



STATE OF NEW MEXICO
ENERGY, MINERALS and NATURAL RESOURCES DIVISION
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

FILED
JUL 28 1995
AZTEC, N.M.

BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6176

Date: 7/28/95

Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87504-2088

RE: Proposed MC _____
Proposed NSL _____
Proposed WFX _____
Proposed NSP _____

Inj. Press. increase.
Proposed DHC _____
Proposed SWD _____
Proposed PMX _____
Proposed DD _____

Gentlemen:

I have examined the application received on 7/26/95
for the 21st Century OPERATOR Navajo Tr. C #1
L-24-32N-18W
Navajo #7 LEASE & WELL NO.
E-24-32-18
#

_____ and my recommendations are as follows:
UL-S-T-R

Recommended approval.

Yours truly,

[Signature]

**WALSH**

ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting
Lease Management
Contract Pumping7415 East Main
Farmington, New Mexico 87402
(505) 327-4882

July 24, 1995

Mr. Frank Chavez
NMOCD
1000 Rio Brazos Road
Aztec, NM 87410

RECEIVED
JUL 26 1995

Re: Mesa Gallup Unit
Step Rate Injection Tests

OIL CON. DIV.
DIST. 3

Dear Mr. Chavez,

On July 10, 1995, step rate injection tests were performed on Mesa Gallup Unit #9 (Navajo #7) and Mesa Gallup Unit #21 (Navajo #C1). Both of these wells were recently converted from producing wells to injectors as part of an expansion of the Mesa Gallup waterflood project.

The data from the bottom hole pressure recorder indicates that a surface pressure of approximately 725 to 740 psig is equal to the parting pressure of the Gallup formation. As a result of these tests, 21st Century Investments requests administrative approval for a maximum field wide injection pressure of 725 psig.

Attached for your information and review are copies of the Halliburton job log and the bottomhole pressure data from Tefteller.

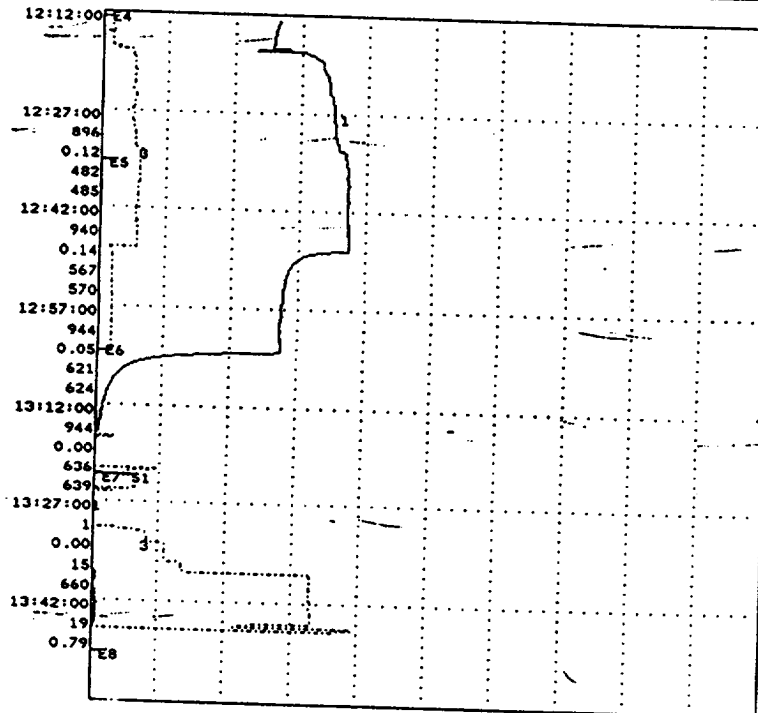
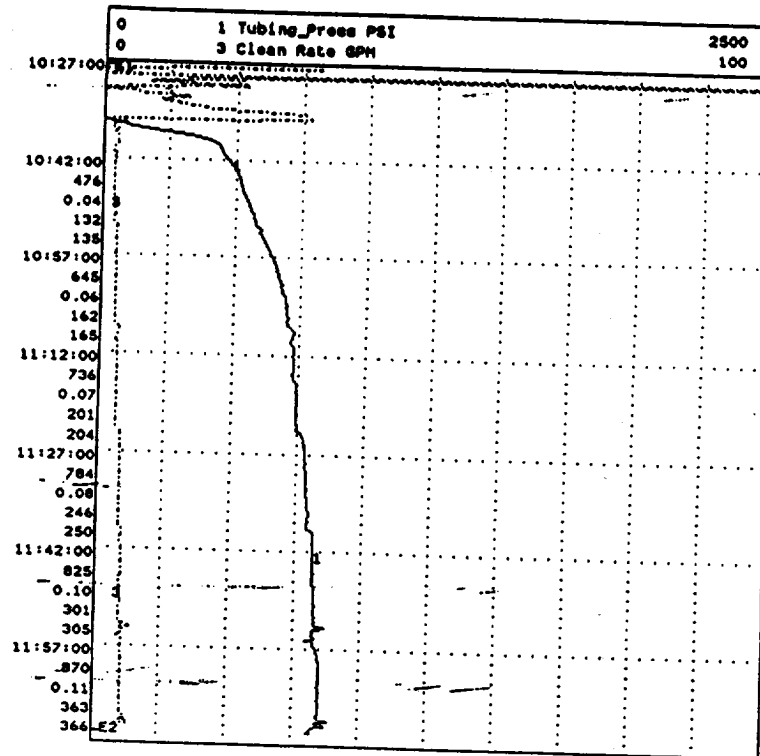
Please call if you have any questions or need additional data.

Sincerely,

Paul C. Thompson, P.E.

cc: 21 Century

1. Time
2. Max Tubing Press PSI
3. Clean Rate BPM
4. Ste Clean Total GAL
5. Clean Total GAL

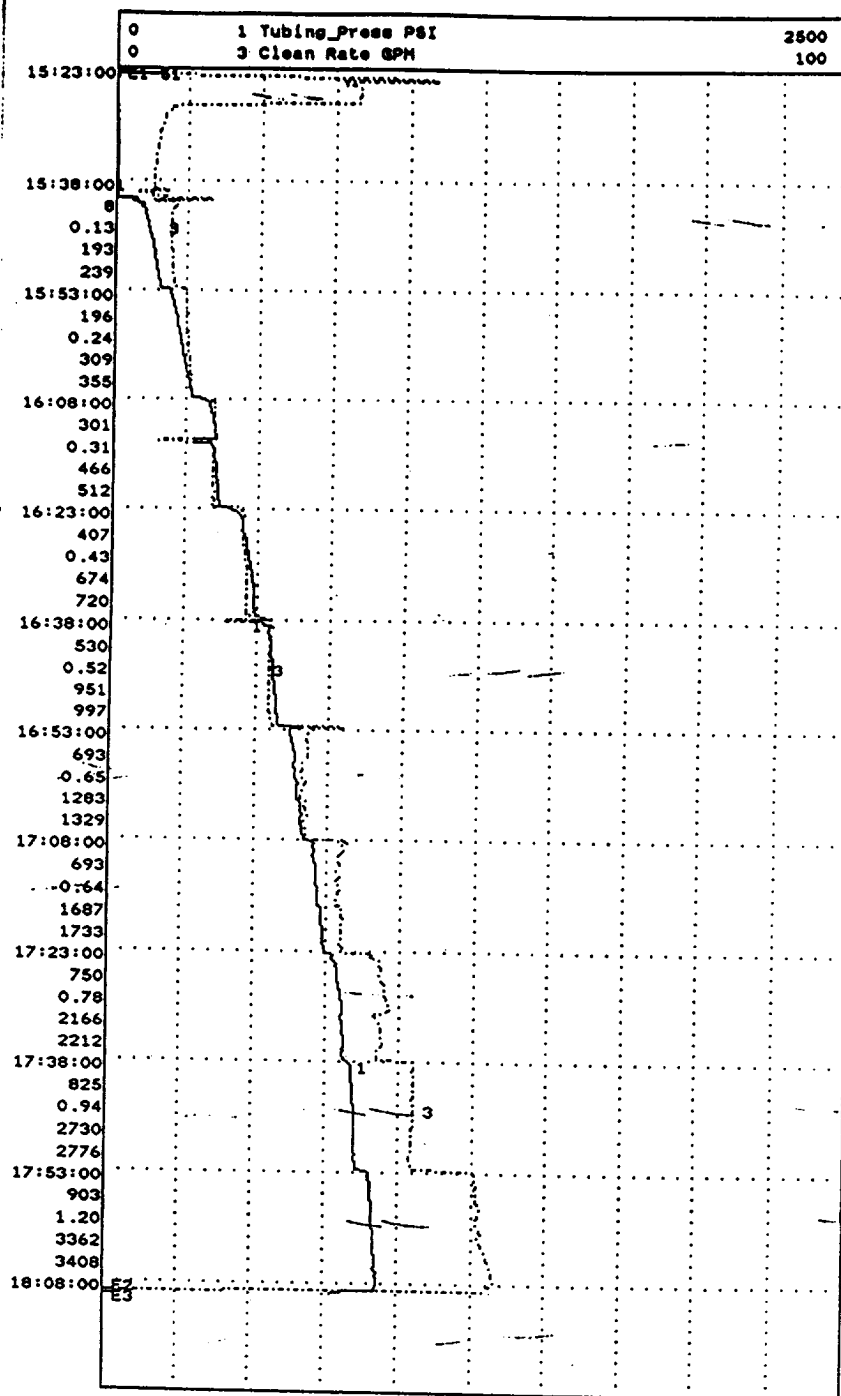


HALLIBURTON DATA LOG
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COMPUAC Ver. 1.54 7/10/95

Customer: WALSH ENGINEERING
Contractor: _____
Lease: MESA GALLUP
Location: _____
Field: _____
Country: USA
County: SAN JUAN
Job Type: STEP RATE TEST

Ticket Number: 775988
Permit Number: _____
Well #: 21
Sec.: 15 NE
Twn.: 32 N
Rng.: 18W
State: NM

2. Max Tubing Press PSI
3. Clean Rate GPM
4. Stg Clean Total GAL
5. Clean Total GAL

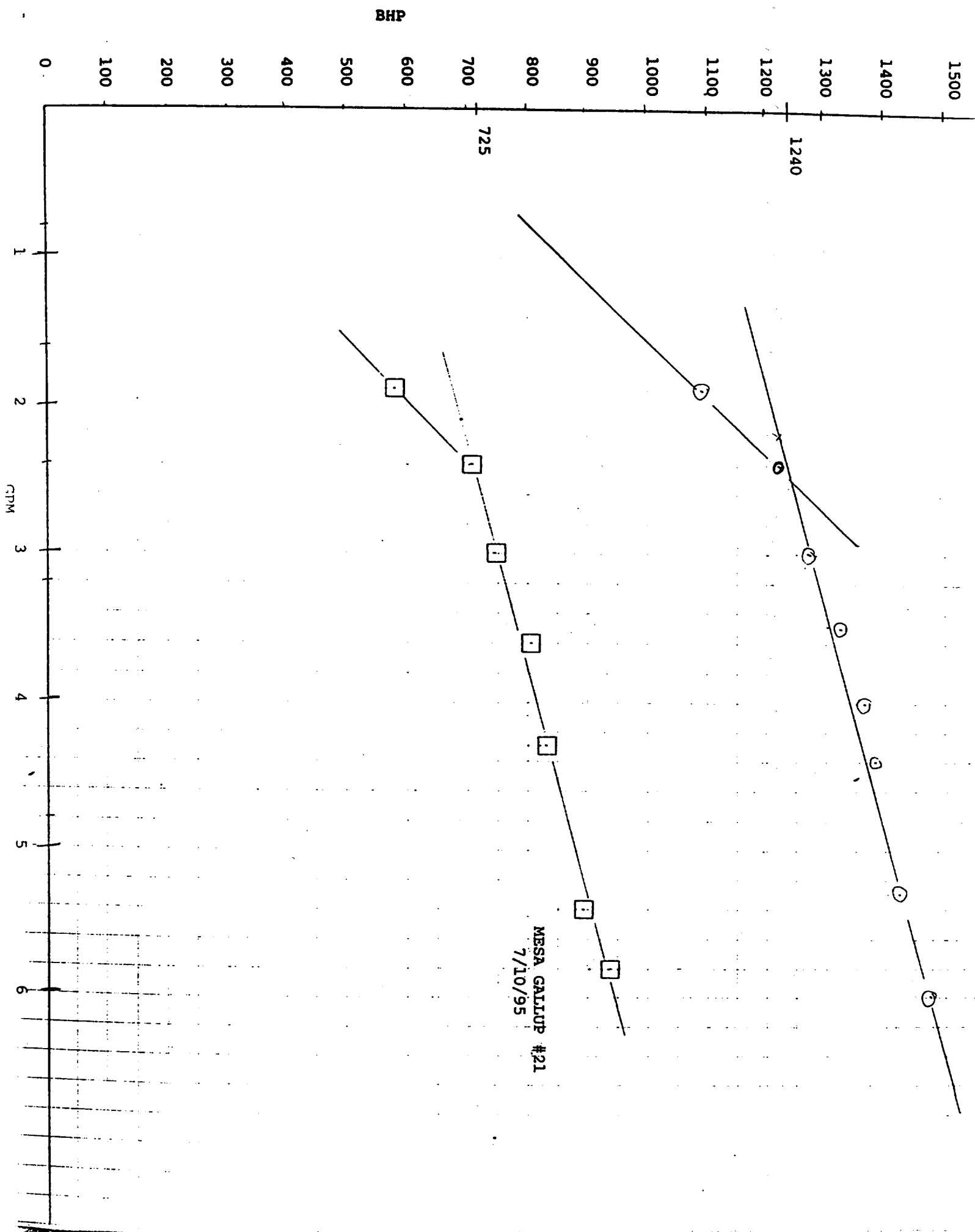


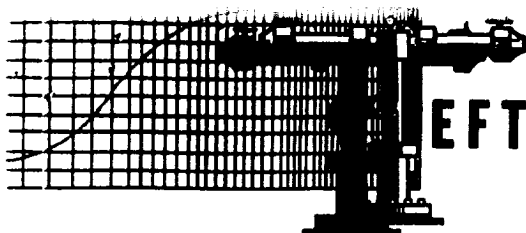
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COMPUPAC Ver. 1.54 7/10/95

Customer:	WALSH ENGINEERING	Ticket Number:	775989
Contractor:		Permit Number:	
Lease:	NAVAJO	Well #:	9
Location:		Sec.:	24
Field:		Twn.:	32N
Country:	USA	Rng.:	18 W
County:	SAN JUAN	State:	NM
Job Type:	STEP RATE		





SWP • SU • PL • DD • GWT • SPS • GOR • PL • TS

EFTELLER, INC.

reservoir engineering data

FARMINGTON, NEW MEXICO / MIDLAND, TEXAS
GRAND JUNCTION, COLORADO

P. O. Box 1198
Farmington, New Mexico 87499
(505) 325-1731

Farmington Fax (505) 325-1148
Midland Fax (915) 682-5329
Grand Junction Fax (303) 241-7634

21ST CENTURY

MESA GALLUP UNIT NO. 21

JULY 10, 1995

Serving the Rocky Mountain Area & Permian Basin Area

Page A

Gauge Identification

Gauge Setup Parameters

```

Probe Set Up Time ..... 7/10/95    7:42: 0
Time Delay to First Reading ....
Test Type Selection ..... STEP RATE TEST
Test Duration Selection ..... 5 HOURS

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COMPANY: 21ST CENTURY

PAGE 1 OF 11

WELL NAME : MESA GALLUP UNIT NO. 21

DATE : 07/18/95

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F153711.SG1

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
07/10	07:42:00	.0000	.01	73.62		
07/10	07:44:15	.0375	.01	79.01		
07/10	10:26:30	2.7417	.01	101.73		
07/10	10:26:45	2.7458	21.90	101.00		
07/10	10:27:00	2.7500	72.19	100.26		
07/10	10:27:15	2.7542	115.96	99.53		
07/10	10:27:30	2.7583	152.81	98.80		
07/10	10:27:45	2.7625	167.27	98.07		
07/10	10:28:45	2.7792	167.29	95.14		INSTRUMENT @ 1220'
07/10	10:29:00	2.7833	168.42	94.41		
07/10	10:29:15	2.7875	169.48	93.52		
07/10	10:29:30	2.7917	169.48	92.98		
07/10	10:29:45	2.7958	168.43	92.20		
07/10	10:30:00	2.8000	168.40	91.53		
07/10	10:30:15	2.8042	169.88	90.88		
07/10	10:30:30	2.8083	175.79	90.22		
07/10	10:30:45	2.8125	180.23	89.55		
07/10	10:31:00	2.8167	182.87	88.89		
07/10	10:31:15	2.8208	185.40	88.24		
07/10	10:31:30	2.8250	188.37	87.58		
07/10	10:31:45	2.8292	193.02	86.92		
07/10	10:32:00	2.8333	200.36	86.26		
07/10	10:32:15	2.8375	214.14	85.82		
07/10	10:32:30	2.8417	224.69	85.51		
07/10	10:32:45	2.8458	231.25	85.21		
07/10	10:33:00	2.8500	236.94	84.91		
07/10	10:33:15	2.8542	241.65	84.61		
07/10	10:33:30	2.8583	245.76	84.31		
07/10	10:33:45	2.8625	252.05	84.00		
07/10	10:34:00	2.8667	262.33	83.70		
07/10	10:34:15	2.8708	272.89	83.40		
07/10	10:34:30	2.8750	283.34	83.10		
07/10	10:34:45	2.8792	295.15	82.80		
07/10	10:35:00	2.8833	308.77	82.49		
07/10	10:35:15	2.8875	325.23	82.29		
07/10	10:35:30	2.8917	344.32	82.17		
07/10	10:35:45	2.8958	370.34	82.04		
07/10	10:36:00	2.9000	405.77	81.90		
07/10	10:36:15	2.9042	442.95	81.78		
07/10	10:36:30	2.9083	478.99	81.64		
07/10	10:36:45	2.9125	507.27	81.51		
07/10	10:37:00	2.9167	516.03	81.39		
07/10	10:37:15	2.9208	533.22	81.25		
07/10	10:37:30	2.9250	566.27	81.13		
07/10	10:37:45	2.9292	596.37	81.00		
07/10	10:38:00	2.9333	619.74	80.86		
07/10	10:38:15	2.9375	648.64	80.78		
07/10	10:38:30	2.9417	689.53	80.73		
07/10	10:38:45	2.9458	739.74	80.68		
07/10	10:39:00	2.9500	788.10	80.63		
07/10	10:39:15	2.9542	834.55	80.58		
07/10	10:39:30	2.9583	874.07	80.52		
07/10	10:39:45	2.9625	905.81	80.47		
07/10	10:40:00	2.9667	927.47	80.42		
07/10	10:40:15	2.9708	944.41	80.37		
07/10	10:40:30	2.9750	954.67	80.32		
07/10	10:40:45	2.9792	962.69	80.27		
07/10	10:41:00	2.9833	971.03	80.21		
07/10	10:41:30	2.9917	971.14	80.17		
07/10	10:41:45	2.9958	976.91	80.15		
07/10	10:42:00	3.0000	972.42	80.13		
07/10	10:42:15	3.0042	987.67	80.11		
07/10	10:42:30	3.0083	986.35	80.09		
07/10	10:42:45	3.0125	993.93	80.08		
07/10	10:43:00	3.0167	999.63	80.06		INJECTING WATER

COMPANY: 21ST CENTURY

PAGE 2 OF 11

WELL NAME : MESA GALLUP UNIT NO. 21

DATE : 07/18/95

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F153711.SG1

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
07/10	10:43:15	3.0208	1003.59	80.04		
07/10	10:43:30	3.0250	1008.14	80.02		
07/10	10:43:45	3.0292	1013.63	80.00		
07/10	10:44:00	3.0333	1018.52	79.98		
07/10	10:44:15	3.0375	1021.92	79.96		
07/10	10:44:30	3.0417	1026.59	79.93		
07/10	10:44:45	3.0458	1029.83	79.91		
07/10	10:45:00	3.0500	1032.25	79.88		
07/10	10:45:15	3.0542	1034.78	79.86		
07/10	10:45:30	3.0583	1037.86	79.83		
07/10	10:45:45	3.0625	1039.84	79.81		
07/10	10:46:00	3.0667	1044.51	79.78		
07/10	10:46:15	3.0708	1047.36	79.76		
07/10	10:46:30	3.0750	1047.33	79.73		
07/10	10:46:45	3.0792	1048.47	79.70		
07/10	10:47:00	3.0833	1050.67	79.68		
07/10	10:47:15	3.0875	1052.76	79.64		
07/10	10:47:30	3.0917	1051.62	79.60		
07/10	10:47:45	3.0958	1055.30	79.55		
07/10	10:48:00	3.1000	1056.02	79.51		
07/10	10:48:15	3.1042	1061.03	79.46		
07/10	10:48:30	3.1083	1062.19	79.42		
07/10	10:48:45	3.1125	1067.69	79.37		
07/10	10:49:00	3.1167	1068.41	79.33		
07/10	10:49:15	3.1208	1071.49	79.29		
07/10	10:49:30	3.1250	1071.42	79.25		
07/10	10:49:45	3.1292	1075.29	79.20		
07/10	10:50:00	3.1333	1075.31	79.16		
07/10	10:50:15	3.1375	1081.62	79.09		
07/10	10:50:30	3.1417	1080.92	79.04		
07/10	10:50:45	3.1458	1084.72	78.99		
07/10	10:51:00	3.1500	1084.71	78.94		
07/10	10:51:15	3.1542	1089.57	78.88		
07/10	10:51:30	3.1583	1090.35	78.82		
07/10	10:51:45	3.1625	1090.40	78.76		
07/10	10:52:00	3.1667	1095.31	78.71		
07/10	10:52:15	3.1708	1095.93	78.65		
07/10	10:52:30	3.1750	1099.28	78.60		
07/10	10:52:45	3.1792	1097.81	78.54		
07/10	10:53:00	3.1833	1097.75	78.49		
07/10	10:53:15	3.1875	1105.69	78.43		
07/10	10:53:30	3.1917	1119.65	78.37		
07/10	10:53:45	3.1958	1120.31	78.32		
07/10	10:54:00	3.2000	1114.07	78.25		
07/10	10:54:15	3.2042	1112.43	78.20		
07/10	10:54:30	3.2083	1121.23	78.15		
07/10	10:54:45	3.2125	1127.34	78.08		
07/10	10:55:00	3.2167	1127.41	78.03		
07/10	10:55:15	3.2208	1132.96	77.97		
07/10	10:55:30	3.2250	1132.95	77.93		
07/10	10:55:45	3.2292	1137.43	77.86		
07/10	10:56:00	3.2333	1140.52	77.80		
07/10	10:56:15	3.2375	1143.44	77.74		
07/10	10:56:30	3.2417	1144.77	77.69		
07/10	10:56:45	3.2458	1149.12	77.63		
07/10	10:57:00	3.2500	1152.81	77.57		
07/10	10:57:15	3.2542	1155.14	77.51		
07/10	10:57:30	3.2583	1155.08	77.45		
07/10	10:57:45	3.2625	1159.28	77.39		
07/10	10:58:00	3.2667	1166.98	77.33		
07/10	10:58:15	3.2708	1166.92	77.27		
07/10	10:58:30	3.2750	1173.99	77.21		
07/10	10:58:45	3.2792	1172.02	77.15		
07/10	10:59:00	3.2833	1176.43	77.10		
07/10	10:59:15	3.2875	1176.93	77.04		

RATE #1 - 1.9 GPM

COMPANY: 21ST CENTURY

PAGE 3 OF 11

WELL NAME : MESA GALLUP UNIT NO. 21

DATE : 07/18/95

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F153711.SG1

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
07/10	10:59:30	3.2917	1183.16	76.99		
07/10	10:59:45	3.2958	1181.74	76.94		
07/10	11:00:00	3.3000	1187.74	76.89		
07/10	11:00:15	3.3042	1185.22	76.84		
07/10	11:00:30	3.3083	1190.78	76.79		
07/10	11:00:45	3.3125	1189.80	76.74		
07/10	11:01:00	3.3167	1193.05	76.69		
07/10	11:01:15	3.3208	1191.42	76.64		
07/10	11:01:30	3.3250	1197.86	76.59		
07/10	11:01:45	3.3292	1198.69	76.54		
07/10	11:02:00	3.3333	1200.74	76.49		
07/10	11:02:15	3.3375	1200.71	76.46		
07/10	11:02:30	3.3417	1202.89	76.44		
07/10	11:02:45	3.3458	1198.27	76.43		
07/10	11:03:00	3.3500	1204.99	76.41		
07/10	11:03:15	3.3542	1205.06	76.39		
07/10	11:03:30	3.3583	1209.78	76.37		
07/10	11:03:45	3.3625	1212.36	76.36		
07/10	11:04:00	3.3667	1217.48	76.34		
07/10	11:04:15	3.3708	1213.80	76.33		
07/10	11:04:30	3.3750	1219.96	76.31		
07/10	11:04:45	3.3792	1220.90	76.29		
07/10	11:05:00	3.3833	1220.97	76.27		
07/10	11:05:15	3.3875	1222.06	76.27		
07/10	11:05:30	3.3917	1223.00	76.26		
07/10	11:05:45	3.3958	1223.77	76.26		
07/10	11:06:00	3.4000	1222.23	76.26		
07/10	11:06:15	3.4042	1227.84	76.26		
07/10	11:06:30	3.4083	1223.05	76.26		
07/10	11:06:45	3.4125	1229.98	76.26		
07/10	11:07:00	3.4167	1222.56	76.26		
07/10	11:07:15	3.4208	1231.08	76.25		
07/10	11:07:30	3.4250	1223.49	76.25		
07/10	11:07:45	3.4292	1229.93	76.25		
07/10	11:08:00	3.4333	1223.94	76.24		
07/10	11:08:15	3.4375	1230.42	76.24		
07/10	11:08:30	3.4417	1224.87	76.26		
07/10	11:08:45	3.4458	1247.25	76.26		
07/10	11:09:00	3.4500	1244.71	76.28		
07/10	11:09:15	3.4542	1253.68	76.29		
07/10	11:09:30	3.4583	1256.48	76.30		
07/10	11:09:45	3.4625	1256.50	76.31		
07/10	11:10:00	3.4667	1251.91	76.32		
07/10	11:10:15	3.4708	1249.27	76.33		
07/10	11:10:30	3.4750	1244.54	76.34		
07/10	11:10:45	3.4792	1248.33	76.35		
07/10	11:11:00	3.4833	1241.73	76.36		
07/10	11:11:15	3.4875	1249.10	76.37		
07/10	11:11:30	3.4917	1255.09	76.39		
07/10	11:11:45	3.4958	1257.67	76.41		
07/10	11:12:00	3.5000	1255.96	76.43		
07/10	11:12:15	3.5042	1253.42	76.46		
07/10	11:12:30	3.5083	1253.37	76.48		
07/10	11:12:45	3.5125	1256.33	76.50		
07/10	11:13:00	3.5167	1257.31	76.52		
07/10	11:13:15	3.5208	1257.80	76.54		
07/10	11:13:30	3.5250	1256.04	76.56		
07/10	11:13:45	3.5292	1252.52	76.58		
07/10	11:14:00	3.5333	1256.96	76.61		
07/10	11:14:15	3.5375	1259.27	76.63		
07/10	11:14:30	3.5417	1259.76	76.66		
07/10	11:14:45	3.5458	1255.96	76.69		
07/10	11:15:00	3.5500	1253.59	76.71		
07/10	11:15:15	3.5542	1256.94	76.74		
07/10	11:15:30	3.5583	1256.96	76.77		

RATE #2 - 2.4 GPM

COMPANY: 21ST CENTURY

PAGE 4 OF 11

WELL NAME : MESA GALLUP UNIT NO. 21

DATE : 07/18/95

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F153711.SG1

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
07/10	11:15:45	3.5625	1251.48	76.80		
07/10	11:16:00	3.5667	1258.46	76.83		
07/10	11:16:15	3.5708	1255.92	76.86		
07/10	11:16:30	3.5750	1258.23	76.88		
07/10	11:16:45	3.5792	1257.06	76.91		
07/10	11:17:00	3.5833	1267.84	76.94		
07/10	11:17:15	3.5875	1269.81	76.97		
07/10	11:17:30	3.5917	1270.74	77.00		
07/10	11:17:45	3.5958	1272.22	77.03		
07/10	11:18:00	3.6000	1267.48	77.06		
07/10	11:18:15	3.6042	1273.20	77.09		
07/10	11:19:00	3.6167	1273.40	77.18		
07/10	11:19:15	3.6208	1270.42	77.21		
07/10	11:19:30	3.6250	1268.05	77.25		
07/10	11:19:45	3.6292	1271.56	77.27		
07/10	11:20:00	3.6333	1271.51	77.31		
07/10	11:20:15	3.6375	1269.73	77.33		
07/10	11:20:30	3.6417	1267.64	77.36		
07/10	11:20:45	3.6458	1271.81	77.39		
07/10	11:21:00	3.6500	1271.81	77.41		
07/10	11:21:15	3.6542	1270.97	77.44		
07/10	11:21:30	3.6583	1268.55	77.47		
07/10	11:21:45	3.6625	1272.34	77.50		
07/10	11:22:15	3.6708	1272.43	77.56		
07/10	11:22:30	3.6750	1269.18	77.59		
07/10	11:22:45	3.6792	1274.62	77.61		
07/10	11:23:00	3.6833	1274.56	77.64		
07/10	11:23:15	3.6875	1270.37	77.68		
07/10	11:23:30	3.6917	1276.69	77.70		
07/10	11:23:45	3.6958	1277.84	77.73		
07/10	11:24:00	3.7000	1272.78	77.75		
07/10	11:24:15	3.7042	1277.67	77.78		
07/10	11:24:30	3.7083	1276.12	77.80		
07/10	11:24:45	3.7125	1295.75	77.82		
07/10	11:25:00	3.7167	1298.11	77.85		
07/10	11:25:15	3.7208	1303.55	77.88		
07/10	11:25:30	3.7250	1302.11	77.90		
07/10	11:25:45	3.7292	1302.15	77.93		
07/10	11:26:00	3.7333	1303.81	77.96		
07/10	11:26:15	3.7375	1305.01	77.97		
07/10	11:26:30	3.7417	1308.03	78.00		
07/10	11:26:45	3.7458	1309.73	78.02		
07/10	11:27:00	3.7500	1310.83	78.04		
07/10	11:27:15	3.7542	1310.11	78.07		
07/10	11:27:30	3.7583	1307.30	78.09		
07/10	11:27:45	3.7625	1307.32	78.11		
07/10	11:28:00	3.7667	1308.33	78.13		
07/10	11:28:15	3.7708	1309.87	78.16		
07/10	11:28:30	3.7750	1311.95	78.18		
07/10	11:28:45	3.7792	1311.34	78.20		
07/10	11:29:00	3.7833	1312.77	78.23		
07/10	11:29:15	3.7875	1314.69	78.25		
07/10	11:29:30	3.7917	1313.36	78.27		
07/10	11:29:45	3.7958	1311.76	78.29		
07/10	11:30:00	3.8000	1311.79	78.31		
07/10	11:30:15	3.8042	1313.46	78.33		
07/10	11:30:30	3.8083	1315.82	78.35		
07/10	11:30:45	3.8125	1315.76	78.37		
07/10	11:31:00	3.8167	1316.53	78.39		
07/10	11:31:15	3.8208	1318.89	78.41		
07/10	11:31:30	3.8250	1318.33	78.43		
07/10	11:31:45	3.8292	1315.85	78.45		
07/10	11:32:00	3.8333	1314.64	78.47		
07/10	11:32:15	3.8375	1316.45	78.49		
07/10	11:32:30	3.8417	1318.04	78.51		

RATE #3 - 3.0 GPM

COMPANY: 21ST CENTURY

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WELL NAME : MESA GALLUP UNIT NO. 21

DATE : 07/18/95

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F153711.SG1

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
07/10	11:32:45	3.8458	1317.96	78.53		
07/10	11:33:00	3.8500	1319.02	78.56		
07/10	11:33:15	3.8542	1317.69	78.57		
07/10	11:33:30	3.8583	1314.94	78.60		
07/10	11:33:45	3.8625	1316.31	78.62		
07/10	11:34:00	3.8667	1317.51	78.64		
07/10	11:34:15	3.8708	1318.28	78.66		
07/10	11:34:30	3.8750	1319.87	78.68		
07/10	11:34:45	3.8792	1319.86	78.69		
07/10	11:35:00	3.8833	1321.95	78.73		
07/10	11:35:15	3.8875	1323.81	78.75		
07/10	11:35:30	3.8917	1325.07	78.77		
07/10	11:36:00	3.9000	1324.88	78.81		
07/10	11:36:15	3.9042	1326.33	78.83		
07/10	11:36:30	3.9083	1325.71	78.86		
07/10	11:37:15	3.9208	1325.69	78.92		
07/10	11:37:30	3.9250	1326.41	78.95		
07/10	11:38:15	3.9375	1326.28	79.03		
07/10	11:38:30	3.9417	1323.53	79.05		
07/10	11:38:45	3.9458	1321.70	79.07		
07/10	11:39:00	3.9500	1322.64	79.09		
07/10	11:39:15	3.9542	1323.29	79.12		
07/10	11:39:30	3.9583	1324.77	79.14		
07/10	11:39:45	3.9625	1339.06	79.17		
07/10	11:40:00	3.9667	1344.56	79.19		
07/10	11:40:15	3.9708	1345.60	79.22		
07/10	11:40:30	3.9750	1346.31	79.24		
07/10	11:40:45	3.9792	1349.00	79.26		
07/10	11:41:00	3.9833	1348.00	79.29		
07/10	11:41:15	3.9875	1348.71	79.32		
07/10	11:41:30	3.9917	1349.58	79.35		
07/10	11:41:45	3.9958	1347.05	79.37		
07/10	11:42:00	4.0000	1350.12	79.40		
07/10	11:42:15	4.0042	1348.41	79.43		
07/10	11:42:30	4.0083	1352.04	79.46		
07/10	11:42:45	4.0125	1352.52	79.49		
07/10	11:43:00	4.0167	1346.68	79.52		
07/10	11:43:15	4.0208	1346.64	79.54		
07/10	11:43:30	4.0250	1347.77	79.57		
07/10	11:43:45	4.0292	1346.61	79.60		
07/10	11:44:00	4.0333	1347.98	79.63		
07/10	11:44:15	4.0375	1350.06	79.66		
07/10	11:44:30	4.0417	1346.59	79.69		
07/10	11:44:45	4.0458	1349.22	79.72		
07/10	11:45:00	4.0500	1350.09	79.75		
07/10	11:45:15	4.0542	1348.22	79.78		
07/10	11:45:30	4.0583	1349.86	79.81		
07/10	11:45:45	4.0625	1351.01	79.84		
07/10	11:46:00	4.0667	1350.40	79.87		
07/10	11:46:15	4.0708	1351.66	79.89		
07/10	11:46:30	4.0750	1352.86	79.93		
07/10	11:46:45	4.0792	1350.54	79.96		
07/10	11:47:00	4.0833	1352.13	79.98		
07/10	11:47:15	4.0875	1351.35	80.01		
07/10	11:47:30	4.0917	1351.29	80.04		
07/10	11:47:45	4.0958	1353.32	80.08		
07/10	11:48:00	4.1000	1350.83	80.11		
07/10	11:48:15	4.1042	1353.85	80.14		
07/10	11:48:30	4.1083	1354.73	80.17		
07/10	11:48:45	4.1125	1353.45	80.20		
07/10	11:49:00	4.1167	1355.59	80.24		
07/10	11:49:15	4.1208	1353.71	80.27		
07/10	11:49:30	4.1250	1354.86	80.30		
07/10	11:49:45	4.1292	1354.88	80.33		
07/10	11:50:00	4.1333	1354.29	80.36		

RATE #4 - 3.5 GPM

COMPANY: 21ST CENTURY

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WELL NAME : MESA GALLUP UNIT NO. 21

DATE : 07/18/95

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F153711.SG1

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
07/10	11:50:15	4.1375	1356.76	80.39		
07/10	11:50:30	4.1417	1355.49	80.42		
07/10	11:50:45	4.1458	1358.18	80.45		
07/10	11:51:00	4.1500	1359.22	80.48		
07/10	11:51:15	4.1542	1357.72	80.52		
07/10	11:51:30	4.1583	1358.49	80.54		
07/10	11:51:45	4.1625	1359.91	80.58		
07/10	11:52:00	4.1667	1357.43	80.61		
07/10	11:52:15	4.1708	1358.19	80.64		
07/10	11:52:30	4.1750	1359.61	80.67		
07/10	11:52:45	4.1792	1357.18	80.70		
07/10	11:53:00	4.1833	1359.54	80.73		
07/10	11:53:15	4.1875	1358.82	80.75		
07/10	11:53:30	4.1917	1358.82	80.78		
07/10	11:53:45	4.1958	1360.51	80.82		
07/10	11:54:00	4.2000	1358.03	80.85		
07/10	11:54:15	4.2042	1360.94	80.88		
07/10	11:54:30	4.2083	1361.86	80.91		
07/10	11:54:45	4.2125	1366.37	80.94		
07/10	11:55:00	4.2167	1412.80	80.97		
07/10	11:55:15	4.2208	1347.10	81.00		
07/10	11:55:30	4.2250	1365.90	81.04		
07/10	11:55:45	4.2292	1348.13	81.06		
07/10	11:56:00	4.2333	1354.28	81.10		
07/10	11:56:15	4.2375	1372.43	81.13		
07/10	11:56:30	4.2417	1328.37	81.16		
07/10	11:56:45	4.2458	1338.86	81.19		
07/10	11:57:00	4.2500	1360.69	81.22		
07/10	11:57:15	4.2542	1362.22	81.25		
07/10	11:57:30	4.2583	1359.85	81.28		
07/10	11:57:45	4.2625	1368.97	81.32		
07/10	11:58:00	4.2667	1373.70	81.34		
07/10	11:58:15	4.2708	1372.75	81.38		
07/10	11:58:30	4.2750	1371.97	81.40		
07/10	11:58:45	4.2792	1377.63	81.44		
07/10	11:59:00	4.2833	1376.63	81.47		
07/10	11:59:15	4.2875	1378.94	81.50		
07/10	11:59:30	4.2917	1377.72	81.53		
07/10	11:59:45	4.2958	1378.21	81.56		
07/10	12:00:00	4.3000	1384.53	81.59		
07/10	12:00:30	4.3083	1384.54	81.64		
07/10	12:00:45	4.3125	1381.97	81.68		
07/10	12:01:00	4.3167	1383.23	81.71		
07/10	12:01:15	4.3208	1381.85	81.73		
07/10	12:01:30	4.3250	1383.00	81.77		
07/10	12:01:45	4.3292	1381.67	81.79		
07/10	12:02:00	4.3333	1383.97	81.82		
07/10	12:02:15	4.3375	1382.21	81.85		
07/10	12:02:30	4.3417	1384.62	81.88		
07/10	12:02:45	4.3458	1383.90	81.91		
07/10	12:03:00	4.3500	1383.28	81.94		
07/10	12:03:15	4.3542	1379.87	81.97		
07/10	12:03:30	4.3583	1381.90	81.99		
07/10	12:03:45	4.3625	1379.96	82.02		
07/10	12:04:00	4.3667	1382.16	82.05		
07/10	12:04:15	4.3708	1382.08	82.08		
07/10	12:04:30	4.3750	1383.35	82.10		
07/10	12:04:45	4.3792	1382.36	82.13		
07/10	12:05:15	4.3875	1382.62	82.19		
07/10	12:05:30	4.3917	1381.62	82.21		
07/10	12:06:00	4.4000	1381.77	82.27		
07/10	12:06:15	4.4042	1384.24	82.29		
07/10	12:06:30	4.4083	1382.15	82.32		
07/10	12:06:45	4.4125	1384.78	82.34		
07/10	12:07:00	4.4167	1383.67	82.37		

RATE #5 - 4.0 GPM

COMPANY: 21ST CENTURY

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WELL NAME : MESA GALLUP UNIT NO. 21

DATE : 07/18/95

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F153711.SG1

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Paig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
07/10	12:07:15	4.4208	1385.04	82.39		
07/10	12:07:30	4.4250	1382.01	82.42		
07/10	12:07:45	4.4292	1383.65	82.45		
07/10	12:08:00	4.4333	1381.39	82.47		
07/10	12:08:15	4.4375	1380.78	82.49		
07/10	12:08:30	4.4417	1380.85	82.52		RATE #6 - 4.4 GPM
07/10	12:08:45	4.4458	1400.24	82.54		
07/10	12:09:00	4.4500	1418.39	82.57		
07/10	12:09:15	4.4542	1408.42	82.59		
07/10	12:09:30	4.4583	1381.14	82.62		
07/10	12:09:45	4.4625	1410.39	82.64		
07/10	12:10:00	4.4667	1409.34	82.67		
07/10	12:10:15	4.4708	1356.59	82.69		
07/10	12:10:30	4.4750	1355.32	82.71		
07/10	12:10:45	4.4792	1353.94	82.73		
07/10	12:11:00	4.4833	1352.12	82.76		
07/10	12:11:15	4.4875	1323.86	82.79		
07/10	12:11:30	4.4917	1259.34	82.80		
07/10	12:11:45	4.4958	1230.94	82.82		
07/10	12:12:00	4.5000	1214.18	82.84		
07/10	12:12:15	4.5042	1204.35	82.86		
07/10	12:12:30	4.5083	1203.24	82.88		
07/10	12:12:45	4.5125	1199.07	82.90		
07/10	12:13:00	4.5167	1196.70	82.92		
07/10	12:13:15	4.5208	1196.76	82.93		
07/10	12:13:30	4.5250	1191.37	82.95		
07/10	12:13:45	4.5292	1192.03	82.97		
07/10	12:14:00	4.5333	1195.64	82.99		
07/10	12:14:15	4.5375	1189.27	83.00		
07/10	12:14:30	4.5417	1186.63	83.01		
07/10	12:14:45	4.5458	1189.16	83.02		
07/10	12:15:00	4.5500	1184.49	83.03		
07/10	12:15:15	4.5542	1185.75	83.04		
07/10	12:15:30	4.5583	1181.52	83.04		
07/10	12:15:45	4.5625	1182.78	83.05		
07/10	12:16:00	4.5667	1177.90	83.06		
07/10	12:16:15	4.5708	1181.03	83.06		
07/10	12:16:30	4.5750	1176.74	83.07		
07/10	12:16:45	4.5792	1178.61	83.08		
07/10	12:17:00	4.5833	1175.97	83.09		ESTABLISH RATE
07/10	12:17:15	4.5875	1178.66	83.09		
07/10	12:17:30	4.5917	1174.59	83.10		
07/10	12:17:45	4.5958	1169.98	83.10		
07/10	12:18:00	4.6000	1176.02	83.10		
07/10	12:18:15	4.6042	1218.57	83.10		
07/10	12:18:30	4.6083	1168.44	83.11		
07/10	12:18:45	4.6125	1296.30	83.11		
07/10	12:19:00	4.6167	1330.26	83.12		
07/10	12:19:15	4.6208	1333.12	83.12		
07/10	12:19:30	4.6250	1343.90	83.13		
07/10	12:19:45	4.6292	1357.15	83.13		
07/10	12:20:00	4.6333	1363.36	83.13		
07/10	12:20:15	4.6375	1367.92	83.13		
07/10	12:20:30	4.6417	1370.23	83.14		
07/10	12:20:45	4.6458	1368.30	83.15		
07/10	12:21:00	4.6500	1367.31	83.17		
07/10	12:21:15	4.6542	1375.88	83.17		
07/10	12:21:30	4.6583	1378.13	83.19		
07/10	12:21:45	4.6625	1381.93	83.20		
07/10	12:22:00	4.6667	1385.66	83.21		
07/10	12:22:15	4.6708	1386.70	83.22		
07/10	12:22:30	4.6750	1388.30	83.23		
07/10	12:22:45	4.6792	1388.29	83.25		
07/10	12:23:00	4.6833	1391.09	83.25		
07/10	12:23:15	4.6875	1391.15	83.27		

COMPANY: 21ST CENTURY

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WELL NAME : MESA GALLUP UNIT NO. 21

DATE : 07/18/95

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F153711.SG1

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
07/10	12:23:30	4.6917	1393.73	83.28		
07/10	12:23:45	4.6958	1394.44	83.30		
07/10	12:24:00	4.7000	1392.95	83.32		
07/10	12:24:15	4.7042	1392.17	83.34		
07/10	12:24:30	4.7083	1392.23	83.35		
07/10	12:24:45	4.7125	1393.49	83.37		
07/10	12:25:00	4.7167	1398.27	83.39		
07/10	12:25:15	4.7208	1402.88	83.41		
07/10	12:25:30	4.7250	1403.48	83.42		
07/10	12:25:45	4.7292	1403.50	83.44		
07/10	12:26:00	4.7333	1405.13	83.45		
07/10	12:26:15	4.7375	1410.89	83.48		
07/10	12:26:45	4.7458	1410.99	83.52		
07/10	12:27:00	4.7500	1409.83	83.54		
07/10	12:27:15	4.7542	1408.29	83.55		
07/10	12:27:30	4.7583	1407.73	83.57		
07/10	12:27:45	4.7625	1408.89	83.59		
07/10	12:28:00	4.7667	1410.64	83.61		
07/10	12:28:15	4.7708	1412.01	83.63		
07/10	12:29:15	4.7875	1412.30	83.71		
07/10	12:29:30	4.7917	1414.13	83.72		
07/10	12:29:45	4.7958	1415.34	83.74		
07/10	12:30:00	4.8000	1416.21	83.76		
07/10	12:30:15	4.8042	1414.50	83.77		
07/10	12:30:30	4.8083	1414.48	83.78		
07/10	12:30:45	4.8125	1418.24	83.80		
07/10	12:31:00	4.8167	1418.22	83.82		
07/10	12:31:15	4.8208	1419.71	83.83		
07/10	12:31:30	4.8250	1421.47	83.85		
07/10	12:31:45	4.8292	1422.67	83.86		
07/10	12:32:00	4.8333	1423.50	83.88		
07/10	12:32:15	4.8375	1424.98	83.90		
07/10	12:32:30	4.8417	1427.56	83.92		
07/10	12:32:45	4.8458	1429.86	83.93		
07/10	12:33:00	4.8500	1429.94	83.95		
07/10	12:33:15	4.8542	1429.14	83.96		
07/10	12:33:30	4.8583	1429.19	83.97		
07/10	12:33:45	4.8625	1440.41	83.99		
07/10	12:34:00	4.8667	1462.47	84.00		
07/10	12:34:15	4.8708	1460.43	84.02		
07/10	12:34:30	4.8750	1460.42	84.03		
07/10	12:34:45	4.8792	1460.92	84.04		
07/10	12:35:00	4.8833	1461.79	84.06		
07/10	12:35:15	4.8875	1464.27	84.07		
07/10	12:35:30	4.8917	1465.64	84.08		
07/10	12:35:45	4.8958	1466.51	84.10		
07/10	12:36:00	4.9000	1467.28	84.11		
07/10	12:36:15	4.9042	1467.32	84.13		
07/10	12:36:30	4.9083	1468.10	84.14		
07/10	12:36:45	4.9125	1469.25	84.16		
07/10	12:37:00	4.9167	1470.51	84.17		
07/10	12:37:15	4.9208	1470.49	84.19		
07/10	12:37:30	4.9250	1468.08	84.20		
07/10	12:37:45	4.9292	1469.89	84.21		
07/10	12:38:00	4.9333	1471.98	84.23		
07/10	12:38:15	4.9375	1473.96	84.24		
07/10	12:38:30	4.9417	1474.72	84.26		
07/10	12:38:45	4.9458	1473.18	84.28		
07/10	12:39:00	4.9500	1471.36	84.29		
07/10	12:39:30	4.9583	1471.46	84.32		
07/10	12:39:45	4.9625	1468.59	84.34		
07/10	12:40:00	4.9667	1470.30	84.35		
07/10	12:40:30	4.9750	1470.23	84.39		
07/10	12:40:45	4.9792	1470.72	84.40		
07/10	12:41:00	4.9833	1471.38	84.42		

RATE #7 - 5.3 GPM

COMPANY: 21ST CENTURY

PAGE 9 OF 11

WELL NAME : MESA GALLUP UNIT NO. 21

DATE : 07/18/95

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F153711.SG1

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
07/10	12:41:15	4.9875	1473.19	84.43		
07/10	12:41:30	4.9917	1474.40	84.44		
07/10	12:41:45	4.9958	1474.45	84.46		
07/10	12:42:00	5.0000	1472.80	84.47		
07/10	12:42:30	5.0083	1472.79	84.50		
07/10	12:42:45	5.0125	1474.00	84.51		
07/10	12:43:00	5.0167	1471.79	84.52		
07/10	12:43:15	5.0208	1472.78	84.54		
07/10	12:43:30	5.0250	1475.03	84.55		
07/10	12:43:45	5.0292	1471.29	84.57		
07/10	12:44:00	5.0333	1470.18	84.57		
07/10	12:44:15	5.0375	1470.26	84.59		
07/10	12:44:30	5.0417	1472.43	84.61		
07/10	12:44:45	5.0458	1472.43	84.63		
07/10	12:45:00	5.0500	1473.19	84.64		
07/10	12:45:15	5.0542	1474.34	84.65		
07/10	12:45:30	5.0583	1473.51	84.67		
07/10	12:45:45	5.0625	1474.39	84.68		
07/10	12:46:00	5.0667	1475.16	84.70		
07/10	12:46:15	5.0708	1474.60	84.71		
07/10	12:46:30	5.0750	1474.57	84.72		
07/10	12:46:45	5.0792	1476.08	84.74		
07/10	12:47:00	5.0833	1478.11	84.76		
07/10	12:48:15	5.1042	1478.16	84.85		
07/10	12:48:30	5.1083	1479.18	84.87		
07/10	12:48:45	5.1125	1479.21	84.89		
07/10	12:49:00	5.1167	1478.79	84.91		
07/10	12:49:15	5.1208	1374.40	84.92		
07/10	12:49:30	5.1250	1336.53	84.94		
07/10	12:49:45	5.1292	1308.89	84.96		
07/10	12:50:00	5.1333	1299.65	84.98		
07/10	12:50:15	5.1375	1289.93	84.99		
07/10	12:50:30	5.1417	1277.46	85.00		
07/10	12:50:45	5.1458	1275.70	85.01		
07/10	12:51:00	5.1500	1268.01	85.03		
07/10	12:51:15	5.1542	1261.31	85.03		
07/10	12:51:30	5.1583	1262.73	85.05		
07/10	12:51:45	5.1625	1251.53	85.05		
07/10	12:52:00	5.1667	1254.10	85.07		
07/10	12:52:15	5.1708	1246.96	85.07		
07/10	12:52:45	5.1792	1246.92	85.09		
07/10	12:53:00	5.1833	1242.07	85.11		
07/10	12:53:15	5.1875	1245.97	85.10		
07/10	12:53:30	5.1917	1238.83	85.10		
07/10	12:53:45	5.1958	1242.84	85.10		
07/10	12:54:00	5.2000	1235.59	85.10		
07/10	12:54:15	5.2042	1237.79	85.10		
07/10	12:54:30	5.2083	1236.42	85.10		
07/10	12:54:45	5.2125	1233.78	85.09		
07/10	12:55:00	5.2167	1238.40	85.09		
07/10	12:55:15	5.2208	1231.20	85.09		
07/10	12:55:30	5.2250	1236.25	85.09		
07/10	12:55:45	5.2292	1230.93	85.09		
07/10	12:56:00	5.2333	1231.81	85.09		
07/10	12:56:15	5.2375	1236.03	85.09		
07/10	12:56:30	5.2417	1229.39	85.09		
07/10	12:56:45	5.2458	1234.72	85.08		
07/10	12:57:00	5.2500	1227.25	85.07		
07/10	12:57:15	5.2542	1231.10	85.07		
07/10	12:57:30	5.2583	1223.74	85.07		
07/10	12:57:45	5.2625	1229.18	85.06		
07/10	12:58:00	5.2667	1222.92	85.05		
07/10	12:58:15	5.2708	1222.89	85.05		
07/10	12:58:30	5.2750	1226.49	85.05		
07/10	12:58:45	5.2792	1220.89	85.04		

RATE #8 - 5.8 GPM / DECREASE RATE

COMPANY: 21ST CENTURY

PAGE 10 OF 11

WELL NAME : MESA GALLUP UNIT NO. 21

DATE : 07/18/95

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F153711.SG1

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
07/10	12:59:00	5.2833	1225.61	85.04		
07/10	12:59:15	5.2875	1222.87	85.03		
07/10	12:59:30	5.2917	1219.80	85.03		
07/10	12:59:45	5.2958	1225.40	85.02		
07/10	13:00:00	5.3000	1219.86	85.01		
07/10	13:00:15	5.3042	1221.83	85.00		
07/10	13:00:30	5.3083	1223.15	85.00		
07/10	13:00:45	5.3125	1218.43	85.00		
07/10	13:01:00	5.3167	1224.47	84.99		
07/10	13:01:15	5.3208	1220.19	84.98		
07/10	13:01:30	5.3250	1218.77	84.98		
07/10	13:01:45	5.3292	1223.98	84.97		
07/10	13:02:00	5.3333	1218.77	84.96		
07/10	13:02:15	5.3375	1226.51	84.96		
07/10	13:02:30	5.3417	1220.96	84.96		
07/10	13:02:45	5.3458	1228.16	84.95		
07/10	13:03:00	5.3500	1221.57	84.94		
07/10	13:03:15	5.3542	1228.27	84.94		
07/10	13:03:30	5.3583	1224.59	84.93		
07/10	13:03:45	5.3625	1226.24	84.93		
07/10	13:04:00	5.3667	1229.76	84.92		
07/10	13:04:15	5.3708	1224.27	84.92		
07/10	13:04:30	5.3750	1229.49	84.91		
07/10	13:04:45	5.3792	1142.50	84.90		
07/10	13:05:00	5.3833	967.88	84.89		
07/10	13:05:15	5.3875	872.26	84.89		
07/10	13:05:30	5.3917	807.77	84.88		
07/10	13:05:45	5.3958	762.46	84.87		
07/10	13:06:00	5.4000	729.04	84.86		
07/10	13:06:15	5.4042	703.16	84.85		
07/10	13:06:30	5.4083	682.49	84.84		
07/10	13:06:45	5.4125	666.09	84.83		
07/10	13:07:00	5.4167	652.69	84.82		
07/10	13:07:15	5.4208	641.32	84.81		
07/10	13:07:30	5.4250	631.53	84.80		
07/10	13:07:45	5.4292	623.60	84.79		
07/10	13:08:00	5.4333	616.55	84.78		
07/10	13:08:15	5.4375	610.59	84.76		
07/10	13:08:30	5.4417	605.18	84.75		
07/10	13:08:45	5.4458	600.43	84.74		
07/10	13:09:00	5.4500	596.11	84.73		
07/10	13:09:15	5.4542	592.34	84.72		
07/10	13:09:30	5.4583	588.89	84.70		
07/10	13:09:45	5.4625	585.83	84.70		
07/10	13:10:00	5.4667	582.88	84.68		
07/10	13:10:15	5.4708	580.26	84.67		
07/10	13:10:30	5.4750	577.85	84.66		
07/10	13:10:45	5.4792	575.67	84.65		
07/10	13:11:00	5.4833	573.59	84.63		
07/10	13:11:15	5.4875	571.68	84.62		
07/10	13:11:30	5.4917	569.88	84.61		
07/10	13:11:45	5.4958	568.24	84.60		
07/10	13:12:00	5.5000	566.71	84.59		
07/10	13:12:15	5.5042	565.23	84.58		
07/10	13:12:30	5.5083	563.92	84.57		
07/10	13:12:45	5.5125	562.67	84.55		
07/10	13:13:00	5.5167	561.41	84.54		
07/10	13:13:15	5.5208	560.27	84.53		
07/10	13:13:30	5.5250	559.17	84.52		
07/10	13:13:45	5.5292	558.14	84.50		
07/10	13:14:00	5.5333	542.17	84.50		
07/10	13:14:15	5.5375	522.88	84.49		
07/10	13:14:30	5.5417	503.52	84.57		
07/10	13:14:45	5.5458	439.96	84.64		
07/10	13:15:00	5.5500	376.69	84.72		

RATE #9 - 2.2 GPM / SHUT DOWN PUMP

COMPANY: 21ST CENTURY

PAGE 11 OF 11

WELL NAME : MESA GALLUP UNIT NO. 21

DATE : 07/18/95

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F153711.SG1

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
07/10	13:15:15	5.5542	307.69	84.79		
07/10	13:15:30	5.5583	242.68	84.87		
07/10	13:15:45	5.5625	176.14	84.94		
07/10	13:16:00	5.5667	106.11	85.02		
07/10	13:16:15	5.5708	38.58	85.09		
07/10	13:16:30	5.5750	19.68	85.17		
07/10	13:16:45	5.5792	9.73	85.25		
07/10	13:17:00	5.5833	9.13	85.32		

 *
 * EVENT SUMMARY *
 *

COMPANY : 21ST CENTURY

PAGE : 8

WELL NAME : MESA GALLUP UNIT NO. 21

DATE : 07/18/95

WELL LOCATION : SAN JUAN COUNTY, NM

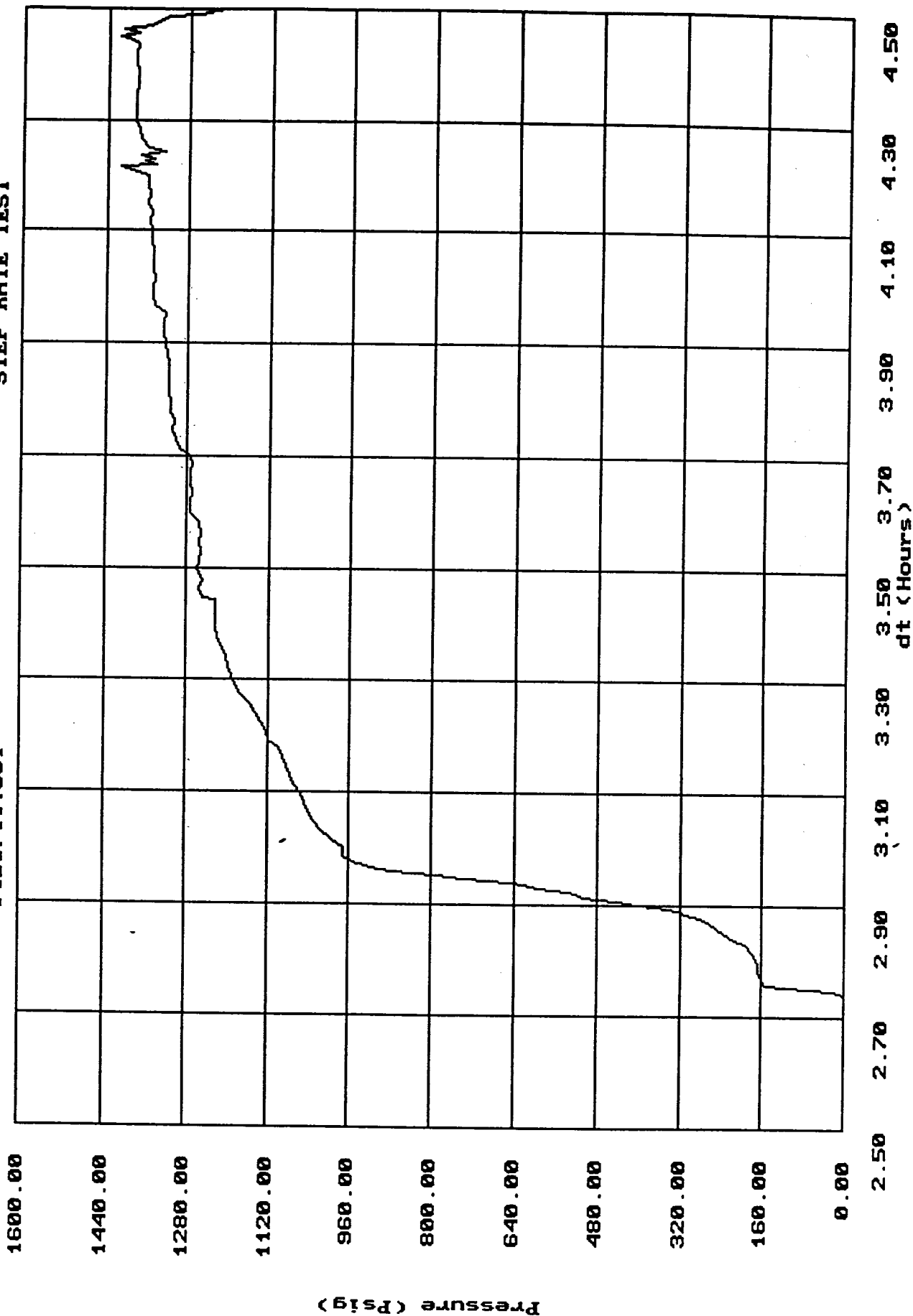
FILE REF: F153711.SG1

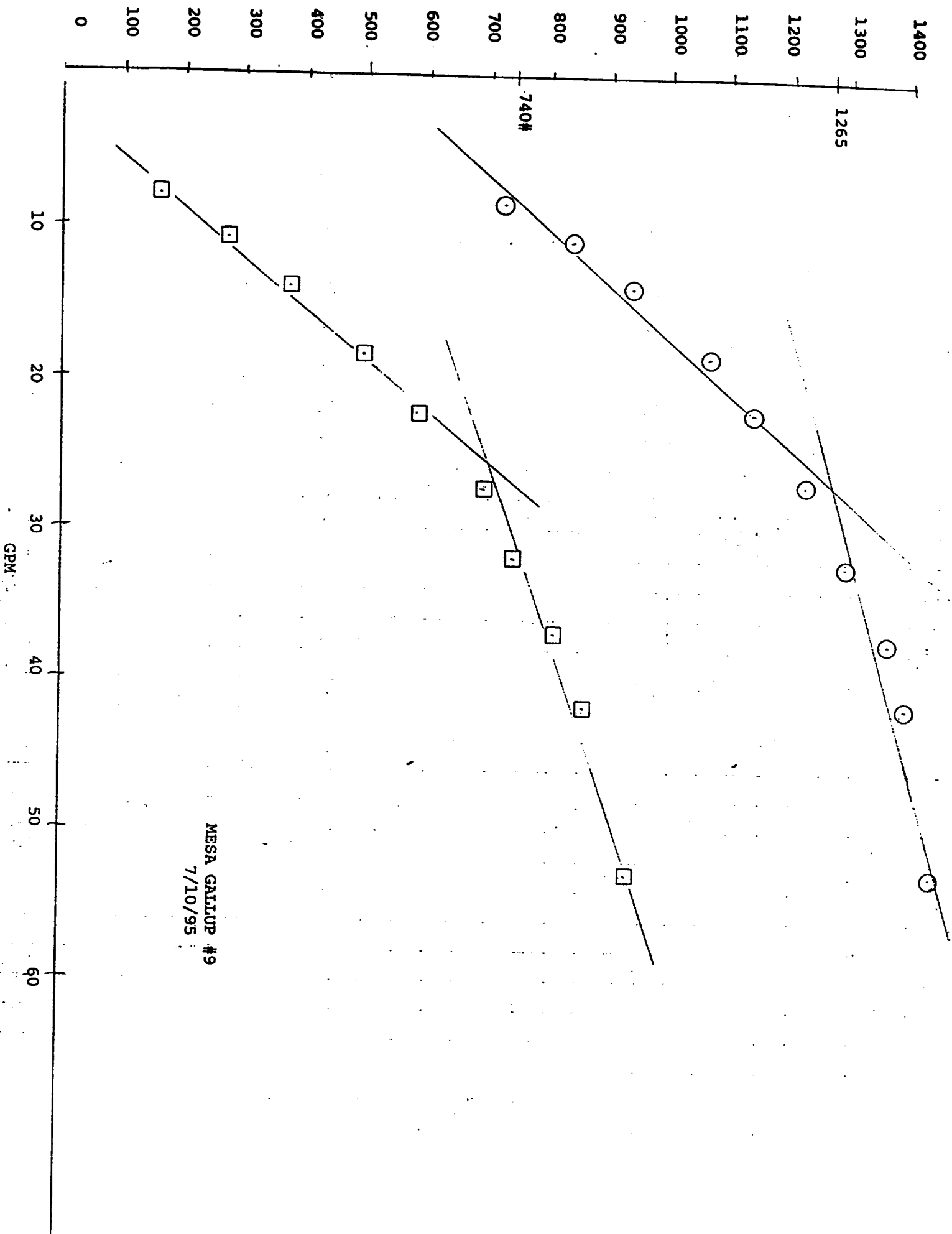
Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Key Event	Pressure Psig	Temp Deg F
07/10	10:28:45	2.7792	INSTRUMENT @ 1220'	167.29	95.14
07/10	10:43:00	3.0167	INJECTING WATER	999.63	80.06
07/10	10:53:00	3.1833	RATE #1 - 1.9 GPM	1097.75	78.49
07/10	11:08:00	3.4333	RATE #2 - 2.4 GPM	1223.94	76.24
07/10	11:24:30	3.7083	RATE #3 - 3.0 GPM	1276.12	77.80
07/10	11:39:30	3.9583	RATE #4 - 3.5 GPM	1324.77	79.14
07/10	11:54:30	4.2083	RATE #5 - 4.0 GPM	1361.86	80.91
07/10	12:08:30	4.4417	RATE #6 - 4.4 GPM	1380.85	82.52
07/10	12:17:00	4.5833	ESTABLISH RATE	1175.97	83.09
07/10	12:33:30	4.8583	RATE #7 - 5.3 GPM	1429.19	83.97
07/10	12:49:00	5.1167	RATE #8 - 5.8 GPM / DECREASE RATE	1478.79	84.91
07/10	13:04:30	5.3750	RATE #9 - 2.2 GPM / SHUT DOWN PUMP	1229.49	84.91

21ST CENTURY
Pressure vs dt

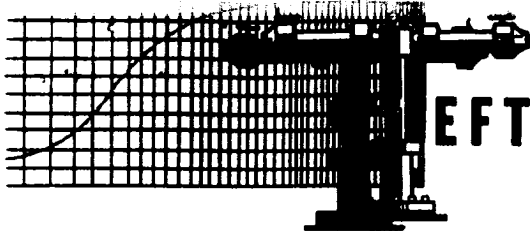
MESA GALLUP UNIT NO. 21
SAN JUAN COUNTY, NM
F153711-SB1

TEFTELLER, INC.
7-10-85
STEP RATE TEST





MESA GALLUP #9
7/10/95



SWP • SU • FI • DO • GWT • MP • GOR • PL • TS

EFTELLER, INC.

reservoir engineering data

FARMINGTON, NEW MEXICO / MIDLAND, TEXAS
GRAND JUNCTION, COLORADO

P. O. Box 1198
Farmington, New Mexico 87499
(505) 325-1731

Farmington Fax (505) 325-1148
Midland Fax (915) 682-5329
Grand Junction Fax (303) 241-7634

21ST CENTURY

MESA GALLUP UNIT NO. 9

JULY 10, 1995

Serving the Rocky Mountain Area & Permian Basin Area

Customer 21ST CENTURY
Street 7415 E. MAIN
City/State..... FARMINGTON, NM 87402
Country U.S.A.
Service Company TEFTELLER, INC.

Well Name MESA GALLUP UNIT NO. 9
Well Location SAN JUAN COUNTY, NM
Field / Pool MESA GALLUP UNIT
Status (Oil, Gas, Other) WATER INJECTION WELL

Test Type STEP RATE TEST
Date of Test 7-10-95
Producing Interval
Recorder Depth 1407'
Recorder Position
Shut In Date Start: 7-10-95
Stop: 7-10-95
Duration: 5 HOURS

Bottom Hole Temperature

Gauge Identification

Gauge Manufacturer MICRO-SMART SYSTEMS
Serial Number 153
Model Number SG1000
Pressure Range
Battery Type
Calibration I.D.
Last Calibration 6/30/95

Gauge Setup Parameters

Probe Set Up Time 7/10/95 13:18: 0
Time Delay to First Reading
Test Type Selection STEP RATE TEST
Test Duration Selection 5 HOURS

COMPANY: 21ST CENTURY

PAGE 1 OF 10

WELL NAME : MESA GALLUP UNIT NO. 9

DATE : 07/18/95

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F153711.SG2

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
07/10	13:18:00	.0000	.56	85.74		
07/10	13:18:30	.0083	.66	86.84		
07/10	13:18:45	.0125	.01	87.40		
07/10	15:18:45	2.0125	.01	108.66		
07/10	15:19:00	2.0167	28.11	107.21		
07/10	15:19:15	2.0208	71.50	105.77		
07/10	15:19:30	2.0250	102.56	104.32		
07/10	15:19:45	2.0292	138.91	102.88		
07/10	15:20:00	2.0333	168.19	101.44		
07/10	15:20:45	2.0458	168.19	97.12		
07/10	15:21:15	2.0542	167.98	95.23		
07/10	15:21:30	2.0583	167.84	94.51		
07/10	15:21:45	2.0625	167.67	93.79		
07/10	15:22:00	2.0667	167.49	93.07		
07/10	15:22:15	2.0708	167.30	92.35		
07/10	15:22:30	2.0750	167.11	91.63		
07/10	15:22:45	2.0792	166.92	90.91		
07/10	15:23:00	2.0833	166.71	90.19		
07/10	15:23:15	2.0875	166.52	89.48		
07/10	15:23:30	2.0917	166.33	88.76		
07/10	15:23:45	2.0958	166.15	88.04		
07/10	15:24:00	2.1000	165.97	87.64		
07/10	15:24:15	2.1042	165.84	87.46		
07/10	15:24:30	2.1083	167.68	87.17		
07/10	15:24:45	2.1125	172.49	86.93		
07/10	15:25:00	2.1167	174.24	86.69		
07/10	15:25:15	2.1208	174.29	86.45		
07/10	15:25:30	2.1250	175.46	86.21		
07/10	15:25:45	2.1292	177.54	85.97		
07/10	15:26:00	2.1333	180.99	85.73		
07/10	15:26:15	2.1375	186.24	85.49		
07/10	15:26:30	2.1417	192.90	85.25		
07/10	15:26:45	2.1458	204.11	85.01		
07/10	15:27:00	2.1500	232.24	84.86		
07/10	15:27:15	2.1542	271.58	84.72		
07/10	15:27:30	2.1583	307.04	84.57		
07/10	15:27:45	2.1625	343.38	84.43		
07/10	15:28:00	2.1667	377.21	84.28		
07/10	15:28:15	2.1708	413.83	84.14		
07/10	15:28:30	2.1750	447.99	83.99		
07/10	15:28:45	2.1792	478.93	83.85		
07/10	15:29:00	2.1833	513.44	83.70		
07/10	15:29:15	2.1875	545.65	83.56		
07/10	15:29:30	2.1917	578.20	83.41		
07/10	15:29:45	2.1958	593.25	83.27		
07/10	15:30:00	2.2000	594.63	83.09		
07/10	15:30:15	2.2042	594.70	82.88		
07/10	15:30:30	2.2083	595.55	82.67		
07/10	15:30:45	2.2125	596.12	82.45		
07/10	15:31:45	2.2292	596.39	81.61		
07/10	15:32:00	2.2333	596.53	81.40		
07/10	15:32:30	2.2417	596.82	80.97		
07/10	15:32:45	2.2458	596.98	80.76		
07/10	15:33:00	2.2500	597.13	80.58		
07/10	15:33:15	2.2542	597.30	80.33		
07/10	15:33:30	2.2583	597.46	80.13		
07/10	15:33:45	2.2625	597.60	79.96		
07/10	15:34:15	2.2708	597.86	79.51		
07/10	15:34:30	2.2750	597.97	79.34		
07/10	15:35:15	2.2875	598.12	78.68		
07/10	15:35:30	2.2917	598.79	78.48		
07/10	15:36:00	2.3000	598.80	78.08		
07/10	15:36:15	2.3042	599.61	77.97		
07/10	15:37:45	2.3292	599.80	77.39		
07/10	15:39:15	2.3542	600.02	77.03		

INSTRUMENT @ 1407'

INJECTING WATER

COMPANY: 21ST CENTURY

PAGE 2 OF 10

WELL NAME : MESA GALLUP UNIT NO. 9

DATE : 07/18/95

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F153711.SG2

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
07/10	15:40:30	2.3750	600.31	77.35		
07/10	15:40:45	2.3792	600.37	77.40		
07/10	15:41:00	2.3833	600.47	77.50		
07/10	15:41:15	2.3875	602.82	77.57		
07/10	15:41:30	2.3917	600.73	77.64		
07/10	15:42:00	2.4000	600.66	77.76		
07/10	15:42:15	2.4042	602.96	77.84		
07/10	15:42:30	2.4083	812.45	77.90		
07/10	15:42:45	2.4125	634.75	77.96		
07/10	15:43:00	2.4167	684.74	78.03		
07/10	15:43:15	2.4208	694.92	78.09		
07/10	15:43:30	2.4250	694.36	78.15		
07/10	15:43:45	2.4292	697.15	78.21		
07/10	15:44:00	2.4333	700.37	78.28		
07/10	15:44:15	2.4375	699.22	78.34		
07/10	15:44:30	2.4417	701.07	78.40		
07/10	15:44:45	2.4458	703.31	78.47		
07/10	15:45:00	2.4500	705.44	78.55		
07/10	15:45:15	2.4542	707.51	78.64		
07/10	15:45:30	2.4583	709.03	78.73		
07/10	15:45:45	2.4625	710.66	78.82		
07/10	15:46:00	2.4667	711.64	78.91		
07/10	15:46:15	2.4708	713.27	79.00		
07/10	15:46:30	2.4750	714.90	79.09		
07/10	15:46:45	2.4792	716.43	79.18		
07/10	15:47:00	2.4833	717.68	79.27		
07/10	15:47:15	2.4875	719.31	79.37		
07/10	15:47:30	2.4917	713.66	79.46		
07/10	15:47:45	2.4958	722.19	79.54		
07/10	15:48:00	2.5000	723.65	79.66		
07/10	15:48:15	2.5042	724.84	79.77		
07/10	15:48:30	2.5083	725.76	79.89		
07/10	15:48:45	2.5125	727.23	80.00		
07/10	15:49:00	2.5167	728.09	80.11		
07/10	15:49:15	2.5208	729.44	80.23		
07/10	15:49:30	2.5250	731.57	80.35		
07/10	15:49:45	2.5292	732.15	80.46		
07/10	15:50:00	2.5333	733.34	80.57		
07/10	15:50:15	2.5375	735.19	80.69		
07/10	15:50:30	2.5417	736.82	80.80		
07/10	15:50:45	2.5458	738.51	80.91		
07/10	15:51:00	2.5500	739.36	81.04		
07/10	15:51:15	2.5542	740.88	81.15		
07/10	15:51:30	2.5583	740.96	81.26		
07/10	15:51:45	2.5625	742.88	81.37		
07/10	15:52:00	2.5667	744.51	81.48		
07/10	15:52:15	2.5708	745.65	81.59		
07/10	15:52:30	2.5750	747.00	81.71		
07/10	15:52:45	2.5792	749.29	81.82		
07/10	15:53:00	2.5833	751.96	81.93		
07/10	15:53:15	2.5875	753.20	82.04		
07/10	15:53:30	2.5917	755.27	82.14		
07/10	15:53:45	2.5958	756.02	82.25		
07/10	15:54:00	2.6000	757.21	82.38		
07/10	15:54:15	2.6042	758.45	82.48		
07/10	15:54:30	2.6083	791.83	82.59		
07/10	15:54:45	2.6125	796.47	82.70		
07/10	15:55:00	2.6167	799.30	82.80		
07/10	15:55:15	2.6208	800.44	82.91		
07/10	15:55:30	2.6250	803.38	83.02		
07/10	15:55:45	2.6292	805.06	83.13		
07/10	15:56:00	2.6333	806.42	83.23		
07/10	15:56:15	2.6375	808.65	83.34		
07/10	15:56:30	2.6417	810.49	83.45		
07/10	15:56:45	2.6458	811.85	83.56		

RATE #1 - 8.4 GPH

COMPANY: 21ST CENTURY

PAGE 3 OF 10

WELL NAME : MESA GALLUP UNIT NO. 9

DATE : 07/18/95

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F153711.SG2

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
07/10	15:57:00	2.6500	813.25	83.67		
07/10	15:57:15	2.6542	815.81	83.80		
07/10	15:57:30	2.6583	816.34	83.93		
07/10	15:57:45	2.6625	817.74	84.05		
07/10	15:58:00	2.6667	817.71	84.18		
07/10	15:58:15	2.6708	819.02	84.31		
07/10	15:58:30	2.6750	819.05	84.43		
07/10	15:58:45	2.6792	821.12	84.55		
07/10	15:59:00	2.6833	821.06	84.68		
07/10	15:59:15	2.6875	822.40	84.81		
07/10	15:59:45	2.6958	822.34	85.06		
07/10	16:00:00	2.7000	823.38	85.20		
07/10	16:00:15	2.7042	825.39	85.33		
07/10	16:00:30	2.7083	825.32	85.46		
07/10	16:00:45	2.7125	827.26	85.60		
07/10	16:01:00	2.7167	828.56	85.73		
07/10	16:01:15	2.7208	829.69	85.86		
07/10	16:01:30	2.7250	830.33	85.99		
07/10	16:01:45	2.7292	830.34	86.13		
07/10	16:02:00	2.7333	831.00	86.26		
07/10	16:02:15	2.7375	832.35	86.39		
07/10	16:02:30	2.7417	834.30	86.52		
07/10	16:02:45	2.7458	835.04	86.65		
07/10	16:03:00	2.7500	835.06	86.79		
07/10	16:03:15	2.7542	837.14	86.89		
07/10	16:03:30	2.7583	837.14	86.99		
07/10	16:03:45	2.7625	838.58	87.11		
07/10	16:04:00	2.7667	839.61	87.22		
07/10	16:04:15	2.7708	841.29	87.33		
07/10	16:04:30	2.7750	842.37	87.44		
07/10	16:04:45	2.7792	843.66	87.55		
07/10	16:05:00	2.7833	845.51	87.65		
07/10	16:05:15	2.7875	846.26	87.76		
07/10	16:05:30	2.7917	846.84	87.87		
07/10	16:05:45	2.7958	847.76	87.98		
07/10	16:06:00	2.8000	848.67	88.07		
07/10	16:06:15	2.8042	849.92	88.15		
07/10	16:06:30	2.8083	850.94	88.24		
07/10	16:06:45	2.8125	852.57	88.33		
07/10	16:07:00	2.8167	854.64	88.42		
07/10	16:07:15	2.8208	856.16	88.50		
07/10	16:07:30	2.8250	856.69	88.59		
07/10	16:07:45	2.8292	857.93	88.67		
07/10	16:08:00	2.8333	858.58	88.76		
07/10	16:08:15	2.8375	858.65	88.84		
07/10	16:08:30	2.8417	859.70	88.93		
07/10	16:08:45	2.8458	860.72	89.02		
07/10	16:09:00	2.8500	862.68	89.11		
07/10	16:09:15	2.8542	863.43	89.19		
07/10	16:09:30	2.8583	863.42	89.25		
07/10	16:09:45	2.8625	899.79	89.34		
07/10	16:10:00	2.8667	913.62	89.42		
07/10	16:10:15	2.8708	919.57	89.49		
07/10	16:10:30	2.8750	921.91	89.57		
07/10	16:10:45	2.8792	922.67	89.64		
07/10	16:11:00	2.8833	922.70	89.72		
07/10	16:11:15	2.8875	923.95	89.79		
07/10	16:11:30	2.8917	926.13	89.87		
07/10	16:11:45	2.8958	928.47	89.95		
07/10	16:12:00	2.9000	931.03	90.01		
07/10	16:12:30	2.9083	931.15	90.03		
07/10	16:12:45	2.9125	933.71	90.04		
07/10	16:13:00	2.9167	933.78	90.06		
07/10	16:13:15	2.9208	935.02	90.07		
07/10	16:13:30	2.9250	936.38	90.08		

RATE #2 - 11.1 GPM

COMPANY: 21ST CENTURY

PAGE 4 OF 10

WELL NAME : MESA GALLUP UNIT NO. 9

DATE : 07/18/95

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F153711.SG2

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
07/10	16:13:45	2.9292	937.47	90.10		
07/10	16:14:00	2.9333	938.90	90.11		
07/10	16:14:15	2.9375	939.44	90.13		
07/10	16:14:30	2.9417	940.86	90.14		
07/10	16:14:45	2.9458	942.50	90.15		
07/10	16:15:00	2.9500	943.60	90.13		
07/10	16:15:15	2.9542	944.37	90.08		
07/10	16:15:30	2.9583	861.44	90.04		
07/10	16:15:45	2.9625	890.71	90.00		
07/10	16:16:00	2.9667	927.27	89.95		
07/10	16:16:15	2.9708	930.72	89.91		
07/10	16:16:30	2.9750	935.38	89.86		
07/10	16:16:45	2.9792	936.81	89.82		
07/10	16:17:00	2.9833	937.75	89.78		
07/10	16:17:15	2.9875	938.63	89.73		
07/10	16:17:30	2.9917	939.13	89.69		
07/10	16:17:45	2.9958	939.14	89.66		
07/10	16:18:00	3.0000	940.46	89.59		
07/10	16:18:15	3.0042	942.88	89.53		
07/10	16:18:30	3.0083	943.49	89.48		
07/10	16:18:45	3.0125	944.27	89.42		
07/10	16:19:00	3.0167	945.43	89.36		
07/10	16:19:15	3.0208	945.48	89.31		
07/10	16:19:30	3.0250	946.38	89.24		
07/10	16:19:45	3.0292	947.26	89.19		
07/10	16:20:00	3.0333	947.28	89.13		
07/10	16:20:15	3.0375	947.89	89.07		
07/10	16:20:30	3.0417	948.50	89.02		
07/10	16:20:45	3.0458	949.16	88.96		
07/10	16:21:00	3.0500	949.67	88.90		
07/10	16:21:15	3.0542	949.66	88.86		
07/10	16:21:30	3.0583	950.34	88.80		
07/10	16:21:45	3.0625	951.06	88.75		
07/10	16:22:00	3.0667	951.73	88.71		
07/10	16:22:15	3.0708	952.39	88.66		
07/10	16:22:30	3.0750	953.77	88.60		
07/10	16:23:15	3.0875	953.92	88.47		
07/10	16:23:30	3.0917	955.39	88.41		
07/10	16:23:45	3.0958	955.89	88.36		
07/10	16:24:00	3.1000	956.45	88.31		
07/10	16:24:15	3.1042	957.28	88.27		
07/10	16:24:30	3.1083	936.43	88.23		
07/10	16:24:45	3.1125	1048.97	88.19		
07/10	16:25:00	3.1167	1015.18	88.15		
07/10	16:25:15	3.1208	1017.60	88.11		
07/10	16:25:30	3.1250	1027.25	88.07		
07/10	16:25:45	3.1292	1030.76	88.02		
07/10	16:26:00	3.1333	1032.63	87.98		
07/10	16:26:15	3.1375	1035.05	87.94		
07/10	16:26:30	3.1417	1037.08	87.90		
07/10	16:26:45	3.1458	1037.04	87.87		
07/10	16:27:00	3.1500	1038.52	87.83		
07/10	16:27:30	3.1583	1038.57	87.77		
07/10	16:27:45	3.1625	1039.25	87.73		
07/10	16:28:00	3.1667	1040.96	87.69		
07/10	16:28:15	3.1708	1041.79	87.66		
07/10	16:28:30	3.1750	1042.67	87.63		
07/10	16:28:45	3.1792	1048.81	87.60		
07/10	16:29:00	3.1833	1048.82	87.57		
07/10	16:29:15	3.1875	1049.54	87.53		
07/10	16:29:30	3.1917	1049.05	87.49		
07/10	16:29:45	3.1958	1050.32	87.46		
07/10	16:30:00	3.2000	1052.13	87.44		
07/10	16:30:30	3.2083	1052.24	87.40		
07/10	16:30:45	3.2125	1054.01	87.38		

RATE #3 - 14.0 GPM

COMPANY: 21ST CENTURY

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WELL NAME : MESA GALLUP UNIT NO. 9

DATE : 07/18/95

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F153711.SG2

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
07/10	16:31:00	3.2167	1054.06	87.36		
07/10	16:31:15	3.2208	1055.88	87.34		
07/10	16:31:30	3.2250	1057.08	87.32		
07/10	16:31:45	3.2292	1057.13	87.30		
07/10	16:32:00	3.2333	1063.51	87.28		
07/10	16:32:15	3.2375	1064.22	87.26		
07/10	16:32:30	3.2417	1065.32	87.24		
07/10	16:32:45	3.2458	1065.35	87.22		
07/10	16:33:00	3.2500	1066.43	87.21		
07/10	16:33:15	3.2542	1066.47	87.21		
07/10	16:33:30	3.2583	1067.41	87.20		
07/10	16:33:45	3.2625	1068.67	87.19		
07/10	16:34:00	3.2667	1069.22	87.19		
07/10	16:34:15	3.2708	1069.88	87.18		
07/10	16:34:30	3.2750	1070.43	87.18		
07/10	16:34:45	3.2792	1070.48	87.17		
07/10	16:35:00	3.2833	1072.41	87.17		
07/10	16:35:15	3.2875	1072.41	87.17		
07/10	16:35:30	3.2917	1073.39	87.16		
07/10	16:36:15	3.3042	1073.43	87.14		
07/10	16:36:30	3.3083	1074.22	87.14		
07/10	16:37:15	3.3208	1074.50	87.14		
07/10	16:37:30	3.3250	1075.04	87.14		
07/10	16:37:45	3.3292	1075.06	87.14		
07/10	16:38:00	3.3333	1075.97	87.14		
07/10	16:38:15	3.3375	1076.05	87.14		
07/10	16:38:30	3.3417	1077.62	87.14		
07/10	16:39:00	3.3500	1077.69	87.14		
07/10	16:39:15	3.3542	1078.44	87.13		
07/10	16:39:30	3.3583	1107.66	87.13		
07/10	16:39:45	3.3625	1119.01	87.13		
07/10	16:40:00	3.3667	1072.91	87.13		
07/10	16:40:15	3.3708	1109.80	87.13		
07/10	16:40:30	3.3750	1115.61	87.13		
07/10	16:40:45	3.3792	1127.01	87.13		
07/10	16:41:00	3.3833	1127.04	87.13		
07/10	16:41:15	3.3875	1122.19	87.13		
07/10	16:41:30	3.3917	1126.14	87.13		
07/10	16:41:45	3.3958	1130.42	87.12		
07/10	16:42:00	3.4000	1130.38	87.13		
07/10	16:42:15	3.4042	1131.84	87.13		
07/10	16:42:30	3.4083	1131.83	87.13		
07/10	16:42:45	3.4125	1135.07	87.13		
07/10	16:43:15	3.4208	1135.10	87.13		
07/10	16:43:30	3.4250	1134.03	87.14		
07/10	16:43:45	3.4292	1133.48	87.14		
07/10	16:44:00	3.4333	1133.54	87.14		
07/10	16:44:15	3.4375	1137.70	87.14		
07/10	16:44:30	3.4417	1136.94	87.14		
07/10	16:44:45	3.4458	1136.91	87.14		
07/10	16:45:00	3.4500	1137.98	87.14		
07/10	16:45:15	3.4542	1137.93	87.14		
07/10	16:45:30	3.4583	1138.47	87.14		
07/10	16:46:00	3.4667	1138.53	87.14		
07/10	16:46:15	3.4708	1139.62	87.14		
07/10	16:46:30	3.4750	1141.92	87.15		
07/10	16:46:45	3.4792	1140.77	87.15		
07/10	16:47:00	3.4833	1142.25	87.15		
07/10	16:47:15	3.4875	1141.54	87.15		
07/10	16:47:30	3.4917	1142.69	87.15		
07/10	16:47:45	3.4958	1143.19	87.15		
07/10	16:48:00	3.5000	1143.15	87.16		
07/10	16:48:15	3.5042	1149.44	87.16		
07/10	16:48:30	3.5083	1145.92	87.17		
07/10	16:48:45	3.5125	1147.90	87.18		

RATE #4 - 18.5 GPM

RATE #5 - 22.2 GPM

COMPANY: 21ST CENTURY

PAGE 6 OF 10

WELL NAME : MESA GALLUP UNIT NO. 9

DATE : 07/18/95

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F153711.SG2

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
07/10	16:49:00	3.5167	1147.13	87.18		
07/10	16:49:15	3.5208	1148.01	87.18		
07/10	16:49:30	3.5250	1147.95	87.19		
07/10	16:49:45	3.5292	1149.21	87.20		
07/10	16:50:00	3.5333	1149.25	87.20		
07/10	16:50:15	3.5375	1150.36	87.21		
07/10	16:50:30	3.5417	1151.29	87.21		
07/10	16:50:45	3.5458	1150.36	87.21		
07/10	16:51:00	3.5500	1150.96	87.22		
07/10	16:51:15	3.5542	1151.50	87.23		
07/10	16:51:30	3.5583	1152.66	87.23		
07/10	16:52:00	3.5667	1152.80	87.23		
07/10	16:52:15	3.5708	1154.63	87.24		
07/10	16:52:30	3.5750	1156.44	87.24		
07/10	16:52:45	3.5792	1157.15	87.25		
07/10	16:53:00	3.5833	1157.92	87.25		
07/10	16:53:15	3.5875	1159.07	87.25		
07/10	16:53:30	3.5917	1160.11	87.25		
07/10	16:53:45	3.5958	1161.37	87.26		
07/10	16:54:15	3.6042	1161.58	87.27		
07/10	16:54:30	3.6083	1182.21	87.28		
07/10	16:54:45	3.6125	1195.04	87.29		
07/10	16:55:00	3.6167	1197.35	87.29		
07/10	16:55:15	3.6208	1196.69	87.30		
07/10	16:55:30	3.6250	1198.33	87.31		
07/10	16:55:45	3.6292	1200.52	87.32		
07/10	16:56:00	3.6333	1201.29	87.32		
07/10	16:56:15	3.6375	1202.55	87.33		
07/10	16:56:30	3.6417	1206.01	87.34		
07/10	16:56:45	3.6458	1206.66	87.34		
07/10	16:57:00	3.6500	1207.26	87.36		
07/10	16:57:15	3.6542	1209.56	87.38		
07/10	16:57:30	3.6583	1210.55	87.39		
07/10	16:57:45	3.6625	1211.42	87.41		
07/10	16:58:00	3.6667	1212.46	87.43		
07/10	16:58:15	3.6708	1213.28	87.44		
07/10	16:58:30	3.6750	1214.10	87.46		
07/10	16:58:45	3.6792	1214.08	87.47		
07/10	16:59:00	3.6833	1212.99	87.49		
07/10	16:59:15	3.6875	1212.33	87.51		
07/10	16:59:30	3.6917	1213.10	87.52		
07/10	16:59:45	3.6958	1213.17	87.54		
07/10	17:00:00	3.7000	1214.52	87.56		
07/10	17:00:30	3.7083	1214.52	87.59		
07/10	17:00:45	3.7125	1215.55	87.61		
07/10	17:01:00	3.7167	1217.08	87.63		
07/10	17:01:15	3.7208	1218.88	87.64		
07/10	17:01:30	3.7250	1223.49	87.67		
07/10	17:01:45	3.7292	1224.31	87.69		
07/10	17:02:00	3.7333	1225.79	87.70		
07/10	17:02:15	3.7375	1225.23	87.72		
07/10	17:03:45	3.7625	1225.04	87.81		
07/10	17:04:00	3.7667	1225.05	87.82		
07/10	17:04:15	3.7708	1226.30	87.84		
07/10	17:04:30	3.7750	1230.64	87.85		
07/10	17:04:45	3.7792	1234.64	87.87		
07/10	17:05:00	3.7833	1232.71	87.88		
07/10	17:05:15	3.7875	1234.19	87.89		
07/10	17:05:30	3.7917	1234.96	87.91		
07/10	17:05:45	3.7958	1234.98	87.91		
07/10	17:06:00	3.8000	1235.89	87.92		
07/10	17:06:15	3.8042	1237.81	87.93		
07/10	17:07:00	3.8167	1237.60	87.97		
07/10	17:07:15	3.8208	1237.43	87.98		
07/10	17:07:30	3.8250	1237.08	87.99		

RATE #6 - 27.2 GPM

COMPANY: 21ST CENTURY

PAGE 7 OF 10

WELL NAME : MESA GALLUP UNIT NO. 9

DATE : 07/18/95

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F153711.SG2

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
07/10	17:07:45	3.8292	1237.15	88.00		
07/10	17:08:00	3.8333	1240.26	88.02		
07/10	17:08:15	3.8375	1241.57	88.02		
07/10	17:08:30	3.8417	1242.39	88.04		
07/10	17:08:45	3.8458	1243.05	88.05		
07/10	17:09:00	3.8500	1243.81	88.07		
07/10	17:09:15	3.8542	1244.47	88.07		
07/10	17:09:30	3.8583	1245.29	88.09		
07/10	17:09:45	3.8625	1245.29	88.10		
07/10	17:10:00	3.8667	1327.30	88.11		
07/10	17:10:15	3.8708	1269.04	88.12		
07/10	17:10:30	3.8750	1269.07	88.13		
07/10	17:10:45	3.8792	1271.67	88.15		
07/10	17:11:00	3.8833	1273.21	88.15		
07/10	17:11:30	3.8917	1273.28	88.18		
07/10	17:11:45	3.8958	1272.76	88.19		
07/10	17:12:00	3.9000	1272.79	88.20		
07/10	17:12:15	3.9042	1276.59	88.22		
07/10	17:12:45	3.9125	1276.56	88.24		
07/10	17:13:00	3.9167	1279.33	88.26		
07/10	17:13:15	3.9208	1279.88	88.27		
07/10	17:13:30	3.9250	1282.62	88.29		
07/10	17:13:45	3.9292	1283.49	88.31		
07/10	17:14:00	3.9333	1281.40	88.32		
07/10	17:14:15	3.9375	1284.09	88.33		
07/10	17:14:30	3.9417	1284.85	88.35		
07/10	17:15:30	3.9583	1284.90	88.42		
07/10	17:15:45	3.9625	1286.31	88.43		
07/10	17:16:00	3.9667	1288.84	88.44		
07/10	17:16:30	3.9750	1289.04	88.48		
07/10	17:16:45	3.9792	1290.36	88.49		
07/10	17:17:00	3.9833	1289.59	88.51		
07/10	17:17:15	3.9875	1289.59	88.52		
07/10	17:17:30	3.9917	1290.19	88.53		
07/10	17:17:45	3.9958	1290.25	88.55		
07/10	17:18:00	4.0000	1291.17	88.56		
07/10	17:18:15	4.0042	1291.21	88.57		
07/10	17:18:30	4.0083	1293.36	88.59		
07/10	17:18:45	4.0125	1296.98	88.60		
07/10	17:19:00	4.0167	1297.64	88.61		
07/10	17:19:15	4.0208	1298.24	88.62		
07/10	17:19:30	4.0250	1298.84	88.63		
07/10	17:19:45	4.0292	1298.91	88.64		
07/10	17:20:00	4.0333	1300.42	88.66		
07/10	17:20:15	4.0375	1301.03	88.67		
07/10	17:20:45	4.0458	1301.16	88.69		
07/10	17:21:00	4.0500	1302.88	88.70		
07/10	17:21:15	4.0542	1304.09	88.71		
07/10	17:21:30	4.0583	1305.57	88.71		
07/10	17:21:45	4.0625	1306.72	88.73		
07/10	17:22:00	4.0667	1306.76	88.73		
07/10	17:22:15	4.0708	1307.87	88.74		
07/10	17:22:30	4.0750	1307.85	88.75		
07/10	17:22:45	4.0792	1308.41	88.76		
07/10	17:23:30	4.0917	1308.51	88.79		
07/10	17:23:45	4.0958	1309.50	88.80		
07/10	17:24:00	4.1000	1310.93	88.80		
07/10	17:24:15	4.1042	1311.97	88.82		
07/10	17:24:30	4.1083	1313.94	88.82		
07/10	17:24:45	4.1125	1314.71	88.83		
07/10	17:25:00	4.1167	1315.64	88.84		
07/10	17:25:15	4.1208	1336.50	88.85		
07/10	17:25:30	4.1250	1329.69	88.86		
07/10	17:25:45	4.1292	1331.28	88.86		
07/10	17:26:00	4.1333	1334.96	88.88		

RATE #7 - 32.3 GPM

COMPANY: 21ST CENTURY

PAGE 8 OF 10

WELL NAME : MESA GALLUP UNIT NO. 9

DATE : 07/18/95

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F153711.SG2

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
07/10	17:26:15	4.1375	1343.85	88.89		
07/10	17:26:30	4.1417	1342.53	88.89		
07/10	17:26:45	4.1458	1342.03	88.91		
07/10	17:27:00	4.1500	1344.17	88.91		
07/10	17:27:15	4.1542	1345.05	88.93		
07/10	17:27:30	4.1583	1345.09	88.94		
07/10	17:27:45	4.1625	1344.60	88.95		
07/10	17:28:00	4.1667	1345.09	88.97		
07/10	17:28:15	4.1708	1345.14	88.98		
07/10	17:28:30	4.1750	1346.52	88.99		
07/10	17:28:45	4.1792	1348.38	89.00		
07/10	17:29:00	4.1833	1349.75	89.02		
07/10	17:29:15	4.1875	1350.95	89.03		
07/10	17:29:30	4.1917	1354.25	89.04		
07/10	17:29:45	4.1958	1354.19	89.06		
07/10	17:30:00	4.2000	1354.62	89.07		
07/10	17:30:15	4.2042	1354.67	89.08		
07/10	17:30:30	4.2083	1355.60	89.10		
07/10	17:30:45	4.2125	1356.26	89.11		
07/10	17:31:00	4.2167	1356.75	89.13		
07/10	17:31:15	4.2208	1358.18	89.14		
07/10	17:31:30	4.2250	1359.44	89.15		
07/10	17:31:45	4.2292	1359.47	89.17		
07/10	17:32:00	4.2333	1360.14	89.18		
07/10	17:32:15	4.2375	1362.11	89.19		
07/10	17:32:30	4.2417	1363.26	89.21		
07/10	17:32:45	4.2458	1363.81	89.22		
07/10	17:33:00	4.2500	1363.75	89.23		
07/10	17:33:15	4.2542	1362.21	89.24		
07/10	17:33:30	4.2583	1360.07	89.26		
07/10	17:33:45	4.2625	1360.72	89.26		
07/10	17:34:00	4.2667	1361.38	89.28		
07/10	17:34:15	4.2708	1361.42	89.29		
07/10	17:34:30	4.2750	1362.42	89.30		
07/10	17:34:45	4.2792	1362.39	89.31		
07/10	17:35:00	4.2833	1365.81	89.33		
07/10	17:35:15	4.2875	1366.31	89.33		
07/10	17:35:30	4.2917	1367.18	89.35		
07/10	17:35:45	4.2958	1368.17	89.36		
07/10	17:36:00	4.3000	1366.85	89.37		
07/10	17:36:15	4.3042	1369.98	89.38		
07/10	17:36:30	4.3083	1368.33	89.38		
07/10	17:36:45	4.3125	1368.34	89.39		
07/10	17:37:00	4.3167	1369.09	89.40		
07/10	17:37:15	4.3208	1369.69	89.41		
07/10	17:37:30	4.3250	1368.92	89.42		
07/10	17:37:45	4.3292	1368.37	89.43		
07/10	17:39:15	4.3542	1368.59	89.49		
07/10	17:39:30	4.3583	1369.67	89.49		
07/10	17:39:45	4.3625	1377.25	89.51		
07/10	17:40:00	4.3667	1378.13	89.51		
07/10	17:40:15	4.3708	1383.45	89.52		
07/10	17:40:30	4.3750	1383.44	89.53		
07/10	17:40:45	4.3792	1384.21	89.54		
07/10	17:41:15	4.3875	1384.27	89.56		
07/10	17:41:30	4.3917	1386.29	89.57		
07/10	17:42:00	4.4000	1386.42	89.59		
07/10	17:42:15	4.4042	1387.39	89.60		
07/10	17:42:30	4.4083	1387.36	89.62		
07/10	17:42:45	4.4125	1388.37	89.63		
07/10	17:43:00	4.4167	1389.08	89.64		
07/10	17:43:15	4.4208	1389.57	89.66		
07/10	17:43:30	4.4250	1389.58	89.66		
07/10	17:43:45	4.4292	1390.99	89.68		
07/10	17:44:00	4.4333	1391.70	89.69		

RATE #8 - 37.4 GPM

COMPANY: 21ST CENTURY

PAGE 9 OF 10

WELL NAME : MESA GALLUP UNIT NO. 9

DATE : 07/18/95

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F153711.SG2

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
07/10	17:44:15	4.4375	1392.74	89.71		
07/10	17:45:15	4.4542	1392.76	89.75		
07/10	17:45:30	4.4583	1394.54	89.77		
07/10	17:46:00	4.4667	1394.70	89.79		
07/10	17:46:15	4.4708	1395.68	89.80		
07/10	17:46:45	4.4792	1395.61	89.83		
07/10	17:47:00	4.4833	1396.22	89.84		
07/10	17:47:15	4.4875	1396.77	89.85		
07/10	17:47:30	4.4917	1396.75	89.86		
07/10	17:47:45	4.4958	1397.81	89.87		
07/10	17:48:00	4.5000	1397.25	89.89		
07/10	17:48:15	4.5042	1398.07	89.90		
07/10	17:48:30	4.5083	1397.41	89.91		
07/10	17:48:45	4.5125	1397.91	89.91		
07/10	17:49:15	4.5208	1397.83	89.93		
07/10	17:49:30	4.5250	1398.56	89.94		
07/10	17:50:00	4.5333	1398.72	89.96		
07/10	17:50:15	4.5375	1398.85	89.97		
07/10	17:50:30	4.5417	1399.00	89.97		
07/10	17:50:45	4.5458	1399.20	89.99		
07/10	17:51:00	4.5500	1399.80	90.00		
07/10	17:51:15	4.5542	1399.80	90.01		
07/10	17:51:30	4.5583	1400.29	90.02		
07/10	17:53:00	4.5833	1400.58	90.07		
07/10	17:53:15	4.5875	1401.70	90.08		
07/10	17:54:00	4.6000	1401.95	90.10		
07/10	17:54:15	4.6042	1402.05	90.11		
07/10	17:54:30	4.6083	1420.32	90.12		
07/10	17:54:45	4.6125	1423.28	90.13		
07/10	17:55:00	4.6167	1423.34	90.14		
07/10	17:55:15	4.6208	1425.20	90.15		
07/10	17:55:30	4.6250	1426.73	90.16		
07/10	17:55:45	4.6292	1426.71	90.17		
07/10	17:56:00	4.6333	1427.39	90.18		
07/10	17:56:15	4.6375	1428.16	90.19		
07/10	17:57:15	4.6542	1428.45	90.24		
07/10	17:57:30	4.6583	1428.60	90.25		
07/10	17:57:45	4.6625	1430.39	90.26		
07/10	17:58:00	4.6667	1430.46	90.28		
07/10	17:58:15	4.6708	1432.19	90.29		
07/10	17:59:15	4.6875	1432.49	90.35		
07/10	17:59:30	4.6917	1434.53	90.37		
07/10	17:59:45	4.6958	1435.41	90.38		
07/10	18:01:15	4.7208	1435.23	90.44		
07/10	18:01:45	4.7292	1435.38	90.47		
07/10	18:02:00	4.7333	1436.37	90.49		
07/10	18:02:15	4.7375	1437.30	90.49		
07/10	18:02:30	4.7417	1437.96	90.51		
07/10	18:04:00	4.7667	1438.14	90.56		
07/10	18:04:15	4.7708	1439.09	90.57		
07/10	18:04:30	4.7750	1439.70	90.57		
07/10	18:05:15	4.7875	1439.95	90.60		
07/10	18:05:30	4.7917	1441.34	90.61		
07/10	18:06:00	4.8000	1441.38	90.63		
07/10	18:06:15	4.8042	1442.26	90.64		
07/10	18:06:30	4.8083	1442.28	90.65		
07/10	18:06:45	4.8125	1441.82	90.66		
07/10	18:07:00	4.8167	1441.84	90.67		
07/10	18:07:15	4.8208	1442.97	90.68		
07/10	18:08:00	4.8333	1443.19	90.71		
07/10	18:08:15	4.8375	1443.39	90.71		
07/10	18:08:30	4.8417	1445.10	90.72		
07/10	18:08:45	4.8458	1446.03	90.73		
07/10	18:09:15	4.8542	1446.00	90.75		
07/10	18:09:30	4.8583	1446.95	90.76		

RATE #9 - 41.8 GPM

RATE #10 - 53.0 GPM

COMPANY: 21ST CENTURY

PAGE 10 OF 10

WELL NAME : MESA GALLUP UNIT NO. 9

DATE : 07/18/95

WELL LOCATION : SAN JUAN COUNTY, NM

FILE REF: F153711.SG2

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Pressure Psig	Temp Deg F	deltaP Psi	Comment Ga. Press Ref. to 14.7 Psi Atm.
07/10	18:09:45	4.8625	1446.07	90.77		
07/10	18:10:00	4.8667	1446.03	90.78		
07/10	18:10:15	4.8708	1443.71	90.79		
07/10	18:10:45	4.8792	1443.78	90.80		
07/10	18:11:00	4.8833	1387.89	90.82		
07/10	18:11:15	4.8875	1380.59	90.82		
07/10	18:11:30	4.8917	1374.55	90.83		
07/10	18:11:45	4.8958	1369.05	90.84		
07/10	18:12:00	4.9000	1363.89	90.84		
07/10	18:12:15	4.9042	1358.95	90.84		
07/10	18:12:30	4.9083	1354.18	90.83		
07/10	18:12:45	4.9125	1349.62	90.82		
07/10	18:13:00	4.9167	1345.23	90.82		
07/10	18:13:15	4.9208	1340.95	90.82		
07/10	18:13:30	4.9250	1331.68	90.81		
07/10	18:13:45	4.9292	1315.43	90.80		
07/10	18:14:00	4.9333	1297.21	90.80		
07/10	18:14:15	4.9375	1277.63	90.79		
07/10	18:14:30	4.9417	1246.69	90.79		
07/10	18:14:45	4.9458	1212.58	90.79		
07/10	18:15:00	4.9500	1176.73	90.78		
07/10	18:15:15	4.9542	1137.00	90.75		
07/10	18:15:30	4.9583	1096.35	90.73		
07/10	18:15:45	4.9625	1054.78	90.71		
07/10	18:16:00	4.9667	1012.02	90.69		
07/10	18:16:15	4.9708	978.86	90.67		
07/10	18:16:30	4.9750	936.61	90.65		
07/10	18:16:45	4.9792	898.65	90.63		
07/10	18:17:00	4.9833	851.34	90.61		
07/10	18:17:15	4.9875	810.72	90.59		
07/10	18:17:30	4.9917	765.35	90.57		
07/10	18:17:45	4.9958	716.33	90.55		
07/10	18:18:00	5.0000	678.42	90.52		
07/10	18:18:15	5.0042	657.13	90.81		
07/10	18:18:30	5.0083	650.27	91.10		
07/10	18:18:45	5.0125	647.02	91.39		
07/10	18:19:00	5.0167	643.76	91.68		
07/10	18:19:15	5.0208	453.98	91.97		
07/10	18:19:30	5.0250	.01	92.27		
07/10	18:21:00	5.0500	.01	94.10		

INSTRUMENT OFF BOTTOM

 *
 * EVENT SUMMARY *
 *

COMPANY : 21ST CENTURY

WELL NAME : MESA GALLUP UNIT NO. 9

WELL LOCATION : SAN JUAN COUNTY, NM

PAGE : B

DATE : 07/18/95

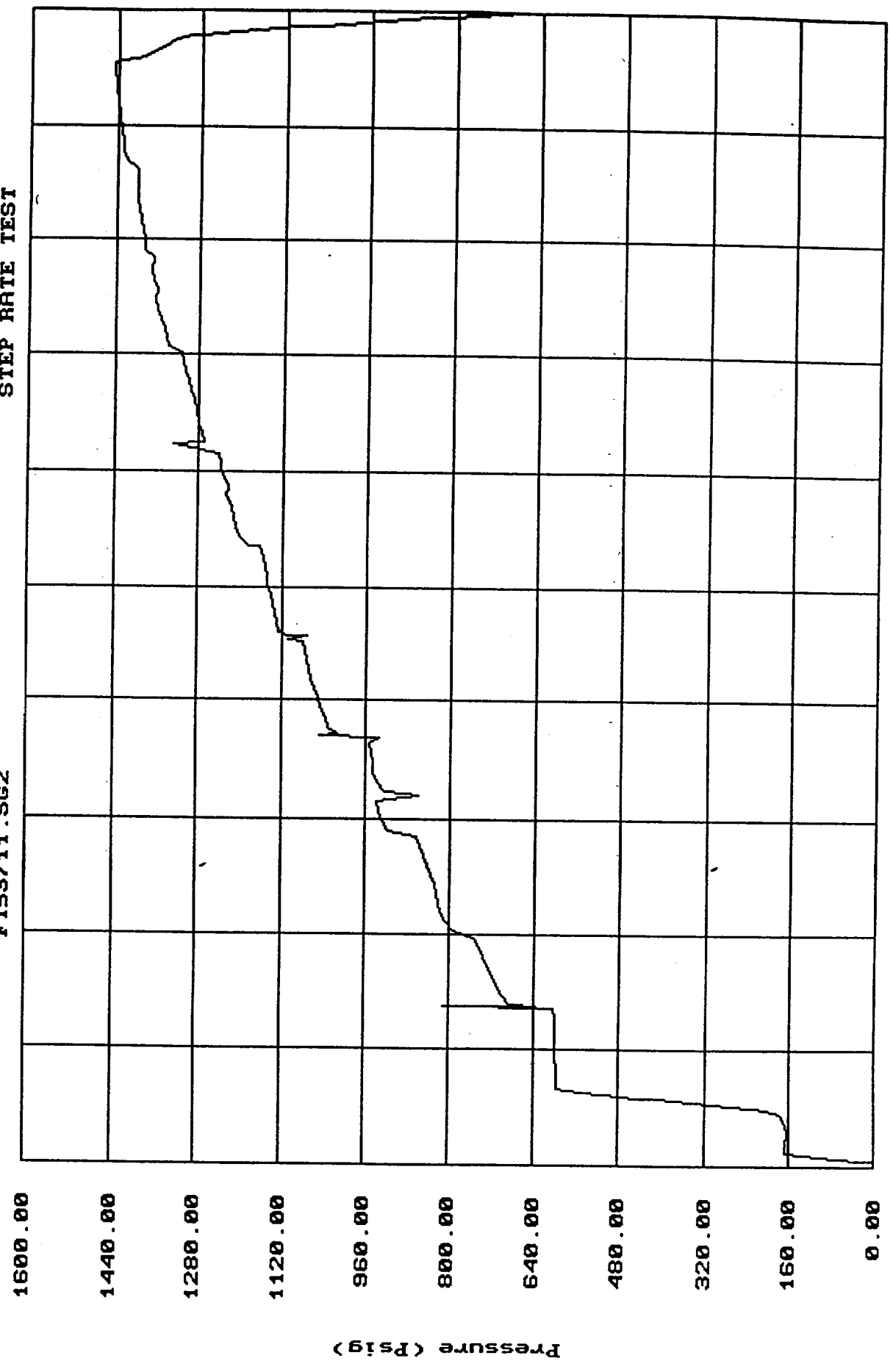
FILE REF: F153711.SG2

Date MM/DD	Time hh:mm:ss	Test Time hhhh.hhhh	Key Event	Pressure Psig	Temp Deg F
07/10	15:20:00	2.0333	INSTRUMENT @ 1407'	168.19	101.44
07/10	15:39:15	2.3542	INJECTING WATER	600.02	77.03
07/10	15:48:00	2.5000	RATE #1 - 8.4 GPM	723.65	79.66
07/10	16:03:00	2.7500	RATE #2 - 11.1 GPM	835.06	86.79
07/10	16:18:00	3.0000	RATE #3 - 14.0 GPM	940.46	89.59
07/10	16:33:00	3.2500	RATE #4 - 18.5 GPM	1066.43	87.21
07/10	16:48:00	3.5000	RATE #5 - 22.2 GPM	1143.15	87.16
07/10	17:04:00	3.7667	RATE #6 - 27.2 GPM	1225.05	87.82
07/10	17:18:00	4.0000	RATE #7 - 32.3 GPM	1291.17	88.56
07/10	17:33:00	4.2500	RATE #8 - 37.4 GPM	1363.75	89.23
07/10	17:48:00	4.5000	RATE #9 - 41.8 GPM	1397.25	89.89
07/10	18:04:00	4.7667	RATE #10 - 53.0 GPM	1438.14	90.56
07/10	18:13:00	4.9167	INSTRUMENT OFF BOTTOM	1345.23	90.82

21ST CENTURY
Pressure vs dt

MESA GALLUP UNIT NO. 9
SAN JUAN COUNTY, NM
F153711-S02

TEFTELLER, INC.
7-10-85
STEP RATE TEST



Pressure (Psig)

2.00 2.30 2.60 2.90 3.20 3.50 3.80 4.10 4.40 4.70 5.00
dt (Hours)