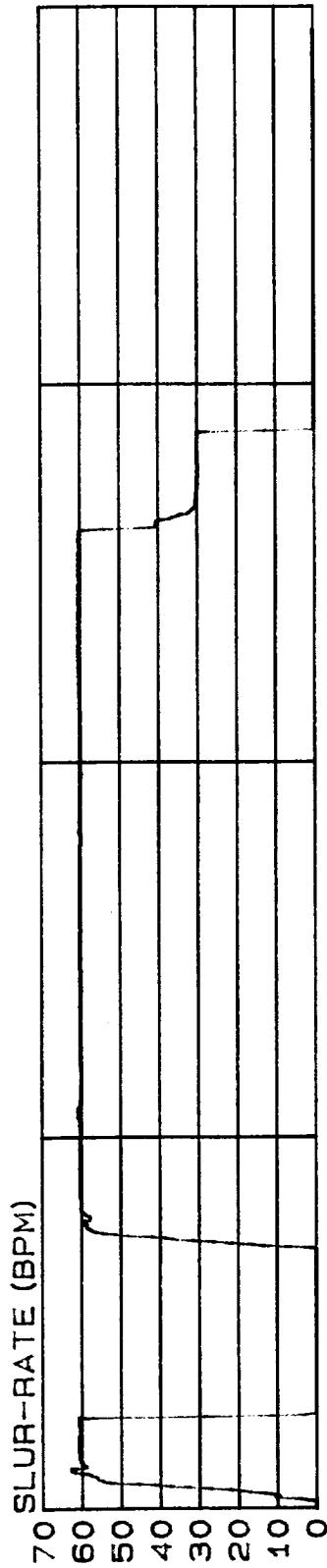
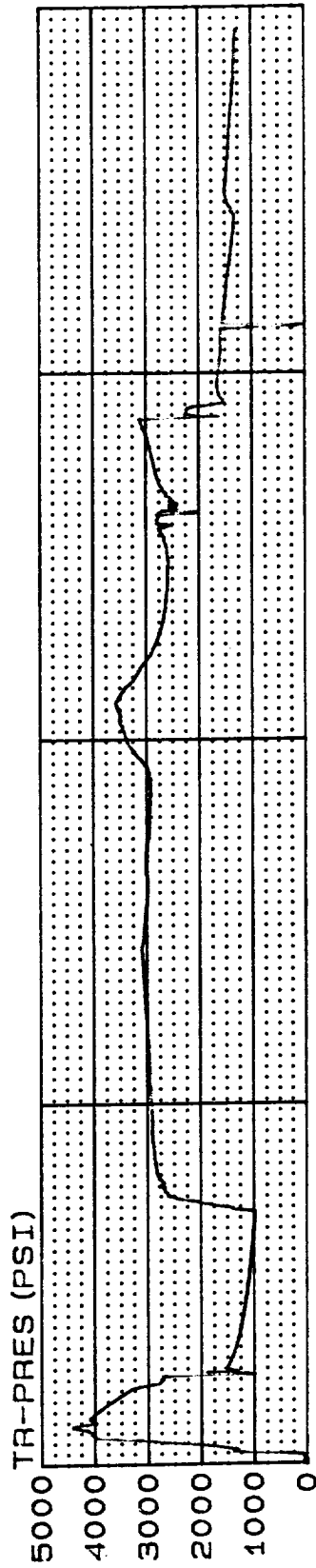
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PPR TREATMENT REPORT
01 Sep 92

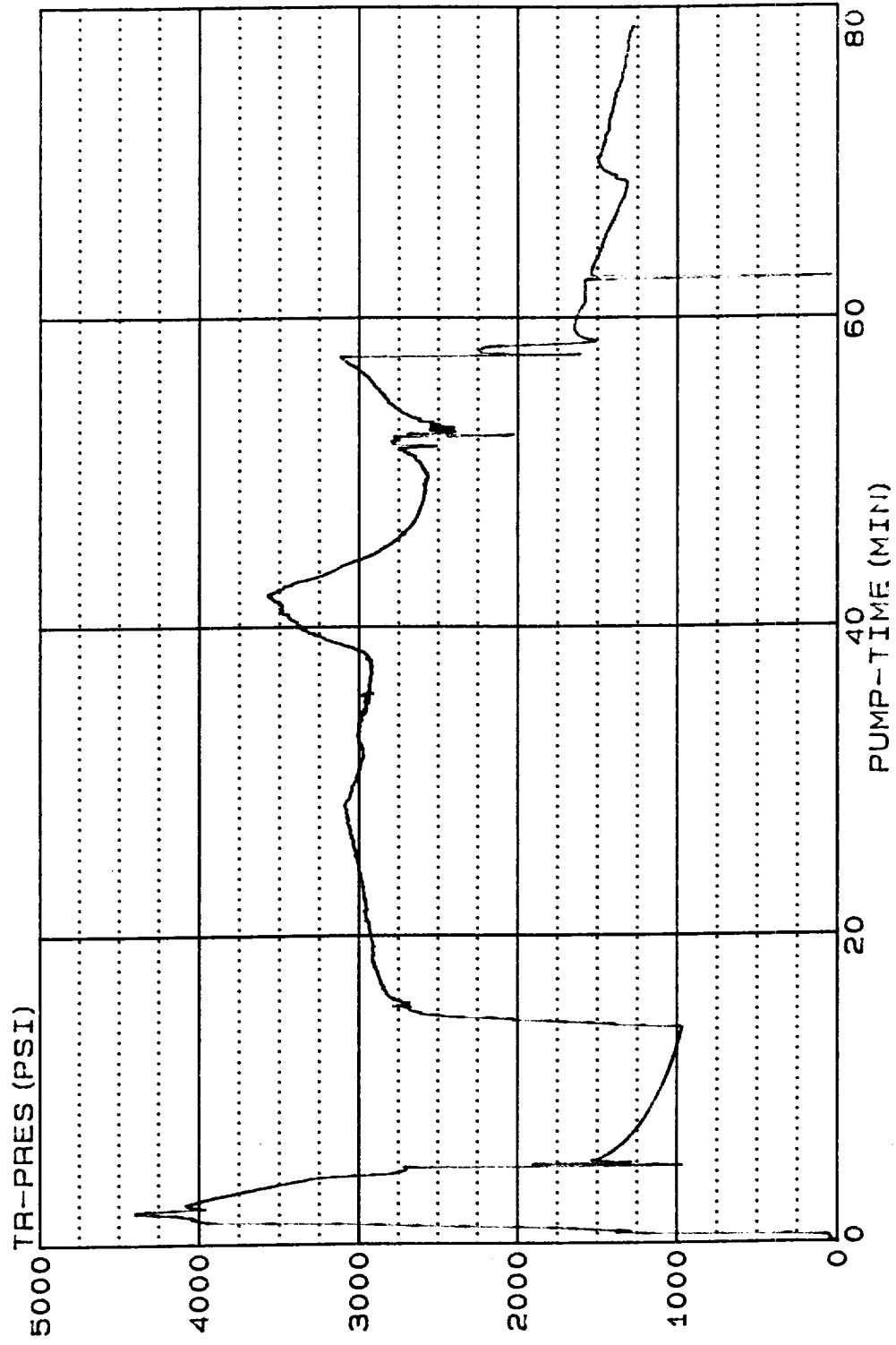
Phillips Petroleum
SJ32-8 #303 SWD
Bluff Formation





PPR TREATMENT REPORT
01 Sep 92

Phillips Petroleum
SJ32-8 #303 SWD
Bluff Formation



D O W E L L S C H L U M B E R G E R

CUSTOMER:	Phillips Petroleum	DISTRICT:	Bluff Formation
REPRESENTATIVE:	Mike Larimer	DS SUPERVISOR:	R.W. Lewis
WELL:	SJ32-8 #303 SWD	DATE:	01 Sep 92

TREATMENT LOG

TIME HH:MM:SS	PUMP-TIM MIN	TR-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb	NET-PRES PSI
09:18:08	0.00	0	0.00	0.0	0.0	0	0
09:18:08	START JOB						
09:18:08	Index 48 now PUMP-#1						
09:18:08	Index 12 now PUMP-#2						
09:18:09	Index 13 now PUMP-#3						
09:18:10	Index 14 now PUMP-#4						
09:18:11	Index 15 now PUMP-#5						
09:18:12	Index 16 now PUMP-#6						
09:18:13	Index 17 now PUMP-#7						
09:18:14	Index 18 now PUMP-#8						
09:18:15	Index 19 now PUMP-#9						
09:18:16	Index 49 now PUMP-#10						
09:18:17	Index 359 now RATE-A						
09:18:18	Index 360 now RATE-B						
09:18:19	Index 361 now RATE-C						
09:18:20	Index 362 now RATE-D						
09:18:21	Index 3 now XE						
09:18:22	Index 363 now TOT-XE						
09:18:25	RESET JOB COUNTERS						
09:18:37	0.47	51	2.47	0.2	0.0	0	-1770
09:18:49	0.67	1168	8.95	1.7	0.0	0	-1671
09:19:01	0.87	1337	13.04	4.0	0.0	0	-688
09:19:17	0.93	1497	16.91	5.1	0.0	0	-638
09:19:29	1.13	1983	26.83	9.6	0.0	0	-327
09:19:41	1.33	2866	40.70	16.9	0.0	0	273
09:19:53	1.53	3933	54.43	27.0	0.0	0	869
09:20:05	1.73	4043	55.90	38.1	0.0	0	1261
09:20:17	1.93	4107	57.70	49.5	0.0	0	1259
09:20:29	2.13	4395	62.54	61.7	0.0	0	1383
09:20:41	2.33	4162	58.53	74.0	0.0	0	1433
09:20:53	2.53	4043	59.62	85.8	0.0	0	1180
09:21:05	2.73	4052	60.37	97.8	0.0	0	1233
09:21:17	2.93	3978	60.37	109.9	0.0	0	1151
09:21:29	3.13	3891	60.52	122.0	0.0	0	1068
09:21:41	3.33	3786	60.60	134.1	0.0	0	969
09:21:53	3.53	3695	60.60	146.3	0.0	0	866
09:22:05	3.73	3589	60.67	158.4	0.0	0	775

[STANDBY]

TREATMENT LOG

TIME HH:MM:SS	PUMP-TIM MIN	TR-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb	NET-PRES PSI
09:22:17	3.93	3493	60.67	170.5	0.0	0	667
09:22:29	4.13	3379	60.30	182.6	0.0	0	567
09:22:41	4.33	3255	60.30	194.7	0.0	0	458
09:22:53	4.53	2912	60.51	206.7	0.0	0	193
09:23:05	4.73	2733	60.72	218.9	0.0	0	-102
09:23:18	4.93	2701	60.45	231.0	0.0	0	-157
09:23:30	5.13	1127	3.40	237.1	0.0	0	-1240
09:23:42	5.33	1442	0.00	237.1	0.0	0	-538
09:23:54	5.53	1479	0.00	237.1	0.0	0	-323
09:24:06	5.73	1442	0.00	237.1	0.0	0	-369
09:24:18	5.93	1406	0.00	237.1	0.0	0	-401
09:24:30	6.13	1383	0.00	237.1	0.0	0	-433
09:24:42	6.33	1355	0.00	237.1	0.0	0	-456
09:24:54	6.53	1337	0.00	237.1	0.0	0	-484
09:25:06	6.73	1314	0.00	237.1	0.0	0	-502
09:25:18	6.93	1296	0.00	237.1	0.0	0	-520
09:25:30	7.13	1278	0.00	237.1	0.0	0	-543
09:25:42	7.33	1259	0.00	237.1	0.0	0	-557
09:25:54	7.53	1241	0.00	237.1	0.0	0	-566
09:26:06	7.73	1227	0.00	237.1	0.0	0	-584
09:26:18	7.93	1214	0.00	237.1	0.0	0	-598
09:26:30	8.13	1200	0.00	237.1	0.0	0	-612
09:26:42	8.33	1191	0.00	237.1	0.0	0	-625
09:26:54	8.53	1181	0.00	237.1	0.0	0	-639
09:27:06	8.73	1168	0.00	237.1	0.0	0	-648
09:27:18	8.93	1159	0.00	237.1	0.0	0	-662
09:27:30	9.13	1145	0.00	237.1	0.0	0	-671
09:27:42	9.33	1136	0.00	237.1	0.0	0	-680
09:27:54	9.53	1127	0.00	237.1	0.0	0	-694
09:28:06	9.73	1117	0.00	237.1	0.0	0	-703
09:28:18	9.93	1104	0.00	237.1	0.0	0	-708
09:28:30	10.13	1095	0.00	237.1	0.0	0	-717
09:28:42	10.33	1085	0.00	237.1	0.0	0	-726
09:28:54	10.53	1081	0.00	237.1	0.0	0	-735
09:29:06	10.73	1072	0.00	237.1	0.0	0	-744
09:29:18	10.93	1062	0.00	237.1	0.0	0	-754
09:29:30	11.13	1058	0.00	237.1	0.0	0	-763
09:29:42	11.33	1049	0.00	237.1	0.0	0	-772
09:29:54	11.53	1040	0.00	237.1	0.0	0	-777
09:30:06	11.73	1035	0.00	237.1	0.0	0	-781
09:30:18	11.93	1026	0.00	237.1	0.0	0	-790
09:30:30	12.13	1021	0.00	237.1	0.0	0	-795
09:30:42	12.33	1012	0.00	237.1	0.0	0	-804

[STANDBY]

TREATMENT LOG

TIME HH:MM:SS	PUMP-TIM MIN	TR-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb	NET-PRES PSI
09:30:54	12.53	1008	0.00	237.1	0.0	0	-813
09:31:06	12.73	1003	0.00	237.1	0.0	0	-818
09:31:18	12.93	998	0.00	237.1	0.0	0	-822
09:31:30	13.13	989	0.00	237.1	0.0	0	-831
09:31:42	13.33	985	0.00	237.1	0.0	0	-836
09:31:54	13.53	980	0.00	237.1	0.0	0	-841
09:32:06	13.73	975	0.00	237.1	0.0	0	-845
09:32:18	13.93	971	0.00	237.1	0.0	0	-850
09:32:30	14.13	1214	6.71	237.6	0.0	0	-926
09:32:32	NEW STAGE						
09:32:42	14.33	1534	21.26	241.0	0.0	0	-597
09:32:54	14.53	2024	36.28	247.2	0.0	0	-460
09:33:06	14.73	2353	47.96	255.8	0.0	0	-319
09:33:18	14.93	2610	56.20	266.5	0.0	0	-245
09:33:30	15.13	2651	58.35	278.1	0.0	0	-211
09:33:42	15.33	2683	58.54	289.8	0.0	0	-199
09:33:54	15.53	2715	59.51	301.7	0.0	0	-139
09:34:06	15.73	2729	57.77	313.2	0.0	0	-213
09:34:18	15.93	2775	59.32	325.0	0.0	0	-154
09:34:30	16.13	2811	60.03	336.9	0.0	0	-162
09:34:42	16.33	2825	59.89	348.9	0.0	0	-166
09:34:54	16.53	2839	59.89	360.9	0.0	0	-170
09:35:06	16.73	2843	60.09	372.9	0.0	0	-175
09:35:18	16.93	2861	60.23	385.0	0.0	0	-187
09:35:30	17.13	2866	60.10	397.0	0.0	0	-200
09:35:37	Changed CLO-STRES Calibration						
09:35:50	17.47	2875	60.30	417.1	0.0	0	230
09:36:02	17.67	2880	60.23	429.1	0.0	0	213
09:36:15	17.87	2894	60.30	441.2	0.0	0	702
09:36:15	Changed CLO-STRES Calibration						
09:36:27	18.07	2903	60.23	453.2	0.0	0	707
09:36:39	18.27	2903	60.23	465.3	0.0	0	716
09:36:51	18.47	2912	60.23	477.3	0.0	0	720
09:37:03	18.67	2912	60.23	489.4	0.0	0	725
09:37:15	18.87	2907	60.10	501.4	0.0	0	726
09:37:27	19.07	2912	60.15	513.4	0.0	0	720
09:37:39	19.27	2912	60.23	525.5	0.0	0	725
09:37:51	19.47	2912	60.23	537.5	0.0	0	720
09:38:03	19.67	2916	60.23	549.6	0.0	0	726
09:38:15	19.87	2916	60.23	561.6	0.0	0	734
09:38:27	20.07	2921	60.23	573.7	0.0	0	739

[STANDBY]

TREATMENT LOG

TIME HH:MM:SS	PUMP-TIM MIN	TR-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb	NET-PRES PSI
09:38:39	20.27	2930	60.03	585.7	0.0	0	739
09:38:51	20.47	2930	60.23	597.7	0.0	0	743
09:39:03	20.67	2930	60.30	609.8	0.0	0	748
09:39:15	20.87	2939	60.23	621.8	0.0	0	754
09:39:27	21.07	2948	60.71	633.9	0.0	0	771
09:39:39	21.27	2953	60.63	646.1	0.0	0	757
09:39:51	21.47	2958	60.71	658.2	0.0	0	762
09:40:03	21.67	2948	60.50	670.3	0.0	0	771
09:40:15	21.87	2953	60.17	682.3	0.0	0	769
09:40:27	22.07	2958	60.03	694.3	0.0	0	776
09:40:39	22.27	2962	59.96	706.3	0.0	0	776
09:40:51	22.47	2967	60.03	718.3	0.0	0	780
09:41:03	22.67	2967	60.03	730.3	0.0	0	785
09:41:15	22.87	2967	59.90	742.3	0.0	0	783
09:41:27	23.07	2971	59.82	754.3	0.0	0	795
09:41:39	23.27	2971	59.82	766.3	0.0	0	797
09:41:51	23.47	2976	59.82	778.2	0.0	0	795
09:42:03	23.67	2985	59.96	790.2	0.0	0	797
09:42:15	23.87	2985	60.09	802.2	0.0	0	807
09:42:27	24.07	2990	59.96	814.2	0.0	0	805
09:42:39	24.27	2999	60.03	826.2	0.0	0	810
09:42:51	24.47	3003	60.03	838.2	0.0	0	814
09:43:03	24.67	3003	59.96	850.2	0.0	0	819
09:43:15	24.87	3003	59.97	862.3	0.0	0	824
09:43:27	25.07	3013	60.09	874.3	0.0	0	828
09:43:39	25.27	3022	60.09	886.3	0.0	0	837
09:43:51	25.47	3017	60.09	898.3	0.0	0	833
09:44:03	25.67	3026	60.09	910.3	0.0	0	842
09:44:15	25.87	3035	60.09	922.4	0.0	0	846
09:44:27	26.07	3040	60.09	934.4	0.0	0	851
09:44:39	26.27	3040	60.09	946.4	0.0	0	851
09:44:51	26.47	3045	59.97	958.4	0.0	0	865
09:45:03	26.67	3058	60.09	970.4	0.0	0	869
09:45:15	26.87	3049	60.09	982.4	0.0	0	869
09:45:22	START RECORDING POD DATA						
09:45:33	START PUMPING PROPPANT						
09:45:43	27.33	3072	60.09	1010.5	0.0	-12	883
09:45:55	27.53	3063	60.09	1022.5	0.0	-22	883
09:46:07	27.73	3077	60.09	1034.5	0.0	-16	883
09:46:19	27.93	3077	60.09	1046.5	0.0	-22	890
09:46:31	28.13	3081	59.97	1058.5	0.0	-33	897
09:46:43	28.33	3086	60.09	1070.5	0.6	118	897

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TREATMENT LOG

TIME HH:MM:SS	PUMP-TIM MIN	TR-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb	NET-PRES PSI
09:46:55	28.53	3090	60.09	1082.6	0.9	526	913
09:47:07	28.73	3081	60.09	1094.6	1.1	1030	914
09:47:19	28.93	3058	60.09	1106.6	1.0	1543	916
09:47:31	29.13	3054	60.09	1118.6	1.0	2035	920
09:47:32	NEW STAGE						
09:47:43	29.33	3049	60.09	1130.6	1.0	2532	926
09:47:55	29.53	3040	60.09	1142.6	1.1	3050	936
09:48:07	29.73	3045	60.09	1154.6	1.2	3587	946
09:48:19	29.93	3026	60.09	1166.7	1.3	4194	952
09:48:31	30.13	3017	60.09	1178.7	1.5	4812	953
09:48:43	30.33	3017	60.09	1190.7	1.3	5463	967
09:48:55	30.53	3003	60.09	1202.7	1.4	6117	986
09:49:07	30.73	2999	60.09	1214.7	1.4	6787	996
09:49:12	NEW STAGE						
09:49:23	31.00	2990	59.97	1230.8	1.5	7703	1009
09:49:35	31.20	2985	60.09	1242.8	1.5	8410	1024
09:49:47	31.40	2981	60.09	1254.8	1.6	9157	1045
09:49:59	31.60	2971	60.09	1266.8	1.6	9907	1061
09:50:11	31.80	2971	60.09	1278.8	1.7	10693	1066
09:50:23	32.00	2971	60.09	1290.8	1.7	11483	1082
09:50:35	32.20	2971	60.09	1302.9	1.8	12306	1093
09:50:47	32.40	2981	60.09	1314.9	1.8	13153	1098
09:50:59	32.60	2999	60.09	1326.9	1.9	14030	1116
09:51:11	32.80	2999	60.09	1338.9	1.9	14905	1139
09:51:23	33.00	3008	60.09	1350.9	2.0	15799	1153
09:51:35	33.20	2999	60.09	1363.0	2.0	16711	1163
09:51:47	33.40	2999	60.09	1375.0	2.0	17660	1166
09:51:48	NEW STAGE						
09:51:59	33.60	2999	60.09	1387.0	2.2	18626	1173
09:52:11	33.80	2999	60.09	1399.0	2.1	19630	1184
09:52:23	34.00	2981	60.09	1411.0	2.3	20637	1189
09:52:35	34.20	2985	60.09	1423.1	2.2	21674	1185
09:52:47	34.40	2962	60.09	1435.1	2.4	22718	1195
09:52:59	34.60	2976	60.09	1447.1	2.4	23813	1178
09:53:11	34.80	2948	60.09	1459.1	2.5	24927	1201
09:53:23	35.00	2953	60.09	1471.1	2.5	26048	1193
09:53:35	35.20	2962	60.09	1483.1	2.6	27209	1189
09:53:47	35.40	2930	60.09	1495.2	2.6	28383	1222
09:53:59	35.60	2981	59.79	1507.2	2.6	29595	1214
09:54:11	35.80	2948	59.79	1519.1	2.7	30807	1204

[STANDBY]

TREATMENT LOG

TIME HH:MM:SS	PUMP-TIM MIN	TR-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb	NET-PRES PSI
09:54:23	36.00	2930	59.84	1531.1	2.8	32033	1242
09:54:35	36.20	2935	59.87	1543.1	2.8	33288	1240
09:54:47	36.40	2926	60.23	1555.1	2.9	34585	1255
09:54:59	36.60	2921	59.96	1567.1	3.1	35929	1265
09:55:11	36.80	2926	60.24	1579.1	3.0	37257	1276
09:55:23	37.00	2916	59.90	1591.1	3.1	38614	1278
09:55:24	NEW STAGE						
09:55:35	37.20	2921	59.90	1603.1	3.2	40019	1281
09:55:47	37.40	2921	59.97	1615.1	3.2	41428	1297
09:55:59	37.60	2921	60.05	1627.1	3.2	42866	1313
09:56:11	37.80	2921	60.03	1639.1	3.4	44329	1327
09:56:23	38.00	2953	59.88	1651.1	3.4	45809	1354
09:56:35	38.20	2948	60.03	1663.1	3.5	47323	1356
09:56:47	38.40	2967	60.03	1675.1	3.7	48873	1393
09:56:59	38.60	3026	59.90	1687.1	3.6	50436	1445
09:57:11	38.80	3086	59.90	1699.1	3.7	52012	1517
09:57:23	39.00	3141	59.90	1711.0	3.9	53644	1582
09:57:35	39.20	3200	59.76	1723.0	3.6	55244	1655
09:57:47	39.40	3237	59.64	1735.0	3.9	56887	1706
09:57:59	39.60	3283	59.79	1747.0	3.8	58534	1780
09:58:11	39.80	3333	59.86	1759.0	4.0	60222	1822
09:58:23	40.00	3374	60.12	1771.0	3.9	61924	1871
09:58:35	40.20	3388	59.86	1782.9	4.2	63700	1901
09:58:47	40.40	3406	60.00	1794.9	4.3	65477	1936
09:58:59	40.60	3438	59.86	1806.9	4.3	67285	1985
09:59:10	NEW STAGE						
09:59:23	41.00	3493	59.86	1830.9	4.4	70988	2062
09:59:35	41.20	3498	59.86	1842.9	4.5	72862	2066
09:59:47	41.40	3479	59.91	1854.8	4.6	74775	2083
09:59:59	41.60	3507	59.86	1866.8	4.6	76714	2105
10:00:11	41.80	3544	59.86	1878.8	4.8	78663	2152
10:00:23	42.00	3571	59.86	1890.8	4.8	80676	2197
10:00:35	42.20	3534	59.86	1902.7	4.8	82655	2190
10:00:47	42.40	3502	59.79	1914.7	5.0	84701	2162
10:00:59	42.60	3470	59.86	1926.7	5.0	86762	2130
10:01:11	42.80	3415	59.99	1938.7	5.2	88876	2081
10:01:23	43.00	3333	60.12	1950.7	5.3	91019	2056
10:01:35	43.20	3264	60.12	1962.7	5.3	93163	1977
10:01:47	43.40	3209	59.99	1974.7	5.5	95345	1934
10:01:59	43.60	3164	60.12	1986.7	5.3	97525	1896
10:02:06	NEW STAGE						
10:02:19	43.93	3109	60.12	2006.8	5.6	101272	1843

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TREATMENT LOG

TIME HH:MM:SS	PUMP-TIM MIN	TR-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb	NET-PRES PSI
10:02:31	44.13	3058	60.12	2018.8	5.8	103585	1816
10:02:43	44.33	2990	60.12	2030.8	5.8	105903	1776
10:02:55	44.53	2939	60.12	2042.8	5.8	108234	1731
10:03:08	44.73	2894	60.12	2054.9	5.9	110601	1684
10:03:20	44.93	2861	60.12	2066.9	6.1	112954	1661
10:03:32	45.13	2839	60.20	2079.0	6.0	115390	1649
10:03:44	45.33	2797	60.26	2091.0	6.4	117828	1627
10:03:56	45.53	2775	60.20	2103.0	6.3	120304	1606
10:04:08	45.73	2738	60.20	2115.1	6.4	122819	1593
10:04:20	45.93	2710	60.27	2127.2	6.6	125350	1582
10:04:32	46.13	2701	60.20	2139.2	6.7	127903	1588
10:04:44	46.33	2683	60.12	2151.3	6.7	130508	1569
10:04:56	46.53	2665	60.26	2163.3	6.6	133083	1566
10:05:08	46.73	2646	60.12	2175.3	7.0	135752	1558
10:05:08	NEW STAGE						
10:05:20	46.93	2642	60.20	2187.4	7.0	138406	1559
10:05:32	47.13	2633	60.26	2199.4	7.1	141102	1554
10:05:44	47.33	2619	60.20	2211.5	7.2	143823	1558
10:05:56	47.53	2614	60.20	2223.5	7.1	146563	1568
10:06:08	47.73	2610	60.12	2235.6	7.4	149326	1571
10:06:20	47.93	2596	60.33	2247.6	7.4	152143	1584
10:06:32	48.13	2596	60.20	2259.6	7.6	154969	1581
10:06:44	48.33	2591	60.20	2271.7	7.5	157823	1584
10:06:56	48.53	2591	60.33	2283.7	7.7	160710	1593
10:07:08	48.73	2587	60.33	2295.8	8.0	163653	1595
10:07:14	NEW STAGE						
10:07:24	49.00	2582	60.20	2311.8	8.0	167555	1610
10:07:36	49.20	2591	60.33	2323.9	7.9	170532	1623
10:07:48	49.40	2578	60.26	2335.9	8.1	173480	1634
10:08:00	49.60	2564	59.77	2347.9	8.1	176529	1645
10:08:12	49.80	2569	60.12	2360.0	8.3	179495	1634
10:08:24	50.00	2582	60.33	2372.0	7.9	182500	1650
10:08:36	50.20	2596	60.20	2384.0	7.8	185429	1679
10:08:48	50.40	2605	60.18	2396.1	7.9	188402	1704
10:09:00	50.60	2614	60.12	2408.1	7.9	191365	1721
10:09:12	50.80	2637	60.26	2420.2	8.1	194362	1756
10:09:23	NEW STAGE						
10:09:36	51.20	2692	60.26	2444.2	10.4	200895	1801
10:09:48	51.40	2706	60.05	2456.2	11.8	204592	1874
10:10:00	51.60	2747	60.18	2468.3	12.1	208559	1910
10:10:00	NEW STAGE						
10:10:12	51.80	2596	60.27	2480.3	11.6	212564	1706

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TREATMENT LOG

TIME HH:MM:SS	PUMP-TIM MIN	TR-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb	NET-PRES PSI
10:10:24	52.00	2779	60.12	2492.4	2.4	214988	1993
10:10:36	52.20	2770	60.12	2504.4	0.1	215103	1942
10:10:48	52.40	2079	54.21	2516.0	0.0	215072	1897
10:10:49	STOP PUMPING PROPPANT						
10:11:00	52.60	2445	40.46	2524.2	0.0	215072	2226
10:11:06	STOP RECORDING POD DATA						
10:11:16	52.87	2559	39.49	2534.9	0.0	215072	1854
10:11:28	53.07	2550	34.98	2542.1	0.0	215072	1980
10:11:40	53.27	2532	31.93	2548.7	0.0	215072	2082
10:11:52	53.47	2610	31.01	2554.9	0.0	215072	2155
10:12:04	53.67	2678	30.23	2561.0	0.0	215072	2179
10:12:16	53.87	2724	30.31	2567.1	0.0	215072	2174
10:12:28	54.07	2747	30.16	2573.1	0.0	215072	2170
10:12:40	54.27	2775	30.16	2579.1	0.0	215072	2157
10:12:52	54.47	2802	30.08	2585.1	0.0	215072	2128
10:13:04	54.67	2816	30.08	2591.2	0.0	215072	2114
10:13:16	54.87	2839	29.86	2597.1	0.0	215072	2086
10:13:28	55.07	2852	29.86	2603.1	0.0	215072	2053
10:13:40	55.27	2871	29.71	2609.0	0.0	215072	2043
10:13:52	55.47	2889	29.71	2615.0	0.0	215072	2003
10:14:04	55.67	2907	29.71	2620.9	0.0	215072	1994
10:14:16	55.87	2921	29.86	2626.9	0.0	215072	1960
10:14:28	56.07	2935	29.86	2632.9	0.0	215072	1938
10:14:40	56.27	2953	29.86	2638.8	0.0	215072	1902
10:14:52	56.47	2971	29.93	2644.8	0.0	215072	1885
10:15:04	56.67	3003	29.93	2650.8	0.0	215072	1861
10:15:16	56.87	3031	30.01	2656.8	0.0	215072	1830
10:15:25	NEW STAGE						
10:15:26	END OF ROAD MAP						
10:15:36	57.20	3081	29.80	2666.8	0.0	215072	1802
10:15:48	57.40	3104	29.81	2672.7	0.0	215072	1788
10:16:00	57.60	2257	12.91	2677.6	0.0	215072	1740
10:16:12	57.80	2230	0.00	2677.6	0.0	215072	1428
10:16:24	58.00	2225	0.00	2677.6	0.0	215072	1556
10:16:36	58.20	2120	0.00	2677.6	0.0	215072	1524
10:16:48	58.40	1593	0.00	2677.6	0.0	215072	1094
10:17:00	58.60	1539	0.00	2677.6	0.0	215072	842
10:17:12	58.80	1598	0.00	2677.6	0.0	215072	920
10:17:24	59.00	1630	0.00	2677.6	0.0	215072	952
10:17:37	59.20	1639	0.00	2677.6	0.0	215072	965

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TREATMENT LOG

TIME HH:MM:SS	PUMP-TIM MIN	TR-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb	NET-PRES PSI
10:17:49	59.40	1644	0.00	2677.6	0.0	215072	975
10:18:01	59.60	1639	0.00	2677.6	0.0	215072	975
10:18:13	59.80	1635	0.00	2677.6	0.0	215072	970
10:18:25	60.00	1630	0.00	2677.6	0.0	215072	961
10:18:37	60.20	1621	0.00	2677.6	0.0	215072	952
10:18:49	60.40	1612	0.00	2677.6	0.0	215072	942
10:19:01	60.60	1598	0.00	2677.6	0.0	215072	938
10:19:13	60.80	1589	0.00	2677.6	0.0	215072	924
10:19:25	61.00	1580	0.00	2677.6	0.0	215072	910
10:19:37	61.20	1575	0.00	2677.6	0.0	215072	906
10:19:49	61.40	1575	0.00	2677.6	0.0	215072	906
10:20:01	61.60	1575	0.00	2677.6	0.0	215072	906
10:20:13	61.80	1575	0.00	2677.6	0.0	215072	906
10:20:25	62.00	1575	0.00	2677.6	0.0	215072	906
10:20:37	62.20	1575	0.00	2677.6	0.0	215072	906
10:20:49	62.40	1575	0.00	2677.6	0.0	215072	906
10:21:01	62.60	206	0.00	2677.6	0.0	215072	407
10:21:07	Changed TR-PRES Calibration						
10:21:17	62.87	1538	0.00	2677.6	0.0	215072	868
10:21:29	63.07	1533	0.00	2677.6	0.0	215072	864
10:21:41	63.27	1528	0.00	2677.6	0.0	215072	859
10:21:53	63.47	1519	0.00	2677.6	0.0	215072	850
10:22:05	63.67	1510	0.00	2677.6	0.0	215072	841
10:22:17	63.87	1501	0.00	2677.6	0.0	215072	832
10:22:29	64.07	1487	0.00	2677.6	0.0	215072	822
10:22:41	64.27	1483	0.00	2677.6	0.0	215072	818
10:22:53	64.47	1473	0.00	2677.6	0.0	215072	809
10:23:05	64.67	1469	0.00	2677.6	0.0	215072	800
10:23:17	64.87	1460	0.00	2677.6	0.0	215072	795
10:23:29	65.07	1455	0.00	2677.6	0.0	215072	786
10:23:41	65.27	1446	0.00	2677.6	0.0	215072	781
10:23:53	65.47	1437	0.00	2677.6	0.0	215072	772
10:24:05	65.67	1428	0.00	2677.6	0.0	215072	763
10:24:17	65.87	1419	0.00	2677.6	0.0	215072	754
10:24:29	66.07	1409	0.00	2677.6	0.0	215072	745
10:24:41	66.27	1396	0.00	2677.6	0.0	215072	736
10:24:53	66.47	1387	0.00	2677.6	0.0	215072	722
10:25:05	66.67	1377	0.00	2677.6	0.0	215072	713
10:25:17	66.87	1373	0.00	2677.6	0.0	215072	703
10:25:29	67.07	1364	0.00	2677.6	0.0	215072	699
10:25:41	67.27	1354	0.00	2677.6	0.0	215072	690
10:25:53	67.47	1345	0.00	2677.6	0.0	215072	681

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TREATMENT LOG

TIME HH:MM:SS	PUMP-TIM MIN	TR-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb	NET-PRES PSI
10:26:05	67.67	1336	0.00	2677.6	0.0	215072	671
10:26:17	67.87	1327	0.00	2677.6	0.0	215072	662
10:26:29	68.07	1322	0.00	2677.6	0.0	215072	653
10:26:41	68.27	1318	0.00	2677.6	0.0	215072	649
10:26:53	68.47	1313	0.00	2677.6	0.0	215072	644
10:27:05	68.67	1313	0.00	2677.6	0.0	215072	644
10:27:17	68.87	1350	0.00	2677.6	0.0	215072	653
10:27:29	69.07	1377	0.00	2677.6	0.0	215072	717
10:27:41	69.27	1419	0.00	2677.6	0.0	215072	736
10:27:53	69.47	1460	0.00	2677.6	0.0	215072	777
10:28:05	69.67	1473	0.00	2677.6	0.0	215072	800
10:28:17	69.87	1483	0.00	2677.6	0.0	215072	813
10:28:29	70.07	1492	0.00	2677.6	0.0	215072	822
10:28:41	70.27	1487	0.00	2677.6	0.0	215072	822
10:28:53	70.47	1483	0.00	2677.6	0.0	215072	813
10:29:05	70.67	1473	0.00	2677.6	0.0	215072	804
10:29:17	70.87	1469	0.00	2677.6	0.0	215072	800
10:29:29	71.07	1464	0.00	2677.6	0.0	215072	795
10:29:41	71.27	1455	0.00	2677.6	0.0	215072	790
10:29:53	71.47	1451	0.00	2677.6	0.0	215072	781
10:30:05	71.67	1451	0.00	2677.6	0.0	215072	781
10:30:17	71.87	1437	0.00	2677.6	0.0	215072	777
10:30:29	72.07	1428	0.00	2677.6	0.0	215072	763
10:30:41	72.27	1428	0.00	2677.6	0.0	215072	758
10:30:53	72.47	1428	0.00	2677.6	0.0	215072	758
10:31:05	72.67	1423	0.00	2677.6	0.0	215072	754
10:31:17	72.87	1419	0.00	2677.6	0.0	215072	754
10:31:29	73.07	1414	0.00	2677.6	0.0	215072	745
10:31:41	73.27	1405	0.00	2677.6	0.0	215072	736
10:31:54	73.47	1400	0.00	2677.6	0.0	215072	736
10:32:06	73.67	1396	0.00	2677.6	0.0	215072	731
10:32:18	73.87	1391	0.00	2677.6	0.0	215072	722
10:32:30	74.07	1391	0.00	2677.6	0.0	215072	722
10:32:42	74.27	1382	0.00	2677.6	0.0	215072	717
10:32:54	74.47	1382	0.00	2677.6	0.0	215072	713
10:33:06	74.67	1368	0.00	2677.6	0.0	215072	703
10:33:18	74.87	1359	0.00	2677.6	0.0	215072	694
10:33:30	75.07	1354	0.00	2677.6	0.0	215072	690
10:33:42	75.27	1350	0.00	2677.6	0.0	215072	681
10:33:54	75.47	1341	0.00	2677.6	0.0	215072	676
10:34:06	75.67	1341	0.00	2677.6	0.0	215072	671
10:34:18	75.87	1332	0.00	2677.6	0.0	215072	667
10:34:30	76.07	1327	0.00	2677.6	0.0	215072	662

[STANDBY]

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TREATMENT LOG

TIME HH:MM:SS	PUMP-TIM MIN	TR-PRES PSI	SLUR-RAT BPM	TOT-SLUR BBL	PROP-CON PPA	TOT-PROP lb	NET-PRES PSI
10:34:42	76.27	1322	0.00	2677.6	0.0	215072	658
10:34:54	76.47	1322	0.00	2677.6	0.0	215072	653
10:35:06	76.67	1318	0.00	2677.6	0.0	215072	649
10:35:18	76.87	1313	0.00	2677.6	0.0	215072	649
10:35:30	77.07	1313	0.00	2677.6	0.0	215072	644
10:35:42	77.27	1304	0.00	2677.6	0.0	215072	639
10:35:54	77.47	1304	0.00	2677.6	0.0	215072	635
10:36:06	77.67	1304	0.00	2677.6	0.0	215072	635
10:36:18	77.87	1304	0.00	2677.6	0.0	215072	635
10:36:30	78.07	1300	0.00	2677.6	0.0	215072	630
10:36:42	78.27	1295	0.00	2677.6	0.0	215072	626
10:36:54	78.47	1290	0.00	2677.6	0.0	215072	621
10:37:06	78.67	1281	0.00	2677.6	0.0	215072	612
10:37:15	END JOB						