

WELL NAME: Sleeper J 1-21
COMPANY: Burk & Williams Operating Co.
LOCATION: 21-22s-11w
Stafford County, Kansas
DATE: 9/1/98

TRILOBITE TESTING L.L.C.

OPERATOR : Burk & Williams

DATE 08/29/199

WELL NAME: Sleeper

KB 1832.00 ft TICKET NO: 11848 DST #1

LOCATION : 21-22w-11w Stafford co KS

GR 1823.00 ft FORMATION: Howard

INTERVAL : 1528.00 To 1568.00 ft

TD 1568.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	10332	10332	2357			PF Fr. 2225 to 2240 hr
SI 30 Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 2240 to 2310 hr
SF 15 Clock(hrs)	12hr,	12hr.	elec.			SF Fr. 2310 to 2325 hr
FS 30 Depth(ft)	1565.0	1565.0	1545.0	0.0	0.0	FS Fr. 2325 to 2355 hr

	Field	1	2	3	4	
A. Init Hydro	852.0	842.0	765.0	0.0	0.0	T STARTED 2100 hr
B. First Flow	31.0	31.0	21.0	0.0	0.0	T ON BOTM 2223 hr
B1. Final Flow	31.0	31.0	25.0	0.0	0.0	T OPEN 2225 hr
C. In Shut-in	51.0	55.0	44.0	0.0	0.0	T PULLED 2355 hr
D. Init Flow	31.0	31.0	26.0	0.0	0.0	T OUT 0030 hr
E. Final Flow	31.0	31.0	24.0	0.0	0.0	
F. Fl Shut-in	51.0	42.0	28.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	842.0	823.0	720.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 52000.00 lbs
						Initial Str Wt 48000.00 lbs
						Unseated Str Wt 48000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 484.00 ft
						D.P. Length 1086.00 ft

RECOVERY

Tot Fluid 5.00 ft of 5.00 ft in DC and 0.00 ft in DP

5.00 ft of drilling mud

0.00 ft of

0.00 ft of

0.00 ft of

0.00 ft of

0.00 ft of

0.00 ft of

0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Weak blow built to 1/4"

Initial Shut-in:

No blow back

Final Flow:

No blow

Final Shut-in:

No blow back

MUD DATA-----

Mud Type	Chemical
Weight	8.60 lb/c
Vis.	37.00 S/L
W.L.	0.00 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	85.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 n
Cushion Type	none
Reversed Out N	
Tool Chased N	
Tester	Darren L.Amerine
Co. Rep.	Jeff Burk
Contr.	Sterling
Rig #	8
Unit #	no
Pump T.	none

SAMPLES:

SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

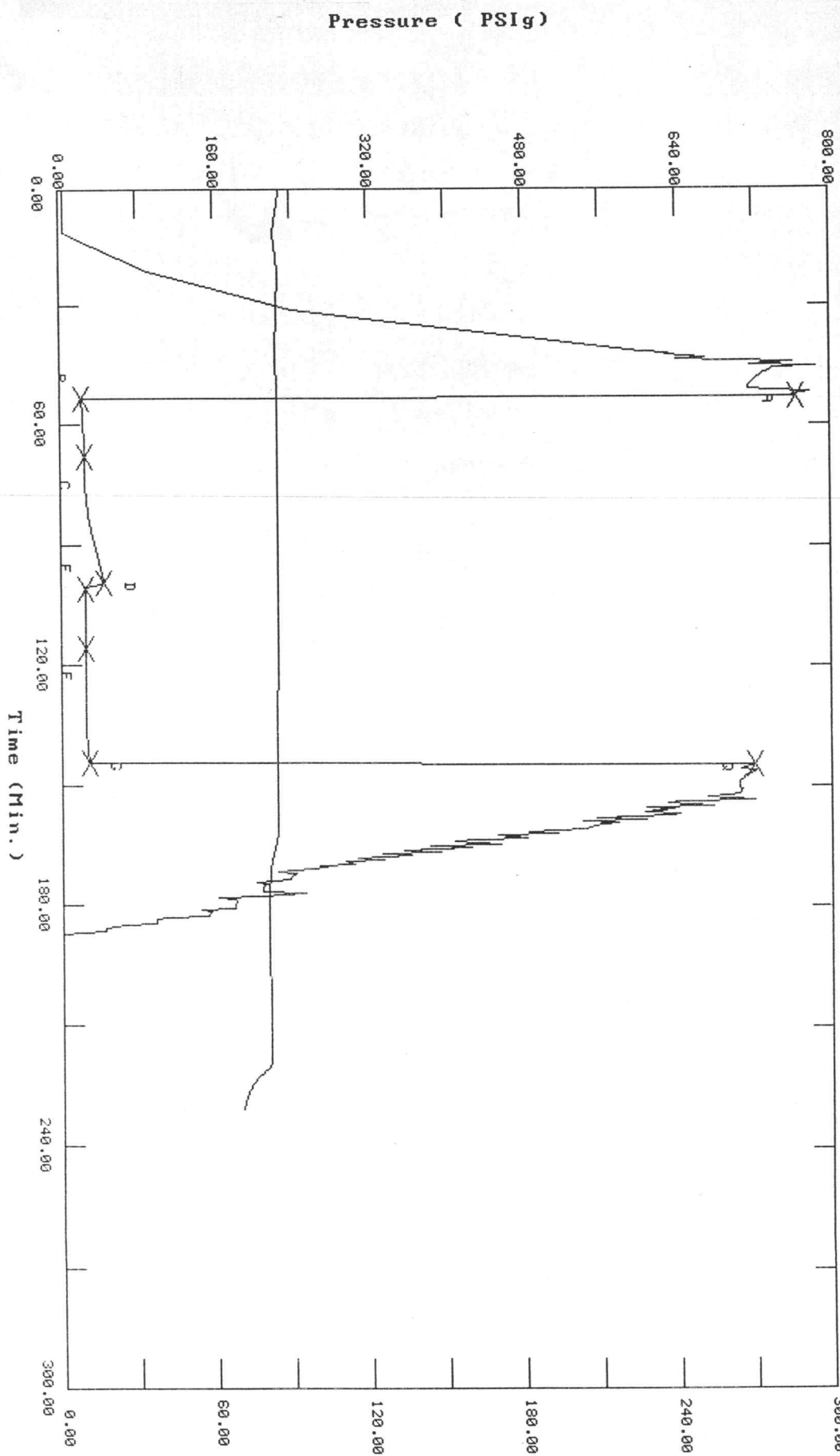
ELL NAME: Sleeper	P.O. SUB top of tool @	1508
	C.O. SUB	1509
LOCATION : 21-22w-11w Stafford co KS	S.I. TOOL	1514
TICKET No. 11848 D.S.T. No. 1 DATE 08/29/199		
TOTAL TOOL TO BOTTOM OF TOP PACKERS 20	HMV	1519
INTERVAL TOOL		
BOTTOM PACKERS AND ANCHOR 40	JARS	
TOTAL TOOL 60		
DRILL COLLAR ANCHOR IN INTERVAL		
D.C. ANCHOR STND.Stands Single Total	SAFETY JOINT	
D.P. ANCHOR STND.Stands Single 1 Total 31	PACKER	1523
TOTAL ASSEMBLY	PACKER	1528
D.C. ABOVE TOOLS.Stands8 Single Total 484	DEPTH 1528	
D.P. ABOVE TOOLS.Stands17 Single Total 1055	STUBB 1'to	1529
	ANCHOR 5'of perfs.to	1534
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 1600	alpiine rec.@ 1545	
	31'jt.drillpipe to	1565
TOTAL DEPTH 1568		1565
		1565
TOTAL DRILL PIPE ABOVE K.B. 32		
REMARKS:	T.C.	
	DEPTH	
		1565
		1565
	Ak-1 rec.@ 1565	
	BULLNOSE 3'bullnose to	1568
	T.D.	

TEST HISTORY

TK#11848 DST#1 Sleeper J #1-21 Burk@Williams

Flag Points

t(Min.)	P(PSig)
A: 0.00	765.16
B: 0.00	21.47
C: 14.50	24.91
D: 31.50	44.48
E: 0.00	25.54
F: 15.00	24.42
G: 28.50	27.82
Q: 0.00	720.34



10332
DST #1

X

7.11.11 11:11 AM

To Joe 362 11/11/11

67101

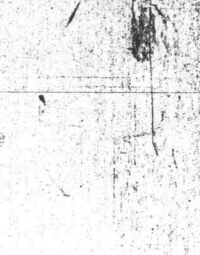
10332
DST #1

X

7.11.11 11:11 AM

To Joe 362 11/11/11

67101



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#11848 DST#1 Sleeper J #1-21 Burk@Williams

DATE: 08/29/98 TIME: 21:31:53

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	53.00	765.2	0.0	84.34		
***** Start Flow 1	0.00	21.5	0.0	84.35		
	0.50	21.7	0.2	84.34		
	1.00	22.1	0.6	84.33		
	1.50	22.4	0.9	84.32		
	2.00	22.6	1.1	84.31		
	2.50	22.8	1.3	84.31		
	3.00	23.0	1.5	84.31		
	3.50	23.1	1.6	84.30		
	4.00	23.2	1.7	84.29		
	4.50	23.3	1.8	84.28		
	5.00	23.5	2.0	84.29		
	5.50	23.6	2.1	84.29		
	6.00	23.7	2.2	84.29		
	6.50	23.8	2.3	84.29		
	7.00	23.9	2.4	84.30		
	7.50	23.9	2.5	84.30		
	8.00	24.0	2.6	84.31		
	8.50	24.1	2.7	84.31		
	9.00	24.2	2.7	84.32		
	9.50	24.3	2.8	84.32		
	10.00	24.4	2.9	84.33		
	10.50	24.4	3.0	84.34		
	11.00	24.5	3.0	84.35		
	11.50	24.6	3.1	84.35		
	12.00	24.6	3.1	84.36		
	12.50	24.7	3.2	84.36		
	13.00	24.7	3.2	84.37		
	13.50	24.8	3.3	84.38		
	14.00	24.9	3.4	84.38		
***** End Flow 1	14.50	24.9	3.4	84.39		
***** Start Shutin 1	0.00	24.9	0.0	84.39	0.0000	0.001
	0.50	24.9	0.0	84.40	30.0000	0.001
	1.00	24.9	0.0	84.40	15.5000	0.001
	1.50	25.0	0.1	84.41	10.6667	0.001
	2.00	25.1	0.1	84.41	8.2500	0.001
	2.50	25.1	0.2	84.42	6.8000	0.001
	3.00	25.2	0.3	84.43	5.8333	0.001
	3.50	25.2	0.3	84.43	5.1429	0.001
	4.00	25.3	0.4	84.44	4.6250	0.001
	4.50	25.4	0.4	84.44	4.2222	0.001
	5.00	25.4	0.5	84.44	3.9000	0.001
	5.50	25.5	0.6	84.45	3.6364	0.001
	6.00	25.5	0.6	84.46	3.4167	0.001
	6.50	25.6	0.7	84.46	3.2308	0.001
	7.00	25.6	0.7	84.46	3.0714	0.001
	7.50	25.7	0.7	84.46	2.9333	0.001
	8.00	25.7	0.8	84.47	2.8125	0.001
	8.50	25.8	0.8	84.47	2.7059	0.001
	9.00	25.8	0.9	84.48	2.6111	0.001
	9.50	25.9	1	84.48	2.5263	0.001

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#11848 DST#1 Sleeper J #1-21 Burk@Williams

DATE: 08/29/98

TIME: 21:31:53

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	10.00	25.9	1.0	84.47	2.4500	0.001
	10.50	26.0	1.1	84.48	2.3810	0.001
	11.00	26.1	1.2	84.48	2.3182	0.001
	11.50	26.2	1.3	84.49	2.2609	0.001
	12.00	26.9	2.0	84.49	2.2083	0.001
	12.50	27.4	2.5	84.49	2.1600	0.001
	13.00	27.5	2.6	84.49	2.1154	0.001
	13.50	27.8	2.9	84.49	2.0741	0.001
	14.00	28.0	3.1	84.49	2.0357	0.001
	14.50	28.5	3.6	84.49	2.0000	0.001
	15.00	28.8	3.9	84.49	1.9667	0.001
	15.50	29.2	4.3	84.49	1.9355	0.001
	16.00	29.6	4.6	84.49	1.9062	0.001
	16.50	29.9	5.0	84.49	1.8788	0.001
	17.00	30.3	5.4	84.49	1.8529	0.001
	17.50	30.7	5.8	84.49	1.8286	0.001
	18.00	31.1	6.2	84.49	1.8056	0.001
	18.50	31.5	6.6	84.49	1.7838	0.001
	19.00	32.0	7.1	84.49	1.7632	0.001
	19.50	32.4	7.5	84.49	1.7436	0.001
	20.00	33.0	8.1	84.49	1.7250	0.001
	20.50	33.6	8.7	84.49	1.7073	0.001
	21.00	34.2	9.3	84.49	1.6905	0.001
	21.50	34.7	9.8	84.48	1.6744	0.001
	22.00	35.2	10.3	84.49	1.6591	0.001
	22.50	35.6	10.7	84.48	1.6444	0.001
	23.00	36.1	11.2	84.48	1.6304	0.001
	23.50	36.6	11.7	84.48	1.6170	0.001
	24.00	37.1	12.1	84.47	1.6042	0.001
	24.50	37.7	12.7	84.48	1.5918	0.001
	25.00	38.2	13.2	84.47	1.5800	0.001
	25.50	38.7	13.7	84.47	1.5686	0.001
	26.00	39.1	14.2	84.47	1.5577	0.002
	26.50	39.7	14.8	84.46	1.5472	0.002
	27.00	40.2	15.3	84.46	1.5370	0.002
	27.50	40.7	15.7	84.46	1.5273	0.002
	28.00	41.1	16.2	84.45	1.5179	0.002
	28.50	41.6	16.7	84.45	1.5088	0.002
	29.00	42.0	17.1	84.45	1.5000	0.002
	29.50	42.5	17.6	84.45	1.4915	0.002
	30.00	42.9	18.0	84.44	1.4833	0.002
	30.50	43.4	18.5	84.44	1.4754	0.002
	31.00	43.9	19.0	84.44	1.4677	0.002
***** End Shut-in 1	31.50	44.5	19.6	84.43	1.4603	0.002
***** Start Flow 2	0.00	25.5	0.0	84.42		
	0.50	25.6	0.0	84.42		
	1.00	25.6	0.0	84.41		
	1.50	25.6	0.1	84.41		
	2.00	25.6	0.1	84.40		
	2.50	25.6	0.1	84.40		
	3.00	25.7	0.2	84.40		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#11848 DST#1 Sleeper J #1-21 Burk@Williams

DATE: 08/29/98

TIME: 21:31:53

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	3.50	25.7	0.2	84.39		
	4.00	25.7	0.1	84.38		
	4.50	25.7	0.2	84.38		
	5.00	25.7	0.2	84.37		
	5.50	25.7	0.2	84.37		
	6.00	25.7	0.1	84.37		
	6.50	25.7	0.2	84.36		
	7.00	25.8	0.2	84.36		
	7.50	25.7	0.2	84.34		
	8.00	25.7	0.2	84.34		
	8.50	25.8	0.2	84.34		
	9.00	25.8	0.2	84.33		
	9.50	24.5	-1.1	84.33		
	10.00	24.4	-1.2	84.33		
	10.50	24.4	-1.2	84.32		
	11.00	24.4	-1.2	84.32		
	11.50	24.3	-1.2	84.32		
	12.00	24.3	-1.2	84.31		
	12.50	24.3	-1.2	84.30		
	13.00	24.4	-1.2	84.30		
	13.50	24.4	-1.2	84.29		
	14.00	24.4	-1.2	84.29		
	14.50	24.4	-1.1	84.28		
	15.00	24.4	-1.1	84.28		
***** End Flow 2						
***** Start Shutin 2	0.00	24.4	0.0	84.28	0.0000	0.001
	0.50	24.4	0.0	84.27	60.0000	0.001
	1.00	24.5	0.0	84.26	30.5000	0.001
	1.50	24.5	0.0	84.26	20.6667	0.001
	2.00	24.5	0.0	84.25	15.7500	0.001
	2.50	24.5	0.1	84.25	12.8000	0.001
	3.00	24.5	0.1	84.24	10.8333	0.001
	3.50	24.5	0.1	84.23	9.4286	0.001
	4.00	24.5	0.1	84.23	8.3750	0.001
	4.50	24.5	0.1	84.23	7.5556	0.001
	5.00	24.6	0.1	84.22	6.9000	0.001
	5.50	24.6	0.2	84.21	6.3636	0.001
	6.00	24.6	0.2	84.21	5.9167	0.001
	6.50	24.6	0.2	84.20	5.5385	0.001
	7.00	24.6	0.2	84.20	5.2143	0.001
	7.50	24.7	0.2	84.19	4.9333	0.001
	8.00	24.7	0.2	84.18	4.6875	0.001
	8.50	24.7	0.3	84.18	4.4706	0.001
	9.00	24.7	0.3	84.18	4.2778	0.001
	9.50	24.7	0.3	84.18	4.1053	0.001
	10.00	24.8	0.3	84.17	3.9500	0.001
	10.50	24.8	0.3	84.17	3.8095	0.001
	11.00	24.8	0.3	84.16	3.6818	0.001
	11.50	24.8	0.4	84.16	3.5652	0.001
	12.00	24.8	0.4	84.14	3.4583	0.001
	12.50	24.8	0.4	84.14	3.3600	0.001
	13.00	24.8	0.4	84.13	3.2692	0.001

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#11848 DST#1 Sleeper J #1-21 Burk@Williams

DATE: 08/29/98 TIME: 21:31:53

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	13.50	24.9	0.5	84.13	3.1852	0.001
	14.00	24.9	0.5	84.12	3.1071	0.001
	14.50	24.9	0.5	84.11	3.0345	0.001
	15.00	24.9	0.5	84.11	2.9667	0.001
	15.50	25.0	0.5	84.10	2.9032	0.001
	16.00	25.0	0.6	84.10	2.8438	0.001
	16.50	25.0	0.6	84.09	2.7879	0.001
	17.00	25.0	0.6	84.08	2.7353	0.001
	17.50	25.1	0.7	84.08	2.6857	0.001
	18.00	25.1	0.7	84.08	2.6389	0.001
	18.50	25.1	0.7	84.07	2.5946	0.001
	19.00	25.1	0.7	84.05	2.5526	0.001
	19.50	25.2	0.8	84.05	2.5128	0.001
	20.00	25.2	0.8	84.05	2.4750	0.001
	20.50	25.3	0.9	84.04	2.4390	0.001
	21.00	25.4	0.9	84.03	2.4048	0.001
	21.50	25.5	1.0	84.02	2.3721	0.001
	22.00	25.6	1.2	84.02	2.3409	0.001
	22.50	25.7	1.3	84.02	2.3111	0.001
	23.00	25.9	1.5	84.01	2.2826	0.001
	23.50	26.1	1.7	84.00	2.2553	0.001
	24.00	26.3	1.9	84.00	2.2292	0.001
	24.50	26.7	2.2	84.00	2.2041	0.001
	25.00	26.9	2.4	83.99	2.1800	0.001
	25.50	27.0	2.6	83.98	2.1569	0.001
	26.00	27.2	2.8	83.98	2.1346	0.001
	26.50	27.3	2.9	83.98	2.1132	0.001
	27.00	27.4	3.0	83.97	2.0926	0.001
	27.50	27.6	3.1	83.96	2.0727	0.001
	28.00	27.7	3.3	83.95	2.0536	0.001
***** End Shut-in 2	28.50	27.8	3.4	83.94	2.0351	0.001
***** Final Hydro.	145.00	720.3	0.0	83.94		

TRILOBITE TESTING L.L.C.

OPERATOR : Burk & Williams

DATE 8-31-98

WELL NAME: Sleeper J 1-21

KB 1829.00 ft

TICKET NO: 11049

DST #2

LOCATION : 21-22s-11w Stafford co KS

GR 1820.00 ft

FORMATION: Howard

INTERVAL : 2695.00 To 2735.00 ft

TD 2735.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	24174	24174	Alpine			PF Fr. 1354 to 1424 hr
SI 45 Range(Psi)	3050.0	3050.0	4995.0	0.0	0.0	IS Fr. 1424 to 1509 hr
SF 60 Clock(hrs)	12	12	batt			SF Fr. 1509 to 1609 hr
FS 60 Depth(ft)	2730.0	2730.0	2699.0	0.0	0.0	FS Fr. 1609 to 1709 hr

	Field	1	2	3	4	
A. Init Hydro	1461.0	1458.0	1291.0	0.0	0.0	T STARTED 1250 hr
B. First Flow	52.0	61.0	18.0	0.0	0.0	T ON BOTM 1352 hr
B1. Final Flow	52.0	57.0	36.0	0.0	0.0	T OPEN 1354 hr
C. In Shut-in	873.0	876.0	899.0	0.0	0.0	T PULLED 1709 hr
D. Init Flow	52.0	75.0	39.0	0.0	0.0	T OUT 1811 hr
E. Final Flow	52.0	81.0	67.0	0.0	0.0	
F. Fl Shut-in	849.0	849.0	864.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1335.0	1396.0	1271.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	o	o	i			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 62000.00 lbs
						Initial Str Wt 56000.00 lbs
						Unseated Str Wt 56000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 484.00 ft
						D.P. Length 2209.00 ft

RECOVERY

Tot Fluid 90.00 ft of 90.00 ft in DC and 0.00 ft in DP
 250.00 ft of gas in pipe
 0.00 ft of
 30.00 ft of mud
 60.00 ft of muddy water 70% water 30% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of Rw. .09 @ 91
 SALINITY 33000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 weak 1/2" blow building to
 of bucket in 16 minutes
 Initial Shut-in:
 weak surface blow
 Final Flow:
 weak 1/2" blow building to
 bottom of bucket in 50 minutes
 Final Shut-in:

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	8.80 lb/c
Vis.	44.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	96.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Paul Simpson
Co. Rep.	Jeff Burk
Contr.	Sterling
Rig #	4
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Sleeper J 1-21

LOCATION : Sec 21 22s 11w StaffordKS

TICKET No. 11049 D.S.T. No. 2 DATE 8-31-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 21

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 9

TOTAL TOOL 30

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 31

TOTAL ASSEMBLY 61

D.C. ABOVE TOOLS.Stands8 Single Total 484

D.P. ABOVE TOOLS.Stands35 Single 1 Total 2209

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 2754

TOTAL DEPTH 2735

TOTAL DRILL PIPE ABOVE K.B. 19

REMARKS:

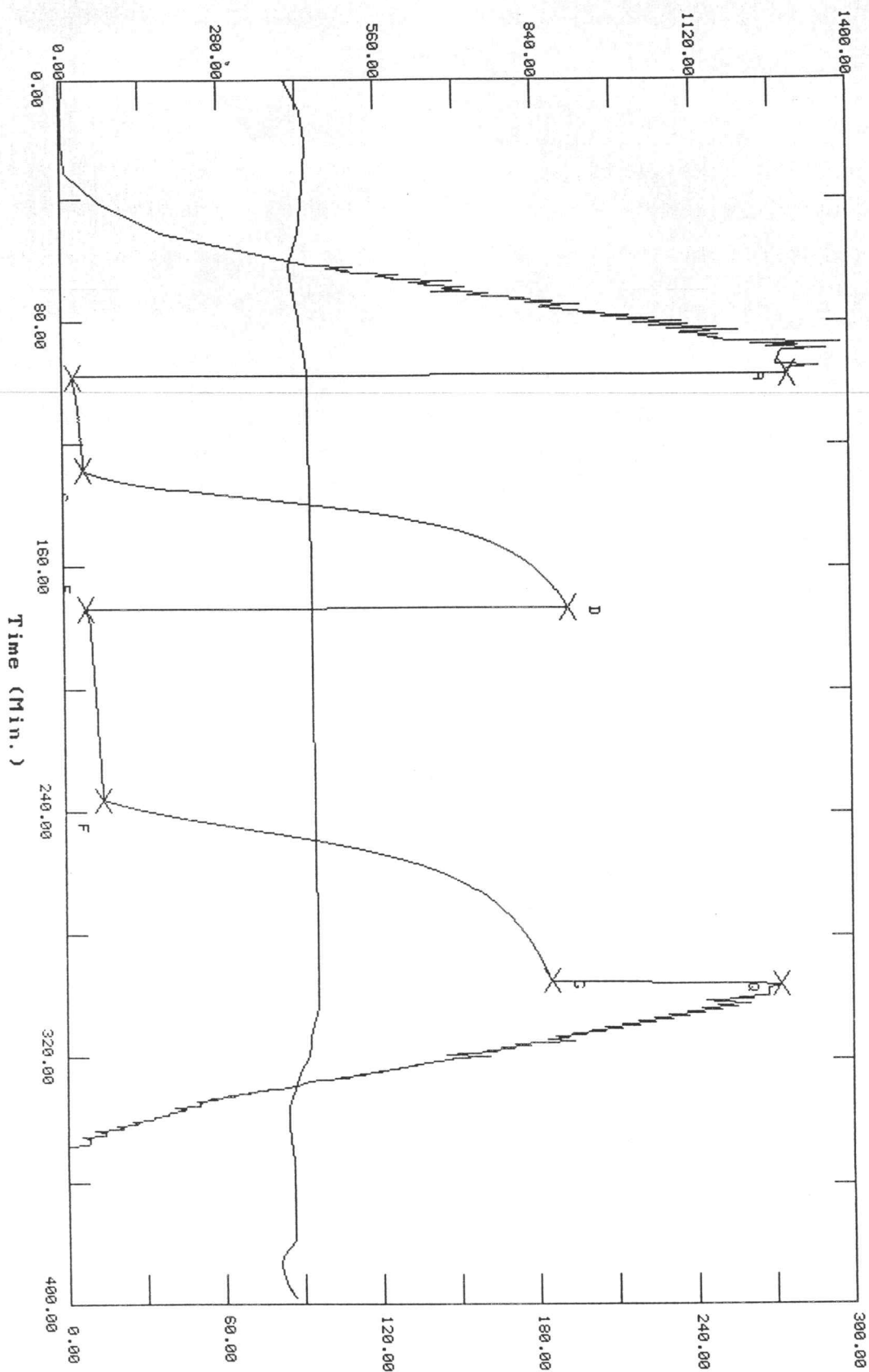
P.O. SUB	
C.O. SUB Top of tool @	2675
S.I. TOOL Sterling	2681
HMV Sterling	2686
JARS n/a	
SAFETY JOINT	
PACKER Top	2690
PACKER Bottom	2695
DEPTH 2695	
STUBB 1'	2696
ANCHOR 3' perf	2699
Alpine Rec @ 2699	
1 joint of pipe & subs to	2732
T.C. DEPTH	
AK-1 rec @ 2730	
BULLNOSE	
T.D. 3' bull plug to	2735

11049 Burk & Williams Sleeper J 1-21 DST #2

TEST HISTORY

Flag Points
t(Min.) P(PSig)

A:	0.00	1291.04
B:	0.00	18.23
C:	30.50	36.01
D:	45.00	898.65
E:	0.00	38.62
F:	62.00	67.02
G:	59.00	864.44
H:	0.00	1271.49

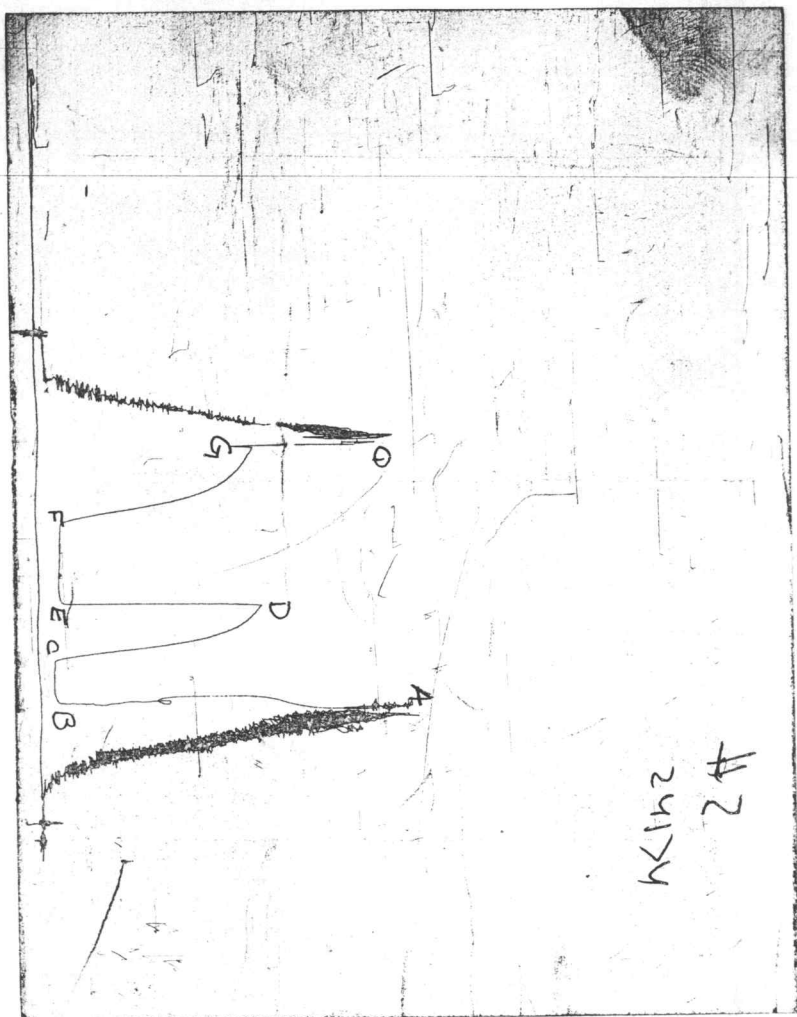


Pressure (PSig)

Temperature (DEG F)

Time (Min.)

CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11049 Burk & Williams Sleeper J 1-21 DST #2

DATE: 08/31/98

TIME: 12:16:14

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	97.00	1291.0	0.0	93.39		
***** Start Flow 1	0.00	18.2	0.0	93.45		
	0.50	18.0	-0.2	93.46		
	1.00	18.6	0.4	93.47		
	1.50	18.9	0.7	93.47		
	2.00	19.4	1.1	93.47		
	2.50	19.9	1.7	93.46		
	3.00	20.4	2.2	93.46		
	3.50	20.7	2.5	93.46		
	4.00	21.0	2.8	93.45		
	4.50	21.6	3.4	93.45		
	5.00	22.1	3.9	93.44		
	5.50	22.2	3.9	93.44		
	6.00	23.2	4.9	93.45		
	6.50	23.3	5.1	93.44		
	7.00	24.0	5.8	93.43		
	7.50	24.4	6.1	93.45		
	8.00	23.7	5.4	93.45		
	8.50	25.0	6.8	93.45		
	9.00	25.1	6.9	93.45		
	9.50	25.5	7.3	93.46		
	10.00	25.9	7.7	93.46		
	10.50	26.3	8.1	93.47		
	11.00	26.6	8.4	93.46		
	11.50	27.2	9.0	93.47		
	12.00	27.9	9.7	93.48		
	12.50	27.3	9.1	93.48		
	13.00	28.4	10.2	93.49		
	13.50	28.1	9.9	93.49		
	14.00	28.4	10.1	93.50		
	14.50	28.2	10	93.51		
	15.00	29.5	11.2	93.52		
	15.50	28.9	10.7	93.52		
	16.00	30.3	12.1	93.53		
	16.50	30.8	12.6	93.54		
	17.00	30.0	11.7	93.55		
	17.50	29.5	11.3	93.57		
	18.00	29.4	11.2	93.57		
	18.50	30.2	12.0	93.58		
	19.00	30.5	12.3	93.59		
	19.50	30.3	12.1	93.60		
	20.00	31.2	13.0	93.61		
	20.50	30.9	12.7	93.62		
	21.00	31.2	13.0	93.63		
	21.50	31.7	13.5	93.64		
	22.00	31.6	13.4	93.65		
	22.50	32.5	14.3	93.66		
	23.00	32.6	14.3	93.67		
	23.50	33.0	14.8	93.68		
	24.00	33.1	14.8	93.69		
	24.50	33.3	15.0	93.70		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11049 Burk & Williams Sleeper J 1-21 DST #2

DATE: 08/31/98

TIME: 12:16:14

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	25.00	33.8	15.6	93.71		
	25.50	34.0	15.7	93.72		
	26.00	34.4	16.1	93.74		
	26.50	34.7	16.5	93.74		
	27.00	34.8	16.6	93.75		
	27.50	35.3	17.1	93.76		
	28.00	35.3	17.1	93.78		
	28.50	35.5	17.3	93.78		
	29.00	35.7	17.5	93.80		
	29.50	35.6	17.4	93.80		
	30.00	35.7	17.5	93.82		
***** End Flow 1	30.50	36.0	17.8	93.82		
***** Start Shutin 1	0.00	36.0	0.0	93.82	0.0000	0.001
	0.50	39.9	3.9	93.83	62.0000	0.002
	1.00	46.3	10.3	93.84	31.5000	0.002
	1.50	54.9	18.9	93.85	21.3333	0.003
	2.00	64.1	28.1	93.86	16.2500	0.004
	2.50	73.8	37.8	93.87	13.2000	0.005
	3.00	84.7	48.7	93.88	11.1667	0.007
	3.50	96.6	60.5	93.90	9.7143	0.009
	4.00	109.5	73.4	93.90	8.6250	0.012
	4.50	123.5	87.5	93.92	7.7778	0.015
	5.00	138.7	102.7	93.93	7.1000	0.019
	5.50	155.4	119.4	93.94	6.5455	0.024
	6.00	173.4	137.4	93.95	6.0833	0.030
	6.50	192.8	156.8	93.96	5.6923	0.037
	7.00	213.6	177.6	93.97	5.3571	0.046
	7.50	235.5	199.5	93.99	5.0667	0.055
	8.00	258.6	222.5	94.00	4.8125	0.067
	8.50	282.5	246.5	94.01	4.5882	0.080
	9.00	307.0	270.9	94.02	4.3889	0.094
	9.50	331.9	295.9	94.04	4.2105	0.110
	10.00	356.9	320.9	94.06	4.0500	0.127
	10.50	381.8	345.8	94.07	3.9048	0.146
	11.00	406.3	370.3	94.08	3.7727	0.165
	11.50	430.2	394.2	94.10	3.6522	0.185
	12.00	453.2	417.2	94.11	3.5417	0.205
	12.50	475.6	439.5	94.12	3.4400	0.226
	13.00	497.0	460.9	94.14	3.3462	0.247
	13.50	517.5	481.5	94.15	3.2593	0.268
	14.00	537.1	501.0	94.17	3.1786	0.288
	14.50	555.6	519.6	94.18	3.1034	0.309
	15.00	573.2	537.2	94.19	3.0333	0.329
	15.50	589.8	553.8	94.21	2.9677	0.348
	16.00	605.5	569.5	94.22	2.9062	0.367
	16.50	614.8	578.8	94.24	2.8485	0.378
	17.00	626.4	590.4	94.25	2.7941	0.392
	17.50	642.1	606.0	94.26	2.7429	0.412
	18.00	655.8	619.8	94.27	2.6944	0.430
	18.50	668.4	632.4	94.29	2.6486	0.447
	19.00	680.3	644.3	94.29	2.6053	0.463

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11049 Burk & Williams Sleeper J 1-21 DST #2

DATE: 08/31/98

TIME: 12:16:14

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
19.50	691.2	655.2	94.31	2.5641	0.478
20.00	701.6	665.6	94.32	2.5250	0.492
20.50	711.4	675.4	94.34	2.4878	0.506
21.00	720.6	684.6	94.35	2.4524	0.519
21.50	729.2	693.2	94.36	2.4186	0.532
22.00	737.4	701.4	94.38	2.3864	0.544
22.50	745.2	709.2	94.38	2.3556	0.555
23.00	752.6	716.6	94.37	2.3261	0.566
23.50	759.5	723.5	94.41	2.2979	0.577
24.00	766.1	730.1	94.42	2.2708	0.587
24.50	771.9	735.9	94.43	2.2449	0.596
25.00	778.2	742.2	94.44	2.2200	0.606
25.50	784.1	748.0	94.45	2.1961	0.615
26.00	789.6	753.6	94.46	2.1731	0.623
26.50	794.8	758.8	94.47	2.1509	0.632
27.00	799.9	763.9	94.48	2.1296	0.640
27.50	804.7	768.7	94.49	2.1091	0.648
28.00	809.3	773.3	94.50	2.0893	0.655
28.50	813.7	777.7	94.51	2.0702	0.662
29.00	818.0	781.9	94.51	2.0517	0.669
29.50	822.1	786.0	94.52	2.0339	0.676
30.00	825.9	789.9	94.53	2.0167	0.682
30.50	829.7	793.7	94.55	2.0000	0.688
31.00	833.3	797.3	94.55	1.9839	0.694
31.50	836.8	800.8	94.56	1.9683	0.700
32.00	840.1	804.1	94.57	1.9531	0.706
32.50	843.5	807.4	94.57	1.9385	0.711
33.00	846.6	810.6	94.59	1.9242	0.717
33.50	849.6	813.6	94.59	1.9104	0.722
34.00	852.5	816.5	94.60	1.8971	0.727
34.50	855.3	819.3	94.61	1.8841	0.732
35.00	858.0	822.0	94.61	1.8714	0.736
35.50	860.7	824.7	94.62	1.8592	0.741
36.00	863.2	827.2	94.63	1.8472	0.745
36.50	865.7	829.7	94.63	1.8356	0.749
37.00	868.1	832.1	94.64	1.8243	0.754
37.50	870.4	834.4	94.65	1.8133	0.758
38.00	872.7	836.7	94.66	1.8026	0.762
38.50	874.9	838.9	94.67	1.7922	0.765
39.00	877.0	841.0	94.67	1.7821	0.769
39.50	879.1	843.1	94.68	1.7722	0.773
40.00	881.2	845.2	94.68	1.7625	0.777
40.50	883.1	847.1	94.69	1.7531	0.780
41.00	885.1	849.1	94.70	1.7439	0.783
41.50	886.9	850.9	94.71	1.7349	0.787
42.00	888.7	852.7	94.71	1.7262	0.790
42.50	890.5	854.5	94.72	1.7176	0.793
43.00	892.2	856.2	94.72	1.7093	0.796
43.50	893.9	857.9	94.73	1.7011	0.799
44.00	895.5	859.5	94.75	1.6932	0.802
44.50	897.1	861.1	94.74	1.6854	0.805

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11049 Burk & Williams Sleeper J 1-21 DST #2

DATE: 08/31/98

TIME: 12:16:14

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** End Shut-in 1	45.00	898.6	862.6	94.75	1.6778	0.808
***** Start Flow 2	0.00	38.6	0.0	94.75		
	0.50	38.0	-0.6	94.75		
	1.00	39.3	0.7	94.73		
	1.50	40.3	1.7	94.72		
	2.00	42.2	3.5	94.70		
	2.50	44.0	5.3	94.69		
	3.00	44.0	5.4	94.68		
	3.50	44.4	5.7	94.67		
	4.00	44.9	6.3	94.66		
	4.50	45.2	6.6	94.65		
	5.00	45.2	6.6	94.64		
	5.50	45.5	6.9	94.63		
	6.00	45.8	7.2	94.63		
	6.50	46.2	7.6	94.64		
	7.00	46.4	7.8	94.63		
	7.50	46.7	8.1	94.63		
	8.00	46.8	8.2	94.62		
	8.50	47.1	8.5	94.63		
	9.00	47.3	8.7	94.63		
	9.50	47.6	9.0	94.63		
	10.00	47.7	9.1	94.64		
	10.50	48.0	9.4	94.65		
	11.00	48.1	9.5	94.64		
	11.50	48.4	9.8	94.63		
	12.00	48.5	9.9	94.64		
	12.50	48.9	10.3	94.65		
	13.00	49.0	10.4	94.65		
	13.50	49.2	10.6	94.65		
	14.00	49.5	10.9	94.66		
	14.50	49.7	11.1	94.66		
	15.00	49.9	11.2	94.67		
	15.50	50.0	11.4	94.67		
	16.00	50.2	11.5	94.68		
	16.50	50.4	11.8	94.68		
	17.00	50.5	11.9	94.69		
	17.50	50.7	12.1	94.69		
	18.00	51.0	12.3	94.70		
	18.50	51.1	12.5	94.70		
	19.00	51.3	12.7	94.71		
	19.50	51.5	12.8	94.71		
	20.00	51.7	13.1	94.72		
	20.50	51.8	13.1	94.72		
	21.00	52.3	13.6	94.73		
	21.50	53.0	14.4	94.73		
	22.00	52.6	14.0	94.74		
	22.50	52.8	14.2	94.74		
	23.00	53.0	14.4	94.75		
	23.50	53.5	14.9	94.76		
	24.00	53.3	14.7	94.76		
	24.50	53.5	14.9	94.76		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11049 Burk & Williams Sleeper J 1-21 DST #2

DATE: 08/31/98

TIME: 12:16:14

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
25.00	53.6	15.0	94.77		
25.50	53.8	15.1	94.78		
26.00	53.8	15.2	94.78		
26.50	54.1	15.5	94.79		
27.00	54.2	15.6	94.80		
27.50	54.3	15.7	94.80		
28.00	54.5	15.9	94.81		
28.50	55.2	16.6	94.81		
29.00	55.1	16.5	94.82		
29.50	55.3	16.7	94.83		
30.00	55.4	16.8	94.83		
30.50	55.5	16.9	94.84		
31.00	55.7	17.1	94.84		
31.50	56.0	17.4	94.85		
32.00	56.1	17.5	94.86		
32.50	56.5	17.9	94.86		
33.00	56.5	17.9	94.88		
33.50	56.7	18.1	94.87		
34.00	56.8	18.2	94.87		
34.50	56.9	18.3	94.87		
35.00	57.0	18.4	94.89		
35.50	57.2	18.6	94.89		
36.00	57.3	18.7	94.90		
36.50	57.4	18.8	94.90		
37.00	57.5	18.9	94.91		
37.50	57.8	19.2	94.92		
38.00	57.8	19.2	94.92		
38.50	58.1	19.4	94.93		
39.00	58.4	19.8	94.94		
39.50	58.7	20.0	94.94		
40.00	58.7	20.1	94.95		
40.50	59.0	20.3	94.95		
41.00	59.1	20.5	94.96		
41.50	59.2	20.6	94.96		
42.00	59.6	21.0	94.97		
42.50	59.7	21.0	94.98		
43.00	60.1	21.5	94.98		
43.50	60.3	21.7	94.99		
44.00	60.3	21.6	94.99		
44.50	60.3	21.7	95.00		
45.00	60.5	21.8	95.00		
45.50	60.8	22.2	95.00		
46.00	60.9	22.3	95.01		
46.50	61.3	22.7	95.02		
47.00	61.4	22.8	95.02		
47.50	61.6	23.0	95.03		
48.00	61.7	23.1	95.03		
48.50	62.1	23.5	95.04		
49.00	62.1	23.5	95.04		
49.50	62.3	23.7	95.05		
50.00	62.4	23.8	95.06		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11049 Burk & Williams Sleeper J 1-21 DST #2

DATE: 08/31/98

TIME: 12:16:14

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	50.50	62.6	24.0	95.06		
	51.00	62.9	24.3	95.07		
	51.50	63.1	24.5	95.07		
	52.00	63.2	24.6	95.08		
	52.50	63.4	24.8	95.08		
	53.00	63.6	25.0	95.08		
	53.50	63.8	25.2	95.09		
	54.00	64.0	25.4	95.10		
	54.50	64.0	25.3	95.10		
	55.00	64.1	25.5	95.11		
	55.50	64.4	25.8	95.11		
	56.00	64.6	26.0	95.11		
	56.50	64.9	26.2	95.11		
	57.00	64.9	26.3	95.12		
	57.50	65.2	26.5	95.13		
	58.00	65.2	26.6	95.13		
	58.50	65.5	26.9	95.14		
	59.00	65.7	27.1	95.14		
	59.50	65.8	27.2	95.14		
	60.00	66.0	27.3	95.15		
	60.50	66.3	27.7	95.16		
	61.00	66.3	27.7	95.16		
	61.50	66.6	28.0	95.16		
***** End Flow 2	62.00	67.0	28.4	95.17		
***** Start Shutin 2	0.00	67.0	0.0	95.17	0.0000	0.004
	0.50	75.4	8.4	95.17	186.0000	0.006
	1.00	84.6	17.6	95.18	93.5000	0.007
	1.50	94.6	27.6	95.18	62.6667	0.009
	2.00	105.1	38.1	95.19	47.2500	0.011
	2.50	115.8	48.8	95.19	38.0000	0.013
	3.00	127.4	60.4	95.19	31.8333	0.016
	3.50	139.6	72.6	95.21	27.4286	0.019
	4.00	152.5	85.5	95.21	24.1250	0.023
	4.50	166.1	99.1	95.21	21.5556	0.028
	5.00	180.2	113.2	95.22	19.5000	0.032
	5.50	194.8	127.8	95.23	17.8182	0.038
	6.00	210.2	143.2	95.24	16.4167	0.044
	6.50	226.0	158.9	95.23	15.2308	0.051
	7.00	242.2	175.1	95.25	14.2143	0.059
	7.50	258.8	191.7	95.26	13.3333	0.067
	8.00	275.7	208.7	95.26	12.5625	0.076
	8.50	292.8	225.8	95.27	11.8824	0.086
	9.00	310.0	243.0	95.28	11.2778	0.096
	9.50	327.3	260.3	95.29	10.7368	0.107
	10.00	344.6	277.6	95.30	10.2500	0.119
	10.50	361.8	294.8	95.30	9.8095	0.131
	11.00	378.8	311.8	95.31	9.4091	0.143
	11.50	395.4	328.4	95.32	9.0435	0.156
	12.00	411.8	344.8	95.33	8.7083	0.170
	12.50	427.8	360.8	95.33	8.4000	0.183
	13.00	443.5	376.5	95.34	8.1154	0.197

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11049 Burk & Williams Sleeper J 1-21 DST #2

DATE: 08/31/98

TIME: 12:16:14

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
13.50	458.8	391.8	95.35	7.8519	0.210
14.00	473.5	406.5	95.36	7.6071	0.224
14.50	487.8	420.8	95.37	7.3793	0.238
15.00	501.7	434.7	95.38	7.1667	0.252
15.50	515.1	448.1	95.39	6.9677	0.265
16.00	528.1	461.0	95.39	6.7812	0.279
16.50	540.5	473.5	95.40	6.6061	0.292
17.00	552.4	485.4	95.42	6.4412	0.305
17.50	563.8	496.8	95.42	6.2857	0.318
18.00	574.7	507.7	95.43	6.1389	0.330
18.50	585.2	518.2	95.43	6.0000	0.343
19.00	595.4	528.3	95.44	5.8684	0.354
19.50	605.1	538.1	95.45	5.7436	0.366
20.00	614.2	547.2	95.46	5.6250	0.377
20.50	623.1	556.1	95.47	5.5122	0.388
21.00	631.7	564.7	95.47	5.4048	0.399
21.50	639.9	572.9	95.48	5.3023	0.409
22.00	647.7	580.7	95.48	5.2045	0.420
22.50	655.3	588.3	95.49	5.1111	0.429
23.00	662.6	595.6	95.49	5.0217	0.439
23.50	669.6	602.6	95.52	4.9362	0.448
24.00	676.3	609.3	95.51	4.8542	0.457
24.50	682.7	615.7	95.52	4.7755	0.466
25.00	688.6	621.6	95.53	4.7000	0.474
25.50	694.4	627.4	95.53	4.6275	0.482
26.00	700.1	633.1	95.54	4.5577	0.490
26.50	705.5	638.4	95.55	4.4906	0.498
27.00	710.7	643.6	95.55	4.4259	0.505
27.50	715.6	648.6	95.55	4.3636	0.512
28.00	720.4	653.4	95.56	4.3036	0.519
28.50	725.0	658.0	95.57	4.2456	0.526
29.00	729.5	662.5	95.57	4.1897	0.532
29.50	734.0	667.0	95.58	4.1356	0.539
30.00	738.1	671.1	95.58	4.0833	0.545
30.50	742.2	675.2	95.59	4.0328	0.551
31.00	746.1	679.1	95.59	3.9839	0.557
31.50	749.9	682.8	95.60	3.9365	0.562
32.00	753.5	686.5	95.60	3.8906	0.568
32.50	757.1	690.1	95.61	3.8462	0.573
33.00	760.5	693.5	95.62	3.8030	0.578
33.50	763.9	696.9	95.62	3.7612	0.584
34.00	767.3	700.3	95.62	3.7206	0.589
34.50	770.5	703.5	95.63	3.6812	0.594
35.00	773.7	706.6	95.63	3.6429	0.599
35.50	776.7	709.7	95.64	3.6056	0.603
36.00	779.6	712.6	95.64	3.5694	0.608
36.50	782.4	715.4	95.65	3.5342	0.612
37.00	785.6	718.6	95.65	3.5000	0.617
37.50	788.6	721.6	95.66	3.4667	0.622
38.00	791.4	724.4	95.65	3.4342	0.626
38.50	794.0	727.0	95.66	3.4026	0.630

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11049 Burk & Williams Sleeper J 1-21 DST #2

DATE: 08/31/98

TIME: 12:16:14

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	39.00	796.6	729.6	95.68	3.3718	0.635
	39.50	799.2	732.2	95.67	3.3418	0.639
	40.00	801.7	734.7	95.68	3.3125	0.643
	40.50	804.1	737.1	95.66	3.2840	0.647
	41.00	806.5	739.5	95.68	3.2561	0.650
	41.50	808.7	741.7	95.68	3.2289	0.654
	42.00	811.0	744.0	95.69	3.2024	0.658
	42.50	813.1	746.1	95.69	3.1765	0.661
	43.00	815.3	748.3	95.70	3.1512	0.665
	43.50	817.4	750.4	95.71	3.1264	0.668
	44.00	819.5	752.4	95.71	3.1023	0.672
	44.50	821.4	754.4	95.71	3.0787	0.675
	45.00	823.4	756.4	95.71	3.0556	0.678
	45.50	825.3	758.3	95.71	3.0330	0.681
	46.00	827.1	760.1	95.72	3.0109	0.684
	46.50	828.9	761.9	95.72	2.9892	0.687
	47.00	830.7	763.7	95.73	2.9681	0.690
	47.50	832.4	765.4	95.73	2.9474	0.693
	48.00	834.1	767.1	95.73	2.9271	0.696
	48.50	835.8	768.8	95.74	2.9072	0.699
	49.00	837.5	770.4	95.74	2.8878	0.701
	49.50	839.0	772.0	95.74	2.8687	0.704
	50.00	840.6	773.6	95.74	2.8500	0.707
	50.50	842.1	775.1	95.74	2.8317	0.709
	51.00	843.7	776.6	95.75	2.8137	0.712
	51.50	845.1	778.1	95.75	2.7961	0.714
	52.00	846.6	779.6	95.76	2.7788	0.717
	52.50	848.1	781.0	95.77	2.7619	0.719
	53.00	849.4	782.4	95.76	2.7453	0.722
	53.50	850.8	783.8	95.77	2.7290	0.724
	54.00	852.1	785.1	95.77	2.7130	0.726
	54.50	853.5	786.4	95.77	2.6972	0.728
	55.00	854.7	787.7	95.77	2.6818	0.731
	55.50	856.1	789.1	95.78	2.6667	0.733
	56.00	857.3	790.3	95.78	2.6518	0.735
	56.50	858.6	791.5	95.78	2.6372	0.737
	57.00	859.7	792.7	95.78	2.6228	0.739
	57.50	860.9	793.9	95.79	2.6087	0.741
	58.00	862.1	795.1	95.79	2.5948	0.743
	58.50	863.3	796.3	95.79	2.5812	0.745
***** End Shut-in 2	59.00	864.4	797.4	95.80	2.5678	0.747
***** Final Hydro.	296.00	1271.5	0.0	95.81		

TRILOBITE TESTING L.L.C.

OPERATOR : Burk & Williams

DATE 9-01-98

WELL NAME: Sleeper J 1-21

KB 1829.00 ft TICKET NO: 11050 DST #3

LOCATION : 21-22s-11w Stafford co KS

GR 1820.00 ft FORMATION: Severy Sand

INTERVAL : 2745.00 To 2768.00 ft

TD 2768.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	24174	24174	Alpine			PF Fr. 0144 to 0214 hr
SI 60 Range(Psi)	3050.0	3050.0	4995.0	0.0	0.0	IS Fr. 0214 to 0314 hr
SF 60 Clock(hrs)	12	12	batt			SF Fr. 0314 to 0414 hr
FS 90 Depth(ft)	2749.0	2749.0	2699.0	0.0	0.0	FS Fr. 0414 to 0544 hr

	Field	1	2	3	4	
A. Init Hydro	1341.0	1335.0	1313.0	0.0	0.0	T STARTED 0045 hr
B. First Flow	172.0	167.0	141.0	0.0	0.0	T ON BOTM 0142 hr
B1. Final Flow	179.0	180.0	177.0	0.0	0.0	T OPEN 0144 hr
C. In Shut-in	956.0	955.0	976.0	0.0	0.0	T PULLED 0544 hr
D. Init Flow	248.0	233.0	196.0	0.0	0.0	T OUT 0654 hr
E. Final Flow	179.0	183.0	168.0	0.0	0.0	
F. Fl Shut-in	956.0	962.0	9777.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1251.0	1309.0	1261.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	o	o	i			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 60000.00 lbs
						Initial Str Wt 58000.00 lbs
						Unseated Str Wt 58000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 484.00 ft
						D.P. Length 2271.00 ft

RECOVERY

Tot Fluid 150.00 ft of 150.00 ft in DC and 0.00 ft in DP
 150.00 ft of gasy mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Strong---bottom of bucket
 when tool open GTS 1 min
 Initial Shut-in:
 strong blow--bottom of bucket

Final Flow:
 gauging gas --see report

Final Shut-in:
 same blow as initial
 SAMPLES: caught beginning ISI
 SENT TO:Caraway

Test Successful: Y

MUD DATA-----

Mud Type	Chemical
Weight	8.90 lb/c
Vis.	47.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	88.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Paul Simpson
Co. Rep.	Jeff /Tom
Contr.	Sterling
Rig #	4
Unit #	
Pump T.	

GAS RECOVERY

COMPANY: Burk & Williams DATE: 9-01-98
 WELL NAME: Sleeper J 1-21 KB Elev: 1829.00 ft TICKET #11050 DST #3
 WELL LOCATION: Sec 21 22s 11w StaffordKS GR Elev: 1820.00 ft FORMATION: Severy Sand
 INTERVAL Fr.: 2745.00 To 2768.00 T.D.: 2768.00 ft TEST TYPE: CONV

GAS RECOVERY MEASURED WITH Adjustable Choke

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.75	55	0	814000.0
10	0.75	50	0	756000.0
20	0.75	48	0	732000.0
30	0.75	48	0	732000.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.75	54	0	802000.0
10	0.75	56	0	825000.0
20	0.75	52	0	779000.0
30	0.75	46	0	708000.0
40	0.75	44	0	685000.0
50	0.75	42	0	662000.0
60	0.75	42	0	662000.0

*** TOOL DIAGRAM *** CONV

WELL NAME: Sleeper J 1-21

LOCATION : Sec 21 22s 11w StaffordKS

TICKET No. 11050 D.S.T. No. 3 DATE 9-01-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 21

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 23

TOTAL TOOL 44

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 44

D.C. ABOVE TOOLS.Stands8 Single Total 484

D.P. ABOVE TOOLS.Stands36 Single 1 Total 2271

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 2799

TOTAL DEPTH 2768

TOTAL DRILL PIPE ABOVE K.B. 31

REMARKS:

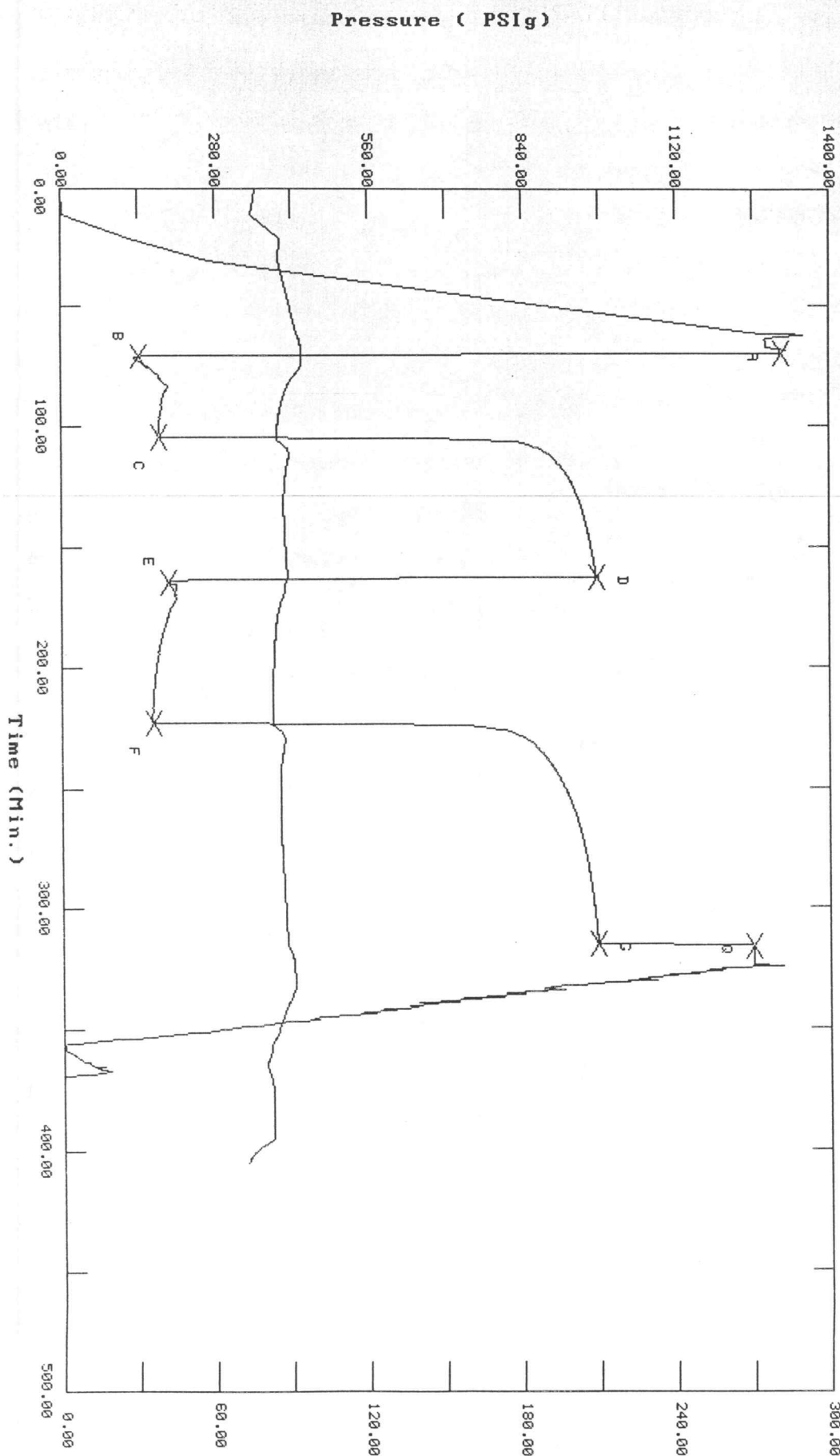
P.O. SUB	
C.O. SUB Top of tool @	2725
S.I. TOOL Sterling	2731
HMV Sterling	2736
JARS n/a	
SAFETY JOINT	
PACKER Top	2740
PACKER Bottom	2745
DEPTH 2745	
STUBB 1'	2746
ANCHOR 3' perf	2749
Alpine Rec @ 2749	
5' perf	2754
5' perf	2759
T.C.	
DEPTH	
5' perf	2764
AK-1 rec @ 2763	
BULLNOSE 1' perf	2765
T.D. 3' bull plug to	2768

11050 Burk & Williams Sleeper J 1-21 DST #3

TEST HISTORY

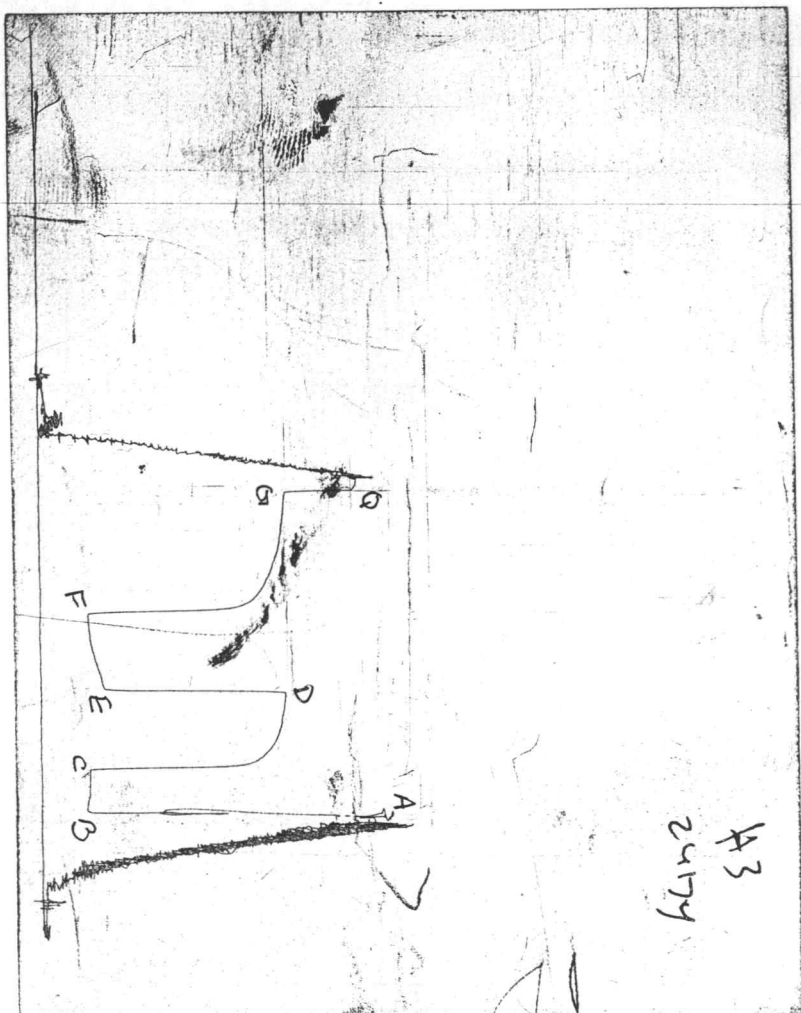
Flag Points
t<Min.> P<PSig>

R:	0.00	1312.69
B:	0.00	141.12
C:	33.50	177.16
D:	58.00	976.47
E:	0.00	196.13
F:	58.50	167.99
G:	92.00	977.49
Q:	0.00	1261.16



Temperature (DEG F)

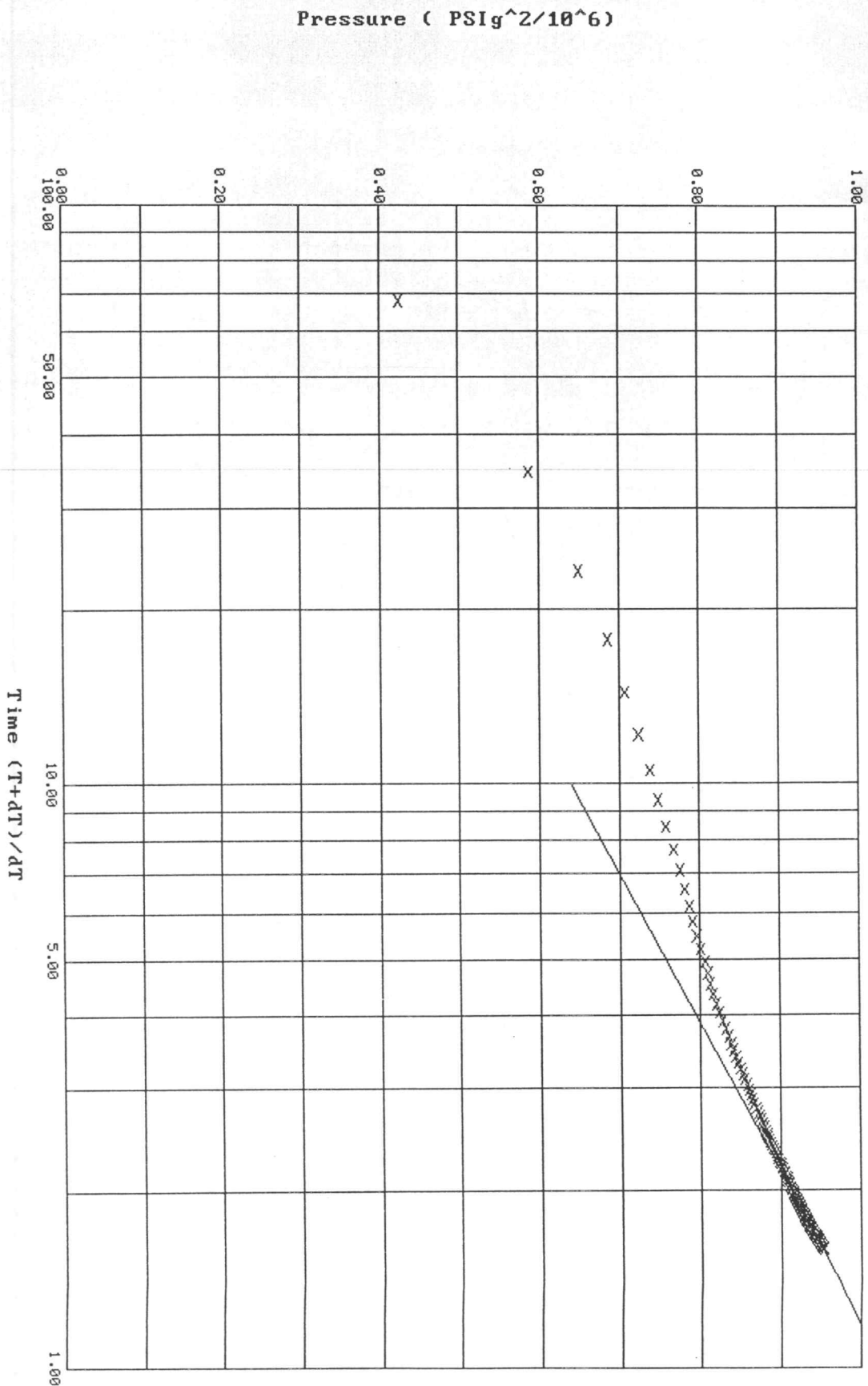
CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

P² Horner Plot: shut-in #1 11050 Burk & Williams Sleeper J 1-21 DST #3

Slope: 0.3914 PSig²/10⁶/cycle
 Ext. Pressure: 1014.8325 PSig

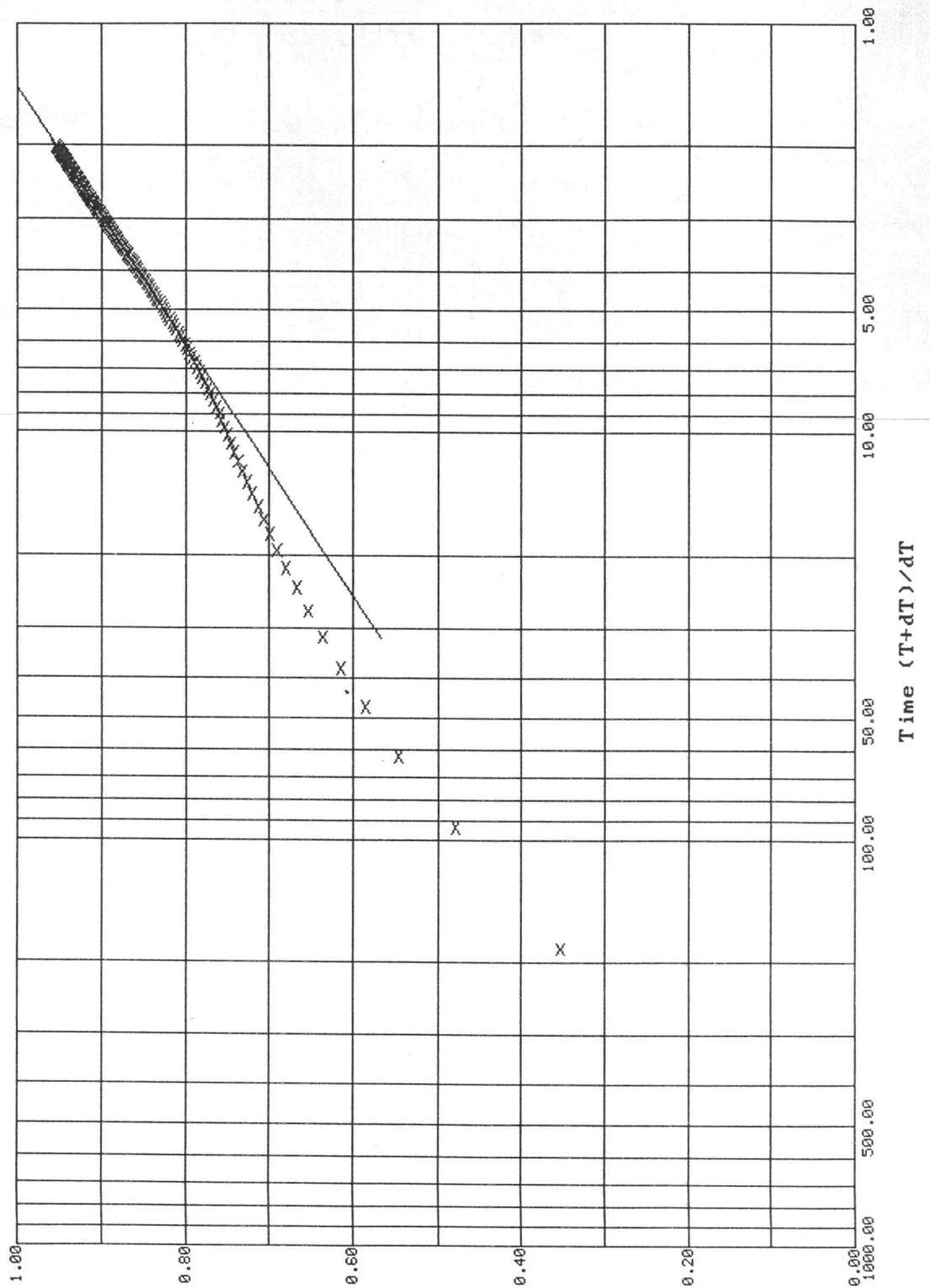


P² Horner Plot: shut-in #2

11050 Burk & Williams Sleeper J 1-21 DST #3

Slope: 0.3231 PSig²/10⁶/cycle

Ext. Pressure: 1026.0442 PSig



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11050 Burk & Williams Sleeper J 1-21 DST #3

DATE: 09/01/98

TIME: 00:30:59

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	70.00	1312.7	0.0	94.18		
***** Start Flow 1	0.00	141.1	0.0	94.23		
	0.50	133.3	-7.9	94.26		
	1.00	132.9	-8.2	94.29		
	1.50	136.1	-5.0	94.32		
	2.00	147.2	6.1	94.32		
	2.50	145.2	4.0	94.29		
	3.00	149.3	8.2	94.23		
	3.50	151.5	10.4	94.10		
	4.00	157.4	16.3	93.94		
	4.50	159.9	18.8	93.72		
	5.00	160.4	19.3	93.48		
	5.50	163.1	22.0	93.20		
	6.00	166.4	25.3	92.90		
	6.50	169.5	28.3	92.57		
	7.00	172.5	31.4	92.22		
	7.50	174.3	33.2	91.86		
	8.00	177.4	36.3	91.49		
	8.50	178.5	37.4	91.13		
	9.00	179.7	38.6	90.78		
	9.50	179.8	38.7	90.43		
	10.00	180.1	39.0	90.10		
	10.50	183.6	42.5	89.78		
	11.00	186.5	45.4	89.48		
	11.50	189.6	48.5	89.19		
	12.00	193.3	52.2	88.92		
	12.50	194.4	53.3	88.67		
	13.00	194.4	53.3	88.44		
	13.50	193.6	52.5	88.21		
	14.00	193.0	51.9	88.00		
	14.50	189.4	48.3	87.80		
	15.00	188.4	47.3	87.60		
	15.50	188.0	46.9	87.41		
	16.00	187.8	46.7	87.24		
	16.50	186.2	45.1	87.07		
	17.00	186.8	45.7	86.91		
	17.50	185.1	44.0	86.76		
	18.00	185.0	43.8	86.62		
	18.50	184.3	43.2	86.48		
	19.00	183.5	42.4	86.36		
	19.50	183.9	42.8	86.24		
	20.00	181.2	40.1	86.11		
	20.50	183.1	42.0	86.01		
	21.00	184.3	43.2	85.90		
	21.50	182.9	41.8	85.80		
	22.00	182.7	41.5	85.70		
	22.50	182.4	41.3	85.61		
	23.00	181.7	40.6	85.53		
	23.50	181.9	40.8	85.43		
	24.00	181.4	40.3	85.35		
	24.50	180.8	39.7	85.27		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11050 Burk & Williams Sleeper J 1-21 DST #3

DATE: 09/01/98

TIME: 00:30:59

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dt)/dt	P^2/10^6
	25.00	179.7	38.6	85.19		
	25.50	180.0	38.9	85.11		
	26.00	179.8	38.7	85.04		
	26.50	179.1	38.0	84.98		
	27.00	179.1	38.0	84.91		
	27.50	179.1	38.0	84.84		
	28.00	178.5	37.4	84.77		
	28.50	177.8	36.7	84.72		
	29.00	177.8	36.6	84.65		
	29.50	177.5	36.4	84.59		
	30.00	177.5	36.4	84.55		
	30.50	177.8	36.7	84.49		
	31.00	177.9	36.8	84.44		
	31.50	177.0	35.9	84.38		
	32.00	176.1	34.9	84.34		
	32.50	176.7	35.6	84.29		
***** End Flow 1	33.00	176.5	35.4	84.24		
	33.50	177.2	36.0	84.20		
***** Start Shutin 1	0.00	177.2	0.0	84.20	0.0000	0.031
	0.50	651.5	474.3	84.18	68.0000	0.424
	1.00	766.5	589.4	84.34	34.5000	0.588
	1.50	806.4	629.2	84.82	23.3333	0.650
	2.00	828.4	651.2	85.53	17.7500	0.686
	2.50	841.5	664.3	86.32	14.4000	0.708
	3.00	850.9	673.7	87.06	12.1667	0.724
	3.50	859.0	681.8	87.68	10.5714	0.738
	4.00	865.2	688.0	88.17	9.3750	0.749
	4.50	871.0	693.8	88.53	8.4444	0.759
	5.00	875.9	698.7	88.79	7.7000	0.767
	5.50	880.1	702.9	88.97	7.0909	0.775
	6.00	883.9	706.7	89.07	6.5833	0.781
	6.50	887.6	710.4	89.11	6.1538	0.788
	7.00	889.4	712.3	89.13	5.7857	0.791
	7.50	892.0	714.8	89.11	5.4667	0.796
	8.00	895.0	717.8	89.05	5.1875	0.801
	8.50	898.0	720.8	88.99	4.9412	0.806
	9.00	899.6	722.4	88.92	4.7222	0.809
	9.50	900.9	723.7	88.83	4.5263	0.812
	10.00	903.3	726.1	88.74	4.3500	0.816
	10.50	905.6	728.4	88.65	4.1905	0.820
	11.00	907.7	730.6	88.57	4.0455	0.824
	11.50	909.9	732.7	88.45	3.9130	0.828
	12.00	911.8	734.7	88.36	3.7917	0.831
	12.50	913.7	736.5	88.27	3.6800	0.835
	13.00	915.5	738.3	88.18	3.5769	0.838
	13.50	917.2	740.0	88.10	3.4815	0.841
	14.00	918.8	741.6	88.01	3.3929	0.844
	14.50	920.4	743.3	87.95	3.3103	0.847
	15.00	921.9	744.8	87.87	3.2333	0.850
	15.50	923.4	746.3	87.79	3.1613	0.853
	16.00	924.9	747.7	87.71	3.0938	0.855

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11050 Burk & Williams Sleeper J 1-21 DST #3

DATE: 09/01/98

TIME: 00:30:59

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
16.50	926.3	749.1	87.66	3.0303	0.858
17.00	927.6	750.4	87.61	2.9706	0.860
17.50	928.8	751.6	87.55	2.9143	0.863
18.00	930.0	752.9	87.50	2.8611	0.865
18.50	931.2	754.0	87.45	2.8108	0.867
19.00	932.4	755.2	87.41	2.7632	0.869
19.50	933.5	756.3	87.37	2.7179	0.871
20.00	934.6	757.4	87.34	2.6750	0.873
20.50	935.7	758.5	87.29	2.6341	0.875
21.00	936.7	759.5	87.26	2.5952	0.877
21.50	937.7	760.5	87.23	2.5581	0.879
22.00	938.6	761.4	87.21	2.5227	0.881
22.50	939.5	762.3	87.19	2.4889	0.883
23.00	940.4	763.3	87.17	2.4565	0.884
23.50	941.3	764.2	87.15	2.4255	0.886
24.00	942.3	765.2	87.15	2.3958	0.888
24.50	943.3	766.1	87.12	2.3673	0.890
25.00	944.2	767.0	87.11	2.3400	0.891
25.50	945.0	767.9	87.10	2.3137	0.893
26.00	945.8	768.7	87.10	2.2885	0.895
26.50	946.7	769.5	87.10	2.2642	0.896
27.00	947.4	770.3	87.09	2.2407	0.898
27.50	948.2	771.0	87.10	2.2182	0.899
28.00	948.9	771.7	87.10	2.1964	0.900
28.50	949.6	772.4	87.10	2.1754	0.902
29.00	950.3	773.1	87.10	2.1552	0.903
29.50	950.9	773.8	87.11	2.1356	0.904
30.00	951.6	774.4	87.12	2.1167	0.906
30.50	952.2	775.0	87.13	2.0984	0.907
31.00	952.8	775.7	87.14	2.0806	0.908
31.50	953.4	776.3	87.15	2.0635	0.909
32.00	954.0	776.9	87.16	2.0469	0.910
32.50	954.6	777.5	87.18	2.0308	0.911
33.00	955.2	778.1	87.19	2.0152	0.912
33.50	955.8	778.6	87.21	2.0000	0.914
34.00	956.3	779.2	87.23	1.9853	0.915
34.50	956.9	779.7	87.24	1.9710	0.916
35.00	957.4	780.3	87.26	1.9571	0.917
35.50	958.0	780.8	87.28	1.9437	0.918
36.00	958.5	781.4	87.30	1.9306	0.919
36.50	959.0	781.8	87.31	1.9178	0.920
37.00	959.5	782.3	87.34	1.9054	0.921
37.50	960.0	782.8	87.36	1.8933	0.922
38.00	960.5	783.3	87.38	1.8816	0.923
38.50	960.9	783.8	87.41	1.8701	0.923
39.00	961.4	784.2	87.44	1.8590	0.924
39.50	961.9	784.7	87.46	1.8481	0.925
40.00	962.3	785.1	87.48	1.8375	0.926
40.50	962.8	785.6	87.51	1.8272	0.927
41.00	963.2	786.0	87.54	1.8171	0.928
41.50	963.6	786.5	87.56	1.8072	0.929

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11050 Burk & Williams Sleeper J 1-21 DST #3

DATE: 09/01/98

TIME: 00:30:59

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	42.00	964.0	786.9	87.59	1.7976	0.929
	42.50	964.5	787.3	87.62	1.7882	0.930
	43.00	964.9	787.8	87.65	1.7791	0.931
	43.50	965.4	788.2	87.68	1.7701	0.932
	44.00	965.8	788.6	87.71	1.7614	0.933
	44.50	966.2	789.0	87.74	1.7528	0.934
	45.00	966.6	789.5	87.77	1.7444	0.934
	45.50	967.0	789.8	87.80	1.7363	0.935
	46.00	967.5	790.3	87.83	1.7283	0.936
	46.50	967.8	790.7	87.86	1.7204	0.937
	47.00	968.3	791.1	87.88	1.7128	0.938
	47.50	968.6	791.5	87.92	1.7053	0.938
	48.00	969.1	791.9	87.95	1.6979	0.939
	48.50	969.5	792.3	87.98	1.6907	0.940
	49.00	969.9	792.7	88.02	1.6837	0.941
	49.50	970.4	793.2	88.04	1.6768	0.942
	50.00	970.8	793.6	88.08	1.6700	0.942
	50.50	971.2	794.0	88.11	1.6634	0.943
	51.00	971.6	794.5	88.14	1.6569	0.944
	51.50	972.0	794.9	88.17	1.6505	0.945
	52.00	972.4	795.2	88.21	1.6442	0.946
	52.50	972.8	795.6	88.24	1.6381	0.946
	53.00	973.1	796.0	88.27	1.6321	0.947
	53.50	973.5	796.4	88.31	1.6262	0.948
	54.00	973.9	796.7	88.33	1.6204	0.948
	54.50	974.2	797.1	88.36	1.6147	0.949
	55.00	974.5	797.4	88.40	1.6091	0.950
	55.50	974.8	797.7	88.43	1.6036	0.950
	56.00	975.2	798.0	88.47	1.5982	0.951
	56.50	975.6	798.4	88.49	1.5929	0.952
	57.00	975.9	798.7	88.53	1.5877	0.952
	57.50	976.2	799.0	88.56	1.5826	0.953
***** End Shut-in 1	58.00	976.5	799.3	88.59	1.5776	0.953
***** Start Flow 2	0.00	196.1	0.0	87.96		
	0.50	202.7	6.6	87.68		
	1.00	208.3	12.2	87.54		
	1.50	209.3	13.1	87.51		
	2.00	209.3	13.2	87.52		
	2.50	209.8	13.7	87.52		
	3.00	208.7	12.6	87.49		
	3.50	207.9	11.7	87.42		
	4.00	207.7	11.6	87.33		
	4.50	207.2	11.1	87.20		
	5.00	207.7	11.6	87.06		
	5.50	207.7	11.6	86.91		
	6.00	206.8	10.7	86.76		
	6.50	209.0	12.9	86.59		
	7.00	208.1	12.0	86.42		
	7.50	207.7	11.6	86.25		
	8.00	205.6	9.5	86.09		
	8.50	205.1	9.0	85.94		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11050 Burk & Williams Sleeper J 1-21 DST #3

DATE: 09/01/98

TIME: 00:30:59

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
9.00	204.1	8.0	85.79		
9.50	202.7	6.6	85.65		
10.00	201.9	5.7	85.52		
10.50	201.1	5.0	85.39		
11.00	199.3	3.2	85.27		
11.50	198.4	2.3	85.15		
12.00	197.9	1.8	85.05		
12.50	197.6	1.4	84.95		
13.00	196.1	-0.0	84.85		
13.50	195.7	-0.5	84.76		
14.00	195.2	-0.9	84.68		
14.50	195.4	-0.7	84.59		
15.00	193.4	-2.7	84.51		
15.50	193.0	-3.1	84.44		
16.00	192.2	-3.9	84.36		
16.50	191.5	-4.6	84.29		
17.00	189.7	-6.4	84.23		
17.50	189.8	-6.3	84.16		
18.00	189.9	-6.3	84.10		
18.50	188.7	-7.5	84.04		
19.00	188.1	-8.1	83.99		
19.50	187.3	-8.8	83.94		
20.00	187.0	-9.1	83.89		
20.50	186.2	-10	83.85		
21.00	184.5	-11.6	83.81		
21.50	184.5	-11.6	83.76		
22.00	183.9	-12.2	83.72		
22.50	183.9	-12.2	83.68		
23.00	182.6	-13.5	83.65		
23.50	182.4	-13.8	83.61		
24.00	181.2	-14.9	83.57		
24.50	181.9	-14.3	83.54		
25.00	180.6	-15.5	83.51		
25.50	180.3	-15.9	83.47		
26.00	179.2	-16.9	83.44		
26.50	179.4	-16.8	83.41		
27.00	178.5	-17.6	83.38		
27.50	178.8	-17.3	83.35		
28.00	178.0	-18.1	83.32		
28.50	177.9	-18.3	83.29		
29.00	176.7	-19.4	83.27		
29.50	176.4	-19.7	83.25		
30.00	178.3	-17.8	83.22		
30.50	175.9	-20.2	83.20		
31.00	175.6	-20.6	83.17		
31.50	175.8	-20.4	83.15		
32.00	174.5	-21.6	83.13		
32.50	174.9	-21.2	83.10		
33.00	174.4	-21.7	83.08		
33.50	173.8	-22.4	83.06		
34.00	173.2	-22.9	83.05		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11050 Burk & Williams Sleeper J 1-21 DST #3

DATE: 09/01/98

TIME: 00:30:59

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	34.50	173.1	-23.0	83.02		
	35.00	172.2	-23.9	83.00		
	35.50	172.2	-23.9	82.98		
	36.00	172.2	-23.9	82.97		
	36.50	171.8	-24.3	82.95		
	37.00	171.7	-24.4	82.93		
	37.50	171.4	-24.7	82.90		
	38.00	171.0	-25.2	82.91		
	38.50	170.2	-25.9	82.88		
	39.00	170.8	-25.3	82.86		
	39.50	170.4	-25.7	82.85		
	40.00	169.6	-26.6	82.83		
	40.50	169.7	-26.4	82.82		
	41.00	169.6	-26.6	82.80		
	41.50	169.2	-27.0	82.79		
	42.00	168.8	-27.4	82.77		
	42.50	168.8	-27.3	82.76		
	43.00	168.7	-27.4	82.75		
	43.50	168.8	-27.3	82.74		
	44.00	168.5	-27.6	82.72		
	44.50	168.1	-28.0	82.71		
	45.00	168.1	-28.0	82.70		
	45.50	168.0	-28.1	82.69		
	46.00	167.4	-28.8	82.67		
	46.50	167.2	-29.0	82.66		
	47.00	167.7	-28.5	82.64		
	47.50	167.1	-29.1	82.64		
	48.00	167.1	-29.0	82.63		
	48.50	167.1	-29.0	82.61		
	49.00	166.9	-29.3	82.61		
	49.50	167.2	-29.0	82.59		
	50.00	166.4	-29.7	82.58		
	50.50	166.5	-29.6	82.57		
	51.00	166.0	-30.1	82.56		
	51.50	166.0	-30.1	82.56		
	52.00	165.7	-30.5	82.54		
	52.50	165.9	-30.3	82.53		
	53.00	165.8	-30.3	82.52		
	53.50	165.7	-30.4	82.51		
	54.00	165.8	-30.3	82.50		
	54.50	165.3	-30.8	82.50		
	55.00	165.5	-30.6	82.49		
	55.50	165.1	-31.0	82.48		
	56.00	165.2	-31.0	82.47		
	56.50	164.9	-31.2	82.47		
	57.00	164.4	-31.7	82.46		
	57.50	165.0	-31.1	82.45		
	58.00	167.1	-29.1	82.44		
***** End Flow 2	58.50	168.0	-28.1	82.43		
***** Start Shutin 2	0.00	168.0	0.0	82.43	0.0000	0.028
	0.50	594.4	426.4	82.44	185.0000	0.353

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11050 Burk & Williams Sleeper J 1-21 DST #3

DATE: 09/01/98

TIME: 00:30:59

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
1.00	692.8	524.8	82.59	93.0000	0.480
1.50	739.4	571.4	82.99	62.3333	0.547
2.00	765.7	597.7	83.60	47.0000	0.586
2.50	784.1	616.1	84.30	37.8000	0.615
3.00	797.5	629.5	84.97	31.6667	0.636
3.50	808.2	640.2	85.57	27.2857	0.653
4.00	817.1	649.1	86.08	24.0000	0.668
4.50	824.8	656.8	86.46	21.4444	0.680
5.00	831.3	663.3	86.75	19.4000	0.691
5.50	836.4	668.4	86.96	17.7273	0.700
6.00	840.6	672.6	87.10	16.3333	0.707
6.50	844.4	676.4	87.19	15.1538	0.713
7.00	849.3	681.3	87.24	14.1429	0.721
7.50	853.0	685.0	87.25	13.2667	0.728
8.00	856.0	688.1	87.23	12.5000	0.733
8.50	858.8	690.8	87.19	11.8235	0.737
9.00	861.7	693.7	87.13	11.2222	0.742
9.50	864.1	696.1	87.06	10.6842	0.747
10.00	866.4	698.4	86.99	10.2000	0.751
10.50	868.2	700.2	86.92	9.7619	0.754
11.00	870.2	702.3	86.84	9.3636	0.757
11.50	872.1	704.1	86.76	9.0000	0.761
12.00	874.1	706.1	86.67	8.6667	0.764
12.50	876.1	708.1	86.59	8.3600	0.767
13.00	878.0	710.0	86.51	8.0769	0.771
13.50	879.8	711.8	86.43	7.8148	0.774
14.00	881.6	713.7	86.35	7.5714	0.777
14.50	883.5	715.5	86.28	7.3448	0.781
15.00	885.3	717.3	86.21	7.1333	0.784
15.50	887.1	719.1	86.15	6.9355	0.787
16.00	888.8	720.8	86.08	6.7500	0.790
16.50	890.4	722.4	86.03	6.5758	0.793
17.00	892.0	724.0	85.97	6.4118	0.796
17.50	893.6	725.6	85.92	6.2571	0.798
18.00	895.1	727.1	85.87	6.1111	0.801
18.50	896.6	728.6	85.82	5.9730	0.804
19.00	898.0	730.1	85.78	5.8421	0.806
19.50	899.5	731.5	85.74	5.7179	0.809
20.00	900.8	732.9	85.71	5.6000	0.812
20.50	902.3	734.3	85.67	5.4878	0.814
21.00	903.6	735.6	85.64	5.3810	0.817
21.50	904.9	736.9	85.62	5.2791	0.819
22.00	906.2	738.2	85.59	5.1818	0.821
22.50	907.5	739.5	85.57	5.0889	0.824
23.00	908.7	740.7	85.55	5.0000	0.826
23.50	910.1	742.1	85.52	4.9149	0.828
24.00	911.4	743.4	85.50	4.8333	0.831
24.50	912.6	744.6	85.49	4.7551	0.833
25.00	913.7	745.7	85.47	4.6800	0.835
25.50	914.8	746.8	85.46	4.6078	0.837
26.00	916.0	748.0	85.45	4.5385	0.839

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11050 Burk & Williams Sleeper J 1-21 DST #3

DATE: 09/01/98

TIME: 00:30:59

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
26.50	917.1	749.1	85.44	4.4717	0.841
27.00	918.1	750.1	85.44	4.4074	0.843
27.50	919.2	751.2	85.43	4.3455	0.845
28.00	920.3	752.3	85.42	4.2857	0.847
28.50	921.3	753.3	85.42	4.2281	0.849
29.00	922.4	754.4	85.42	4.1724	0.851
29.50	923.3	755.3	85.41	4.1186	0.853
30.00	924.4	756.4	85.41	4.0667	0.855
30.50	925.4	757.4	85.42	4.0164	0.856
31.00	926.3	758.3	85.42	3.9677	0.858
31.50	927.2	759.2	85.42	3.9206	0.860
32.00	928.1	760.1	85.42	3.8750	0.861
32.50	928.9	761.0	85.43	3.8308	0.863
33.00	929.8	761.8	85.43	3.7879	0.865
33.50	930.6	762.6	85.44	3.7463	0.866
34.00	931.5	763.5	85.44	3.7059	0.868
34.50	932.3	764.3	85.44	3.6667	0.869
35.00	933.2	765.2	85.46	3.6286	0.871
35.50	933.9	765.9	85.46	3.5915	0.872
36.00	934.7	766.7	85.47	3.5556	0.874
36.50	935.5	767.5	85.48	3.5205	0.875
37.00	936.2	768.2	85.49	3.4865	0.876
37.50	937.0	769.0	85.50	3.4533	0.878
38.00	937.7	769.7	85.51	3.4211	0.879
38.50	938.4	770.4	85.53	3.3896	0.881
39.00	939.1	771.1	85.53	3.3590	0.882
39.50	939.7	771.7	85.55	3.3291	0.883
40.00	940.3	772.3	85.56	3.3000	0.884
40.50	941.0	773.0	85.58	3.2716	0.885
41.00	941.6	773.6	85.59	3.2439	0.887
41.50	942.2	774.3	85.61	3.2169	0.888
42.00	942.8	774.9	85.63	3.1905	0.889
42.50	943.5	775.5	85.64	3.1647	0.890
43.00	944.0	776.1	85.66	3.1395	0.891
43.50	944.7	776.7	85.68	3.1149	0.892
44.00	945.2	777.3	85.70	3.0909	0.893
44.50	945.9	777.9	85.71	3.0674	0.895
45.00	946.5	778.5	85.73	3.0444	0.896
45.50	947.1	779.1	85.75	3.0220	0.897
46.00	947.6	779.6	85.75	3.0000	0.898
46.50	948.1	780.1	85.79	2.9785	0.899
47.00	948.7	780.7	85.81	2.9574	0.900
47.50	949.2	781.2	85.83	2.9368	0.901
48.00	949.7	781.7	85.84	2.9167	0.902
48.50	950.3	782.3	85.86	2.8969	0.903
49.00	950.8	782.8	85.89	2.8776	0.904
49.50	951.4	783.4	85.91	2.8586	0.905
50.00	951.9	783.9	85.95	2.8400	0.906
50.50	952.4	784.4	85.95	2.8218	0.907
51.00	952.8	784.8	85.98	2.8039	0.908
51.50	953.3	785.3	86.00	2.7864	0.909

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11050 Burk & Williams Sleeper J 1-21 DST #3

DATE: 09/01/98 TIME: 00:30:59

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
52.00	953.7	785.7	86.03	2.7692	0.910
52.50	954.2	786.2	86.05	2.7524	0.910
53.00	954.6	786.6	86.06	2.7358	0.911
53.50	955.1	787.1	86.09	2.7196	0.912
54.00	955.5	787.5	86.12	2.7037	0.913
54.50	955.9	787.9	86.15	2.6881	0.914
55.00	956.4	788.4	86.17	2.6727	0.915
55.50	956.8	788.8	86.20	2.6577	0.915
56.00	957.2	789.2	86.21	2.6429	0.916
56.50	957.6	789.6	86.24	2.6283	0.917
57.00	958.0	790.1	86.27	2.6140	0.918
57.50	958.4	790.4	86.29	2.6000	0.919
58.00	958.8	790.8	86.32	2.5862	0.919
58.50	959.2	791.2	86.34	2.5726	0.920
59.00	959.6	791.6	86.38	2.5593	0.921
59.50	960.0	792.0	86.39	2.5462	0.922
60.00	960.4	792.4	86.42	2.5333	0.922
60.50	960.8	792.8	86.45	2.5207	0.923
61.00	961.2	793.2	86.47	2.5082	0.924
61.50	961.5	793.5	86.50	2.4959	0.924
62.00	961.8	793.8	86.52	2.4839	0.925
62.50	962.2	794.2	86.55	2.4720	0.926
63.00	962.5	794.5	86.58	2.4603	0.926
63.50	962.9	794.9	86.60	2.4488	0.927
64.00	963.2	795.2	86.63	2.4375	0.928
64.50	963.6	795.6	86.65	2.4264	0.928
65.00	963.9	795.9	86.68	2.4154	0.929
65.50	964.2	796.2	86.71	2.4046	0.930
66.00	964.5	796.5	86.73	2.3939	0.930
66.50	964.8	796.8	86.76	2.3835	0.931
67.00	965.2	797.2	86.78	2.3731	0.932
67.50	965.5	797.5	86.81	2.3630	0.932
68.00	965.8	797.8	86.83	2.3529	0.933
68.50	966.1	798.1	86.85	2.3431	0.933
69.00	966.5	798.5	86.88	2.3333	0.934
69.50	966.7	798.7	86.91	2.3237	0.935
70.00	967.0	799.0	86.94	2.3143	0.935
70.50	967.3	799.3	86.96	2.3050	0.936
71.00	967.6	799.6	86.99	2.2958	0.936
71.50	967.9	799.9	87.01	2.2867	0.937
72.00	968.2	800.2	87.03	2.2778	0.937
72.50	968.5	800.5	87.06	2.2690	0.938
73.00	968.7	800.7	87.09	2.2603	0.938
73.50	969.0	801.0	87.11	2.2517	0.939
74.00	969.2	801.2	87.14	2.2432	0.939
74.50	969.5	801.5	87.17	2.2349	0.940
75.00	969.8	801.8	87.19	2.2267	0.941
75.50	970.0	802.0	87.22	2.2185	0.941
76.00	970.3	802.3	87.24	2.2105	0.941
76.50	970.6	802.6	87.26	2.2026	0.942
77.00	970.8	802.8	87.29	2.1948	0.943

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11050 Burk & Williams Sleeper J 1-21 DST #3

DATE: 09/01/98

TIME: 00:30:59

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	77.50	971.1	803.1	87.32	2.1871	0.943
	78.00	971.3	803.3	87.34	2.1795	0.943
	78.50	971.5	803.6	87.36	2.1720	0.944
	79.00	971.8	803.8	87.39	2.1646	0.944
	79.50	972.0	804.0	87.41	2.1572	0.945
	80.00	972.2	804.3	87.44	2.1500	0.945
	80.50	972.5	804.5	87.46	2.1429	0.946
	81.00	972.8	804.8	87.48	2.1358	0.946
	81.50	973.0	805.0	87.51	2.1288	0.947
	82.00	973.2	805.3	87.54	2.1220	0.947
	82.50	973.5	805.5	87.55	2.1152	0.948
	83.00	973.7	805.7	87.58	2.1084	0.948
	83.50	973.9	806.0	87.61	2.1018	0.949
	84.00	974.2	806.2	87.63	2.0952	0.949
	84.50	974.4	806.4	87.66	2.0888	0.950
	85.00	974.6	806.6	87.68	2.0824	0.950
	85.50	974.8	806.8	87.71	2.0760	0.950
	86.00	975.1	807.1	87.73	2.0698	0.951
	86.50	975.2	807.2	87.75	2.0636	0.951
	87.00	975.5	807.5	87.78	2.0575	0.952
	87.50	975.6	807.6	87.79	2.0514	0.952
	88.00	975.8	807.8	87.82	2.0455	0.952
	88.50	976.0	808.0	87.85	2.0395	0.953
	89.00	976.3	808.3	87.87	2.0337	0.953
	89.50	976.5	808.5	87.90	2.0279	0.953
	90.00	976.7	808.7	87.91	2.0222	0.954
	90.50	976.9	808.9	87.94	2.0166	0.954
	91.00	977.1	809.1	87.96	2.0110	0.955
	91.50	977.3	809.3	87.98	2.0055	0.955
***** End Shut-in 2	92.00	977.5	809.5	88.01	2.0000	0.955
***** Final Hydro.	316.50	1261.2	0.0	88.39		



P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

GAS VOLUME REPORT

Burke & Williams
OPERATOR

Sleeper

5 1-21
WELL NAME AND NO.

3
DST NO

Remarks:

WTS 1mm