



HALLIBURTON SERVICES

TICKET NO. 71203800

03-OCT-88

FARMINGTON

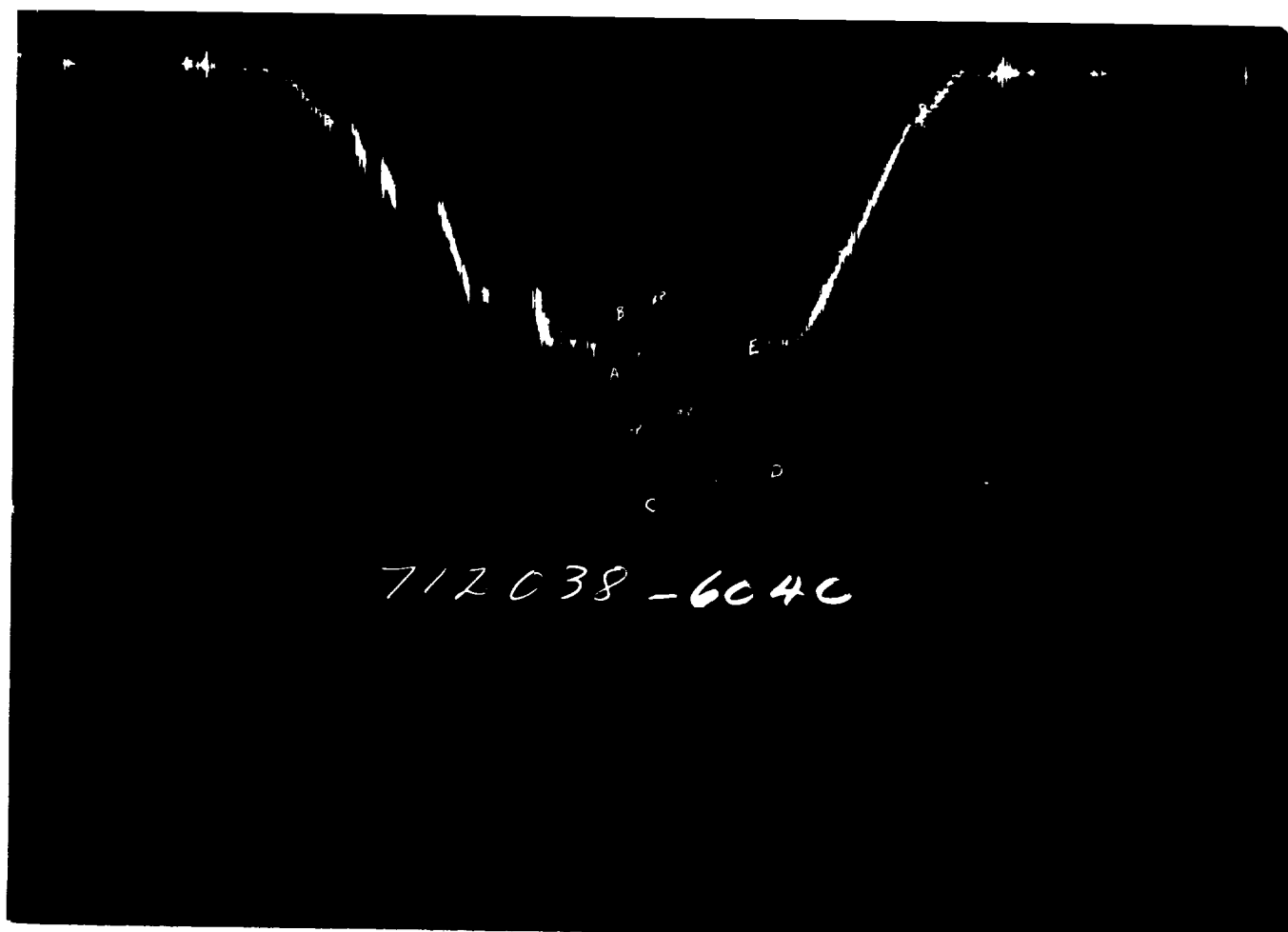
FORMATION TESTING SERVICE REPORT

LEGAL LOCATION SEC. - TWP. - RNG.	WELL NO.	TEST NO.	TESTED INTERVAL	COUNTY	STATE
14-33-31N-14W	33-14	1	3232.0 - 3262.0	SAN JUAN	NEW MEXICO
LEASE NAME			LEASE OWNER/COMPANY NAME		
UTE MTN UTE			MINERSHILL CORPORATION		

712038-6039

GAUGE NO : 6039 DEPTH : 3206.6 BLANKED OFF : YES HOUR OF CLOCK : 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1505	1515.9			
B	OPEN TO BEGIN INJECTION			16.0		F
C	CLOSE TO BLEED OFF					
C	CLOSE TO BLEED OFF			60.0		C
D	END OF BLEED OFF					
E	FINAL HYDROSTATIC	1505	1512.6			



GAUGE NO: 6040 DEPTH: 3259.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1497	1523.9			
B	OPEN TO BEGIN INJECTION		1414.7			
C	CLOSE TO BLEED OFF	2358	2372.4	16.0	13.8	F
C	CLOSE TO BLEED OFF	2358	2372.4			
D	END OF BLEED OFF	2196	2216.2	60.0	62.1	C
E	FINAL HYDROSTATIC	1497	1514.4			

EQUIPMENT & HOLE DATA

FORMATION TESTED: MENEFEE COAL

NET PAY (ft): 6.0

GROSS TESTED FOOTAGE: 30.0 PKR. TO T.D.

ALL DEPTHS MEASURED FROM: KELLY BUSHING

CASING PERFS. (ft): _____

HOLE OR CASING SIZE (in): 7.875

ELEVATION (ft): 5512.0

TOTAL DEPTH (ft): 3262.0

PACKER DEPTH(S) (ft): 3232

FINAL SURFACE CHOKE (in): _____

BOTTOM HOLE CHOKE (in): 0.750

MUD WEIGHT (lb/gal): 9.00

MUD VISCOSITY (sec): 36

ESTIMATED HOLE TEMP. (°F): _____

ACTUAL HOLE TEMP. (°F): 85 @ 3258.0 ft

TICKET NUMBER: 71203800

DATE: 9-15-88 TEST NO: 1

TYPE DST: INJEC.-FALL OFF

HALLIBURTON CAMP:
FARMINGTON

TESTER: G.K. SMITH

WITNESS: TERRY LOGAN

DRILLING CONTRACTOR:
AZTEC W/S #124

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
<u>MUD PIT</u>	<u>6.350 @ 56 °F</u>	_____ ppm
<u>FRESH WATER</u>	<u>20.800 @ 58 °F</u>	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm

SAMPLER DATA

P_{sig} AT SURFACE: _____

cu.ft. OF GAS: _____

cc OF OIL: _____

cc OF WATER: _____

cc OF MUD: _____

TOTAL LIQUID cc: _____

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ _____ °F

GAS/OIL RATIO (cu.ft. per bbl): _____

GAS GRAVITY: _____

CUSHION DATA

TYPE	AMOUNT	WEIGHT
<u>FRESH H2O (FT.)</u>	<u>3262.0</u>	<u>8.33</u>
_____	_____	_____

RECOVERED :

MEASURED FROM
TESTER VALVE

REMARKS :

- (1) TEST IS AN INJECTION-FALLOFF TEST.
- (2) ELECTRONIC MEMORY GAUGE HMR #10018 WAS RUN AT 3220'; DATA AND ANALYSIS PLOTS FOR THIS GAUGE IS AT THE END OF THIS REPORT.
- (3) MECHANICAL GAUGE #6039 RUN AT 3206.6' WAS PORTED TO THE ANNULUS TO MONITOR FOR VERTICAL INJECTION COMMUNICATION AROUND THE PACKER; NONE WAS DETECTED.
- (4) "COMPUPAC" RECORDING OF SURFACE PRESSURE AND RATE DURING THE INJECTION IS INCLUDED AFTER THE HMR DATA AT THE END OF THIS REPORT.

TYPE & SIZE MEASURING DEVICE : _____					TICKET NO : 71203800
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
9-15-88					
1530					ON LOCATION
1545					PICKED UP AND MADE UP TOOLS
1753					TRIPPED IN HOLE WITH TOOLS
2121					PRIMED UP HT 150
2131					LOADED DRILL PIPE WITH FRESH
					WATER 41 PSI, 7 BBLs. & 50 GPM.
2138					SHUT DOWN/SET PACKER
2144					OPENED TOOLS FOR PUMP IN TEST
2149		15		1	STARTED PUMPING FRESH WATER
2150		21		6	PUMPING WATER
2151		25		5	PUMPING WATER, PRESSURE
					INCREASING
2152		31		5	SAME
2153		39		5	SAME
2154		55		5	SAME
2155		83		4	SAME
2156		173		7	SAME
2157		583		0	SHUT DOWN PUMPING WATER
2157:30		547		1	STARTED PUMPING, PRESSURE
					INCREASING
2158		759		3	PUMPING WATER, PRESSURE
					INCREASING
2159		984		0	SHUT DOWN
					41 GALLONS PUMPED
2200		866			CLOSED DUAL CIP FOR BLEED OFF
2300					OPENED DUAL CIP; PICKED UP
					AND OPENED BYPASS TO UNSET
					PACKER
2310					TRIPPED OUT OF HOLE WITH TOOLS
9-16-88					
0100					OUT OF HOLE WITH TOOLS

TICKET NO: 71203800

GAUGE NO: 6040

CLOCK NO: 10445 HOUR: 12

DEPTH: 3259.0



REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta P}{t + \Delta P}$	$\log \frac{t + \Delta P}{\Delta P}$
INJECTION PERIOD					
B 1	0.0	1414.7			
2	0.5	1412.0	-2.7		
3	1.0	1399.2	-12.8		
4	1.5	1400.7	1.5		
5	2.0	1394.4	-6.3		
6	2.5	1394.4	0.0		
7	3.0	1396.5	2.1		
8	3.5	1396.1	-0.4		
☐ 9	4.0	1396.0	-0.1		
10	4.5	1400.4	4.4		
11	5.0	1400.4	0.0		
12	5.5	1400.4	0.0		
13	6.0	1403.6	3.2		
14	6.5	1404.8	1.2		
15	7.0	1407.4	2.5		
16	7.5	1412.3	4.9		
17	8.0	1419.3	6.9		
18	8.5	1426.6	7.3		
19	9.0	1435.7	9.1		
20	9.5	1448.1	12.4		
21	10.0	1462.8	14.7		
22	10.5	1495.4	32.6		
23	11.0	1564.9	69.5		
24	11.5	1771.0	206.0		
25	12.0	1953.2	182.3		
☐ 26	12.0	1968.0	14.8		
☐ 27	12.5	1942.4	-25.6		
28	13.0	2148.8	206.4		
29	13.5	2322.1	173.3		
C 30	13.8	2372.4	50.3		
BLEEDOFF PERIOD					
C 1	0.0	2372.4			
2	0.5	2349.7	-22.6	0.5	1.464
3	1.0	2330.0	-42.4	0.9	1.191
4	1.5	2302.2	-70.2	1.3	1.012
5	2.0	2296.8	-75.6	1.7	0.902
6	2.5	2292.2	-80.2	2.1	0.815
7	3.0	2288.2	-84.1	2.5	0.746
8	3.5	2286.1	-86.3	2.8	0.693
9	4.0	2283.9	-88.5	3.1	0.650
10	4.5	2281.9	-90.5	3.4	0.608
11	5.0	2280.7	-91.7	3.7	0.575
12	6.0	2277.1	-95.2	4.2	0.518
13	7.0	2274.6	-97.8	4.6	0.473
14	8.0	2272.3	-100.1	5.1	0.435
15	9.0	2270.0	-102.4	5.4	0.404
16	10.0	2267.0	-105.4	5.8	0.376
17	11.0	2264.0	-108.4	6.1	0.354

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta P}{t + \Delta P}$	$\log \frac{t + \Delta P}{\Delta P}$
BLEEDOFF PERIOD - CONTINUED					
18	12.0	2261.7	-110.7	6.4	0.333
19	13.0	2259.8	-112.6	6.7	0.314
20	14.0	2257.8	-114.6	7.0	0.298
21	15.0	2256.6	-115.8	7.2	0.283
22	16.0	2254.5	-117.8	7.4	0.270
23	17.0	2252.8	-119.6	7.6	0.258
24	18.0	2250.9	-121.5	7.8	0.247
25	19.0	2249.5	-122.9	8.0	0.237
26	20.0	2247.6	-124.8	8.2	0.228
27	22.0	2246.7	-125.7	8.5	0.212
28	24.0	2243.6	-128.8	8.8	0.197
29	26.0	2241.4	-131.0	9.0	0.185
30	28.0	2239.8	-132.6	9.2	0.174
31	30.0	2237.3	-135.0	9.5	0.164
32	32.0	2236.0	-136.4	9.6	0.156
33	34.0	2233.9	-138.4	9.8	0.148
34	36.0	2232.2	-140.2	10.0	0.141
35	38.0	2231.1	-141.3	10.1	0.135
36	40.0	2229.9	-142.5	10.3	0.129
37	42.0	2228.7	-143.7	10.4	0.123
38	44.0	2226.8	-145.6	10.5	0.119
39	46.0	2225.8	-146.6	10.6	0.114
40	48.0	2223.9	-148.4	10.7	0.110
41	50.0	2221.8	-150.6	10.8	0.106
42	52.0	2221.1	-151.3	10.9	0.102
43	54.0	2219.7	-152.6	11.0	0.099
44	56.0	2218.5	-153.9	11.1	0.096
45	58.0	2217.8	-154.5	11.1	0.093
46	60.0	2217.0	-155.4	11.2	0.090
D 47	62.1	2216.2	-156.2	11.3	0.087

LEGEND:

☐ 1 BEGIN PUMPING☐ 2 STOP PUMPING☐ 3 RESUME PUMPING

REMARKS:

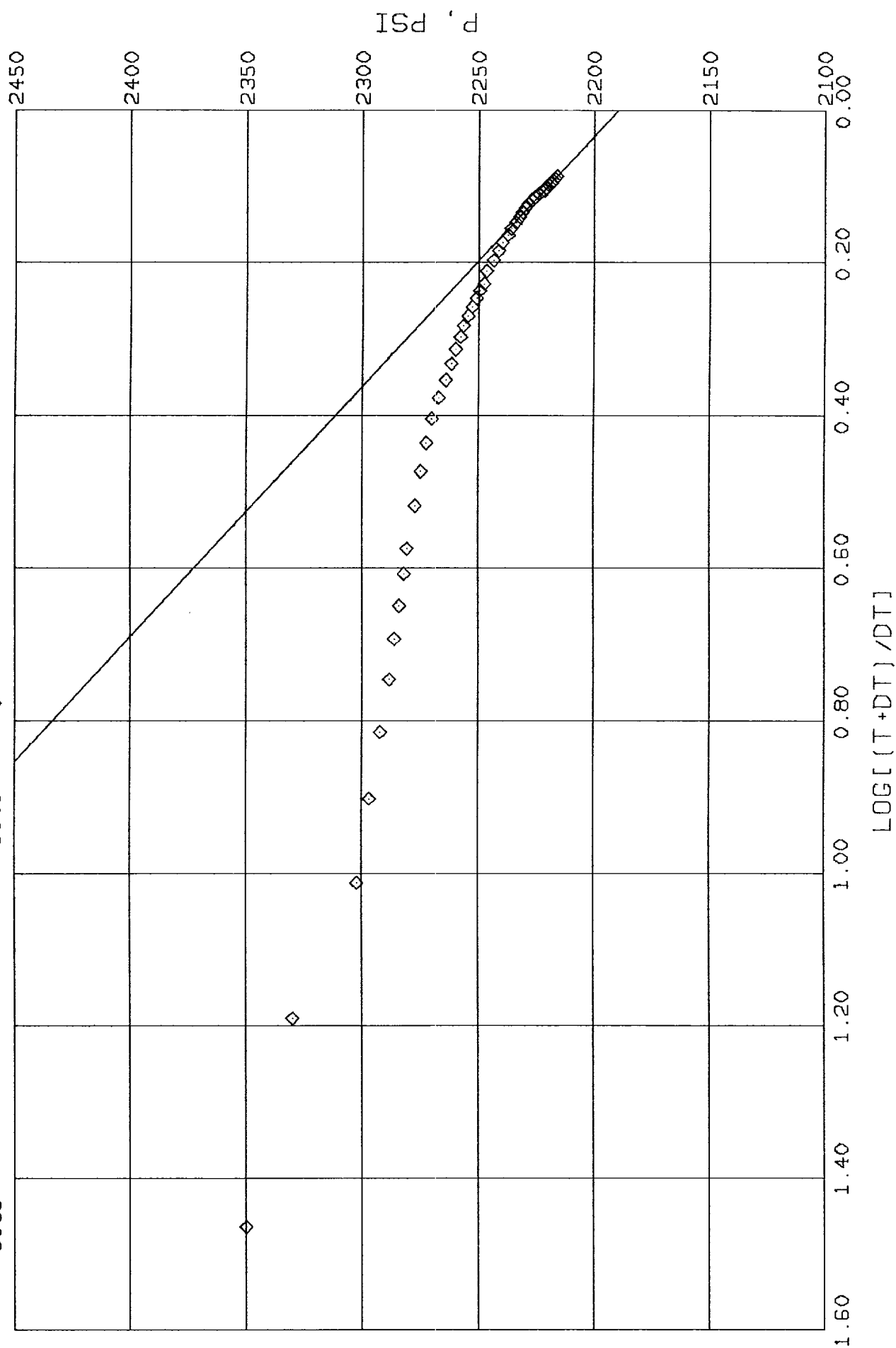
		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	2605.6	
3		DRILL COLLARS.....	6.000	2.500	584.0	
50		IMPACT REVERSING SUB.....	6.000	2.250	1.0	3190.0
5		CROSSOVER.....	6.000	2.250	1.0	
13		DUAL CIP SAMPLER.....	5.000	0.750	6.8	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	3202.3
5		CROSSOVER.....	5.000	2.000	1.0	
5		CROSSOVER.....	5.000	2.000	1.0	
97		ANNULUS PRESSURE PORT SUB.....	5.000	1.000	1.0	3205.8
80		AP RUNNING CASE.....	5.000	2.250	4.1	3206.6
5		CROSSOVER.....	4.750	2.000	2.0	
87		ELECTRONIC GAUGE RUNNING CASE...	5.000	2.430	8.2	3220.0
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	2.8	
70		OPEN HOLE PACKER.....	6.750	1.530	5.8	3232.0
5		CROSSOVER.....	5.750	2.500	1.0	
20		FLUSH JOINT ANCHOR.....	5.750	2.500	23.0	
81		BLANKED-OFF RUNNING CASE.....	5.750		4.3	3259.0
TOTAL DEPTH						3262.0

EQUIPMENT DATA

TICKET NO 71203800

GAUGE NO CIP 1
6040

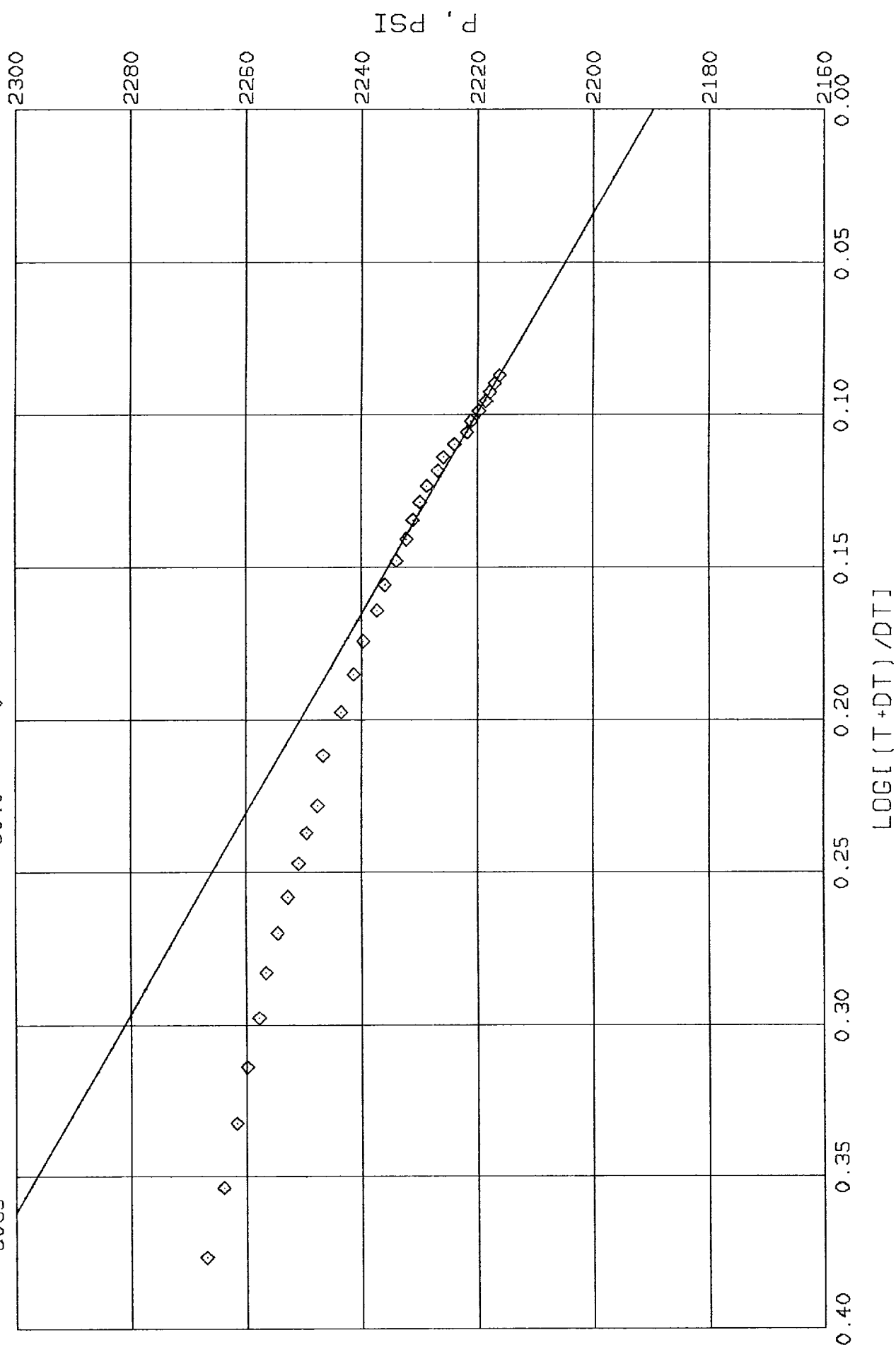
GAUGE NO CIP 1
6039



TICKET NO 71203800

GAUGE NO CIP 1
6040

GAUGE NO CIP 1
6039



SUMMARY OF RESERVOIR PARAMETERS

USING HORNER METHOD FOR LIQUID WELLS

OIL GRAVITY <u>0.0</u> °API@60 °F	WATER SALINITY <u>0.0</u> % SALT
GAS GRAVITY <u>0.700</u>	FLUID GRADIENT <u>0.4333</u> psi/ft
GAS/OIL RATIO <u>0.0</u> SCF/STB	FLUID PROPERTIES AT <u>2189.6</u> psig
TEMPERATURE <u>85.0</u> °F	VISCOSITY <u>0.807</u> cp
NET PAY <u>6.0</u> ft	FMT VOL FACTOR <u>1.003</u> R_{vol}/S_{vol}
POROSITY <u>2.0</u> %	SYSTEM COMPRESSIBILITY <u>13.02</u> $\times 10^{-6}$ vol/vol/psi
PIPE CAPACITY FACTORS _____	_____ bbl/ft

GAUGE NUMBER	6040						
GAUGE DEPTH	3259.0						
FLOW AND CIP PERIOD	1						UNITS
FINAL FLOW PRESSURE P_f	2372.4						psig
TOTAL FLOW TIME t	13.8						min
EXTRAPOLATED PRESSURE P^*	2189.6						psig
ONE CYCLE PRESSURE	2494.7						psig
PRODUCTION RATE Q	4.0						BPD
TRANSMISSIBILITY kh/μ							md-ft cp
FLOW CAPACITY kh							md-ft
PERMEABILITY k							md
SKIN FACTOR S							
DAMAGE RATIO DR							
POTENTIAL RATE Q_1							BPD
RADIUS OF INVESTIGATION r_i							ft

REMARKS:

COMPLETE ANALYSIS CALCULATIONS COULD NOT BE COMPLETED ON THE SYSTEM GENERATING THESE PLOTS AND THIS PAGE OF RESULTS.

PLEASE REFER TO THE ELECTRONIC GAUGE DATA PLOTS AND ANALYSIS ON THE FOLLOWING PAGES.

NOTICE:

THESE CALCULATIONS ARE BASED UPON INFORMATION FURNISHED BY YOU AND TAKEN FROM DRILL STEM PRESSURE CHARTS, AND ARE FURNISHED YOU FOR YOUR INFORMATION. IN FURNISHING SUCH CALCULATIONS AND EVALUATIONS BASED THEREON, HALLIBURTON IS HERELY EXPRESSING ITS OPINION. YOU AGREE THAT HALLIBURTON MAKES NO WARRANTY EXPRESS OR IMPLIED AS TO THE ACCURACY OF SUCH CALCULATIONS OR OPINIONS, AND THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER DUE TO NEGLIGENCE OR OTHERWISE, IN CONNECTION WITH SUCH OPINIONS.

ANALYSIS REMARKS

THE FOLLOWING PAGES CONTAIN:

1. THE PRESSURE FALLOFF DATA FROM THE ELECTRONIC GAUGE NO. 10018, AS GENERATED BY THE COMPUTER PROGRAM "PANL";
2. ANALYSIS PLOTS, INCLUDING
 - A. CARTESIAN, P VS. DELTA-T,
 - B. LOG-LOG, DELTA-P VS. DELTA-T,
 - C. LOG-LOG, DELTA-P VS. EQUIVALENT TIME, AND
 - D. SEMILOG, P VS. HORNER TIME FUNCTION; AND
3. A COPY OF THE "COMPUPAC" RECORD OF SURFACE PRESSURE AND FLOW RATE DURING THE INJECTION PERIOD.

A FULL AND CONCLUSIVE ANALYSIS OF RESERVOIR PARAMETERS WAS NOT PERFORMED ON THE FALLOFF DATA DUE TO A COMBINATION OF SEVERAL FACTORS, INCLUDING:

1. THE TIME OF INJECTION WAS VERY SHORT, POSSIBLY PREVENTING ESTABLISHMENT OF A SUBSTANTIAL PRESSURE TRANSIENT IN THE FORMATION AROUND THE WELL;
2. THE INJECTION RATE WAS UNSTABLE DURING THE INJECTION PERIOD, AND DECREASED TO ZERO AT ONE POINT DURING INJECTION. THE PRINCIPAL OF SUPERPOSITION CAN OFTEN BE USED TO CORRECT FOR CHANGING RATES, BUT HERE THE RESULTS WOULD BE QUESTIONABLE DUE TO THE SHORT INJECTION TIME;
3. THE ANALYSIS PLOTS INDICATE PRESSURE RESPONSE WHICH IS NOT FROM A RADIAL FLOW REGIME, BUT RATHER AN IRREGULAR RESPONSE APPARENTLY DUE TO FLOW THROUGH FRACTURES. A PARTICULAR FLOW PATTERN IS NOT READILY APPARENT FROM THE PLOTS. FLOW COULD HAVE OCCURRED THROUGH A SYMETRIC BLOCK-AND-FISSURE NATURAL FRACTURE SYSTEM, OR THROUGH A SINGLE HYDRAULICALLY-INDUCED FRACTURE EXTENDING OUT FROM THE WELLBORE, OR (MOST LIKELY) FROM A COMBINATION OF THESE EFFECTS.
4. IF A FLOW REGIME COULD BE IDENTIFIED, ANALYSIS OF THE DATA WOULD YIELD PARAMETERS PERTAINING TO THE FRACTURE SYSTEM, AND NOT THE OVERALL FISSURE-MATRIX FORMATION SYSTEM.

FOR FUTURE TESTS OF THIS TYPE, IT IS SUGGESTED:

1. THE INJECTION PERIOD BE INCREASED IN LENGTH TO AT LEAST 60 MINUTES;
2. THE INJECTION RATE BE HELD AS CONSTANT AS IS PRACTICALLY POSSIBLE;
3. THE FALLOFF PERIOD BE AT LEAST TWO TO THREE TIMES THE LENGTH OF THE INJECTION PERIOD (AS WITH THIS TEST); AND
4. AN ELECTRONIC MEMORY GAUGE BE USED TO RECORD THE DATA (AS WITH THIS TEST).

PANL 10/03/89

WELL IDENTIFICATION

WINTERSHALL CORP.

UTE MTN. 33-14

8ASIN DAKOTA FLD.

MENEFE COAL

3232'-3262'

9-15-88

FALLOFF

TEST INFORMATION

TEST TYPE FALL OFF TEST
WELL TYPE OIL
FLOW TIME 0.2 HOURS

DT (HOUR)	SQRT DT	(T+DT)/DT	P (PSI)	DP (PSI)
0.000	0.000		2368.74	0.00
0.002	0.041	97.144	2366.92	1.81
0.003	0.058	49.072	2361.46	7.28
0.007	0.082	25.072	2352.51	16.22
0.010	0.100	17.056	2341.84	26.90
0.012	0.108	14.758	2336.89	31.85
0.013	0.115	13.036	2330.43	38.31
0.017	0.129	10.632	2321.99	46.75
0.020	0.141	9.028	2313.00	55.44
0.022	0.147	8.409	2310.42	58.32
0.023	0.153	7.879	2302.07	66.67
0.025	0.158	7.422	2297.64	71.09
0.027	0.163	7.020	2295.14	73.59
0.030	0.173	6.352	2292.49	76.24
0.033	0.183	5.816	2291.07	77.67
0.038	0.196	5.188	2288.30	80.43
0.042	0.204	4.854	2286.59	82.15
0.045	0.212	4.568	2284.88	83.86
0.050	0.224	4.211	2283.24	85.50
0.055	0.235	3.919	2282.06	86.68
0.060	0.245	3.676	2281.02	87.72
0.065	0.255	3.470	2280.03	88.70
0.070	0.265	3.294	2279.09	89.65
0.075	0.274	3.141	2278.16	90.58
0.080	0.283	3.007	2277.24	91.50
0.085	0.292	2.889	2276.36	92.37
0.090	0.300	2.784	2275.51	93.22
0.095	0.308	2.690	2274.67	94.06

FANL 10/03/88

WELL IDENTIFICATION

WINTERSHALL CORP.

UTE MTN. 33-14

BASIN DAKOTA FLD.

MENEFE COAL

3232'-3262'

9-15-88

FALLOFF

DT (HOUR)	SQRT DT	(T+DT)/DT	P (PSI)	DP (PSI)
0.100	0.316	2.606	2273.86	94.87
0.105	0.324	2.529	2273.06	95.67
0.110	0.332	2.460	2272.28	96.46
0.115	0.339	2.396	2271.50	97.23
0.120	0.346	2.338	2270.74	97.99
0.125	0.354	2.284	2270.00	98.73
0.130	0.361	2.235	2269.26	99.47
0.135	0.367	2.189	2268.54	100.19
0.140	0.374	2.147	2267.83	100.91
0.145	0.381	2.107	2267.13	101.61
0.150	0.387	2.070	2266.44	102.30
0.155	0.394	2.036	2265.75	102.99
0.160	0.400	2.003	2265.07	103.66
0.165	0.406	1.973	2264.41	104.32
0.170	0.412	1.944	2263.75	104.99
0.175	0.418	1.917	2263.02	105.72
0.180	0.424	1.892	2262.32	106.42
0.185	0.430	1.868	2261.67	107.06
0.192	0.438	1.838	2260.83	107.90
0.198	0.445	1.810	2260.01	108.73
0.205	0.453	1.783	2259.19	109.54
0.212	0.460	1.759	2258.39	110.34
0.218	0.467	1.735	2257.61	111.12
0.225	0.474	1.714	2256.85	111.89
0.232	0.481	1.693	2256.10	112.63
0.238	0.488	1.674	2255.35	113.39
0.245	0.495	1.655	2254.62	114.12
0.252	0.502	1.638	2253.89	114.84
0.258	0.508	1.622	2253.15	115.58
0.265	0.515	1.606	2252.36	116.37
0.272	0.521	1.591	2251.67	117.07
0.278	0.528	1.577	2251.00	117.74
0.285	0.534	1.563	2250.35	118.39

PANL 10/03/88

WELL IDENTIFICATION

WINTERSHALL CORP.

UTE MTN. 33-14

BASIN DAKOTA FLD.

MENEFE COAL

3232'-3262'

9-15-88

FALLOFF

DT (HOUR)	SQRT DT	(T+DT)/DT	P (PSI)	DP (PSI)
0.292	0.540	1.550	2249.70	119.04
0.298	0.546	1.538	2249.06	119.68
0.305	0.552	1.526	2248.42	120.32
0.312	0.558	1.515	2247.78	120.95
0.318	0.564	1.504	2247.18	121.56
0.327	0.572	1.492	2246.49	122.24
0.335	0.579	1.479	2245.86	122.88
0.343	0.586	1.468	2245.27	123.47
0.352	0.593	1.457	2244.70	124.04
0.360	0.600	1.446	2244.16	124.58
0.370	0.608	1.434	2243.55	125.19
0.380	0.616	1.423	2242.96	125.78
0.390	0.624	1.412	2242.40	126.33
0.400	0.632	1.401	2241.84	126.89
0.410	0.640	1.392	2241.29	127.45
0.420	0.648	1.382	2240.75	127.99
0.430	0.656	1.373	2240.21	128.52
0.440	0.663	1.365	2239.70	129.04
0.450	0.671	1.357	2239.18	129.55
0.462	0.679	1.348	2238.60	130.13
0.473	0.688	1.339	2238.02	130.72
0.485	0.696	1.331	2237.43	131.31
0.497	0.705	1.323	2236.85	131.89
0.508	0.713	1.316	2236.27	132.46
0.520	0.721	1.309	2235.70	133.04
0.530	0.728	1.303	2235.19	133.54
0.542	0.736	1.296	2234.61	134.13
0.552	0.743	1.291	2234.02	134.72
0.563	0.751	1.285	2233.46	135.28
0.577	0.759	1.278	2232.92	135.82
0.583	0.764	1.275	2232.65	136.09
0.597	0.772	1.269	2232.10	136.64
0.603	0.777	1.266	2231.83	136.91

PANL 10/03/88

WELL IDENTIFICATION

WINTERSHALL CORP.
UTE MTN. 33-14
BASIN DAKOTA FLD.
MENEFE COAL
3232'-3262'
9-15-88

FALLOFF

DT (HOUR)	SQRT DT	(T+DT)/DT	P (PSI)	DP (PSI)
0.617	0.785	1.260	2231.29	137.45
0.623	0.790	1.258	2231.02	137.72
0.637	0.798	1.252	2230.47	138.26
0.643	0.802	1.250	2230.20	138.54
0.657	0.810	1.245	2229.66	139.08
0.663	0.814	1.242	2229.39	139.35
0.677	0.823	1.237	2228.85	139.88
0.683	0.827	1.235	2228.58	140.15
0.697	0.835	1.230	2228.06	140.68
0.703	0.839	1.228	2227.80	140.94
0.717	0.847	1.224	2227.29	141.45
0.723	0.850	1.222	2227.03	141.71
0.737	0.858	1.218	2226.52	142.22
0.743	0.862	1.216	2226.25	142.48
0.757	0.870	1.212	2225.74	143.00
0.763	0.874	1.210	2225.49	143.25
0.777	0.881	1.207	2224.99	143.75
0.783	0.885	1.205	2224.74	143.99
0.797	0.893	1.202	2224.25	144.49
0.803	0.896	1.200	2224.00	144.73
0.818	0.905	1.196	2223.47	145.27
0.827	0.909	1.194	2223.19	145.55
0.840	0.917	1.191	2222.70	146.03
0.848	0.921	1.189	2222.41	146.33
0.862	0.928	1.186	2221.93	146.81
0.870	0.933	1.185	2221.63	147.10
0.885	0.941	1.181	2221.13	147.60
0.893	0.945	1.180	2220.83	147.90
0.907	0.952	1.177	2220.28	148.46
0.913	0.956	1.176	2220.02	148.72
0.928	0.964	1.173	2219.50	149.23
0.937	0.968	1.171	2219.23	149.51
0.952	0.976	1.169	2218.72	150.02

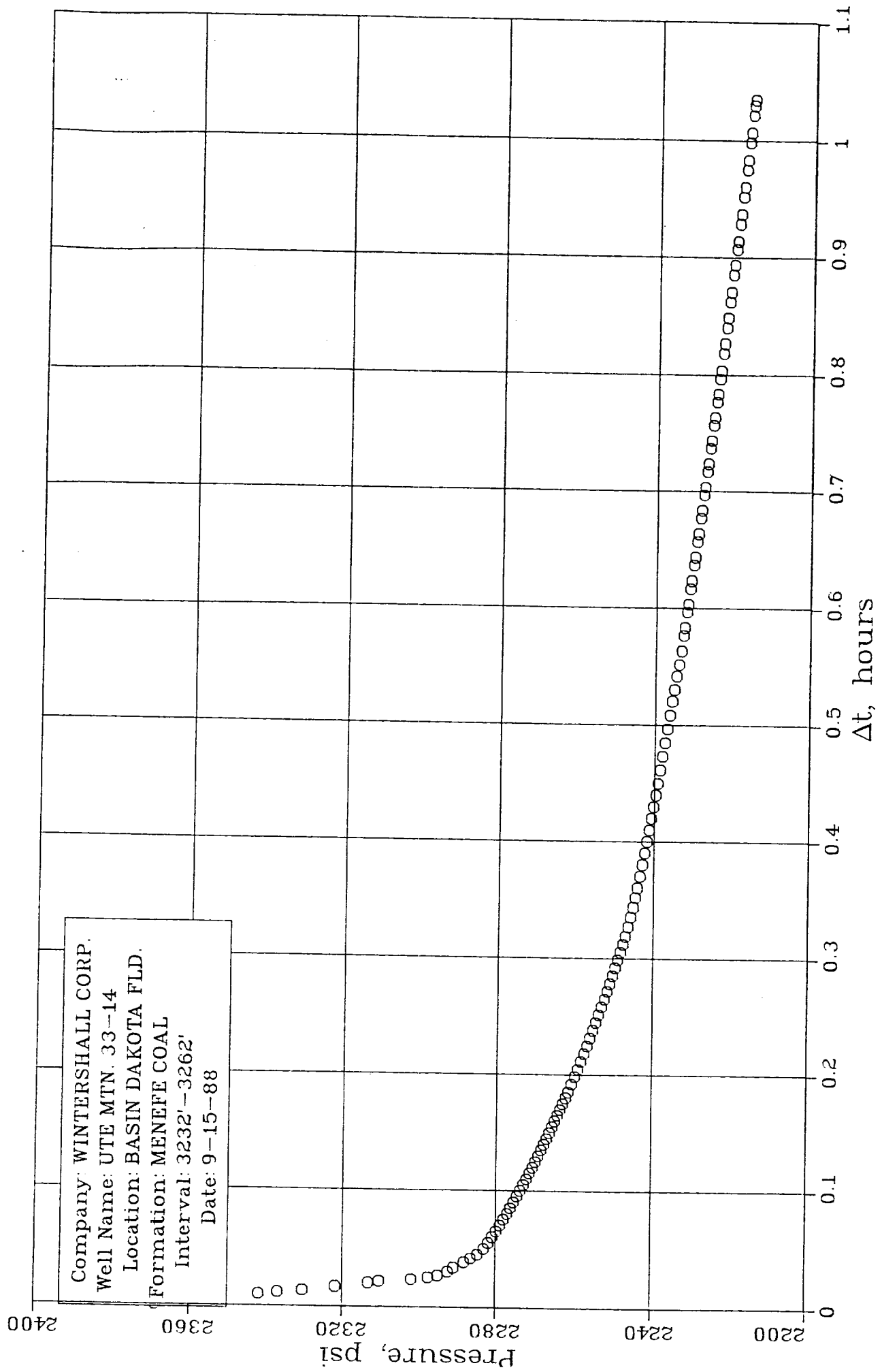
PANL 10/03/88

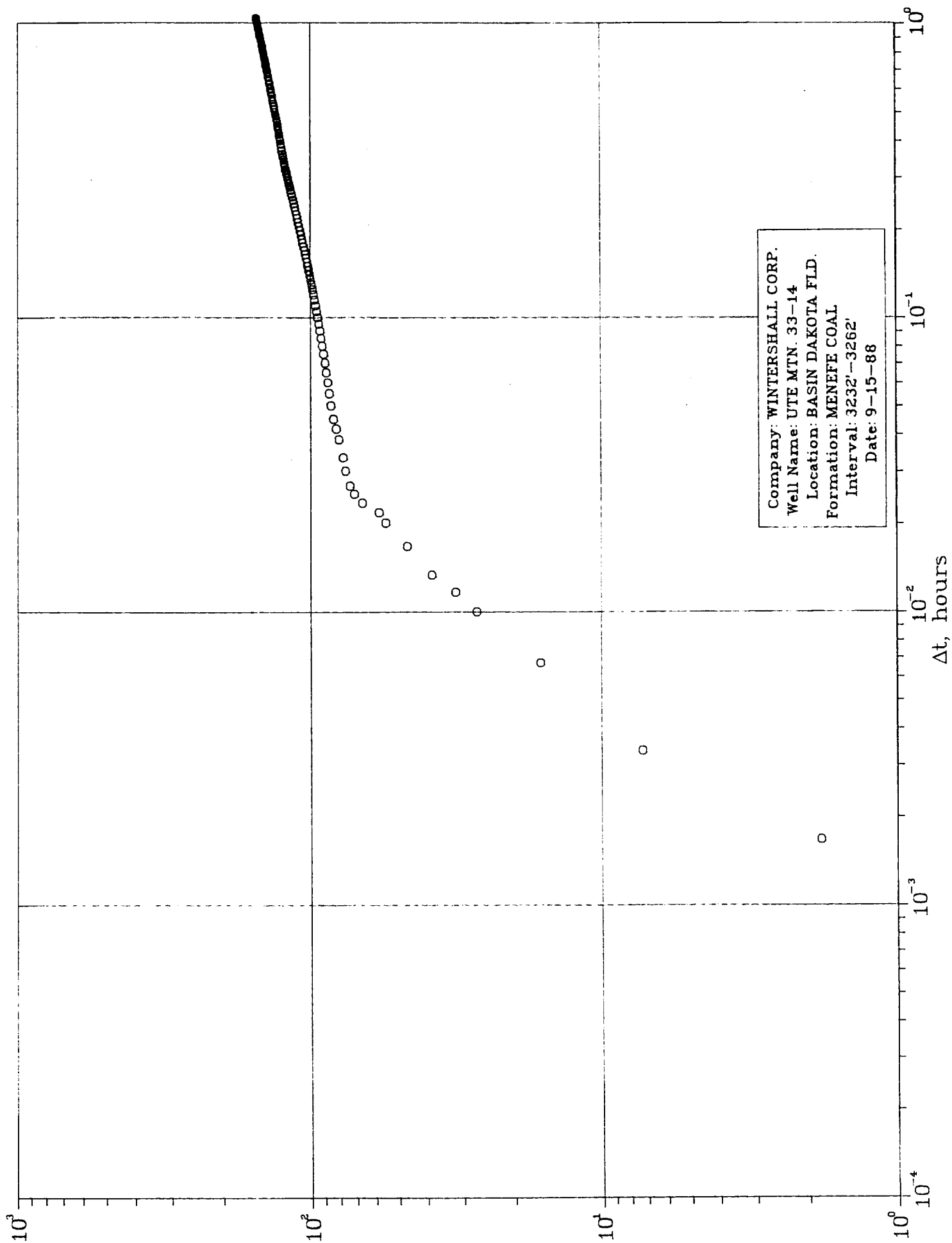
WELL IDENTIFICATION

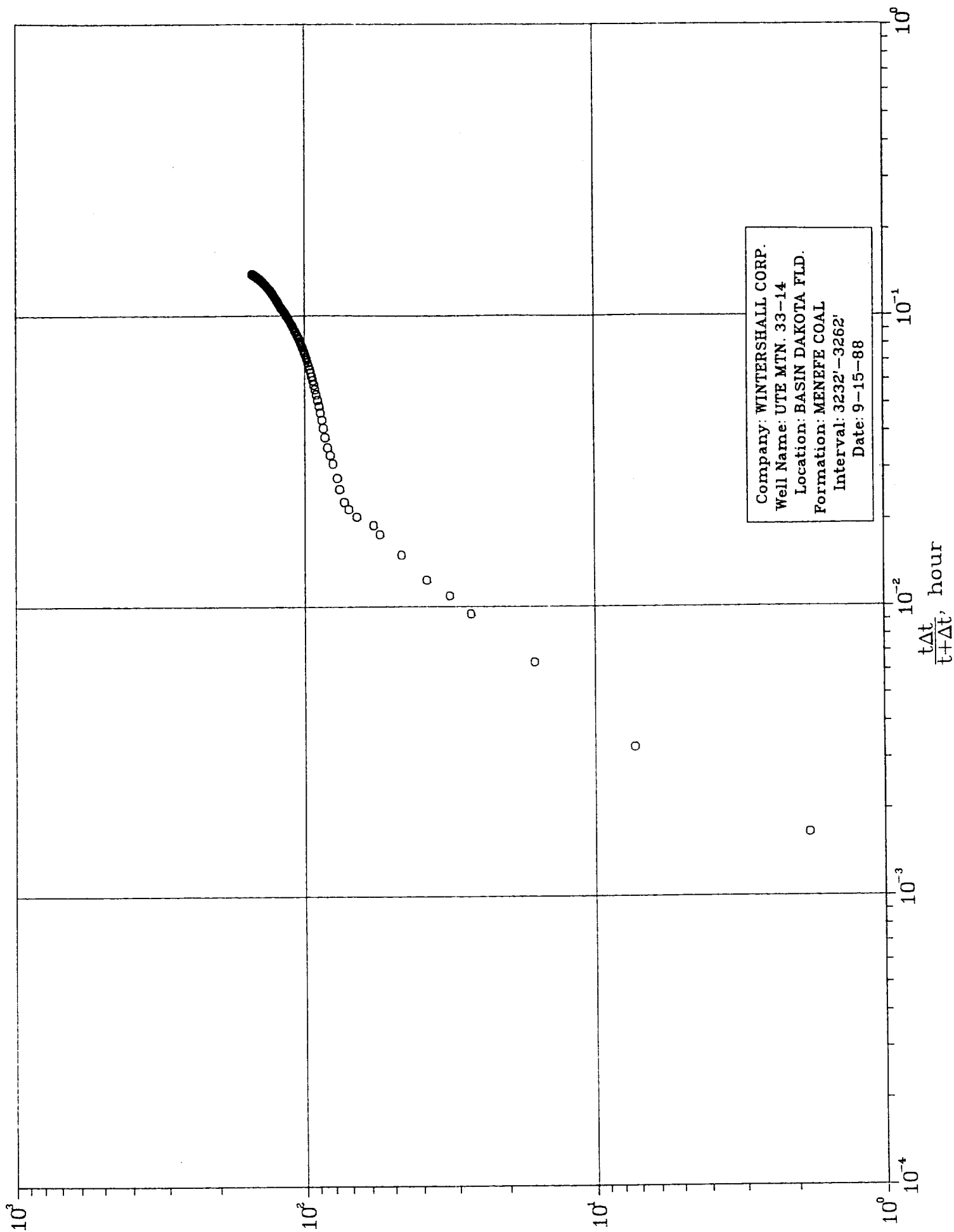
WINTERSHALL CORP.
UTE MTN. 33-14
BASIN DAKOTA FLD.
MENEFE COAL
3232'-3262'
9-15-88

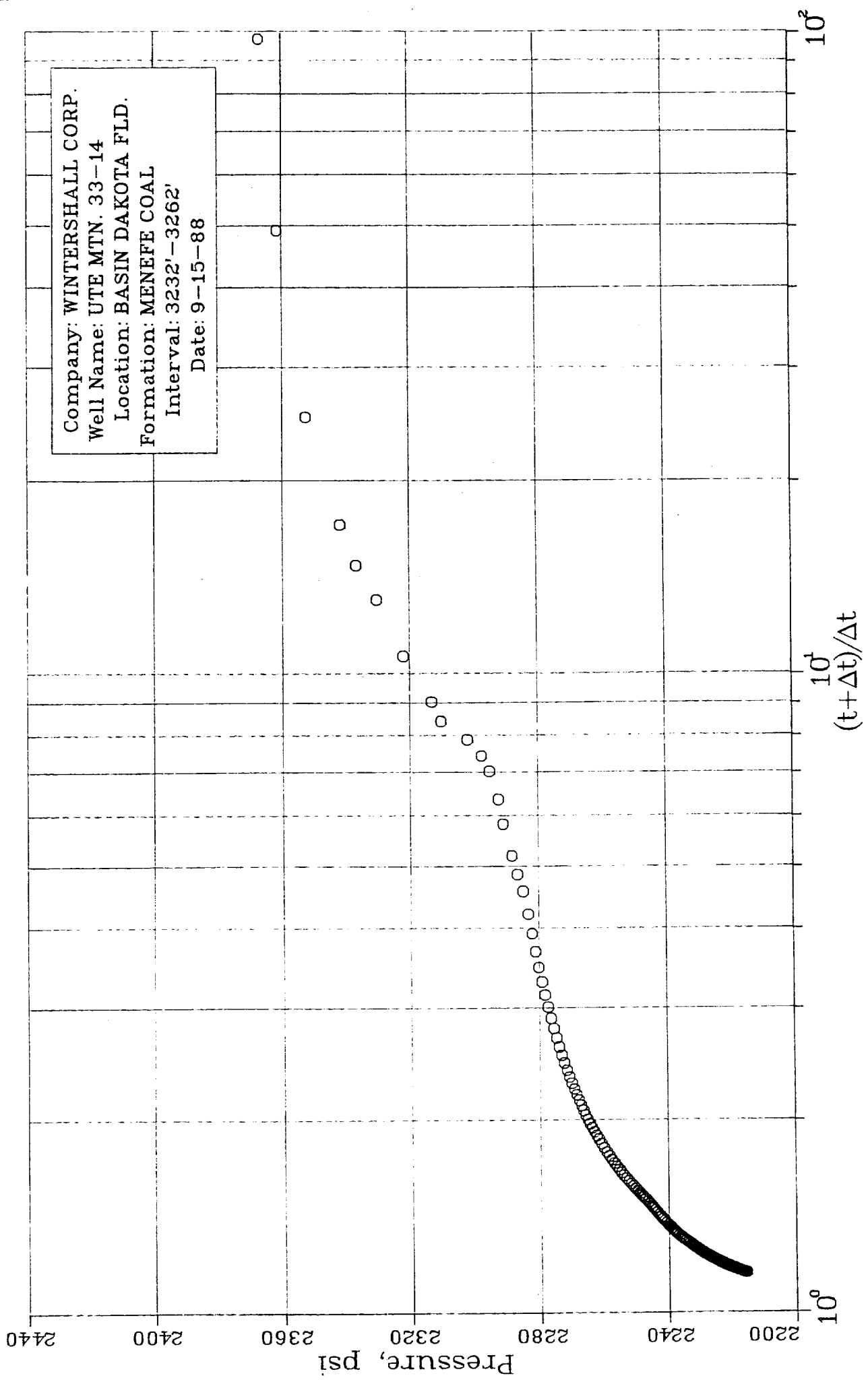
FALLOFF

DT (HOUR)	SQRT DT	(T+DT)/DT	P (PSI)	DP (PSI)
0.960	0.980	1.167	2218.43	150.31
0.975	0.987	1.165	2217.92	150.81
0.983	0.992	1.163	2217.64	151.10
0.998	0.999	1.161	2217.15	151.59
1.007	1.003	1.159	2216.88	151.85
1.022	1.011	1.157	2216.39	152.35
1.030	1.015	1.156	2216.12	152.61
1.035	1.017	1.155	2215.83	152.90









21:42:17 Event # 1 Start Job

21:46:41 Event # 2 Zero Flow Totals

21:48:00	15	0	1426
21:48:01	15	0	1426
21:48:02	15	0	1426
21:48:03	15	0	1426
21:48:04	15	0	1426
21:48:05	15	0	1426
21:48:06	15	0	1426
21:48:07	15	0	1426
21:48:08	15	0	1426
21:48:09	15	0	1426
21:48:10	15	0	1426
21:48:11	15	0	1426
21:48:12	15	0	1426
21:48:13	15	0	1426
21:48:14	15	0	1427
21:48:15	15	0	1427
21:48:16	15	0	1427
21:48:17	15	0	1427
21:48:18	15	0	1427
21:48:19	15	0	1427
21:48:20	15	0	1427
21:48:21	15	0	1427
21:48:22	15	0	1427
21:48:23	15	0	1427
21:48:24	15	0	1427
21:48:25	15	0	1427
21:48:26	15	0	1427
21:48:27	15	0	1427
21:48:28	15	0	1427
21:48:29	15	0	1427
21:48:30	15	0	1427
21:48:31	15	0	1427
21:48:32	15	0	1427
21:48:33	15	0	1427
21:48:34	15	0	1427
21:48:35	15	0	1427
21:48:36	15	0	1427
21:48:37	15	0	1427
21:48:38	15	0	1427
21:48:39	15	0	1427
21:48:40	15	0	1427
21:48:41	15	0	1427
21:48:42	15	0	1427
21:48:43	15	0	1427
21:48:44	15	0	1427
21:48:45	15	0	1427
21:48:46	15	0	1427
21:48:47	15	0	1427
21:48:48	15	0	1427
21:48:49	15	0	1427
21:48:50	15	0	1427
21:48:51	15	0	1427
21:48:52	15	0	1427
21:48:53	15	0	1427
21:48:54	15	0	1427
21:48:55	15	0	1427
21:48:56	15	0	1427

TIME	Tubing_Press PSI	Clean Rate OPH	BHTP PSI	None	None
21:48:57	15	0	1427		
21:48:58	15	0	1427		
21:48:59	15	0	1427		
21:49:00	15	0	1427		
21:49:01	15	0	1427		
21:49:02	15	0	1427		
21:49:03	15	1	1427		
21:49:04	15	1	1427		
21:49:05	16	1	1427		
21:49:06	16	1	1427		
21:49:07	16	1	1428		
21:49:08	16	1	1428		
21:49:09	Stage # 1 Pump Water				
21:49:09	16	2	1428		
21:49:10	17	2	1428		
21:49:11	17	2	1429		
21:49:12	17	2	1429		
21:49:13	17	2	1429		
21:49:14	17	2	1429		
21:49:15	18	2	1429		
21:49:16	18	2	1430		
21:49:17	18	2	1430		
21:49:18	18	2	1430		
21:49:19	18	2	1430		
21:49:20	19	2	1430		
21:49:21	19	2	1430		
21:49:22	19	2	1431		
21:49:23	19	2	1431		
21:49:24	19	2	1431		
21:49:25	19	2	1431		
21:49:26	19	2	1431		
21:49:27	19	2	1431		
21:49:28	19	2	1431		
21:49:29	19	2	1431		
21:49:30	19	2	1431		
21:49:31	19	2	1431		
21:49:32	19	2	1431		
21:49:33	19	2	1431		
21:49:34	19	2	1431		
21:49:35	19	2	1431		
21:49:36	19	2	1431		
21:49:37	19	2	1431		
21:49:38	19	3	1431		
21:49:39	19	3	1431		
21:49:40	19	3	1431		
21:49:41	19	3	1431		
21:49:42	19	3	1431		
21:49:43	20	4	1431		
21:49:44	20	4	1431		
21:49:45	20	4	1431		
21:49:46	20	5	1432		
21:49:47	20	5	1432		
21:49:48	20	5	1432		
21:49:49	20	5	1432		
21:49:50	20	5	1432		
21:49:51	20	6	1432		
21:49:52	20	6	1432		
21:49:53	20	6	1432		
21:49:54	20	6	1432		

21:47:03
21:52:41

TIME	Tubing_Press PSI	Clean Rate GPM	BHTP PSI	None	None
21:49:55	20	6	1432		
21:49:56	20	6	1432		
21:49:57	20	6	1432		
21:49:58	20	6	1432		
21:49:59	20	6	1432		
21:50:00	21	6	1432		
21:50:01	21	6	1432		
21:50:02	21	6	1432		
21:50:03	21	6	1432		
21:50:04	21	6	1432		
21:50:05	21	6	1432		
21:50:06	21	6	1432		
21:50:07	21	6	1433		
21:50:08	21	6	1433		
21:50:09	21	6	1433		
21:50:10	21	6	1433		
21:50:11	21	5	1433		
21:50:12	21	5	1433		
21:50:13	21	5	1433		
21:50:14	22	5	1433		
21:50:15	22	5	1433		
21:50:16	22	5	1433		
21:50:17	22	5	1433		
21:50:18	22	5	1433		
21:50:19	22	5	1433		
21:50:20	22	5	1434		
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21:50:23	22	5	1434		
21:50:24	22	5	1434		
21:50:25	22	5	1434		
21:50:26	22	5	1434		
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21:50:29	22	5	1434		
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21:50:31	23	5	1434		
21:50:32	23	5	1434		
21:50:33	23	5	1434		
21:50:34	23	5	1434		
21:50:35	23	5	1435		
21:50:36	23	5	1435		
21:50:37	23	5	1435		
21:50:38	23	5	1435		
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21:50:41	23	5	1435		
21:50:42	23	5	1435		
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21:50:44	23	5	1435		
21:50:45	24	5	1435		
21:50:46	24	5	1435		
21:50:47	24	5	1435		
21:50:48	24	5	1436		
21:50:49	24	5	1436		
21:50:50	24	5	1436		
21:50:51	24	5	1436		
21:50:52	24	5	1436		
21:50:53	24	5	1436		

TIME	Tubing_Press PSI	Clean Rate GPH	BHTP PSI
21:50:54	24	5	1436
21:50:55	24	5	1436
21:50:56	25	5	1436
21:50:57	25	5	1436
21:50:58	25	5	1436
21:50:59	25	5	1436
21:51:00	25	5	1436
21:51:01	25	5	1436
21:51:02	25	5	1437
21:51:03	25	5	1437
21:51:04	25	5	1437
21:51:05	25	5	1437
21:51:06	25	5	1437
21:51:07	25	5	1437
21:51:08	25	5	1437
21:51:09	25	5	1437
21:51:10	25	5	1437
21:51:11	26	5	1437
21:51:12	26	5	1437
21:51:13	26	5	1437
21:51:14	26	5	1437
21:51:15	26	5	1438
21:51:16	26	5	1438
21:51:17	26	5	1438
21:51:18	26	5	1438
21:51:19	26	5	1438
21:51:20	26	5	1438
21:51:21	27	5	1438
21:51:22	27	5	1438
21:51:23	27	5	1438
21:51:24	27	5	1438
21:51:25	27	5	1439
21:51:26	27	5	1439
21:51:27	27	5	1439
21:51:28	27	5	1439
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21:51:32	27	5	1439
21:51:33	27	5	1439
21:51:34	28	5	1439
21:51:35	28	5	1439
21:51:36	28	5	1439
21:51:37	28	5	1439
21:51:38	28	5	1440
21:51:39	28	5	1440
21:51:40	28	5	1440
21:51:41	28	5	1440
21:51:42	29	5	1440
21:51:43	29	5	1440
21:51:44	29	5	1440
21:51:45	29	5	1441
21:51:46	29	5	1441
21:51:47	29	5	1441
21:51:48	29	5	1441
21:51:49	29	5	1441
21:51:50	30	5	1441
21:51:51	30	5	1441
21:51:52	30	5	1441

TIME	Tubing_Press PSI	Clean Rate GPM	dhfr PSI	none	none
21:51:53	30	5	1442		
21:51:54	30	5	1442		
21:51:55	30	5	1442		
21:51:56	30	5	1442		
21:51:57	30	5	1442		
21:51:58	30	5	1442		
21:51:59	31	5	1442		
21:52:00	31	5	1442		
21:52:01	31	5	1442		
21:52:02	31	5	1442		
21:52:03	31	5	1443		
21:52:04	31	5	1443		
21:52:05	31	5	1443		
21:52:06	31	5	1443		
21:52:07	31	5	1443		
21:52:08	32	5	1443		
21:52:09	32	5	1443		
21:52:10	32	5	1443		
21:52:11	32	5	1444		
21:52:12	32	5	1444		
21:52:13	32	5	1444		
21:52:14	32	5	1444		
21:52:15	32	5	1444		
21:52:16	32	5	1444		
21:52:17	33	5	1444		
21:52:18	33	5	1444		
21:52:19	33	5	1444		
21:52:20	33	5	1445		
21:52:21	33	5	1445		
21:52:22	33	5	1445		
21:52:23	34	5	1445		
21:52:24	34	5	1445		
21:52:25	34	5	1445		
21:52:26	34	5	1446		
21:52:27	34	5	1446		
21:52:28	34	5	1446		
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21:52:30	34	5	1446		
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21:52:32	35	5	1446		
21:52:33	35	5	1447		
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21:52:35	35	5	1447		
21:52:36	35	5	1447		
21:52:37	35	5	1447		
21:52:38	36	5	1447		
21:52:39	36	5	1448		
21:52:40	36	5	1448		
21:52:41	36	5	1448		
21:52:42	36	5	1448		
21:52:43	37	5	1448		
21:52:44	37	5	1448		
21:52:45	37	5	1448		
21:52:46	37	5	1449		
21:52:47	37	5	1449		
21:52:48	37	5	1449		
21:52:49	37	5	1449		
21:52:50	38	5	1449		
21:52:51	38	5	1449		

TIME	Tubing_Press PSI	Clean Rate OPM	BHTP PSI	None	None
21:52:52	38	5	1450		
21:52:53	38	5	1450		
21:52:54	38	5	1450		
21:52:55	39	5	1450		
21:52:56	39	5	1450		
21:52:57	39	5	1451		
21:52:58	39	5	1451		
21:52:59	39	5	1451		
21:53:00	39	5	1451		
21:53:01	40	5	1451		
21:53:02	40	5	1451		
21:53:03	40	5	1452		
21:53:04	40	5	1452		
21:53:05	40	5	1452		
21:53:06	41	5	1452		
21:53:07	41	5	1452		
21:53:08	41	5	1453		
21:53:09	41	5	1453		
21:53:10	41	5	1453		
21:53:11	42	5	1453		
21:53:12	42	5	1453		
21:53:13	42	5	1454		
21:53:14	42	5	1454		
21:53:15	42	5	1454		
21:53:16	43	5	1454		
21:53:17	43	5	1455		
21:53:18	43	5	1455		
21:53:19	43	5	1455		
21:53:20	44	5	1455		
21:53:21	44	5	1456		
21:53:22	44	5	1456		
21:53:23	44	5	1456		
21:53:24	45	5	1456		
21:53:25	45	5	1457		
21:53:26	45	5	1457		
21:53:27	45	5	1457		
21:53:28	46	5	1457		
21:53:29	46	5	1458		
21:53:30	46	5	1458		
21:53:31	46	5	1458		
21:53:32	47	5	1458		
21:53:33	47	5	1458		
21:53:34	47	5	1459		
21:53:35	47	5	1459		
21:53:36	48	5	1459		
21:53:37	48	5	1459		
21:53:38	48	5	1460		
21:53:39	48	5	1460		
21:53:40	49	5	1460		
21:53:41	49	5	1460		
21:53:42	49	5	1461		
21:53:43	49	5	1461		
21:53:44	50	5	1461		
21:53:45	50	5	1462		
21:53:46	50	5	1462		
21:53:47	51	5	1462		
21:53:48	51	5	1463		
21:53:49	51	5	1463		
21:53:50	51	5	1463		

Page 7	7/10/00	CONCRETE VER. 1.00			
TIME	Tubing_Press PSI	Clean Rate GPM	BHTP PSI	None	None
21:53:51	52	5	1463		
21:53:52	52	5	1464		
21:53:53	52	5	1464		
21:53:54	53	5	1464		
21:53:55	53	5	1465		
21:53:56	53	5	1465		
21:53:57	54	5	1465		
21:53:58	54	5	1466		
21:53:59	54	5	1466		
21:54:00	55	5	1466		
21:54:01	55	5	1467		
21:54:02	55	5	1467		
21:54:03	56	5	1468		
21:54:04	56	5	1468		
21:54:05	57	5	1468		
21:54:06	57	5	1469		
21:54:07	57	5	1469		
21:54:08	58	5	1469		
21:54:09	58	5	1470		
21:54:10	58	5	1470		
21:54:11	59	5	1470		
21:54:12	59	5	1471		
21:54:13	59	5	1471		
21:54:14	60	5	1471		
21:54:15	60	5	1472		
21:54:16	60	5	1472		
21:54:17	61	5	1472		
21:54:18	61	5	1473		
21:54:19	62	5	1473		
21:54:20	62	5	1474		
21:54:21	62	5	1474		
21:54:22	63	5	1475		
21:54:23	63	5	1475		
21:54:24	64	5	1475		
21:54:25	64	5	1476		
21:54:26	65	5	1476		
21:54:27	65	5	1477		
21:54:28	66	5	1477		
21:54:29	66	5	1478		
21:54:30	67	5	1478		
21:54:31	67	5	1479		
21:54:32	68	5	1479		
21:54:33	68	5	1480		
21:54:34	69	5	1480		
21:54:35	69	5	1481		
21:54:36	70	5	1481		
21:54:37	70	5	1482		
21:54:38	71	4	1482		
21:54:39	71	5	1483		
21:54:40	72	4	1483		
21:54:41	72	4	1484		
21:54:42	73	4	1484		
21:54:43	73	4	1485		
21:54:44	74	4	1486		
21:54:45	74	4	1486		
21:54:46	75	4	1487		
21:54:47	75	4	1487		
21:54:48	76	4	1488		
21:54:49	77	4	1488		

TIME	Tubing_Press PSI	Clean Rate GPH	SHR PSI	none	none
21:54:50	77	4	1489		
21:54:51	78	4	1490		
21:54:52	78	4	1490		
21:54:53	79	4	1491		
21:54:54	80	4	1491		
21:54:55	80	4	1492		
21:54:56	81	4	1493		
21:54:57	82	4	1493		
21:54:58	82	4	1494		
21:54:59	83	4	1495		
21:55:00	83	4	1495		
21:55:01	84	4	1496		
21:55:02	85	4	1497		
21:55:03	86	4	1497		
21:55:04	87	4	1498		
21:55:05	87	4	1499		
21:55:06	88	4	1500		
21:55:07	89	4	1500		
21:55:08	90	4	1501		
21:55:09	90	4	1502		
21:55:10	91	4	1503		
21:55:11	92	4	1504		
21:55:12	93	4	1505		
21:55:13	94	4	1505		
21:55:14	95	4	1506		
21:55:15	95	4	1507		
21:55:16	96	4	1508		
21:55:17	97	4	1509		
21:55:18	98	4	1510		
21:55:19	99	4	1511		
21:55:20	100	4	1512		
21:55:21	101	4	1513		
21:55:22	102	4	1514		
21:55:23	103	4	1515		
21:55:24	104	4	1515		
21:55:25	105	4	1517		
21:55:26	106	4	1517		
21:55:27	107	4	1519		
21:55:28	108	4	1519		
21:55:29	109	4	1521		
21:55:30	110	4	1522		
21:55:31	111	4	1523		
21:55:32	112	4	1524		
21:55:33	113	4	1525		
21:55:34	115	4	1526		
21:55:35	115	4	1527		
21:55:36	117	4	1529		
21:55:37	118	4	1530		
21:55:38	120	4	1531		
21:55:39	121	4	1533		
21:55:40	123	4	1534		
21:55:41	124	4	1535		
21:55:42	125	5	1537		
21:55:43	127	5	1539		
21:55:44	129	5	1540		
21:55:45	131	5	1543		
21:55:46	133	5	1544		
21:55:47	135	5	1547		
21:55:48	138	6	1550		

TIME	Tubing_Press PSI	Clean Rate CPH	Drill PSI
21:55:49	141	6	1552
21:55:50	144	6	1556
21:55:51	148	6	1560
21:55:52	152	6	1563
21:55:53	155	6	1567
21:55:54	159	6	1570
21:55:55	162	6	1573
21:55:56	164	7	1576
21:55:57	166	7	1578
21:55:58	168	7	1580
21:55:59	171	7	1582
21:56:00	173	7	1584
21:56:01	176	7	1587
21:56:02	178	7	1590
21:56:03	182	7	1593
21:56:04	185	7	1596
21:56:05	189	7	1601
21:56:06	194	7	1606
21:56:07	200	7	1611
21:56:08	205	7	1617
21:56:09	211	7	1622
21:56:10	216	7	1628
21:56:11	221	6	1633
21:56:12	227	6	1639
21:56:13	233	6	1645
21:56:14	238	6	1650
21:56:15	244	6	1656
21:56:16	249	6	1661
21:56:17	255	6	1666
21:56:18	261	6	1673
21:56:19	266	6	1678
21:56:20	273	6	1685
21:56:21	280	6	1692
21:56:22	287	6	1698
21:56:23	293	6	1705
21:56:24	300	6	1711
21:56:25	306	6	1718
21:56:26	313	6	1725
21:56:27	321	6	1732
21:56:28	327	6	1739
21:56:29	336	6	1748
21:56:30	343	6	1755
21:56:31	351	6	1762
21:56:32	359	6	1770
21:56:33	367	6	1779
21:56:34	377	6	1788
21:56:35	386	6	1798
21:56:36	396	6	1807
21:56:37	406	6	1817
21:56:38	415	6	1826
21:56:39	424	6	1835
21:56:40	434	6	1846
21:56:41	445	6	1856
21:56:42	454	6	1866
21:56:43	464	5	1875
21:56:44	474	5	1885
21:56:45	483	5	1894
21:56:46	492	5	1904
21:56:47	502	5	1914

TIME	TUBING PRESS PSI	CLEAN RATE GPH	DATE PSI
21:56:48	513	5	1924
21:56:49	523	5	1934
21:56:50	532	5	1943
21:56:51	541	5	1952
21:56:52	551	4	1962
21:56:53	559	4	1970
21:56:54	566	3	1977
21:56:55	572	3	1983
21:56:56	577	2	1988
21:56:57	580	2	1991
21:56:58	582	2	1994
21:56:59	583	1	1994
21:57:00	583	1	1995
21:57:01	582	0	1993
21:57:02	580	0	1992
21:57:03	578	0	1990
21:57:04	576	0	1988
21:57:05	574	0	1986
21:57:06	572	0	1984
21:57:07	570	0	1982
21:57:08	569	0	1980
21:57:09	567	0	1979
21:57:10	565	0	1977
21:57:11	564	0	1975
21:57:12	562	0	1974
21:57:13	560	0	1972
21:57:14	559	0	1970
21:57:15	557	0	1969
21:57:16	555	0	1967
21:57:17	554	0	1966
21:57:18	552	0	1964
21:57:19	551	0	1963
21:57:20	549	0	1961
21:57:21	548	0	1959
21:57:22	547	0	1959
21:57:23	547	1	1958
21:57:24	547	1	1959
21:57:25	549	1	1961
21:57:26	551	1	1963
21:57:27	555	2	1966
21:57:28	559	2	1971
21:57:29	564	2	1975
21:57:30	569	2	1981
21:57:31	576	3	1987
21:57:32	582	3	1994
21:57:33	589	3	2001
21:57:34	595	3	2007
21:57:35	602	3	2013
21:57:36	608	3	2020
21:57:37	614	3	2026
21:57:38	620	3	2031
21:57:39	626	3	2038
21:57:40	633	3	2044
21:57:41	639	3	2051
21:57:42	645	3	2057
21:57:43	651	3	2062
21:57:44	657	3	2069
21:57:45	664	3	2076
21:57:46	671	3	2082

TIME	Tubing_Press PSI	Clean Rate CPM	Drill PSI
21:57:47	677	3	2088
21:57:48	683	3	2095
21:57:49	689	3	2101
21:57:50	695	3	2107
21:57:51	702	3	2114
21:57:52	708	3	2120
21:57:53	715	3	2127
21:57:54	722	3	2133
21:57:55	727	3	2139
21:57:56	733	3	2145
21:57:57	740	3	2152
21:57:58	746	3	2158
21:57:59	753	3	2165
21:58:00	759	3	2171
21:58:01	765	3	2177
21:58:02	772	3	2183
21:58:03	778	3	2189
21:58:04	783	3	2195
21:58:05	790	3	2202
21:58:06	796	3	2207
21:58:07	802	3	2214
21:58:08	808	3	2220
21:58:09	814	3	2226
21:58:10	820	3	2232
21:58:11	827	3	2238
21:58:12	833	3	2244
21:58:13	839	3	2251
21:58:14	845	3	2257
21:58:15	851	2	2263
21:58:16	857	3	2269
21:58:17	863	2	2275
21:58:18	869	2	2280
21:58:19	875	3	2286
21:58:20	880	2	2292
21:58:21	886	2	2298
21:58:22	892	2	2304
21:58:23	898	2	2309
21:58:24	904	2	2315
21:58:25	909	2	2321
21:58:26	916	2	2327
21:58:27	921	2	2333
21:58:28	927	2	2339
21:58:29	933	2	2345
21:58:30	939	2	2351
21:58:31	945	2	2357
21:58:32	951	2	2363
21:58:33	957	2	2368
21:58:34	962	2	2374
21:58:35	968	2	2379
21:58:36	972	2	2384
21:58:37	976	2	2388
21:58:38	979	1	2391
21:58:39	981	1	2393
21:58:40	983	1	2394
21:58:41	983	1	2395
21:58:42	984	0	2395
21:58:43	983	0	2395
21:58:44	982	0	2394
21:58:45	981	0	2393

TIME	Tubing_Press PSI	Clean Rate GPM	BHTP PSI	None	None
21:58:46	980	0	2391		
21:58:47	978	0	2390		
21:58:48	977	0	2389		
21:58:49	976	0	2387		
21:58:50	975	0	2386		
21:58:51	974	0	2386		
21:58:52	973	0	2384		
21:58:53	972	0	2383		
21:58:54	971	0	2383		
21:58:55	970	0	2382		
21:58:56	969	0	2380		
21:58:57	968	0	2380		
21:58:58	967	0	2379		
21:58:59	966	0	2378		

Stage Total 41 GAL

22:00:10 Stage # 2 Stop Pumping

22:00:49 Event # 3 2 Min Shutin Pres. Tubing_Press 866 PSI

22:02:08 Event # 4 End Job