

*Joe M
Miller #*

Sept. 2, 1986

A. W. Hoch, President
Magma Power Co.
P.O. Box 17760
Los Angeles, CA 90017

SUBJECT: East Mesa Operations for August 1986

Dear Andy:

PLANT OPERATIONS HIGHLIGHTS: The plant had an on line percentage of 99.58 with gross generation of 7,434,000 KWHs and sales of 4,335,000 KWHs. There were two incidences of down time this month with a loss of approximately three hours total operation. The down time has been attributed to loss of the HXD line and voltage fluxuation.

WELL OPERATIONS HIGHLIGHTS: Average brine flow for the month was 1,368,043 lb/hr (3,078 gpm).

Well 48-7 was completed on Aug.12 and tested a short period of time to yield approximately 730 gpm.

Sincerely,

M.B. Pierce

Michael B. Pierce
East Mesa Superintendent

cc: B.C. McCabe
J.W. Aidlin
T.C. Hinrichs
R.L. Tenney
Euck McCabe
E. Zajac
G.K. Crane
S. Hagerty
A. Taylor
J. Shepard
A.L. Johnson
P.M. Pankratz
J.M. Leathers
R.L. Walzel
Fred Teeters
S.B. Stiger
P.H. Wright
H. Lipmann

PLANT AUG 86	BRINE FLOW LBS/HR	TEMP IN DEGREES	TEMP OUT DEGREES F	GROSS MW DAY	NET MW DAY	HOURS DAY	COOLING H2O DEGREES F	COND PRESS	WET BULB DEGREES F	HEAT RATE LBS/KW	PLANT EFF.	TURBINE IN DEGREES F	TURBINE OUT DEGREES F
1	1378000	347	166	252	148	24.0	77.0	61.0	75.0	131.2	14.4	300	161
2	1378000	347	166	238	141	24.0	79.0	63.0	76.0	139.0	13.6	300	163
3	1374000	347	168	238	140	24.0	80.0	64.0	77.0	138.6	13.8	300	164
4	1377000	347	168	238	138	24.0	81.0	65.0	76.0	138.9	13.7	300	165
5	1376000	347	169	238	136	24.0	82.0	65.0	76.0	138.8	13.8	300	165
6	1365000	347	168	252	141	24.0	81.0	64.0	76.0	130.0	14.7	300	164
7	1370000	347	167	238	144	24.0	80.0	62.0	71.0	138.2	13.7	300	165
8	1380000	347	168	252	146	24.0	79.0	62.0	76.0	131.4	14.5	300	165
9	1377000	347	169	238	142	24.0	80.0	63.0	76.0	138.9	13.8	300	165
10	1377000	347	169	238	143	24.0	81.0	64.0	78.0	138.9	13.8	300	169
11	1379333	347	170	224	130	22.5	81.7	64.0	78.7	138.5	13.9	300	167
12	1378333	348	168	238	141	24.0	82.0	64.0	79.7	139.0	13.6	300	165
13	1377667	348	168	252	141	24.0	82.3	65.3	71.0	131.2	14.4	300	164
14	1376333	348	168	238	145	24.0	80.0	64.0	74.7	138.8	13.7	300	163
15	1368000	348	167	252	142	24.0	81.0	65.0	77.0	130.3	14.5	300	163
16	1364667	348	167	238	141	24.0	83.0	66.0	77.7	137.6	13.7	300	162
17	1364667	348	167	238	139	24.0	83.5	65.3	78.7	137.6	13.7	300	162
18	1363667	348	167	238	143	24.0	83.0	65.0	78.0	137.5	13.7	300	162
19	1362667	348	168	238	139	24.0	84.0	66.7	79.0	137.4	13.8	300	162
20	1363000	348	168	238	137	24.0	84.3	67.0	79.3	137.4	13.8	300	163
21	1360000	348	168	238	135	24.0	85.0	68.0	79.0	137.1	13.8	300	163
22	1360333	348	168	238	136	24.0	85.0	67.7	76.3	137.2	13.8	300	163
23	1360000	348	168	238	138	24.0	83.7	67.0	75.3	137.1	13.8	300	162
24	1360000	348	167	238	140	24.0	82.3	64.7	76.0	137.1	13.7	300	161
25	1358000	347	167	224	129	22.4	82.0	64.0	78.0	135.8	14.0	300	161
26	1361333	347	167	238	141	24.0	82.3	64.3	80.0	137.3	13.8	300	161
27	1361667	347	167	238	141	24.0	83.3	64.7	80.0	137.3	13.8	300	162
28	1360000	347	168	238	140	24.0	84.3	65.7	79.3	137.1	13.9	300	162
29	1360000	347	169	238	137	24.0	85.0	66.0	79.7	137.1	14.0	300	162
30	1358333	347	168	238	139	24.0	83.7	65.0	77.7	137.0	13.9	300	161
31	1359333	347	168	252	142	24.0	83.5	65.0	74.3	129.5	14.7	300	162
AVERAGE	1368043	347	168	240	140		82.1	64.8	77.0	136.4	13.9	300	163.2
TOTAL	1013583059			7434	4335	740.9							

ON LINE PERCENTAGE = 99.58
 PEAK PERIOD AVERAGE = 6.43
 MID PEAK AVERAGE = 5.59
 OFF PEAK AVERAGE = 5.70

MEGAWATTS AUG 86	PEAK PER DAY	MID PEAK PER DAY	OFF PEAK PER DAY	PEAK AVERAGE	MID PEAK AVERAGE	OFF PEAK AVERAGE	TOTAL PER DAY	AVERAGE PER HOUR
1	41	53	54	6.83	5.89	6.00	148	6.1
2			141	0.00	0.00	5.88	141	5.8
3			140	0.00	0.00	5.83	140	5.8
4	38	50	50	6.33	5.56	5.56	138	5.7
5	38	50	48	6.33	5.56	5.33	136	5.6
6	38	51	52	6.33	5.67	5.78	141	5.8
7	39	53	52	6.50	5.89	5.78	144	6.0
8	40	54	52	6.67	6.00	5.78	146	6.0
9			142	0.00	0.00	5.92	142	5.9
10			143	0.00	0.00	5.96	143	5.9
11	39	41	50	6.50	4.56	5.56	130	5.4
12	39	52	50	6.50	5.78	5.56	141	5.9
13	39	52	50	6.50	5.78	5.56	141	5.9
14	40	53	52	6.67	5.89	5.78	145	6.0
15	39	52	51	6.50	5.78	5.67	142	5.9
16			141	0.00	0.00	5.88	141	5.9
17			139	0.00	0.00	5.79	139	5.8
18	39	52	52	6.50	5.78	5.78	143	6.0
19	38	50	51	6.33	5.56	5.67	139	5.8
20	37	50	50	6.17	5.56	5.56	137	5.7
21	37	50	48	6.17	5.56	5.33	135	5.6
22	38	49	49	6.33	5.44	5.44	136	5.7
23			138	0.00	0.00	5.75	138	5.8
24			140	0.00	0.00	5.83	140	5.8
25	38	40	51	6.33	4.44	5.67	129	5.4
26	39	51	51	6.50	5.67	5.67	141	5.9
27	38	53	50	6.33	5.89	5.56	141	5.9
28	38	51	51	6.33	5.67	5.67	140	5.8
29	38	50	49	6.33	5.56	5.44	137	5.7
30			139	0.00	0.00	5.79	139	5.8
31			142	0.00	0.00	5.92	142	5.9
TOTAL	810	1057	2468				4335	
AVERAGE	38.6	50.3	79.6	6.43	5.59	5.70	139.8	5.8

PEAK EARNINGS =241585.20

MID PEAK = 71323.70

OFF PEAK =134993.60

GENUS PAYMENT = 12330.00

TOTAL 447902.50

POWER DATE	SPRAYS PANEL	WELLS PANEL	TOSHIBA PANEL	KVA PANEL	ELEC BFF PANEL	GROSS MW PANEL	MW BOUGHT 31 DK METER	MW SOLD 31 K METER	DEMAND METER
AUG 86	201	202	203	204	206	207			
1	14.0	25.2	33.6	4.2	24.5	252.0	0.0	148.0	0.0
2	15.4	21.0	33.6	2.8	21.0	238.0	0.0	141.0	0.0
3	14.0	25.2	33.6	4.2	24.5	238.0	0.0	140.0	0.0
4	14.0	25.2	33.6	2.8	24.5	238.0	0.0	138.0	0.0
5	14.0	25.2	33.6	4.2	21.0	238.0	0.0	136.0	0.0
6	14.0	21.0	33.6	2.8	24.5	252.0	0.0	141.0	0.0
7	14.0	25.2	33.6	4.2	24.5	238.0	0.0	144.0	0.0
8	14.0	25.2	33.6	2.8	21.0	252.0	0.0	146.0	0.0
9	15.4	21.0	33.6	4.2	24.5	238.0	0.0	142.0	0.0
10	14.0	25.2	33.6	2.8	21.0	238.0	0.0	143.0	0.0
11	14.0	25.2	33.6	4.2	21.0	224.0	2.0	130.0	1.7
12	14.0	21.0	33.6	2.8	24.5	238.0	0.0	141.0	1.7
13	14.0	25.2	33.6	4.2	24.5	252.0	0.0	141.0	1.7
14	14.0	25.2	33.6	2.8	21.0	238.0	0.0	145.0	1.7
15	14.0	25.2	33.6	4.2	24.5	252.0	0.0	142.0	1.7
16	14.0	25.2	33.6	2.8	24.5	238.0	0.0	141.0	1.7
17	15.4	21.0	33.6	4.2	21.0	238.0	0.0	139.0	1.7
18	12.6	25.2	33.6	2.8	24.5	238.0	0.0	143.0	1.7
19	14.0	25.2	37.8	2.8	21.0	238.0	0.0	139.0	1.7
20	14.0	25.2	33.6	4.2	24.5	238.0	0.0	137.0	1.7
21	14.0	25.2	33.6	4.2	24.5	238.0	0.0	135.0	1.7
22	12.6	29.4	33.6	2.8	21.0	238.0	0.0	136.0	1.7
23	14.0	25.2	33.6	2.8	24.5	238.0	0.0	138.0	1.7
24	15.4	25.2	33.6	4.2	21.0	238.0	0.0	140.0	1.7
25	12.6	21.0	33.6	2.8	24.5	224.0	5.0	129.0	2.4
26	14.0	25.2	33.6	4.2	21.0	238.0	0.0	141.0	2.4
27	14.0	25.2	33.6	2.8	24.5	238.0	0.0	141.0	2.4
28	14.0	21.0	33.6	4.2	24.5	238.0	0.0	140.0	2.4
29	14.0	25.2	37.8	2.8	21.0	238.0	0.0	137.0	2.4
30	15.4	25.2	29.4	4.2	24.5	238.0	0.0	139.0	2.4
31	15.4	25.2	33.6	2.8	24.5	252.0	0.0	142.0	2.4
AVERAGE	14.1	24.4	33.7	3.5	23.1	239.8		139.8	
TOTAL	438.2	756.0	1045.8	107.8	717.5	7434.0	7.0	4335.0	

METER DIFFERENCE = 40.7

WELLS	WELL #1	WELL #2	WELL #3	WELL #4	WELL #5	WELL #6	WELL #7	WELL #8	WELL #9	WELL #10	TOTAL
DATE	FLOW	FLOW	FLOW	FLOW	FLOW	FLOW	FLOW	FLOW	FLOW	FLOW	BRINE
6 86	44-7A	44-7	44-7B	48-7A	48-7	8B-7	63-7	61-7	81-7	83-7	FLOW
1	1409000		152000	220000		204000		144000	128000	131000	1388000
2	1410000		153000	220000		204000		145000	128000	131000	1391000
3	1409000		151000	220000		205000		144000	128000	131000	1388000
4	1409000		153000	220000		202000		144000	128000	131000	1387000
5	1409000		153000	220000		202000		144000	128000	131000	1387000
6	1406000		150000	220000		201000		143000	127000	131000	1378000
7	1405000		150000	220000		200000		144000	128000	131000	1378000
8	1408000		151000	220000		201000		145000	129000	132000	1386000
9	1409000		152000	220000		201000		144000	129000	131000	1386000
0	1407000		153000	220000		202000		144000	129000	131000	1386000
1	1407000		154000	220000		204000		145000	128000	131000	1389000
2	1410000		154000	220000		203000		145000	129000	131000	1392000
3	1409000		153000	220000		202000		145000	129000	131000	1389000
4	1409000		154000	220000		201000		145000	129000	130000	1388000
5	1408000		155000	220000		198000		145000	129000	130000	1385000
6	1407000		153000	220000		198000		145000	129000	131000	1383000
7	1407000		152000	220000		199000		145000	129000	130000	1382000
8	1408000		152000	220000		198000		145000	129000	130000	1382000
9	1408000		151000	220000		196000		145000	129000	130000	1379000
0	1408000		151000	220000		195000		145000	129000	129000	1377000
1	1411000		153000	220000		194000		145000	130000	130000	1383000
2	1407000		152000	220000		195000		145000	129000	130000	1378000
3	1408000		152000	220000		197000		145000	129000	129000	1380000
4	1410000		152000	220000		200000		145000	130000	129000	1386000
5	1406000		154000	220000		200000		145000	129000	129000	1383000
6	1406000		154000	220000		200000		143000	129000	129000	1381000
7	1411000		152000	220000		200000		145000	128000	130000	1386000
8	1411000		155000	220000		197000		145000	128000	129000	1385000
9	1411000		155000	220000		198000		145000	128000	129000	1386000
0	1410000		154000	220000		196000		145000	128000	128000	1381000
1	1411000		155000	220000		196000		144000	128000	129000	1383000
RAGE 408516			152742	220000		199645		144613	128613	130161	1384290

INJECTION WELLS AUG 86	46-7B #1 PSIG	WELL 46-7B #1 FLOW	46-7 #3 PSIG	WELL 46-7 #3 FLOW	B4-7 #4 PSIG	WELL B4-7 #4 FLOW	TOTAL BRINE FLOW
1	470	950000	472	78000	452	360000	1388000
2	471	950000	473	78000	452	360000	1388000
3	472	940000	473	84000	454	360000	1384000
4	473	940000	476	84000	457	366000	1390000
5	474	950000	479	78000	456	360000	1388000
6	474	950000	478	72000	457	360000	1382000
7	475	960000	480	78000	458	360000	1398000
8	476	960000	480	84000	460	360000	1404000
9	476	960000	481	78000	460	360000	1398000
10	477	960000	480	78000	460	360000	1398000
11	475	960000	478	78000	457	360000	1398000
12	475	950000	477	84000	458	360000	1394000
13	475	950000	479	84000	460	360000	1394000
14	474	950000	477	90000	459	360000	1400000
15	474	950000	478	84000	459	360000	1394000
16	475	950000	477	84000	458	360000	1394000
17	474	950000	477	84000	457	360000	1394000
18	474	950000	476	84000	456	360000	1394000
19	475	950000	477	84000	459	360000	1394000
20	475	950000	478	84000	459	360000	1394000
21	476	950000	479	84000	460	360000	1394000
22	476	960000	479	84000	460	360000	1404000
23	475	950000	478	84000	459	360000	1394000
24	474	950000	478	84000	458	360000	1394000
25	474	950000	478	84000	456	354000	1388000
26	472	950000	472	84000	455	354000	1388000
27	475	960000	477	84000	459	360000	1404000
28	475	960000	477	90000	460	354000	1404000
29	477	950000	479	102000	459	354000	1406000
30	476	960000	479	102000	459	360000	1422000
31	475	960000	478	102000	459	354000	1416000
AVERAGE	474	952581	477	84387	458	359226	1396194
TOTAL		708720000		62784000		267264000	1038768000

WELL NUMBER 1 AUG 86	WELLHEAD PSIG	TEMPERATURE DEGREES F.	NITROGEN PSIG	ANNULUS PSIG	FLOW LBS/HR	HOURS	AMPS	NPSH FEET	NPSH PSIG	FLOW GPM	POWER CONSUMPTION KW/1,000,000LBS
1	285	335	270	72	409000	24.0	264	504.9	266.4	920.3	536.0
2	287	335	276	71	410000	24.0	265	522.8	272.3	922.5	536.7
3	289	335	281	71	409000	24.0	264	535.5	277.2	920.3	536.0
4	291	335	282	71	409000	24.0	264	538.1	278.1	920.3	536.0
5	290	335	285	71	409000	24.0	264	545.7	281.1	920.3	536.0
6	292	335	286	71	406000	24.0	264	548.3	282.1	913.5	540.0
7	290	335	282	71	405000	24.0	264	538.1	278.1	911.3	541.3
8	289	335	281	71	408000	24.0	264	535.5	277.2	918.0	537.3
9	291	335	284	71	409000	24.0	264	543.2	280.1	920.3	536.0
10	292	335	284	71	407000	24.0	264	543.2	280.1	915.8	538.6
11	291	335	276	70	407000	22.0	267	525.3	272.2	915.8	544.8
12	291	335	288	69	410000	24.0	270	558.5	284.0	922.5	546.8
13	293	335	289	70	409000	24.0	270	558.5	285.0	920.3	548.2
14	292	335	283	69	409000	24.0	266	545.7	279.1	920.3	540.1
15	293	335	281	70	408000	24.0	264	538.1	277.1	918.0	537.3
16	291	335	286	70	407000	24.0	264	550.8	282.1	915.8	538.6
17	290	335	289	70	407000	24.0	262	558.5	285.0	915.8	534.6
18	291	335	287	70	408000	24.0	262	553.4	283.0	918.0	533.2
19	292	335	288	70	408000	24.0	263	555.9	284.0	918.0	535.3
20	292	335	288	70	408000	24.0	264	555.9	284.0	918.0	537.3
21	294	335	288	70	411000	24.0	264	555.9	284.0	924.8	533.4
22	293	335	288	70	407000	24.0	264	555.9	284.0	915.8	538.6
23	292	335	288	70	408000	24.0	264	555.9	284.0	918.0	537.3
24	290	335	288	70	410000	24.0	264	555.9	284.0	922.5	534.7
25	289	335	288	70	406000	24.0	264	555.9	284.0	913.5	540.0
26	291	335	288	62	407000	24.0	264	576.3	283.9	915.8	538.6
27	287	335	285	65	411000	24.0	264	561.0	281.0	924.8	533.4
28	287	335	284	67	411000	24.0	264	553.4	280.0	924.8	533.4
29	287	335	285	67	411000	24.0	264	555.9	281.0	924.8	533.4
30	288	335	287	67	410000	24.0	264	561.0	283.0	922.5	534.7
31	289	335	285	67	411000	24.0	265	555.9	281.0	924.8	535.4
AVERAGE TOTAL	290	335	285	69	408548		264	548	281	919	538
					303142903	742.0					

WELL NUMBER 3 AUG 86	WELLHEAD PSIG	TEMPERATURE DEGREES F.	NITROGEN PSIG	ANNULUS PSIG	FLOW LBS/HR	HOURS	AMPS	NPSH FEET	NPSH PSIG	FLOW GPM	POWER CONSUMPTION KW/1,000,000LBS
1	290	353	267	97	152000	24.0	106	433.5	263.9	342.0	579.1
2	290	353	254	97	153000	24.0	105	400.4	251.1	344.3	569.9
3	295	353	248	96	151000	24.0	105	387.6	245.2	339.8	577.4
4	294	353	245	96	153000	24.0	105	380.0	242.3	344.3	569.9
5	293	353	251	96	153000	24.0	105	395.3	248.2	344.3	569.9
6	296	353	271	96	150000	24.0	105	446.3	267.8	337.5	581.3
7	294	353	270	95	150000	24.0	105	446.3	266.8	337.5	581.3
8	291	353	286	94	151000	24.0	105	489.6	282.5	339.8	577.4
9	292	353	260	94	152000	24.0	105	423.3	257.0	342.0	573.6
10	292	353	268	93	153000	24.0	105	446.3	264.8	344.3	569.9
11	291	353	272	93	154000	22.5	106	456.5	268.7	346.5	571.6
12	291	353	270	92	154000	24.0	106	453.9	266.8	346.5	571.6
13	293	353	260	92	153000	24.0	105	428.4	256.9	344.3	569.9
14	292	354	274	91	154000	24.0	105	466.7	270.7	346.5	566.2
15	291	354	275	90	155000	24.0	105	471.8	271.6	348.8	562.5
16	291	354	272	90	153000	24.0	105	464.1	268.7	344.3	569.9
17	290	353	255	90	152000	24.0	105	420.8	252.0	342.0	573.6
18	290	353	260	89	152000	24.0	106	436.1	256.9	342.0	579.1
19	291	353	264	88	151000	24.0	105	448.8	260.8	339.8	577.4
20	290	353	264	88	151000	24.0	105	448.8	260.8	339.8	577.4
21	295	353	250	88	153000	24.0	105	413.1	247.0	344.3	569.9
22	292	353	262	87	152000	24.0	105	446.3	258.8	342.0	573.6
23	291	353	253	87	152000	24.0	105	423.3	250.0	342.0	573.6
24	290	353	270	87	152000	24.0	105	466.7	266.7	342.0	573.6
25	290	353	270	86	154000	20.7	105	469.2	266.6	346.5	566.2
26	291	353	273	86	154000	24.0	105	476.9	269.6	346.5	566.2
27	289	353	270	86	152000	24.0	106	469.2	266.6	342.0	579.1
28	289	353	270	86	155000	24.0	106	469.2	266.6	348.8	567.9
29	290	354	266	84	155000	24.0	105	464.1	262.7	348.8	562.5
30	290	353	270	85	154000	24.0	106	471.8	266.6	346.5	571.6
31	291	353	268	83	155000	24.0	105	471.8	264.6	348.8	562.5
AVERAGE	291	353	265	90	152742		105	445	262	344	572
TOTAL					112906839	739.2					

WELL NUMBER 4 AUG 86	WELLHEAD PSIG	TEMPERATURE DEGREES F.	NITROGEN PSIG	ANNULUS PSIG	FLOW LBS/HR	HOURS	AMPS	NPSH FEET	NPSH PSIG	FLOW GPM	POWER CONSUMPTION KW/1,000,000LBS
1	346	348	248	82	220000	24.0	286	423.3	245.0	495.0	1079.5
2	347	348	248	81	220000	24.0	288	425.9	245.0	495.0	1087.1
3	345	348	247	80	220000	24.0	286	425.9	244.0	495.0	1079.5
4	343	348	248	80	220000	24.0	287	428.4	244.9	495.0	1083.3
5	344	348	247	80	220000	24.0	290	425.9	244.0	495.0	1094.6
6	345	348	249	80	220000	24.0	287	431.0	245.9	495.0	1093.3
7	344	348	249	80	220000	24.0	288	431.0	245.9	495.0	1087.1
8	344	348	249	80	220000	24.0	288	431.0	245.9	495.0	1087.1
9	344	348	249	79	220000	24.0	288	433.5	245.9	495.0	1087.1
10	344	348	249	78	220000	24.0	288	436.1	245.9	495.0	1087.1
11	345	348	249	79	220000	21.5	289	433.5	245.9	495.0	1090.8
12	345	348	250	79	220000	24.0	289	436.1	246.9	495.0	1090.8
13	344	348	249	79	220000	24.0	289	433.5	245.9	495.0	1090.8
14	344	347	243	78	220000	24.0	290	420.8	240.0	495.0	1094.6
15	344	348	244	78	220000	24.0	289	423.3	241.0	495.0	1090.8
16	344	348	246	78	220000	24.0	289	428.4	242.9	495.0	1090.8
17	344	348	245	78	220000	24.0	289	425.9	242.0	495.0	1090.8
18	344	348	249	78	220000	24.0	289	436.1	245.9	495.0	1090.8
19	344	348	249	78	220000	24.0	289	436.1	245.9	495.0	1090.8
20	345	348	249	78	220000	24.0	289	436.1	245.9	495.0	1090.8
21	345	348	249	78	220000	24.0	289	436.1	245.9	495.0	1090.8
22	345	348	249	77	220000	24.0	290	438.6	245.9	495.0	1094.6
23	345	348	248	77	220000	24.0	290	436.1	244.9	495.0	1094.6
24	345	348	248	77	220000	24.0	290	436.1	244.9	495.0	1094.6
25	345	348	249	76	220000	21.0	290	441.2	245.8	495.0	1094.6
26	342	348	249	77	220000	24.0	290	438.6	245.9	495.0	1094.6
27	344	348	248	77	220000	24.0	289	436.1	244.9	495.0	1090.8
28	345	348	246	77	220000	24.0	288	431.0	242.9	495.0	1087.1
29	346	348	247	76	220000	24.0	288	436.1	243.9	495.0	1087.1
30	345	348	244	75	220000	24.0	289	431.0	240.9	495.0	1090.8
31	344	348	243	75	220000	24.0	290	428.4	239.9	495.0	1094.6
AVERAGE	345	348	248	78	220000		289	432	245	495	1090
TOTAL					162470000	738.5					

WELL NUMBER & AUG 86	WELLHEAD PSIG	TEMPERATURE DEGREES F.	NITROGEN PSIG	ANNULUS PSIG	FLOW LBS/HR	HOURS	AMPS	NPSH FEET	NPSH PSIG	FLOW GPM	POWER CONSUMPTION KW/1,000,000LBS
1	341	350	238	98	204000	24.0	197	357.0	235.4	459.0	801.9
2	342	350	239	98	204000	24.0	199	359.6	236.4	459.0	810.0
3	343	350	238	98	205000	24.0	199	357.0	235.4	461.3	806.1
4	344	350	238	98	202000	24.0	199	357.0	235.4	454.5	818.1
5	342	350	237	98	202000	24.0	197	354.5	234.5	454.5	809.8
6	345	350	238	98	201000	24.0	194	357.0	235.4	452.3	801.5
7	344	350	238	98	200000	24.0	197	357.0	235.4	450.0	817.9
8	342	350	237	97	201000	24.0	198	357.0	234.4	452.3	818.0
9	341	350	237	96	201000	24.0	198	359.6	234.4	452.3	818.0
10	341	350	237	96	202000	24.0	198	359.6	234.4	454.5	814.0
11	341	350	236	96	204000	21.0	199	357.0	233.4	459.0	810.0
12	340	350	238	95	203000	24.0	199	364.7	235.4	456.8	814.0
13	340	350	236	96	202000	24.0	199	357.0	233.4	454.5	818.1
14	339	350	234	97	201000	24.0	198	349.4	231.5	452.3	818.0
15	345	350	239	98	198000	24.0	195	359.6	236.4	445.5	817.8
16	343	350	239	98	199000	24.0	195	359.6	236.4	447.8	813.7
17	343	350	236	97	198000	24.0	197	354.5	233.5	445.5	826.2
18	343	350	239	97	198000	24.0	196	362.1	236.4	445.5	822.0
19	344	350	240	97	196000	24.0	196	364.7	237.4	441.0	830.4
20	344	350	239	98	195000	24.0	197	359.6	236.4	438.8	838.9
21	344	350	239	98	194000	24.0	197	359.6	236.4	436.5	843.2
22	344	350	239	97	195000	24.0	197	362.1	236.4	438.8	838.9
23	343	350	239	97	197000	24.0	194	362.1	236.4	443.3	817.8
24	342	350	238	97	200000	24.0	195	359.6	235.4	450.0	809.6
25	342	350	238	97	200000	24.0	194	359.6	235.4	450.0	805.5
26	341	350	240	96	200000	24.0	197	367.2	237.4	450.0	817.9
27	343	350	238	96	200000	24.0	195	362.1	235.4	450.0	809.6
28	344	350	238	96	197000	24.0	194	362.1	235.4	443.3	817.8
29	344	350	239	96	198000	24.0	194	364.7	236.4	445.5	813.6
30	344	350	240	95	196000	24.0	195	369.8	237.4	441.0	826.2
31	345	350	239	95	196000	24.0	195	367.2	236.4	441.0	826.2
AVERAGE	343	350	238	97	199645		197	360	235	449	818
TOTAL					147937065	741.0					

WELL NUMBER B AUG 86	WELLHEAD PSIG	TEMPERATURE DEGREES F.	NITROGEN PSIG	ANNULUS PSIG	FLOW LBS/HR	HOURS	AMPS	NPSH FEET	NPSH PSIG	FLOW GPM	POWER CONSUMPTION KW/1,000,000LBS
1	291	355	279	44	144000	24.0	115	599.3	274.7	324.0	663.2
2	292	355	304	43	145000	24.0	115	665.6	299.2	326.3	658.6
3	295	355	280	42	144000	24.0	115	606.9	275.7	324.0	663.2
4	295	355	305	41	144000	24.0	115	673.2	300.2	324.0	663.2
5	295	355	285	40	144000	24.0	115	624.8	280.5	324.0	663.2
6	297	355	297	42	143000	24.0	114	650.3	292.3	321.8	662.0
7	295	355	312	39	144000	24.0	115	696.2	307.0	324.0	663.2
8	291	355	288	38	145000	24.0	115	637.5	283.4	326.3	658.6
9	292	355	291	36	144000	24.0	115	650.3	286.3	324.0	663.2
10	292	355	289	36	144000	24.0	115	645.2	284.4	324.0	663.2
11	291	355	295	36	145000	21.5	115	660.5	290.3	326.3	658.6
12	291	355	287	35	145000	24.0	115	642.6	282.4	326.3	658.6
13	292	355	286	33	145000	24.0	115	645.2	281.4	326.3	658.6
14	291	355	290	32	145000	24.0	115	657.9	285.3	326.3	658.6
15	290	355	285	30	145000	24.0	115	650.3	280.3	326.3	658.6
16	291	355	312	33	145000	24.0	115	711.5	306.9	326.3	658.6
17	290	355	290	31	145000	24.0	115	660.5	285.3	326.3	658.6
18	290	355	297	29	145000	24.0	115	683.4	292.1	326.3	658.6
19	290	355	302	27	145000	24.0	114	701.3	297.0	326.3	652.9
20	291	355	306	33	145000	24.0	115	696.2	301.0	326.3	658.6
21	291	355	282	29	145000	24.0	115	645.2	277.4	326.3	658.6
22	291	355	289	27	145000	24.0	115	668.1	284.2	326.3	658.6
23	291	355	288	26	145000	24.0	115	668.1	283.2	326.3	658.6
24	290	355	282	26	145000	24.0	115	652.8	277.3	326.3	658.6
25	290	355	282	26	145000	24.0	115	652.8	277.3	326.3	658.6
26	292	355	287	26	143000	24.0	115	665.6	282.2	321.8	667.8
27	290	355	290	28	145000	24.0	115	668.1	285.2	326.3	658.6
28	290	355	293	26	145000	24.0	115	680.9	288.1	326.3	658.6
29	291	355	294	24	145000	24.0	115	688.5	289.1	326.3	658.6
30	290	355	283	20	145000	24.0	115	670.7	278.2	326.3	658.6
31	291	355	296	21	144000	24.0	115	701.3	291.0	324.0	663.2
AVERAGE	292	355	292	32	144613		115	662	287	325	660
TOTAL					107230468	741.5					

WELL NUMBER 9 AUG B6	WELLHEAD PSIG	TEMPERATURE DEGREES F.	NITROGEN PSIG	ANNULUS PSIG	FLOW LBS/HR	HOURS	ANPS	NPSH FEET	NPSH PSIG	FLOW BPM	POWER CONSUMPTION KW/1,000,000LBS
1	332	349	232	44	128000	24.0	128	479.4	228.6	288.0	830.4
2	333	349	239	45	128000	24.0	128	494.7	235.5	288.0	830.4
3	335	349	239	45	128000	24.0	129	494.7	235.5	288.0	836.9
4	334	349	240	41	128000	24.0	128	507.5	236.4	288.0	830.4
5	335	349	239	43	128000	24.0	128	499.8	235.4	288.0	830.4
6	336	349	236	47	127000	24.0	128	482.0	232.6	285.8	836.9
7	334	349	238	44	128000	24.0	128	494.7	234.5	288.0	830.4
8	331	349	236	46	129000	24.0	128	484.5	232.5	290.3	824.0
9	331	349	237	43	129000	24.0	129	494.7	233.5	290.3	830.4
10	331	348	237	44	129000	24.0	129	492.2	233.5	290.3	830.4
11	331	349	234	42	128000	21.0	129	489.6	230.5	288.0	836.9
12	333	349	240	41	129000	24.0	129	507.5	236.4	290.3	830.4
13	333	349	238	40	129000	24.0	129	504.9	234.4	290.3	830.4
14	332	348	238	41	129000	24.0	129	502.4	234.4	290.3	830.4
15	331	349	239	42	129000	24.0	129	502.4	235.4	290.3	830.4
16	331	349	240	44	129000	24.0	129	499.8	236.4	290.3	830.4
17	331	349	240	43	129000	24.0	129	502.4	236.4	290.3	830.4
18	331	349	240	41	129000	24.0	129	507.5	236.4	290.3	830.4
19	330	349	240	40	129000	24.0	128	510.0	236.4	290.3	824.0
20	331	349	239	42	129000	24.0	129	502.4	235.4	290.3	830.4
21	332	349	238	42	130000	24.0	129	499.8	234.4	292.5	824.0
22	332	349	239	39	129000	24.0	129	510.0	235.4	290.3	830.4
23	331	349	239	42	129000	24.0	129	502.4	235.4	290.3	830.4
24	330	349	238	47	130000	24.0	130	487.1	234.5	292.5	830.4
25	330	349	238	43	129000	24.0	129	497.3	234.4	290.3	830.4
26	330	349	240	40	129000	24.0	129	510.0	236.4	290.3	830.4
27	332	349	237	39	128000	24.0	129	504.9	233.4	288.0	836.9
28	332	349	239	39	128000	24.0	130	510.0	235.4	288.0	843.4
29	333	349	238	38	128000	24.0	129	510.0	234.4	288.0	836.9
30	333	349	235	40	128000	24.0	129	497.3	231.4	288.0	836.9
31	333	349	240	34	128000	24.0	130	525.3	236.2	288.0	843.4
AVERAGE TOTAL	332	349	238	42	128613		129	500	235	289	832
					95302161	741.0					

WELL NUMBER	WELLHEAD	TEMPERATURE	NITROGEN	ANNULUS	FLOW	HOURS	AMPS	NPSH	NPSH	FLOW	POWER CONSUMPTION
AUG 86	PSIG	DEGREES F.	PSIG	PSIG	LBS/HR			FEET	PSIG	GPM	KW/1,000,000LBS
1	286	347	267	92	131000	24	120	446.3	263.8	294.8	760.7
2	287	347	259	90	131000	24	120	431.0	255.9	294.8	760.7
3	291	347	268	90	131000	24	120	453.9	264.8	294.8	760.7
4	290	347	266	90	131000	22.6	121	448.8	262.8	294.8	767.0
5	284	347	266	90	131000	24	121	448.8	262.8	294.8	767.0
6	286	347	280	90	131000	24	121	484.5	276.5	294.8	767.0
7	284	347	271	90	131000	24	121	461.6	267.7	294.8	767.0
8	280	347	274	90	132000	24	120	469.2	270.6	297.0	754.9
9	280	347	273	91	131000	24	120	464.1	269.7	294.8	760.7
10	281	347	271	91	131000	24	120	459.0	267.7	294.8	760.7
11	281	347	277	90	131000	21.5	121	476.9	273.6	294.8	767.0
12	283	347	280	90	131000	24	121	484.5	276.5	294.8	767.0
13	284	347	276	90	131000	24	121	474.3	272.6	294.8	767.0
14	282	347	278	92	130000	24	121	474.3	274.6	292.5	772.9
15	282	347	280	92	130000	24	121	479.4	276.6	292.5	772.9
16	281	347	267	91	131000	24	120	448.8	263.8	294.8	760.7
17	281	347	277	91	130000	24	120	474.3	273.6	292.5	766.5
18	281	347	268	90	130000	24	121	453.9	264.8	292.5	772.9
19	282	347	263	90	130000	24	120	441.2	259.8	292.5	766.5
20	282	347	274	91	129000	24	120	466.7	270.7	290.3	772.5
21	284	347	276	90	130000	24	120	474.3	272.6	292.5	766.5
22	283	347	261	90	130000	24	120	436.1	257.9	292.5	766.5
23	283	347	278	92	129000	24	121	474.3	274.6	290.3	778.9
24	282	347	277	92	129000	24	120	471.8	273.6	290.3	772.5
25	282	347	275	92	129000	24	119	466.7	271.7	290.3	766.0
26	283	347	280	91	129000	24	119	482.0	276.6	290.3	766.0
27	280	347	270	92	130000	24	119	453.9	266.8	292.5	760.1
28	282	347	276	92	129000	24	119	469.2	272.6	290.3	766.0
29	282	347	274	92	129000	24	119	464.1	270.7	290.3	766.0
30	283	347	270	91	128000	24	119	456.5	266.7	288.0	772.0
31	284	347	280	92	129000	24	119	479.4	276.6	290.3	766.0
AVERAGE	283	347	273	91	130161		120	464	269	293	766
TOTAL					96332371	740.1					