Well Name:	REEVES B-1				
Company :	HELMERICH & PAYNE				
Location - Sec:	30	**Twp:**	25S	**Rge:**	34W
County:	FINNEY	**State:**	KS		
Date:	12/4/95				

TRILOBITE TESTING L.L.C.

OPERATOR : Helmerich & Payne Inc. DATE 12-1-95
WELL NAME: Reeves B-1 KB 3003.00 ft TICKET NO: 8491 DST #1
LOCATION : 30-25S-34W, Finney Cty KS GR 2993.00 ft FORMATION: Morrow
INTERVAL : 4820.00 To 4975.00 ft TD 4975.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 0	Rec.	11058	2351			
SI 0	Range(Psi)	4500.0	4995.0	0.0	0.0	0.0
SF 0	Clock(hrs)	AK-1	Alpin			
FS 0	Depth(ft)	4969.0	4827.0	0.0	0.0	0.0

TIME DATA----------

PF Fr.	to		hr
IS Fr.	to		hr
SF Fr.	to		hr
FS Fr.	to		hr

	Field	1	2	3	4
A. Init Hydro	0.0	2320.0	0.0	0.0	0.0
B. First Flow	0.0	0.0	0.0	0.0	0.0
B1. Final Flow	0.0	0.0	0.0	0.0	0.0
C. In Shut-in	0.0	0.0	0.0	0.0	0.0
D. Init Flow	0.0	0.0	0.0	0.0	0.0
E. Final Flow	0.0	0.0	0.0	0.0	0.0
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0
G. Final Hydro	0.0	2319.0	0.0	0.0	0.0
Inside/Outside	O	I			

T STARTED	0554	hr
T ON BOTM	0842	hr
T OPEN	0845	hr
T PULLED	0900	hr
T OUT	1115	hr

RECOVERY
Tot Fluid 300.00 ft of 300.00 ft in DC and 0.00 ft in DP
300.00 ft of Drilling mud

TOOL DATA----------

Tool Wt.	6000.00 lb
Wt Set On Packer	26000.00 lb
Wt Pulled Loose	147000.00 l
Initial Str Wt	101000.00 l
Unseated Str Wt	102000.00 l
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	2.25 in
D. Pipe ID	3.50 in
D.C. Length	580.00 ft
D.P. Length	4275.00 ft

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

MUD DATA----------

Mud Type	Chemical
Weight	9.00 lb
Vis.	53.00 S/
W.L.	8.80 in
F.C.	0.00 in
Mud Drop Y	0.0 ft

BLOW DESCRIPTION

*Packer failure at open

Amt. of fill	0.00 ft
Btm. H. Temp.	120.00 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	Shane McBride
Co. Rep.	Brad Rine
Contr.	Cheyenne
Rig #	2
Unit #	
Pump T.	

SAMPLES:
SENT TO:

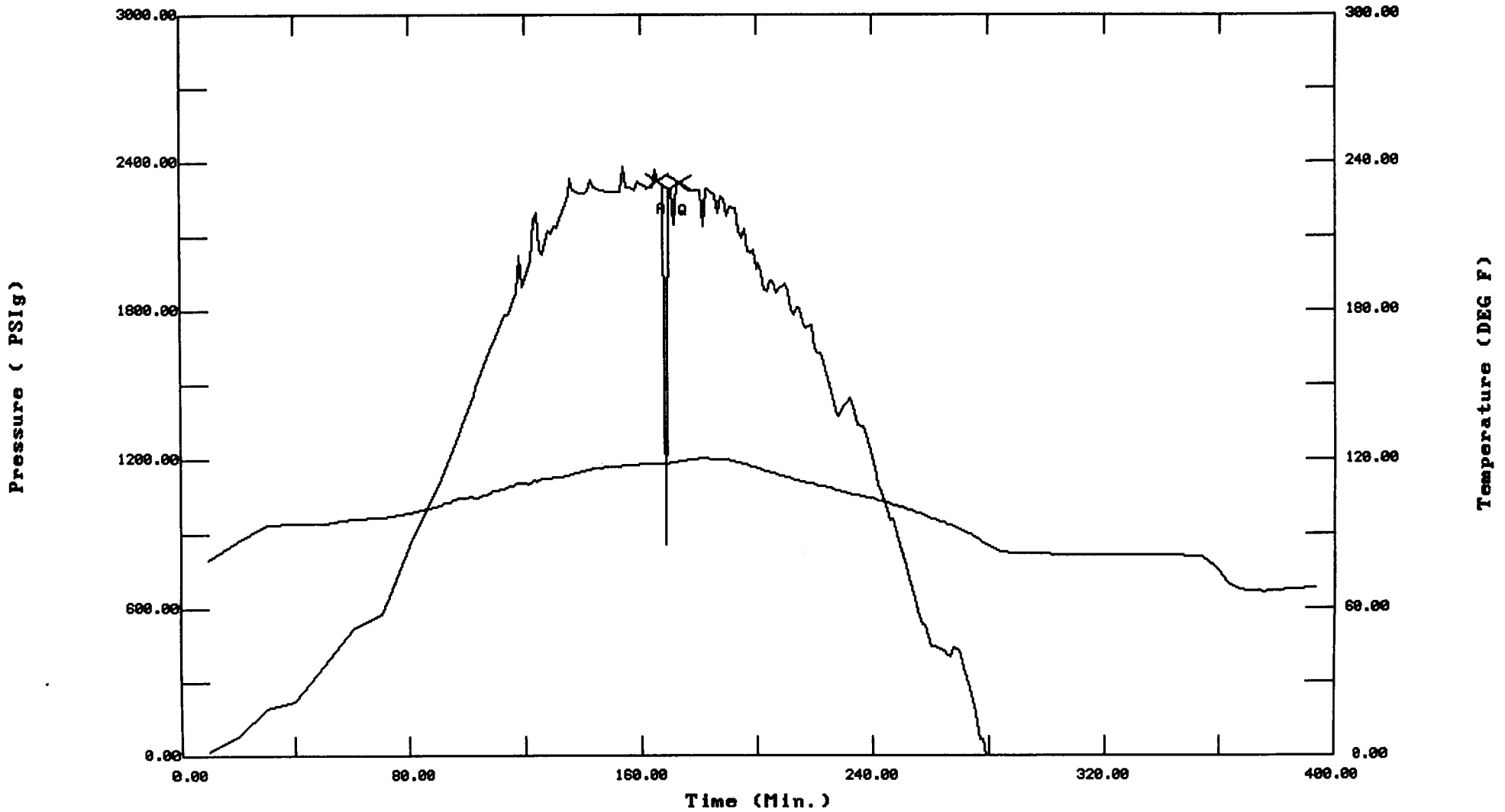
Test Successful: N

TEST HISTORY

8491 DST # 1 Reeves B-1 Helmerich & Payne

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2319.84
Q:	0.00	2319.09



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8491 DST # 1 Reeves B-1 Helmerich & Payne

DATE: 12/01/95 TIME: 05:45:38

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	166.00	2319.8	0.0	118.22		
****** Start Flow 1	0.00	2319.1	0.0	119.12		
****** End Flow 1	1.00	2303.1	-16.0	119.30		
****** End Shut-in 1	176.00	2303.1	0.0	119.30	0.0057	5.304
****** Final Hydro.	175.00	2303.1	0.0	119.30		

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Reeves B-1

LOCATION : 30-25S-34W, Finney Cty KS

TICKET No. 8491 D.S.T. No. 1 DATE 12-1-95

TOTAL TOOL TO BOTTOM OF TOP PACKERS 25

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 36

TOTAL TOOL 61

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands2 Single Total 119

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 180

D.C. ABOVE TOOLS.Stands9 Single Total 540

D.P. ABOVE TOOLS.Stands71 Single 1 Total 4275

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4995

TOTAL DEPTH 4975

TOTAL DRILL PIPE ABOVE K.B. 20

REMARKS:

P.O. SUB	
C.O. SUB 1'	4795
S.I. TOOL 5'	4801
sampler 3'	4804
HMV 5'	4809
JARS 5'	4814
SAFETY JOINT 2'	4816
PACKER top	4820
PACKER bottom	4825
DEPTH 4825	
STUBB 1'	4826
ANCHOR Alpine recorder	4827
5'-perf	4831
5'-perf	4836
5'-perf	4841
5'- perf	4846
3'	4849
T.C.	
DEPTH	
1' C.O.	4850
119' drill collars	4969
1' C.O.	4970
BULLNOSE 5'	
T.D.	4975

TRILOBITE TESTING L.L.C.

OPERATOR : Helmerich & Payne DATE 12-1-95
WELL NAME: Reeves B-1 KB 3003.00 ft TICKET NO: 8492 DST #2
LOCATION : 30-25S-34W, Finney Cty KS GR 2993.00 ft FORMATION: Morrow
INTERVAL : 4881.00 To 4975.00 ft TD 4975.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins			Field	1	2	3	4
PF	30	Rec.	11058	11058	2351		
SI	60	Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0
SF	30	Clock(hrs)	AK-1	AK-1	Alpin		
FS	60	Depth(ft)	4970.0	4970.0	4888.0	0.0	0.0

TIME DATA----------
PF Fr. 1502 to 1532 hr
IS Fr. 1532 to 1632 hr
SF Fr. 1632 to 1702 hr
FS Fr. 1702 to 1802 hr

	Field	1	2	3	4
A. Init Hydro	2412.0	0.0	2348.0	0.0	0.0
B. First Flow	100.0	0.0	28.0	0.0	0.0
B1. Final Flow	94.0	0.0	32.0	0.0	0.0
C. In Shut-in	116.0	0.0	78.0	0.0	0.0
D. Init Flow	94.0	0.0	31.0	0.0	0.0
E. Final Flow	94.0	0.0	35.0	0.0	0.0
F. Fl Shut-in	105.0	0.0	57.0	0.0	0.0
G. Final Hydro	2390.0	0.0	2335.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 1245 hr
T ON BOTM 1528 hr
T OPEN 1532 hr
T PULLED 1802 hr
T OUT 2020 hr

RECOVERY
Tot Fluid 20.00 ft of 20.00 ft in DC and 0.00 ft in DP
20.00 ft of Drilling mud w/ scum of oil

TOOL DATA----------

Tool Wt.	6000.00 lbs
Wt Set On Packer	26000.00 lbs
Wt Pulled Loose	105000.00 lb
Initial Str Wt	101000.00 lb
Unseated Str Wt	101000.00 lb
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	540.00 ft
D.P. Length	4275.00 ft

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

MUD DATA----------

Mud Type	Chemical
Weight	9.00 lb/
Vis.	53.00 S/
W.L.	8.80 in
F.C.	0.00 in
Mud Drop Y	15.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	124.00 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	Shane McBride
Co. Rep.	Brad Rine
Contr.	Cheyenne
Rig #	2
Unit #	
Pump T.	

BLOW DESCRIPTION

Initial Flow -
Surface blow built to a weak .5"

Initial Shutin -
No return

Final Flow -
No blow

Final Shutin -
No return

SAMPLES:
SENT TO:

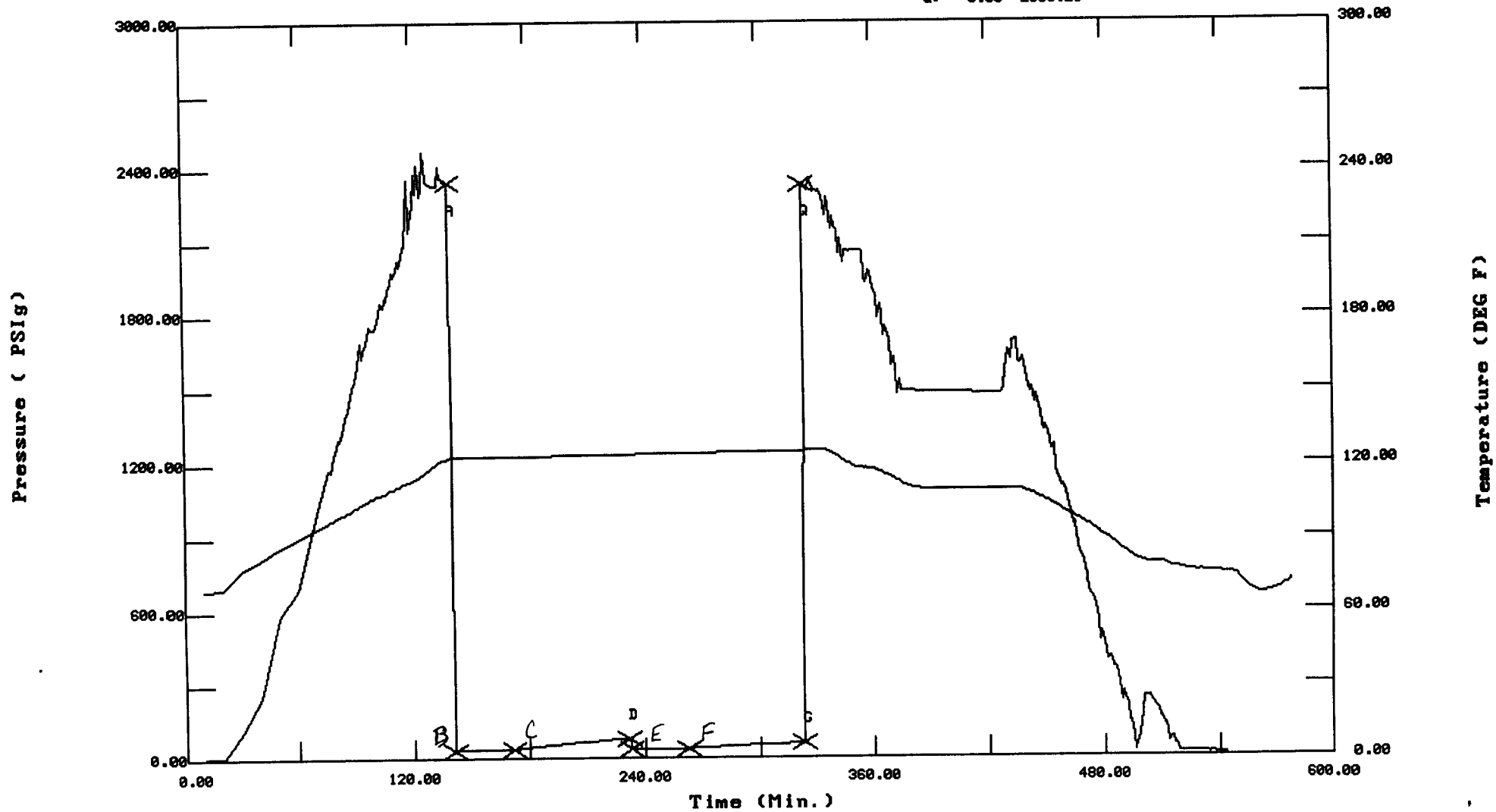
Test Successful: Y

TEST HISTORY

8492 DST #2 Reeves B-1 Helmerich & Payne

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2348.12
B:	0.00	27.69
C:	31.00	32.39
D:	60.00	78.21
E:	0.00	31.04
F:	30.00	34.82
G:	60.00	57.40
Q:	0.00	2335.20



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8492 DST #2 Reeves B-1 Helmerich & Payne

DATE: 12/01/95 TIME: 12:42:12

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	140.00	2348.1	0.0	122.72		
****** Start Flow 1	0.00	27.7	0.0	122.72		
	1.00	30.2	2.5	122.72		
	2.00	30.9	3.2	122.90		
	3.00	31.5	3.8	122.90		
	4.00	31.2	3.5	122.90		
	5.00	30.9	3.2	122.90		
	6.00	30.8	3.1	122.72		
	7.00	31.0	3.4	122.72		
	8.00	30.9	3.2	122.72		
	9.00	31.2	3.5	122.72		
	10.00	31.1	3.4	122.72		
	11.00	31.4	3.7	122.72		
	12.00	31.3	3.6	122.72		
	13.00	31.2	3.5	122.72		
	14.00	31.3	3.6	122.90		
	15.00	31.5	3.9	122.72		
	16.00	31.6	3.9	122.90		
	17.00	31.4	3.7	122.72		
	18.00	31.6	3.9	122.72		
	19.00	31.4	3.7	122.72		
	20.00	31.8	4.1	122.90		
	21.00	31.9	4.2	122.90		
	22.00	32.0	4.3	122.90		
	23.00	31.8	4.1	122.90		
	24.00	32.1	4.4	122.90		
	25.00	32.2	4.5	122.90		
	26.00	32.0	4.3	122.90		
	27.00	32.2	4.5	122.90		
	28.00	32.5	4.8	122.90		
	29.00	32.4	4.7	122.90		
	30.00	32.4	4.7	122.90		
****** End Flow 1	31.00	32.4	4.7	122.90		
****** Start Shutin 1	0.00	32.4	0.0	122.90	0.0000	0.001
	1.00	33.7	1.3	122.90	32.0000	0.001
	2.00	35.2	2.8	122.90	16.5000	0.001
	3.00	35.9	3.5	122.90	11.3333	0.001
	4.00	37.2	4.8	122.90	8.7500	0.001
	5.00	38.4	6.0	122.90	7.2000	0.001
	6.00	39.3	6.9	122.90	6.1667	0.002
	7.00	40.3	7.9	122.90	5.4286	0.002
	8.00	41.5	9.1	122.90	4.8750	0.002
	9.00	42.5	10.2	123.08	4.4444	0.002
	10.00	43.5	11.2	123.08	4.1000	0.002
	11.00	44.5	12.1	123.08	3.8182	0.002
	12.00	45.2	12.8	123.08	3.5833	0.002
	13.00	46.2	13.8	123.08	3.3846	0.002
	14.00	47.0	14.6	123.08	3.2143	0.002
	15.00	47.7	15.4	123.08	3.0667	0.002
	16.00	48.6	16.2	123.08	2.9375	0.002
	17.00	49.4	17.0	123.08	2.8235	0.002

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8492 DST #2 Reeves B-1 Helmerich & Payne

DATE: 12/01/95 TIME: 12:42:12

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	18.00	50.3	18.0	123.08	2.7222	0.003
	19.00	51.2	18.8	123.08	2.6316	0.003
	20.00	52.0	19.6	123.08	2.5500	0.003
	21.00	52.5	20.1	123.26	2.4762	0.003
	22.00	53.2	20.8	123.26	2.4091	0.003
	23.00	53.8	21.4	123.26	2.3478	0.003
	24.00	54.3	21.9	123.26	2.2917	0.003
	25.00	55.1	22.7	123.26	2.2400	0.003
	26.00	55.7	23.3	123.26	2.1923	0.003
	27.00	56.4	24.0	123.26	2.1481	0.003
	28.00	57.5	25.1	123.26	2.1071	0.003
	29.00	58.2	25.8	123.26	2.0690	0.003
	30.00	59.0	26.6	123.26	2.0333	0.003
	31.00	60.0	27.6	123.26	2.0000	0.004
	32.00	60.8	28.4	123.44	1.9688	0.004
	33.00	61.4	29.0	123.44	1.9394	0.004
	34.00	61.9	29.5	123.44	1.9118	0.004
	35.00	62.6	30.2	123.44	1.8857	0.004
	36.00	63.1	30.7	123.44	1.8611	0.004
	37.00	63.5	31.1	123.44	1.8378	0.004
	38.00	64.1	31.7	123.44	1.8158	0.004
	39.00	64.5	32.1	123.44	1.7949	0.004
	40.00	65.0	32.6	123.44	1.7750	0.004
	41.00	65.2	32.8	123.44	1.7561	0.004
	42.00	66.0	33.6	123.44	1.7381	0.004
	43.00	66.5	34.1	123.44	1.7209	0.004
	44.00	67.0	34.6	123.62	1.7045	0.004
	45.00	67.7	35.3	123.62	1.6889	0.005
	46.00	68.4	36.0	123.62	1.6739	0.005
	47.00	69.6	37.2	123.62	1.6596	0.005
	48.00	70.4	38.0	123.62	1.6458	0.005
	49.00	71.2	38.8	123.62	1.6327	0.005
	50.00	71.7	39.4	123.62	1.6200	0.005
	51.00	72.8	40.4	123.62	1.6078	0.005
	52.00	73.6	41.2	123.62	1.5962	0.005
	53.00	74.1	41.7	123.62	1.5849	0.005
	54.00	74.7	42.3	123.62	1.5741	0.006
	55.00	75.3	42.9	123.62	1.5636	0.006
	56.00	76.0	43.6	123.80	1.5536	0.006
	57.00	76.6	44.2	123.80	1.5439	0.006
	58.00	77.2	44.8	123.80	1.5345	0.006
	59.00	77.7	45.3	123.80	1.5254	0.006
***** End Shut-in 1	60.00	78.2	45.8	123.80	1.5167	0.006
***** Start Flow 2	0.00	31.0	0.0	123.80		
	1.00	33.6	2.5	123.80		
	2.00	32.1	1.1	123.80		
	3.00	33.1	2.1	123.80		
	4.00	34.3	3.3	123.98		
	5.00	33.4	2.3	123.98		
	6.00	34.3	3.3	123.98		
	7.00	33.1	2.0	123.98		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8492 DST #2 Reeves B-1 Helmerich & Payne

DATE: 12/01/95 TIME: 12:42:12

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	8.00	34.3	3.3	123.98		
	9.00	32.9	1.8	123.98		
	10.00	34.0	2.9	123.98		
	11.00	34.7	3.6	123.98		
	12.00	34.1	3.0	124.16		
	13.00	34.0	2.9	124.16		
	14.00	34.6	3.5	124.16		
	15.00	34.1	3.0	124.16		
	16.00	34.2	3.2	124.16		
	17.00	34.3	3.3	124.16		
	18.00	34.5	3.4	124.16		
	19.00	34.2	3.2	124.16		
	20.00	34.3	3.3	124.16		
	21.00	34.6	3.5	124.16		
	22.00	34.2	3.2	124.16		
	23.00	34.5	3.4	124.16		
	24.00	34.5	3.4	124.16		
	25.00	34.7	3.6	124.16		
	26.00	34.6	3.5	124.34		
	27.00	34.7	3.7	124.34		
	28.00	34.7	3.7	124.34		
	29.00	34.7	3.6	124.34		
****** End Flow 2	30.00	34.8	3.8	124.34		
****** Start Shutin 2	0.00	34.8	0.0	124.34	0.0000	0.001
	1.00	35.5	0.7	124.34	62.0000	0.001
	2.00	36.1	1.3	124.34	31.5000	0.001
	3.00	36.8	1.9	124.34	21.3333	0.001
	4.00	37.3	2.4	124.34	16.2500	0.001
	5.00	37.8	3.0	124.34	13.2000	0.001
	6.00	38.2	3.4	124.34	11.1667	0.001
	7.00	38.7	3.9	124.34	9.7143	0.001
	8.00	39.2	4.4	124.34	8.6250	0.002
	9.00	39.5	4.7	124.34	7.7778	0.002
	10.00	39.9	5.0	124.34	7.1000	0.002
	11.00	40.3	5.5	124.34	6.5455	0.002
	12.00	40.3	5.5	124.34	6.0833	0.002
	13.00	40.9	6.1	124.34	5.6923	0.002
	14.00	41.5	6.7	124.34	5.3571	0.002
	15.00	42.0	7.2	124.34	5.0667	0.002
	16.00	42.6	7.8	124.52	4.8125	0.002
	17.00	43.2	8.4	124.52	4.5882	0.002
	18.00	43.5	8.7	124.52	4.3889	0.002
	19.00	44.1	9.2	124.52	4.2105	0.002
	20.00	44.0	9.1	124.52	4.0500	0.002
	21.00	44.3	9.5	124.52	3.9048	0.002
	22.00	44.6	9.8	124.52	3.7727	0.002
	23.00	44.9	10.1	124.52	3.6522	0.002
	24.00	45.2	10.4	124.52	3.5417	0.002
	25.00	45.7	10.9	124.52	3.4400	0.002
	26.00	46.2	11.4	124.52	3.3462	0.002
	27.00	46.7	11.8	124.52	3.2593	0.002

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8492 DST #2 Reeves B-1 Helmerich & Payne

DATE: 12/01/95 TIME: 12:42:12

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	28.00	46.7	11.9	124.52	3.1786	0.002
	29.00	47.5	12.7	124.52	3.1034	0.002
	30.00	47.8	13.0	124.52	3.0333	0.002
	31.00	48.5	13.7	124.52	2.9677	0.002
	32.00	48.8	14.0	124.52	2.9062	0.002
	33.00	49.1	14.3	124.52	2.8485	0.002
	34.00	49.3	14.5	124.70	2.7941	0.002
	35.00	49.5	14.7	124.70	2.7429	0.002
	36.00	49.8	15.0	124.70	2.6944	0.002
	37.00	50.1	15.3	124.70	2.6486	0.003
	38.00	50.3	15.4	124.70	2.6053	0.003
	39.00	50.3	15.5	124.70	2.5641	0.003
	40.00	50.9	16.0	124.70	2.5250	0.003
	41.00	51.1	16.3	124.70	2.4878	0.003
	42.00	51.2	16.4	124.70	2.4524	0.003
	43.00	51.6	16.8	124.70	2.4186	0.003
	44.00	51.9	17.1	124.70	2.3864	0.003
	45.00	52.0	17.2	124.70	2.3556	0.003
	46.00	52.6	17.8	124.70	2.3261	0.003
	47.00	52.8	18.0	124.70	2.2979	0.003
	48.00	53.2	18.4	124.70	2.2708	0.003
	49.00	53.4	18.5	124.70	2.2449	0.003
	50.00	53.4	18.5	124.70	2.2200	0.003
	51.00	53.8	19.0	124.70	2.1961	0.003
	52.00	54.5	19.7	124.70	2.1731	0.003
	53.00	55.0	20.1	124.88	2.1509	0.003
	54.00	55.3	20.5	124.88	2.1296	0.003
	55.00	55.6	20.8	124.88	2.1091	0.003
	56.00	56.1	21.3	124.88	2.0893	0.003
	57.00	56.2	21.4	124.88	2.0702	0.003
	58.00	56.6	21.8	124.88	2.0517	0.003
	59.00	57.1	22.2	124.88	2.0339	0.003
***** End Shut-in 2	60.00	57.4	22.6	124.88	2.0167	0.003
***** Final Hydro.	324.00	2335.2	0.0	125.06		

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Reeves B-1

LOCATION : 30-25S-34W, Finney Cty KS

TICKET No. 8492 D.S.T. No. 2 DATE 12-1-95

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 31

TOTAL TOOL 61

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands1 Single Total 58

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 119

D.C. ABOVE TOOLS.Stands8 Single Total 482

D.P. ABOVE TOOLS.Stands71 Single 1 Total 4396

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4997

TOTAL DEPTH 4975

TOTAL DRILL PIPE ABOVE K.B. 22

REMARKS:

FLUID SAMPLER DATA

SAMPLER RECOVERY -
Oil 100 ml, Mud 3900 ml, Pressure 40 PSI,
Total 4000 ml
SAMPLER ANALYSIS -
Resist 2.4 ohms @ 70 F; Chlorides 2300 ppm
PIT MUD ANALYSIS -
Chlorides 1700 ppm; Viscosity 53, Mud Wt 9,
Filtrate 8.8, LCM 1#
PIPE RECOVERY - Top & bottom -
Resistivity 2.4 ohms @ 70 F
Chlorides 2300 ppm

P.O. SUB	
C.O. SUB 1'	4856
S.I. TOOL	4862
sampler	4865
HMV	4870
JARS	4875
SAFETY JOINT 2'	4877
PACKER top	4881
PACKER bottom	4886
DEPTH 4886	
STUBB 1'	4887
ANCHOR Alpine recorder	4888
5'	4892
5'	4897
5'	4902
5'	4907
3'	4910
1' c.o.	4911
T.C.	
DEPTH	
58' drill collars	4969
1' c.o.	4970
AK-1 recorder	4970
BULLNOSE 5' perf	
T.D.	4975

TRILOBITE TESTING L.L.C.

OPERATOR : Helmerich & Payne DATE 12-2-95
WELL NAME: Reeves B-1 KB 3003.00 ft TICKET NO: 8493 DST #3
LOCATION : 30-25S-34W, Finney Cty KS GR 2993.00 ft FORMATION: Morrow
INTERVAL : 4881.00 To 5000.00 ft TD 5000.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	11058	11058	2351		
SI 60	Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0
SF 60	Clock(hrs)	AK-1	AK-1	Alpin		
FS 120	Depth(ft)	4995.0	4995.0	4888.0	0.0	0.0

TIME DATA----------
PF Fr. 1203 to 1233 hr
IS Fr. 1233 to 1333 hr
SF Fr. 1333 to 1433 hr
FS Fr. 1433 to 1633 hr

	Field	1	2	3	4
A. Init Hydro	2345.0	2340.0	2331.0	0.0	0.0
B. First Flow	122.0	129.0	52.0	0.0	0.0
B1. Final Flow	166.0	173.0	131.0	0.0	0.0
C. In Shut-in	929.0	921.0	904.0	0.0	0.0
D. Init Flow	211.0	211.0	143.0	0.0	0.0
E. Final Flow	238.0	246.0	214.0	0.0	0.0
F. Fl Shut-in	822.0	822.0	807.0	0.0	0.0
G. Final Hydro	2334.0	2328.0	2309.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 0930 hr
T ON BOTM 1200 hr
T OPEN 1203 hr
T PULLED 1633 hr
T OUT 1833 hr

TOOL DATA----------

Tool Wt.	6000.00 lbs
Wt Set On Packer	26000.00 lbs
Wt Pulled Loose	130000.00 lb
Initial Str Wt	98000.00 lbs
Unseated Str Wt	101000.00 lb
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	540.00 ft
D.P. Length	4332.00 ft

RECOVERY
Tot Fluid 510.00 ft of 510.00 ft in DC and 0.00 ft in DP
60.00 ft of Gas in pipe
200.00 ft of Mud cut gassy oil - 50% gas, 40% oil, 10% mud
200.00 ft of Gassy oil cut mud - 40% gas, 30% oil, 30% mud
110.00 ft of Gassy oil cut mud - 10% gas, 20% oil, 70% mud

RW 2.46 @ 62 F
SALINITY 2350.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA----------

Mud Type	Chemical
Weight	9.10 lb/
Vis.	50.00 S/I
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop Y	15.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	121.00 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	Shane McBride
Co. Rep.	Brad Rine
Contr.	Cheyenne
Rig #	2
Unit #	
Pump T.	

BLOW DESCRIPTION

Initial Flow -
Bottom of bucket in 7 min, fair blow

Initial Shutin -
Bled off blow, no return

Final Flow -
Bottom of bucket in 7 min, fair blow

Final Shutin -
Bled off blow, return blow in 6 min,
weak surface blow built to .5"

SAMPLES:
SENT TO:

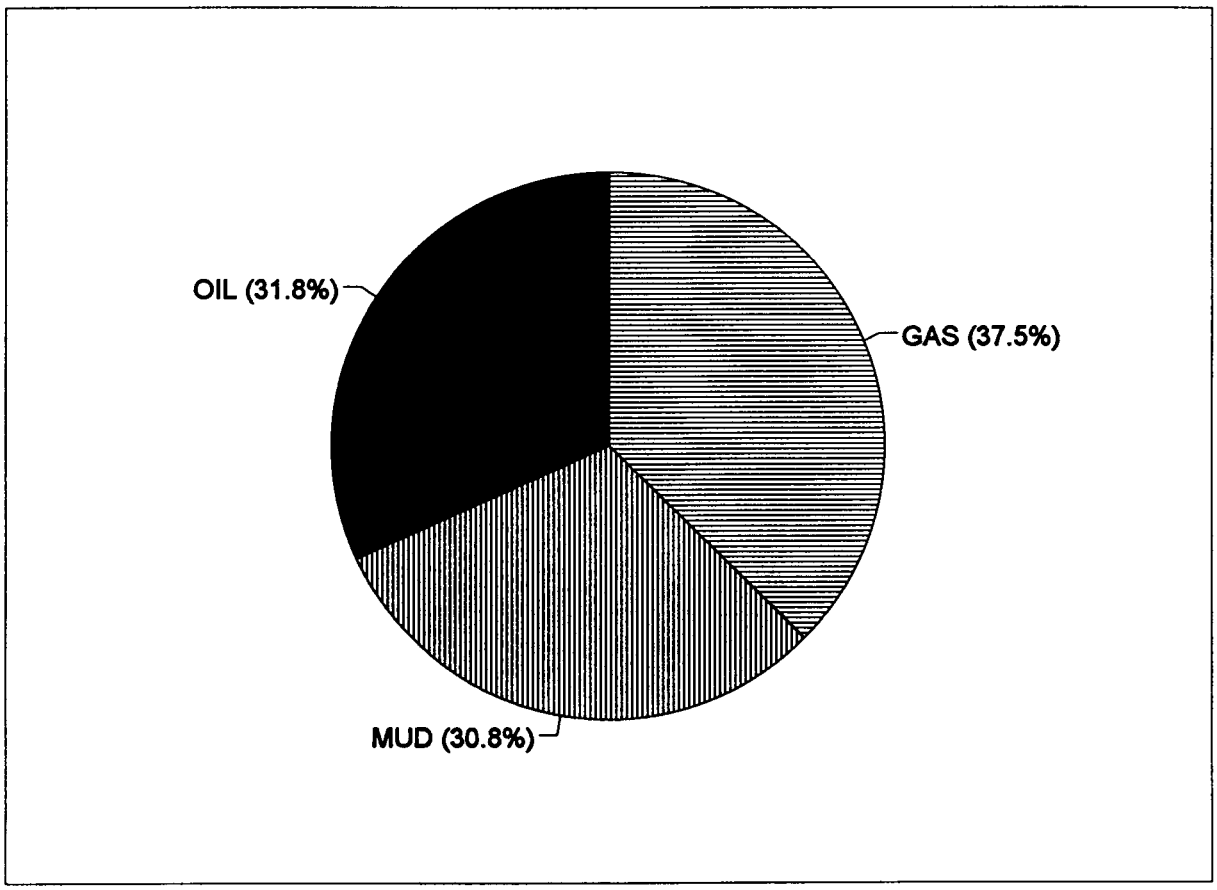
Test Successful: Y

CALCULATED RECOVERY ANALYSIS - DRILL COLLARS

DST # 3 TICKET # 8493

SAMPLE #	TOTAL FEET	GAS %	GAS FEET	OIL %	OIL FEET	WATER %	WATER FEET	MUD %	MUD FEET
1	200	50	100	40	80		0	10	20
2	200	40	80	30	60		0	30	60
3	110	10	11	20	22		0	70	77
4			0		0		0		0
5			0		0		0		0
TOTAL	510	37.45	191	31.76	162	0.00	0	30.78431	157

			HRS OPE	BBL/DAY
BBL OIL=	0.79218	*	1.50	12.67488
BBL WAT	0	*		0
BBL MUD	0.76773			
BBL GAS	0.93399			

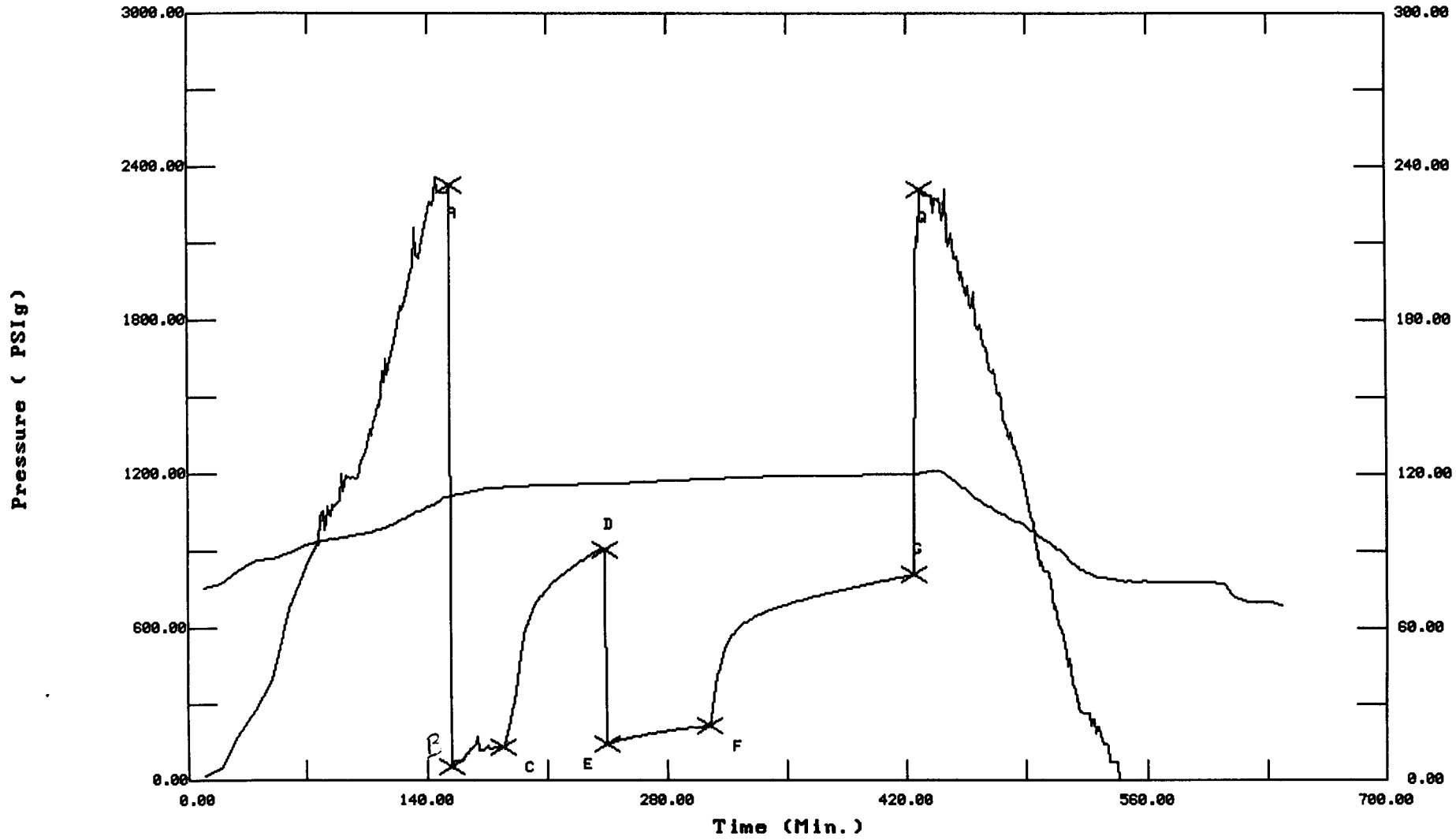


TEST HISTORY

8493 DST #3 Reeves B-1 Helmerich & Payne

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2330.50
B:	0.00	51.52
C:	30.00	131.25
D:	60.00	904.31
E:	0.00	142.84
F:	60.00	213.50
G:	119.00	807.21
Q:	0.00	2308.59



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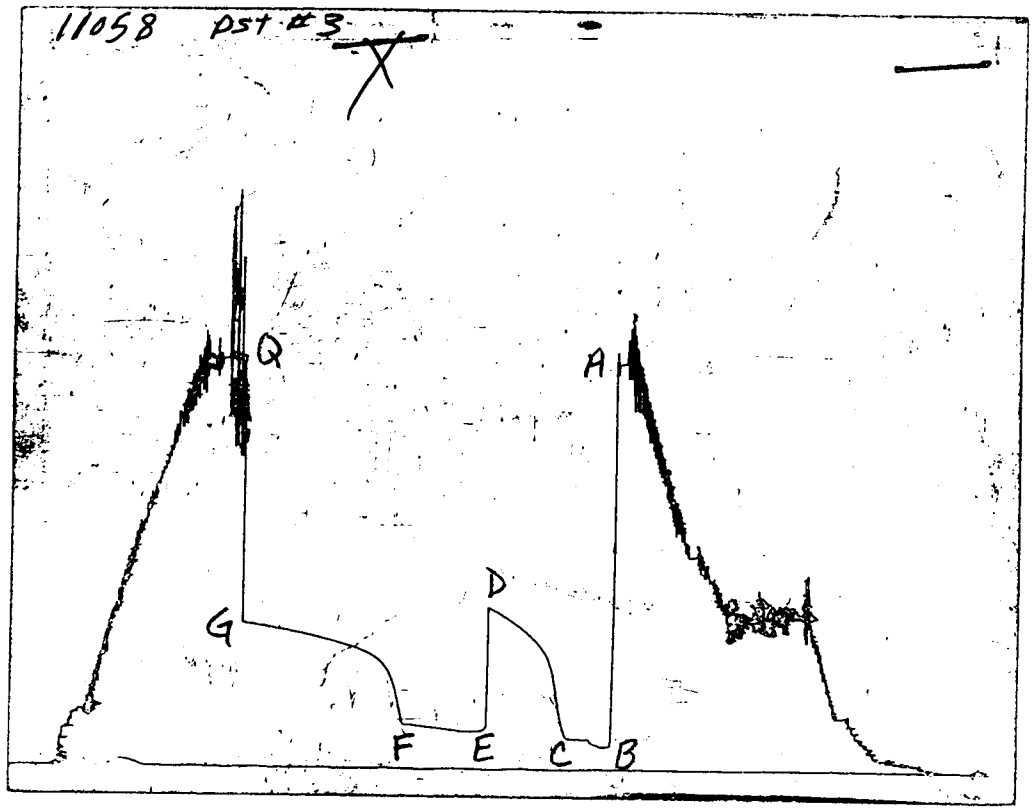


This is an actual photograph of recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8493 DST #3 Reeves B-1 Helmerich & Payne

DATE: 12/02/95 TIME: 09:30:42

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	153.00	2330.5	0.0	111.38		
****** Start Flow 1	0.00	51.5	0.0	111.56		
	1.00	70.8	19.3	111.74		
	2.00	74.4	22.9	111.74		
	3.00	73.6	22.1	111.92		
	4.00	75.4	23.8	111.92		
	5.00	77.5	25.9	111.92		
	6.00	80.6	29.1	112.10		
	7.00	88.8	37.3	112.10		
	8.00	100.2	48.7	112.46		
	9.00	105.4	53.9	112.64		
	10.00	103.4	51.9	112.82		
	11.00	120.9	69.4	113.00		
	12.00	124.4	72.8	113.18		
	13.00	135.6	84.1	113.36		
	14.00	143.8	92.2	113.54		
	15.00	174.7	123.2	113.54		
	16.00	119.8	68.3	113.72		
	17.00	116.3	64.8	113.90		
	18.00	116.9	65.4	113.90		
	19.00	119.4	67.9	114.08		
	20.00	121.3	69.7	114.26		
	21.00	137.5	85.9	114.26		
	22.00	125.9	74.4	114.44		
	23.00	125.5	73.9	114.44		
	24.00	125.9	74.4	114.62		
	25.00	127.9	76.4	114.62		
	26.00	129.6	78.1	114.62		
	27.00	127.0	75.5	114.80		
	28.00	128.3	76.8	114.80		
	29.00	129.8	78.3	114.80		
****** End Flow 1	30.00	131.3	79.7	114.80		
****** Start Shutin 1	0.00	131.3	0.0	114.80	0.0000	0.017
	1.00	144.4	13.2	114.98	31.0000	0.021
	2.00	165.7	34.5	114.98	16.0000	0.027
	3.00	188.4	57.2	114.98	11.0000	0.035
	4.00	212.8	81.6	114.98	8.5000	0.045
	5.00	240.5	109.3	115.16	7.0000	0.058
	6.00	272.4	141.2	115.16	6.0000	0.074
	7.00	310.0	178.8	115.16	5.2857	0.096
	8.00	354.1	222.8	115.16	4.7500	0.125
	9.00	402.3	271.1	115.16	4.3333	0.162
	10.00	450.7	319.4	115.34	4.0000	0.203
	11.00	495.7	364.4	115.34	3.7273	0.246
	12.00	535.3	404.0	115.34	3.5000	0.287
	13.00	569.0	437.8	115.34	3.3077	0.324
	14.00	597.3	466.1	115.34	3.1429	0.357
	15.00	621.1	489.8	115.34	3.0000	0.386
	16.00	641.0	509.8	115.52	2.8750	0.411
	17.00	658.1	526.8	115.52	2.7647	0.433
	18.00	673.0	541.8	115.52	2.6667	0.453

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8493 DST #3 Reeves B-1 Helmerich & Payne

DATE: 12/02/95 TIME: 09:30:42

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	19.00	685.9	554.7	115.52	2.5789	0.471
	20.00	697.6	566.3	115.52	2.5000	0.487
	21.00	708.2	576.9	115.52	2.4286	0.502
	22.00	717.7	586.5	115.52	2.3636	0.515
	23.00	726.6	595.3	115.52	2.3043	0.528
	24.00	734.9	603.7	115.52	2.2500	0.540
	25.00	742.8	611.6	115.52	2.2000	0.552
	26.00	750.2	619.0	115.70	2.1538	0.563
	27.00	757.4	626.1	115.70	2.1111	0.574
	28.00	764.2	633.0	115.70	2.0714	0.584
	29.00	770.7	639.4	115.70	2.0345	0.594
	30.00	777.0	645.7	115.70	2.0000	0.604
	31.00	783.1	651.9	115.70	1.9677	0.613
	32.00	789.1	657.8	115.70	1.9375	0.623
	33.00	794.9	663.6	115.70	1.9091	0.632
	34.00	800.6	669.3	115.88	1.8824	0.641
	35.00	806.2	674.9	115.88	1.8571	0.650
	36.00	811.6	680.3	115.88	1.8333	0.659
	37.00	816.9	685.6	115.88	1.8108	0.667
	38.00	822.1	690.9	115.88	1.7895	0.676
	39.00	827.4	696.1	115.88	1.7692	0.685
	40.00	832.4	701.1	115.88	1.7500	0.693
	41.00	837.3	706.0	115.88	1.7317	0.701
	42.00	842.3	711.0	115.88	1.7143	0.709
	43.00	846.9	715.7	115.88	1.6977	0.717
	44.00	851.8	720.5	115.88	1.6818	0.726
	45.00	856.5	725.2	116.06	1.6667	0.734
	46.00	861.2	729.9	116.06	1.6522	0.742
	47.00	865.6	734.4	116.06	1.6383	0.749
	48.00	870.2	739.0	116.06	1.6250	0.757
	49.00	874.5	743.3	116.06	1.6122	0.765
	50.00	878.8	747.5	116.06	1.6000	0.772
	51.00	882.9	751.7	116.06	1.5882	0.780
	52.00	886.9	755.7	116.06	1.5769	0.787
	53.00	891.0	759.7	116.06	1.5660	0.794
	54.00	895.0	763.7	116.06	1.5556	0.801
	55.00	898.9	767.6	116.06	1.5455	0.808
	56.00	902.6	771.4	116.24	1.5357	0.815
	57.00	906.3	775.1	116.24	1.5263	0.821
	58.00	909.8	778.5	116.24	1.5172	0.828
	59.00	913.5	782.3	116.24	1.5085	0.835
***** End Shut-in 1	60.00	904.3	773.1	116.24	1.5000	0.818
***** Start Flow 2	0.00	142.8	0.0	116.24		
	1.00	143.7	0.8	116.24		
	2.00	147.0	4.2	116.06		
	3.00	149.8	7.0	116.06		
	4.00	152.1	9.2	116.06		
	5.00	154.5	11.7	116.24		
	6.00	156.2	13.3	116.24		
	7.00	158.2	15.4	116.24		
	8.00	159.2	16.4	116.42		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8493 DST #3 Reeves B-1 Helmerich & Payne

DATE: 12/02/95 TIME: 09:30:42

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
9.00	160.8	18.0	116.42		
10.00	162.3	19.5	116.42		
11.00	163.8	21.0	116.60		
12.00	165.3	22.5	116.60		
13.00	166.6	23.8	116.60		
14.00	167.9	25.1	116.78		
15.00	169.4	26.5	116.78		
16.00	171.0	28.1	116.78		
17.00	172.1	29.3	116.78		
18.00	173.5	30.6	116.96		
19.00	174.6	31.8	116.96		
20.00	176.3	33.5	116.96		
21.00	177.4	34.6	116.96		
22.00	178.8	35.9	116.96		
23.00	179.8	37.0	117.14		
24.00	181.0	38.2	117.14		
25.00	182.2	39.4	117.14		
26.00	183.5	40.6	117.14		
27.00	184.5	41.6	117.14		
28.00	185.6	42.8	117.14		
29.00	187.1	44.2	117.14		
30.00	188.1	45.2	117.32		
31.00	189.1	46.2	117.32		
32.00	190.1	47.3	117.32		
33.00	191.3	48.5	117.32		
34.00	192.5	49.7	117.32		
35.00	193.4	50.6	117.32		
36.00	194.5	51.6	117.32		
37.00	195.2	52.4	117.50		
38.00	196.3	53.5	117.50		
39.00	197.3	54.5	117.50		
40.00	198.3	55.5	117.50		
41.00	199.2	56.3	117.50		
42.00	199.7	56.9	117.50		
43.00	200.8	58.0	117.68		
44.00	201.5	58.7	117.68		
45.00	202.7	59.8	117.68		
46.00	203.5	60.7	117.68		
47.00	204.2	61.4	117.68		
48.00	205.0	62.2	117.68		
49.00	206.0	63.1	117.68		
50.00	206.6	63.8	117.86		
51.00	207.2	64.4	117.86		
52.00	207.8	65.0	117.86		
53.00	208.5	65.6	117.86		
54.00	209.2	66.4	117.86		
55.00	209.9	67.1	118.04		
56.00	210.7	67.8	118.04		
57.00	211.3	68.5	118.04		
58.00	211.9	69.1	118.04		
59.00	212.6	69.7	118.04		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8493 DST #3 Reeves B-1 Helmerich & Payne

DATE: 12/02/95 TIME: 09:30:42

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** End Flow 2	60.00	213.5	70.7	118.04		
***** Start Shutin 2	0.00	213.5	0.0	118.04	0.0000	0.046
	1.00	248.2	34.7	118.22	91.0000	0.062
	2.00	283.9	70.4	118.22	46.0000	0.081
	3.00	326.8	113.3	118.22	31.0000	0.107
	4.00	370.7	157.2	118.22	23.5000	0.137
	5.00	409.6	196.1	118.22	19.0000	0.168
	6.00	442.7	229.2	118.40	16.0000	0.196
	7.00	470.7	257.2	118.40	13.8571	0.222
	8.00	494.2	280.7	118.40	12.2500	0.244
	9.00	514.1	300.6	118.40	11.0000	0.264
	10.00	530.9	317.4	118.58	10.0000	0.282
	11.00	545.2	331.7	118.58	9.1818	0.297
	12.00	557.2	343.7	118.58	8.5000	0.310
	13.00	567.9	354.4	118.58	7.9231	0.323
	14.00	577.1	363.6	118.58	7.4286	0.333
	15.00	585.4	371.9	118.58	7.0000	0.343
	16.00	592.8	379.3	118.76	6.6250	0.351
	17.00	599.3	385.8	118.58	6.2941	0.359
	18.00	605.4	391.9	118.76	6.0000	0.367
	19.00	610.9	397.4	118.76	5.7368	0.373
	20.00	616.1	402.6	118.76	5.5000	0.380
	21.00	620.8	407.3	118.76	5.2857	0.385
	22.00	625.3	411.7	118.94	5.0909	0.391
	23.00	629.4	415.9	118.94	4.9130	0.396
	24.00	633.2	419.7	118.94	4.7500	0.401
	25.00	637.1	423.6	118.94	4.6000	0.406
	26.00	640.7	427.2	118.94	4.4615	0.410
	27.00	644.1	430.5	118.94	4.3333	0.415
	28.00	647.4	433.9	118.94	4.2143	0.419
	29.00	650.5	437.0	118.94	4.1034	0.423
	30.00	653.7	440.2	118.94	4.0000	0.427
	31.00	656.6	443.1	118.94	3.9032	0.431
	32.00	659.6	446.1	119.12	3.8125	0.435
	33.00	662.3	448.8	119.12	3.7273	0.439
	34.00	665.1	451.6	119.12	3.6471	0.442
	35.00	667.6	454.1	119.12	3.5714	0.446
	36.00	670.2	456.7	119.12	3.5000	0.449
	37.00	672.8	459.3	119.12	3.4324	0.453
	38.00	675.3	461.8	119.12	3.3684	0.456
	39.00	677.7	464.2	119.12	3.3077	0.459
	40.00	680.1	466.6	119.12	3.2500	0.462
	41.00	682.6	469.1	119.12	3.1951	0.466
	42.00	684.8	471.3	119.12	3.1429	0.469
	43.00	686.9	473.4	119.12	3.0930	0.472
	44.00	689.2	475.7	119.12	3.0455	0.475
	45.00	691.4	477.9	119.12	3.0000	0.478
	46.00	693.4	479.9	119.12	2.9565	0.481
	47.00	695.7	482.2	119.12	2.9149	0.484
	48.00	697.7	484.2	119.30	2.8750	0.487
	49.00	699.6	486.1	119.30	2.8367	0.489

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8493 DST #3 Reeves B-1 Helmerich & Payne

DATE: 12/02/95 TIME: 09:30:42

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
50.00	701.6	488.1	119.30	2.8000	0.492
51.00	703.6	490.1	119.30	2.7647	0.495
52.00	705.6	492.1	119.30	2.7308	0.498
53.00	707.5	494.0	119.30	2.6981	0.501
54.00	709.4	495.9	119.30	2.6667	0.503
55.00	711.4	497.9	119.30	2.6364	0.506
56.00	713.2	499.7	119.30	2.6071	0.509
57.00	714.9	501.4	119.30	2.5789	0.511
58.00	716.7	503.1	119.30	2.5517	0.514
59.00	718.6	505.1	119.30	2.5254	0.516
60.00	720.4	506.9	119.30	2.5000	0.519
61.00	722.0	508.5	119.30	2.4754	0.521
62.00	723.9	510.4	119.30	2.4516	0.524
63.00	725.6	512.1	119.30	2.4286	0.527
64.00	727.3	513.8	119.30	2.4062	0.529
65.00	728.9	515.4	119.30	2.3846	0.531
66.00	730.6	517.1	119.30	2.3636	0.534
67.00	732.3	518.8	119.30	2.3433	0.536
68.00	733.9	520.4	119.30	2.3235	0.539
69.00	735.6	522.1	119.48	2.3043	0.541
70.00	737.2	523.7	119.48	2.2857	0.543
71.00	738.6	525.1	119.48	2.2676	0.546
72.00	740.2	526.7	119.48	2.2500	0.548
73.00	741.8	528.3	119.48	2.2329	0.550
74.00	743.4	529.9	119.48	2.2162	0.553
75.00	745.0	531.5	119.48	2.2000	0.555
76.00	746.6	533.1	119.48	2.1842	0.557
77.00	748.0	534.5	119.48	2.1688	0.560
78.00	749.4	535.9	119.48	2.1538	0.562
79.00	748.9	535.4	119.48	2.1392	0.561
80.00	751.8	538.3	119.48	2.1250	0.565
81.00	753.8	540.3	119.48	2.1111	0.568
82.00	755.8	542.3	119.48	2.0976	0.571
83.00	757.4	543.9	119.48	2.0843	0.574
84.00	759.0	545.5	119.48	2.0714	0.576
85.00	760.5	547.0	119.48	2.0588	0.578
86.00	762.0	548.5	119.48	2.0465	0.581
87.00	763.4	549.9	119.48	2.0345	0.583
88.00	764.8	551.3	119.48	2.0227	0.585
89.00	766.3	552.8	119.48	2.0112	0.587
90.00	767.7	554.2	119.66	2.0000	0.589
91.00	769.1	555.6	119.66	1.9890	0.592
92.00	770.6	557.1	119.66	1.9783	0.594
93.00	772.0	558.5	119.66	1.9677	0.596
94.00	773.4	559.9	119.66	1.9574	0.598
95.00	774.9	561.4	119.66	1.9474	0.600
96.00	776.2	562.7	119.66	1.9375	0.603
97.00	777.7	564.2	119.66	1.9278	0.605
98.00	778.9	565.4	119.66	1.9184	0.607
99.00	780.4	566.8	119.66	1.9091	0.609
100.00	781.7	568.2	119.66	1.9000	0.611

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

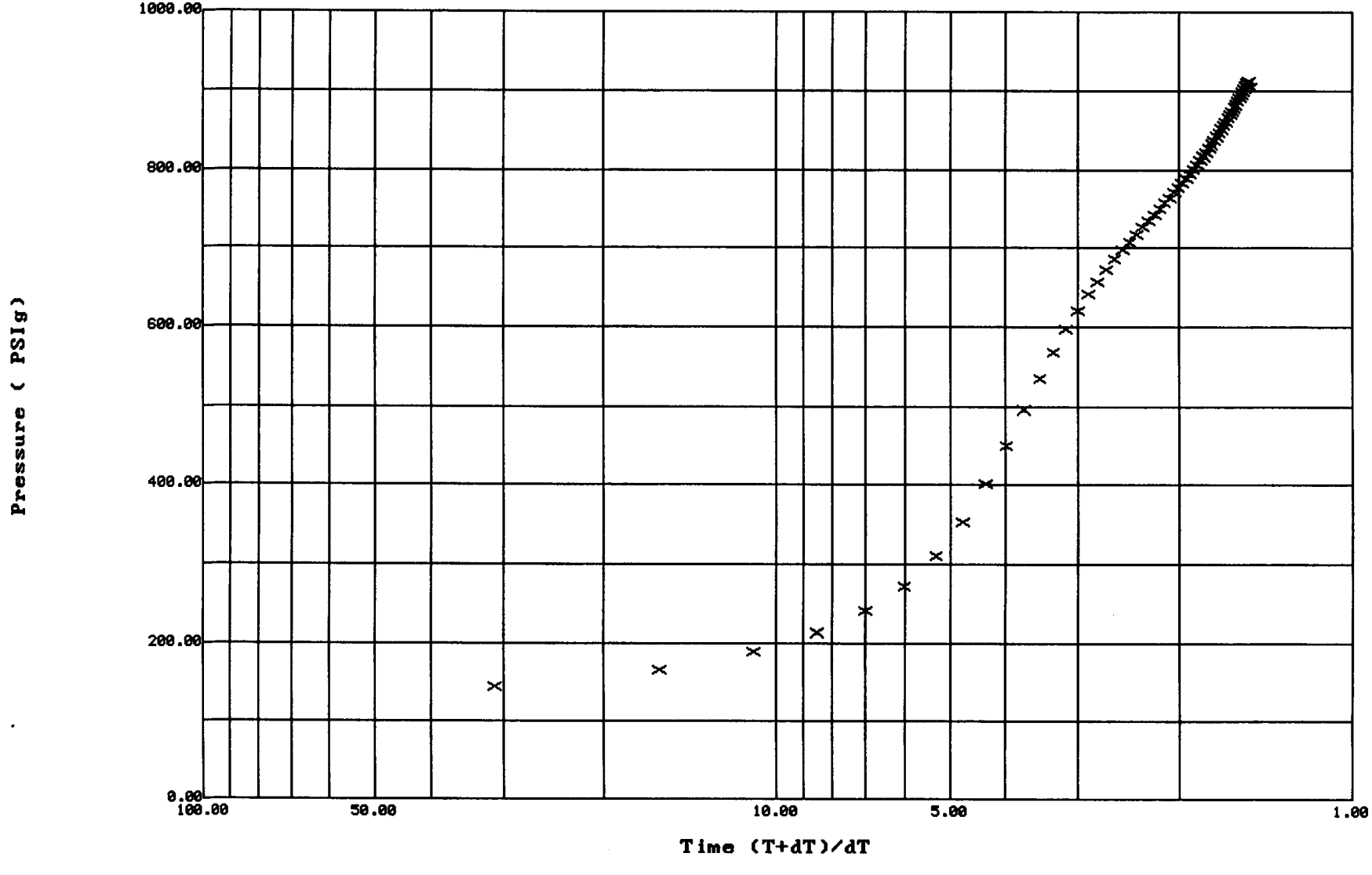
TEST: 8493 DST #3 Reeves B-1 Helmerich & Payne

DATE: 12/02/95 TIME: 09:30:42

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	101.00	783.0	569.5	119.66	1.8911	0.613
	102.00	784.6	571.1	119.66	1.8824	0.616
	103.00	785.8	572.3	119.66	1.8738	0.617
	104.00	787.2	573.6	119.66	1.8654	0.620
	105.00	788.6	575.1	119.84	1.8571	0.622
	106.00	790.1	576.6	119.84	1.8491	0.624
	107.00	791.4	577.9	119.84	1.8411	0.626
	108.00	792.8	579.3	119.84	1.8333	0.628
	109.00	793.9	580.4	119.84	1.8257	0.630
	110.00	795.4	581.9	119.84	1.8182	0.633
	111.00	796.6	583.0	119.84	1.8108	0.634
	112.00	797.8	584.3	119.84	1.8036	0.636
	113.00	799.2	585.7	119.84	1.7965	0.639
	114.00	800.6	587.1	119.84	1.7895	0.641
	115.00	802.0	588.5	119.84	1.7826	0.643
	116.00	803.3	589.8	119.84	1.7759	0.645
	117.00	804.5	591.0	119.84	1.7692	0.647
	118.00	805.9	592.4	119.84	1.7627	0.649
***** End Shut-in 2	119.00	807.2	593.7	120.02	1.7563	0.652
***** Final Hydro.	428.00	2308.6	0.0	120.38		

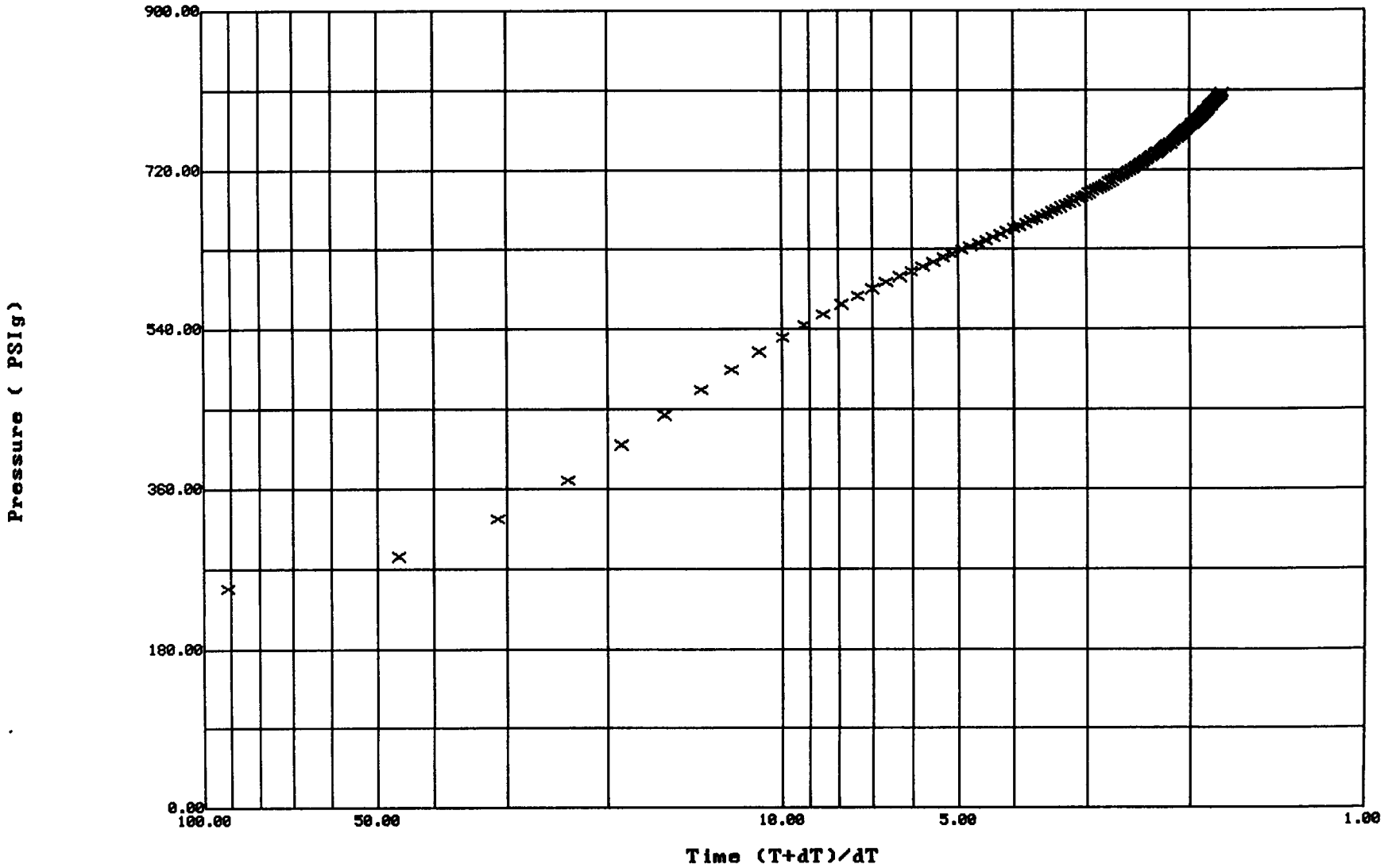
Horner Plot: shut-in #1

8493 DST #3 Reeves B-1 Helmerich & Payne



Horner Plot: shut-in #2

8493 DST #3 Reeves B-1 Helmerich & Payne



*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Reeves B-1

LOCATION : 30-25S-34W, Finney Cty KS

TICKET No. 8493 D.S.T. No. 3 DATE 12-2-95

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 23

TOTAL TOOL 53

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single 1 Total 91

TOTAL ASSEMBLY 144

D.C. ABOVE TOOLS.Stands9 Single Total 540

D.P. ABOVE TOOLS.Stands70 Single 1 Total 4332

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5016

TOTAL DEPTH 5000

TOTAL DRILL PIPE ABOVE K.B. 16

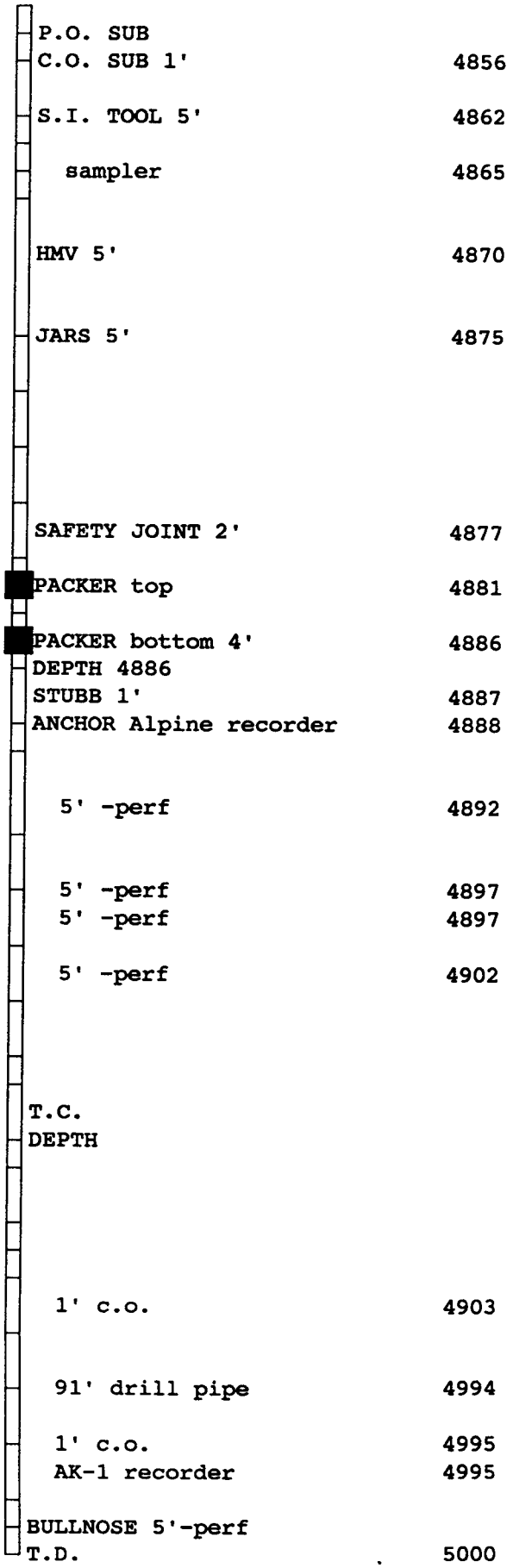
REMARKS:

FLUID SAMPLER DATA

SAMPLER RECOVERY -
Gas 14.5 cu ft, Oil 2800 ml, Mud 200 ml,
Pressure 530 PSI, Total 4000 ml

PIT MUD ANALYSIS -
Chlorides 2200 ppm; Resist 2.5 ohms @ 70 F;
Viscosity 50, Mud Wt 9.1, Filtrate 8

PIPE RECOVERY -
Top -
Resistivity 2.46 ohms @ 62 F;
Chlorides 2350 ppm



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 8493

Well Name & No. Reeves B-1 Test No. 3 Date 12-2-95

Company Helmerich & Payne Zone Tested Morrow

Address P.O. Box 558 Garden City KS 67846 Elevation 3003 KB 2993 GL

Co. Rep / Geo. Brad Rine Cont. Cheyenne #2 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 30 Twp. 25S Rge. 34W Co. Finney State KS

No. of Copies Norm Distribution Sheet (Y, N) ___ Turnkey (Y, N) ___ Evaluation (Y, N) ___

Interval Tested 4881'-4886' — 5000'

Anchor Length 119'

Top Packer Depth 4881'

Bottom Packer Depth 4886'

Total Depth 5000'

Mud Wt. 9.1 LCM 1 Vis. 50 WL 8.0

Blow Description B.O.B in 7 min. (fair Blow)
I.S.I; Bleed off Blow — No return
F.F; B.O.B in 7 min (fair Blow)
F.S.I; Bleed Blow — return Blow in 6 min (weak surface Boilt to a weak 1/2" in.

Initial Str Wt./Lbs. 98,000 Unseated Str Wt./Lbs. 101,000

Wt. Set Lbs. 26,000 Wt. Pulled Loose/Lbs. 130,000

Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓

Wt. Pipe I.D. — 2.7 Ft. Run —

Drill Collar — 2.25 Ft. Run 540'

Drill Pipe Size 4 1/2 X H Ft. Run 4332' (4332)

Recovery — Total Feet 510 Ft. in DC 510 Ft. in WP — Ft. in DP —

Rec. 200'	Feet Of mud cut GASSY oil	50 %gas	40 %oil	%water	10 %mud
Rec. 200'	Feet Of GASSY oil cut mud	40 %gas	30 %oil	%water	30 %mud
Rec. 110'	Feet Of oil cut muddy GAS	10 %gas	20 %oil	%water	70 %mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec. 60'	Feet Of GAS in Pipe	%gas	%oil	%water	%mud

BHT 121° °F Gravity ___ °API D@ ___ °F Corrected Gravity ___ °API

RW 2.46 @ 62 °F Chlorides 2350 ppm Recovery Chlorides 2,200 ppm System

	Elec.	Rec't			
(A) Initial Hydrostatic Mud	2330	2345	PSI	Recorder No. 2351	T-Started 9:30 am
(B) First Initial Flow Pressure	51	122	PSI	@ (depth) 4888'	T-Open 12:03 pm
(C) First Final Flow Pressure	131	166	PSI	Recorder No. 11058	T-Pulled 16:33 pm
(D) Initial Shut-in Pressure	904	929	PSI	@ (depth) 4995'	T-Out
(E) Second Initial Flow Pressure	142	211	PSI	Recorder No.	
(F) Second Final Flow Pressure	213	238	PSI	@ (depth)	
(G) Final Shut-in Pressure	807	822	PSI	Initial Opening 30	Test X 600
(H) Final Hydrostatic Mud	2308	2334	PSI	Initial Shut-in 60	Jars X 200
				Final Flow 60	Safety Joint X 50
				Final Shut-in 120 (60' E.I.P)	Straddle ___
					Circ. Sub X N/C
					Sampler X 200
					Extra Packer ___
					Elect. Rec X 150
					Other ___
					TOTAL PRICE $ 1200

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Arthur E. Chilson

Our Representative [signature]

5 Copies

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 8493 Date 12-2-95

Company Name Helmerich & Payne

Lease Reeves B-1 Test No. 3

County Finney, Ks Sec. 30 Twp. 25s Rng. 34w

SAMPLER RECOVERY

Gas 14.5 Cubic Ft. (1,000 ML)

Oil 2,800 ML

Mud 200 ML

Water ____ ML

Other ____ ML

Pressure 530 165 PSI

Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 2,200 ppm.

Resistivity 2.5 ohms @ 70 F

Viscosity 50

Mud Weight 9.1

Filtrate 8.0

Other ____

SAMPLER ANALYSIS

Resistivity ____ ohms @ ____ F

Chlorides ____ ppm.

Gravity ____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity 2.46 ohms @ 62 F

Chlorides 2,350 ppm.

MIDDLE
Resistivity ____ ohms @ ____ F

Chlorides ____ ppm.

BOTTOM
Resistivity ____ ohms @ ____ F

Chlorides ____ ppm.

TRILOBITE TESTING L.L.C.

OPERATOR : Helmerich & Payne DATE 12-3-95
WELL NAME: Reeves B-1 KB 3003.00 ft TICKET NO: 8494 DST #4
LOCATION : 30-25S-34W, Finney Cty KS GR 2993.00 ft FORMATION: Morrow
INTERVAL : 4881.00 To 5015.00 ft TD 5015.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	11058	11058	2351		
SI 90	Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0
SF 60	Clock(hrs)	AK-1	AK-1	Alpin		
FS 120	Depth(ft)	5010.0	5010.0	4888.0	0.0	0.0

TIME DATA----------
PF Fr. 1210 to 1240 hr
IS Fr. 1240 to 1410 hr
SF Fr. 1410 to 1510 hr
FS Fr. 1510 to 1710 hr

	Field	1	2	3	4
A. Init Hydro	2446.0	2388.0	2335.0	0.0	0.0
B. First Flow	138.0	139.0	52.0	0.0	0.0
B1. Final Flow	238.0	233.0	209.0	0.0	0.0
C. In Shut-in	1247.0	1230.0	1221.0	0.0	0.0
D. Init Flow	300.0	286.0	231.0	0.0	0.0
E. Final Flow	338.0	324.0	293.0	0.0	0.0
F. Fl Shut-in	1192.0	1178.0	1162.0	0.0	0.0
G. Final Hydro	2401.0	2321.0	2233.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 0915 hr
T ON BOTM 1205 hr
T OPEN 1210 hr
T PULLED 1710 hr
T OUT 1930 hr

RECOVERY
Tot Fluid 675.00 ft of 540.00 ft in DC and 135.00 ft in DP
30.00 ft of Gas in pipe
135.00 ft of Oil cut gassy mud - 10% gas, 40% oil, 50% mud
140.00 ft of Gassy mud cut oil - 25% gas, 45% oil, 30% mud
400.00 ft of Slightly muddy gassy oil - 40% gas, 50% oil, 10% mud

RW 4.46 @ 75 F
SALINITY 1350.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA----------

Tool Wt.	6000.00 lbs
Wt Set On Packer	26000.00 lbs
Wt Pulled Loose	120000.00 lb
Initial Str Wt	100000.00 lb
Unseated Str Wt	100000.00 lb
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	540.00 ft
D.P. Length	4325.00 ft

MUD DATA----------

Mud Type	Chemical
Weight	9.00 lb/
Vis.	54.00 S/L
W.L.	7.20 in3
F.C.	0.00 in
Mud Drop Y	5.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	118.00 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	Shane McBride
Co. Rep.	Brad Rine
Contr.	Cheyenne
Rig #	2
Unit #	
Pump T.	

BLOW DESCRIPTION

Initial Flow -
Bottom of bucket in 11 min

Initial Shutin -
Bled blow, return blow in 25 min,
weak surface blow blew throughout

Final Flow -
Bottom of bucket in 9 min

Final Shutin -
Bled blow, return blow in 15 min,
built to a 1" blow

SAMPLES:
SENT TO:

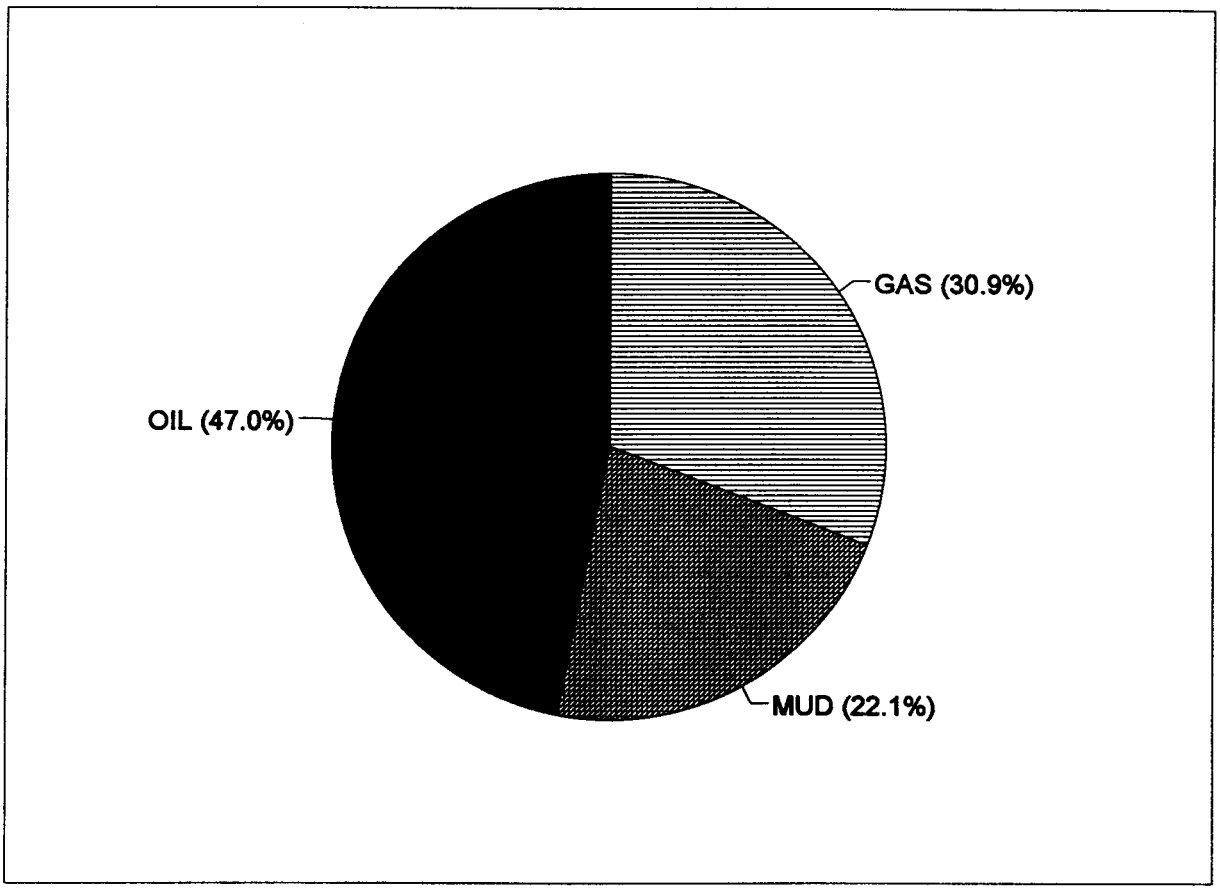
Test Successful: Y

CALCULATED RECOVERY ANALYSIS - DRILL COLLARS

DST # 4 TICKET # 8494

SAMPLE #	TOTAL FEET	GAS %	GAS FEET	OIL %	OIL FEET	WATER %	WATER FEET	MUD %	MUD FEET
1	135	10	13.5	40	54		0	50	67.5
2	140	25	35	45	63		0	30	42
3	400	40	160	50	200		0	10	40
4			0		0		0		0
5			0		0		0		0
TOTAL	675	30.89	208.5	46.96	317	0.00	0	22.14815	149.5

			HRS OPE	BBL/DAY
BBL OIL=	1.55013	*	1.50	24.80208
BBL WAT	0	*		0
BBL MUD=	0.731055			
BBL GAS=	1.019565			



TEST HISTORY

8494 DST #4 Reeves B-1 Helmerich & Payne

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2335.45
B:	0.00	52.36
C:	30.00	208.55
D:	90.00	1221.06
E:	0.00	231.04
F:	50.00	293.49
G:	119.00	1161.72
Q:	0.00	2233.39

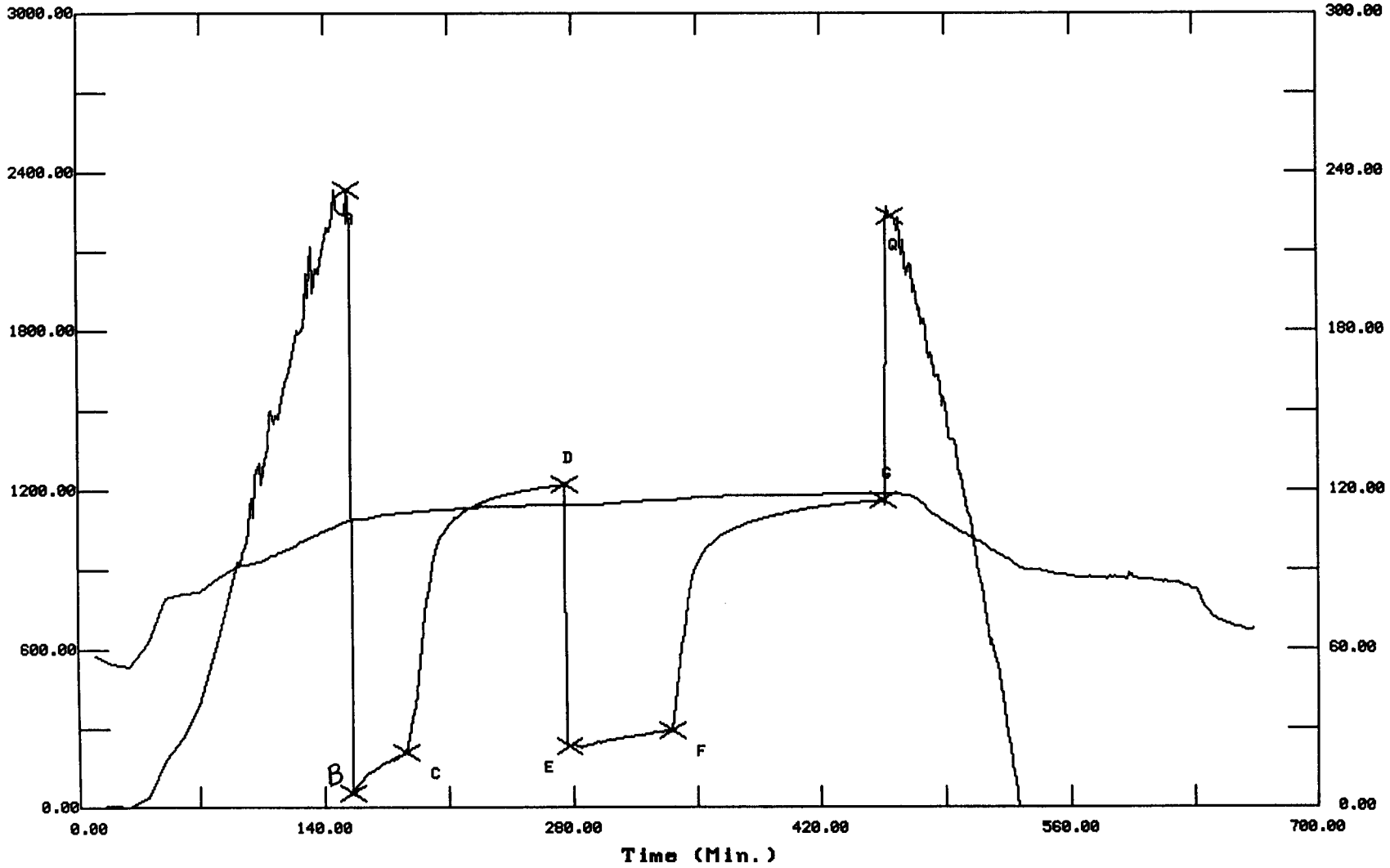
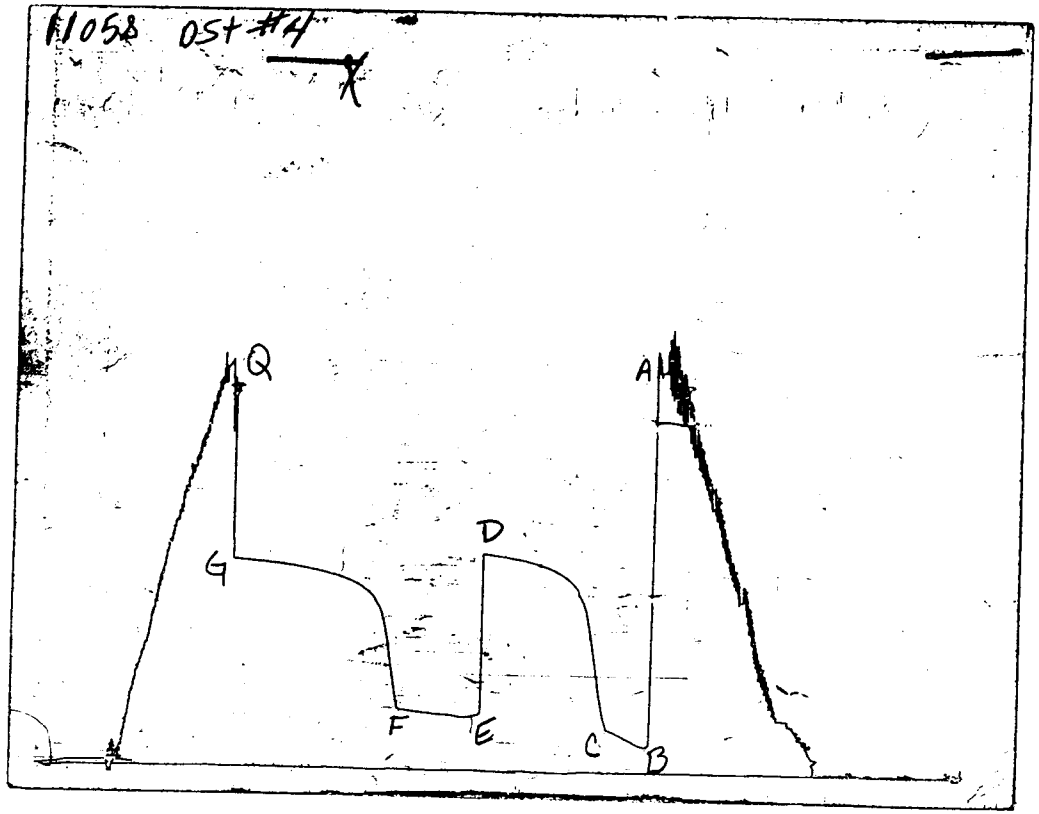


CHART PAGE



This is an actual photograph of recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8494 DST #4 Reeves B-1 Helmerich & Payne

DATE: 12/03/95 TIME: 09:36:29

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	153.00	2335.5	0.0	108.32		
****** Start Flow 1	0.00	52.4	0.0	108.68		
	1.00	63.3	10.9	108.86		
	2.00	75.3	22.9	108.86		
	3.00	86.5	34.2	108.86		
	4.00	94.1	41.7	108.86		
	5.00	101.7	49.3	109.04		
	6.00	110.2	57.8	109.04		
	7.00	115.9	63.5	109.22		
	8.00	122.0	69.7	109.22		
	9.00	127.4	75.0	109.40		
	10.00	132.5	80.2	109.58		
	11.00	137.0	84.6	109.76		
	12.00	141.4	89.0	109.94		
	13.00	145.6	93.2	110.12		
	14.00	150.0	97.6	110.30		
	15.00	154.6	102.2	110.48		
	16.00	158.9	106.5	110.48		
	17.00	163.0	110.6	110.66		
	18.00	166.8	114.4	110.84		
	19.00	170.7	118.3	110.84		
	20.00	174.6	122.3	111.02		
	21.00	178.8	126.4	111.02		
	22.00	181.8	129.4	111.20		
	23.00	185.9	133.5	111.20		
	24.00	188.7	136.4	111.20		
	25.00	192.5	140.2	111.38		
	26.00	195.4	143.0	111.38		
	27.00	198.6	146.3	111.38		
	28.00	201.9	149.6	111.38		
	29.00	204.9	152.5	111.56		
****** End Flow 1	30.00	208.6	156.2	111.56		
****** Start Shutin 1	0.00	208.6	0.0	111.56	0.0000	0.043
	1.00	239.4	30.9	111.56	31.0000	0.057
	2.00	270.5	61.9	111.74	16.0000	0.073
	3.00	304.4	95.8	111.74	11.0000	0.093
	4.00	342.8	134.3	111.74	8.5000	0.118
	5.00	386.6	178.1	111.92	7.0000	0.149
	6.00	436.5	227.9	111.92	6.0000	0.191
	7.00	493.4	284.9	112.10	5.2857	0.243
	8.00	555.1	346.5	112.10	4.7500	0.308
	9.00	617.0	408.5	112.10	4.3333	0.381
	10.00	674.8	466.2	112.10	4.0000	0.455
	11.00	729.7	521.1	112.28	3.7273	0.532
	12.00	783.6	575.1	112.28	3.5000	0.614
	13.00	833.3	624.8	112.28	3.3077	0.694
	14.00	877.3	668.7	112.46	3.1429	0.770
	15.00	914.0	705.5	112.46	3.0000	0.835
	16.00	944.4	735.9	112.46	2.8750	0.892
	17.00	969.7	761.1	112.46	2.7647	0.940
	18.00	989.0	780.4	112.64	2.6667	0.978

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8494 DST #4 Reeves B-1 Helmerich & Payne

DATE: 12/03/95 TIME: 09:36:29

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
19.00	1007.1	798.6	112.64	2.5789	1.014
20.00	1022.3	813.8	112.64	2.5000	1.045
21.00	1035.6	827.0	112.64	2.4286	1.072
22.00	1046.9	838.4	112.82	2.3636	1.096
23.00	1057.0	848.4	112.82	2.3043	1.117
24.00	1065.7	857.2	112.82	2.2500	1.136
25.00	1074.0	865.5	113.00	2.2000	1.154
26.00	1081.1	872.6	113.00	2.1538	1.169
27.00	1087.9	879.3	113.00	2.1111	1.183
28.00	1094.2	885.7	113.00	2.0714	1.197
29.00	1099.9	891.3	113.18	2.0345	1.210
30.00	1105.4	896.9	113.18	2.0000	1.222
31.00	1110.6	902.1	113.18	1.9677	1.233
32.00	1115.3	906.8	113.36	1.9375	1.244
33.00	1119.6	911.0	113.36	1.9091	1.253
34.00	1123.6	915.1	113.36	1.8824	1.263
35.00	1127.6	919.0	113.36	1.8571	1.271
36.00	1131.2	922.6	113.36	1.8333	1.280
37.00	1134.9	926.3	113.36	1.8108	1.288
38.00	1138.2	929.7	113.54	1.7895	1.296
39.00	1141.7	933.2	113.54	1.7692	1.304
40.00	1145.1	936.6	113.54	1.7500	1.311
41.00	1147.9	939.3	113.54	1.7317	1.318
42.00	1150.8	942.3	113.72	1.7143	1.324
43.00	1153.7	945.1	113.72	1.6977	1.331
44.00	1156.4	947.9	113.72	1.6818	1.337
45.00	1159.0	950.5	113.72	1.6667	1.343
46.00	1161.5	952.9	113.72	1.6522	1.349
47.00	1163.9	955.4	113.90	1.6383	1.355
48.00	1166.3	957.7	113.90	1.6250	1.360
49.00	1168.4	959.9	113.90	1.6122	1.365
50.00	1170.7	962.1	113.90	1.6000	1.371
51.00	1172.7	964.2	113.90	1.5882	1.375
52.00	1174.7	966.2	113.90	1.5769	1.380
53.00	1176.6	968.0	113.90	1.5660	1.384
54.00	1178.4	969.9	113.90	1.5556	1.389
55.00	1180.3	971.7	113.90	1.5455	1.393
56.00	1182.1	973.6	114.08	1.5357	1.397
57.00	1183.8	975.2	114.08	1.5263	1.401
58.00	1185.4	976.8	114.08	1.5172	1.405
59.00	1187.0	978.4	114.08	1.5085	1.409
60.00	1188.7	980.1	114.08	1.5000	1.413
61.00	1190.1	981.5	114.08	1.4918	1.416
62.00	1191.6	983.0	114.08	1.4839	1.420
63.00	1193.0	984.5	114.08	1.4762	1.423
64.00	1194.5	985.9	114.08	1.4688	1.427
65.00	1195.9	987.3	114.08	1.4615	1.430
66.00	1197.1	988.5	114.08	1.4545	1.433
67.00	1198.4	989.8	114.08	1.4478	1.436
68.00	1199.7	991.1	114.08	1.4412	1.439
69.00	1200.8	992.3	114.26	1.4348	1.442

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8494 DST #4 Reeves B-1 Helmerich & Payne

DATE: 12/03/95 TIME: 09:36:29

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	70.00	1202.0	993.5	114.26	1.4286	1.445
	71.00	1203.3	994.7	114.26	1.4225	1.448
	72.00	1204.4	995.9	114.26	1.4167	1.451
	73.00	1205.5	997.0	114.26	1.4110	1.453
	74.00	1206.5	998.0	114.26	1.4054	1.456
	75.00	1207.5	999.0	114.26	1.4000	1.458
	76.00	1208.6	1000.1	114.44	1.3947	1.461
	77.00	1209.6	1001.1	114.44	1.3896	1.463
	78.00	1210.6	1002.0	114.44	1.3846	1.465
	79.00	1211.6	1003.0	114.44	1.3797	1.468
	80.00	1212.6	1004.0	114.44	1.3750	1.470
	81.00	1213.4	1004.9	114.44	1.3704	1.472
	82.00	1214.4	1005.9	114.62	1.3659	1.475
	83.00	1215.3	1006.7	114.62	1.3614	1.477
	84.00	1216.2	1007.6	114.62	1.3571	1.479
	85.00	1217.1	1008.6	114.62	1.3529	1.481
	86.00	1217.9	1009.3	114.62	1.3488	1.483
	87.00	1218.6	1010.1	114.62	1.3448	1.485
	88.00	1219.5	1011.0	114.62	1.3409	1.487
	89.00	1220.2	1011.7	114.62	1.3371	1.489
****** End Shut-in 1	90.00	1221.1	1012.5	114.62	1.3333	1.491
****** Start Flow 2	0.00	231.0	0.0	114.62		
	1.00	232.8	1.8	114.62		
	2.00	239.3	8.2	114.44		
	3.00	236.8	5.7	114.44		
	4.00	231.8	0.8	114.26		
	5.00	231.7	0.7	114.26		
	6.00	230.9	-0.2	114.26		
	7.00	228.4	-2.6	114.26		
	8.00	230.5	-0.6	114.26		
	9.00	234.3	3.3	114.26		
	10.00	235.6	4.5	114.26		
	11.00	238.1	7.1	114.44		
	12.00	238.3	7.3	114.44		
	13.00	236.7	5.6	114.44		
	14.00	245.2	14.2	114.62		
	15.00	245.6	14.5	114.62		
	16.00	248.2	17.1	114.62		
	17.00	246.7	15.6	114.80		
	18.00	247.9	16.9	114.80		
	19.00	249.7	18.6	114.80		
	20.00	252.0	21.0	114.98		
	21.00	253.5	22.5	114.98		
	22.00	254.9	23.8	114.98		
	23.00	255.7	24.7	114.98		
	24.00	257.5	26.4	115.16		
	25.00	258.8	27.8	115.16		
	26.00	260.2	29.1	115.16		
	27.00	261.6	30.5	115.34		
	28.00	262.3	31.2	115.34		
	29.00	263.3	32.2	115.34		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8494 DST #4 Reeves B-1 Helmerich & Payne

DATE: 12/03/95 TIME: 09:36:29

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	30.00	264.4	33.3	115.52		
	31.00	266.0	35.0	115.52		
	32.00	267.1	36.1	115.52		
	33.00	268.4	37.3	115.52		
	34.00	269.0	37.9	115.70		
	35.00	270.2	39.2	115.70		
	36.00	270.6	39.5	115.70		
	37.00	271.7	40.6	115.70		
	38.00	272.6	41.5	115.88		
	39.00	274.3	43.2	115.88		
	40.00	275.0	44.0	115.88		
	41.00	276.1	45.1	115.88		
	42.00	275.9	44.9	116.06		
	43.00	277.5	46.4	116.06		
	44.00	278.5	47.4	116.06		
	45.00	279.8	48.8	116.06		
	46.00	281.1	50.0	116.06		
	47.00	282.3	51.3	116.24		
	48.00	283.6	52.5	116.24		
	49.00	284.1	53.0	116.24		
	50.00	285.5	54.5	116.24		
	51.00	286.2	55.1	116.24		
	52.00	287.2	56.1	116.24		
	53.00	288.3	57.2	116.42		
	54.00	289.2	58.2	116.42		
	55.00	290.5	59.4	116.42		
	56.00	291.5	60.4	116.42		
	57.00	292.4	61.4	116.42		
****** End Flow 2	58.00	293.5	62.4	116.60		
****** Start Shutin 2	0.00	293.5	0.0	116.60	0.0000	0.086
	1.00	345.3	51.8	116.60	89.0000	0.119
	2.00	394.7	101.2	116.60	45.0000	0.156
	3.00	446.2	152.7	116.60	30.3333	0.199
	4.00	501.2	207.7	116.78	23.0000	0.251
	5.00	556.8	263.3	116.78	18.6000	0.310
	6.00	609.9	316.4	116.78	15.6667	0.372
	7.00	666.3	372.8	116.96	13.5714	0.444
	8.00	721.2	427.7	116.96	12.0000	0.520
	9.00	770.4	476.9	117.14	10.7778	0.593
	10.00	811.9	518.4	117.14	9.8000	0.659
	11.00	846.2	552.7	117.14	9.0000	0.716
	12.00	874.3	580.8	117.32	8.3333	0.764
	13.00	897.3	603.8	117.32	7.7692	0.805
	14.00	916.2	622.7	117.32	7.2857	0.839
	15.00	932.1	638.6	117.32	6.8667	0.869
	16.00	945.5	652.0	117.50	6.5000	0.894
	17.00	956.9	663.4	117.50	6.1765	0.916
	18.00	966.9	673.4	117.50	5.8889	0.935
	19.00	975.9	682.4	117.50	5.6316	0.952
	20.00	983.9	690.4	117.50	5.4000	0.968
	21.00	991.1	697.6	117.68	5.1905	0.982

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8494 DST #4 Reeves B-1 Helmerich & Payne

DATE: 12/03/95 TIME: 09:36:29

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
22.00	997.7	704.2	117.68	5.0000	0.995
23.00	1003.9	710.4	117.68	4.8261	1.008
24.00	1009.5	716.0	117.68	4.6667	1.019
25.00	1014.8	721.4	117.68	4.5200	1.030
26.00	1019.8	726.3	117.68	4.3846	1.040
27.00	1024.6	731.1	117.68	4.2593	1.050
28.00	1029.1	735.6	117.68	4.1429	1.059
29.00	1033.3	739.8	117.68	4.0345	1.068
30.00	1037.3	743.8	117.86	3.9333	1.076
31.00	1041.2	747.7	117.86	3.8387	1.084
32.00	1044.8	751.3	117.86	3.7500	1.092
33.00	1048.3	754.8	117.86	3.6667	1.099
34.00	1051.7	758.2	117.86	3.5882	1.106
35.00	1055.0	761.5	117.86	3.5143	1.113
36.00	1058.0	764.5	117.86	3.4444	1.119
37.00	1061.0	767.5	117.86	3.3784	1.126
38.00	1063.8	770.3	117.86	3.3158	1.132
39.00	1066.6	773.1	117.86	3.2564	1.138
40.00	1069.3	775.8	117.86	3.2000	1.143
41.00	1071.9	778.4	117.86	3.1463	1.149
42.00	1074.4	780.9	117.86	3.0952	1.154
43.00	1076.8	783.3	117.86	3.0465	1.159
44.00	1079.1	785.6	118.04	3.0000	1.165
45.00	1081.4	787.9	118.04	2.9556	1.169
46.00	1083.7	790.2	118.04	2.9130	1.174
47.00	1085.7	792.2	118.04	2.8723	1.179
48.00	1087.8	794.3	117.86	2.8333	1.183
49.00	1089.9	796.4	118.04	2.7959	1.188
50.00	1091.9	798.4	118.04	2.7600	1.192
51.00	1093.7	800.3	118.04	2.7255	1.196
52.00	1095.7	802.2	118.04	2.6923	1.200
53.00	1097.4	803.9	118.04	2.6604	1.204
54.00	1099.3	805.8	118.04	2.6296	1.208
55.00	1101.0	807.5	118.04	2.6000	1.212
56.00	1102.6	809.1	118.04	2.5714	1.216
57.00	1104.1	810.7	118.04	2.5439	1.219
58.00	1105.7	812.3	118.04	2.5172	1.223
59.00	1107.3	813.8	118.04	2.4915	1.226
60.00	1108.8	815.3	118.04	2.4667	1.229
61.00	1110.2	816.7	118.04	2.4426	1.233
62.00	1111.8	818.3	118.04	2.4194	1.236
63.00	1113.2	819.7	118.22	2.3968	1.239
64.00	1114.6	821.1	118.22	2.3750	1.242
65.00	1115.9	822.4	118.22	2.3538	1.245
66.00	1117.2	823.8	118.22	2.3333	1.248
67.00	1118.5	825.0	118.22	2.3134	1.251
68.00	1119.8	826.3	118.22	2.2941	1.254
69.00	1121.0	827.5	118.22	2.2754	1.257
70.00	1122.3	828.8	118.22	2.2571	1.259
71.00	1123.4	830.0	118.22	2.2394	1.262
72.00	1124.6	831.1	118.40	2.2222	1.265

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8494 DST #4 Reeves B-1 Helmerich & Payne

DATE: 12/03/95 TIME: 09:36:29

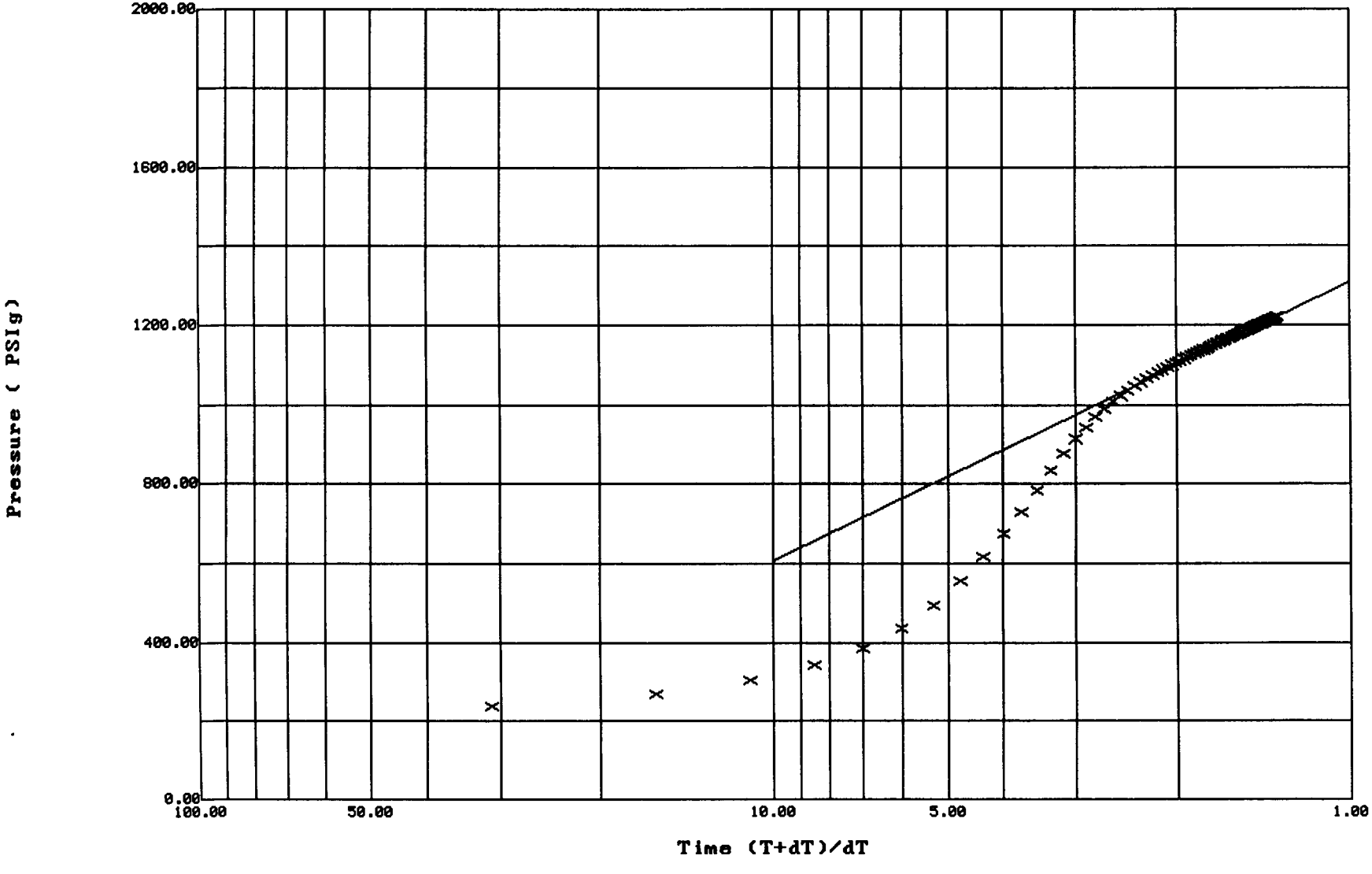
	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	73.00	1125.7	832.2	118.40	2.2055	1.267
	74.00	1127.0	833.5	118.40	2.1892	1.270
	75.00	1128.0	834.5	118.40	2.1733	1.272
	76.00	1129.2	835.7	118.40	2.1579	1.275
	77.00	1130.2	836.7	118.40	2.1429	1.277
	78.00	1131.3	837.8	118.40	2.1282	1.280
	79.00	1132.3	838.8	118.40	2.1139	1.282
	80.00	1133.3	839.8	118.40	2.1000	1.284
	81.00	1134.2	840.7	118.40	2.0864	1.286
	82.00	1135.2	841.7	118.40	2.0732	1.289
	83.00	1136.1	842.6	118.40	2.0602	1.291
	84.00	1137.1	843.6	118.40	2.0476	1.293
	85.00	1138.1	844.6	118.40	2.0353	1.295
	86.00	1138.9	845.4	118.58	2.0233	1.297
	87.00	1139.7	846.2	118.58	2.0115	1.299
	88.00	1140.7	847.2	118.58	2.0000	1.301
	89.00	1141.4	847.9	118.58	1.9888	1.303
	90.00	1142.2	848.8	118.58	1.9778	1.305
	91.00	1143.1	849.6	118.58	1.9670	1.307
	92.00	1143.9	850.4	118.58	1.9565	1.309
	93.00	1144.7	851.2	118.58	1.9462	1.310
	94.00	1145.4	852.0	118.58	1.9362	1.312
	95.00	1146.2	852.7	118.58	1.9263	1.314
	96.00	1147.0	853.5	118.58	1.9167	1.316
	97.00	1147.7	854.2	118.58	1.9072	1.317
	98.00	1148.5	855.1	118.58	1.8980	1.319
	99.00	1149.3	855.8	118.58	1.8889	1.321
	100.00	1149.9	856.4	118.58	1.8800	1.322
	101.00	1150.7	857.2	118.58	1.8713	1.324
	102.00	1151.4	857.9	118.58	1.8627	1.326
	103.00	1152.1	858.6	118.58	1.8544	1.327
	104.00	1152.7	859.3	118.58	1.8462	1.329
	105.00	1153.4	859.9	118.58	1.8381	1.330
	106.00	1154.0	860.5	118.58	1.8302	1.332
	107.00	1154.7	861.2	118.58	1.8224	1.333
	108.00	1155.3	861.9	118.58	1.8148	1.335
	109.00	1155.9	862.4	118.58	1.8073	1.336
	110.00	1156.6	863.1	118.58	1.8000	1.338
	111.00	1157.2	863.7	118.58	1.7928	1.339
	112.00	1157.8	864.3	118.58	1.7857	1.340
	113.00	1158.4	864.9	118.76	1.7788	1.342
	114.00	1159.0	865.5	118.76	1.7719	1.343
	115.00	1159.5	866.1	118.76	1.7652	1.345
	116.00	1160.1	866.6	118.76	1.7586	1.346
	117.00	1160.7	867.2	118.76	1.7521	1.347
	118.00	1161.1	867.6	118.76	1.7458	1.348
****** End Shut-in 2	119.00	1161.7	868.2	118.76	1.7395	1.350
****** Final Hydro.	460.00	2233.4	0.0	118.76		

Horner Plot: shut-in #1

8494 DST #4 Reeves B-1 Helmerich & Payne

Slope: 702.4713 PSIg/cycle

Ext. Pressure: 1308.8314 PSIg

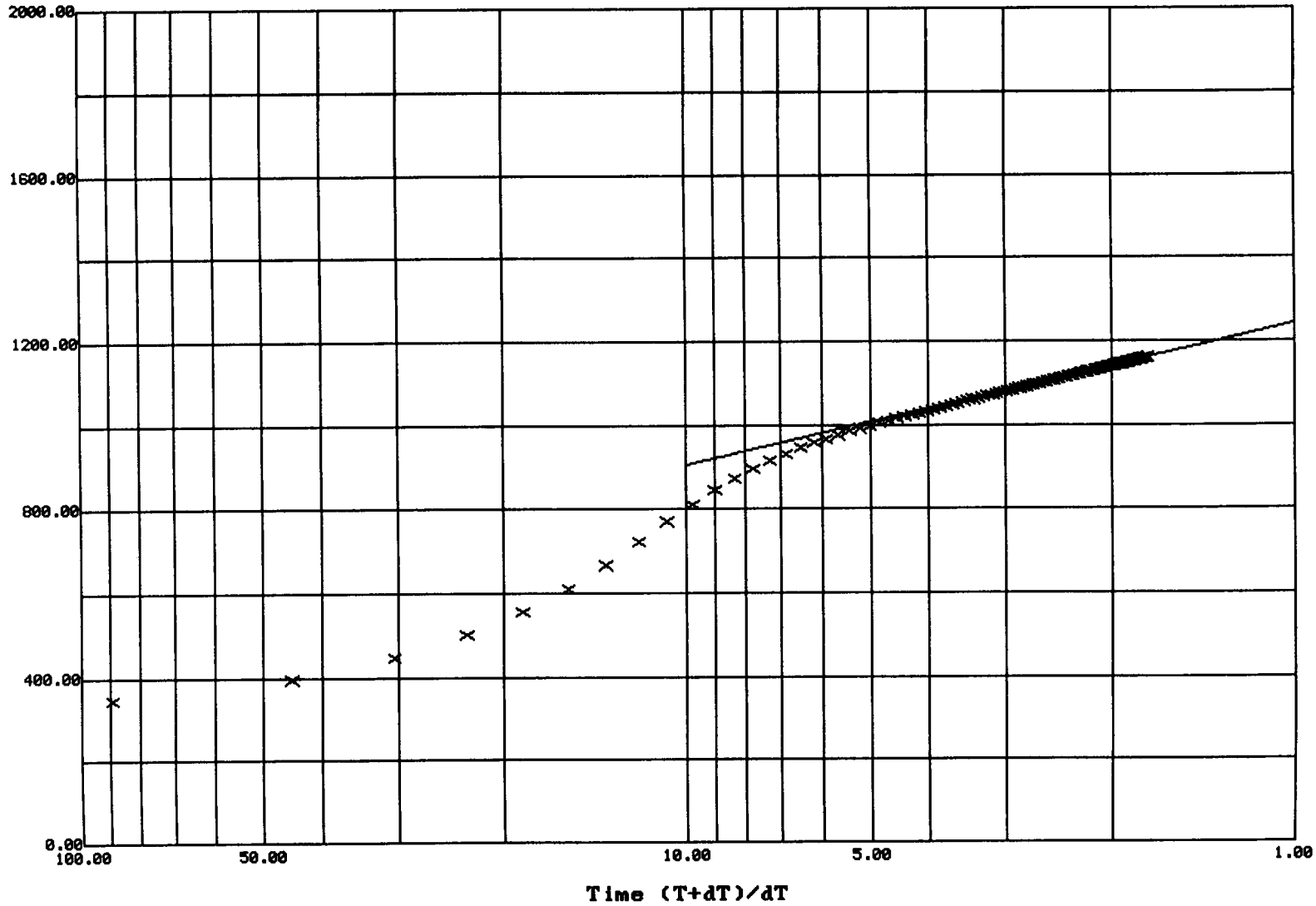


Horner Plot: shut-in #2

8494 DST #4 Reeves B-1 Helmerich & Payne

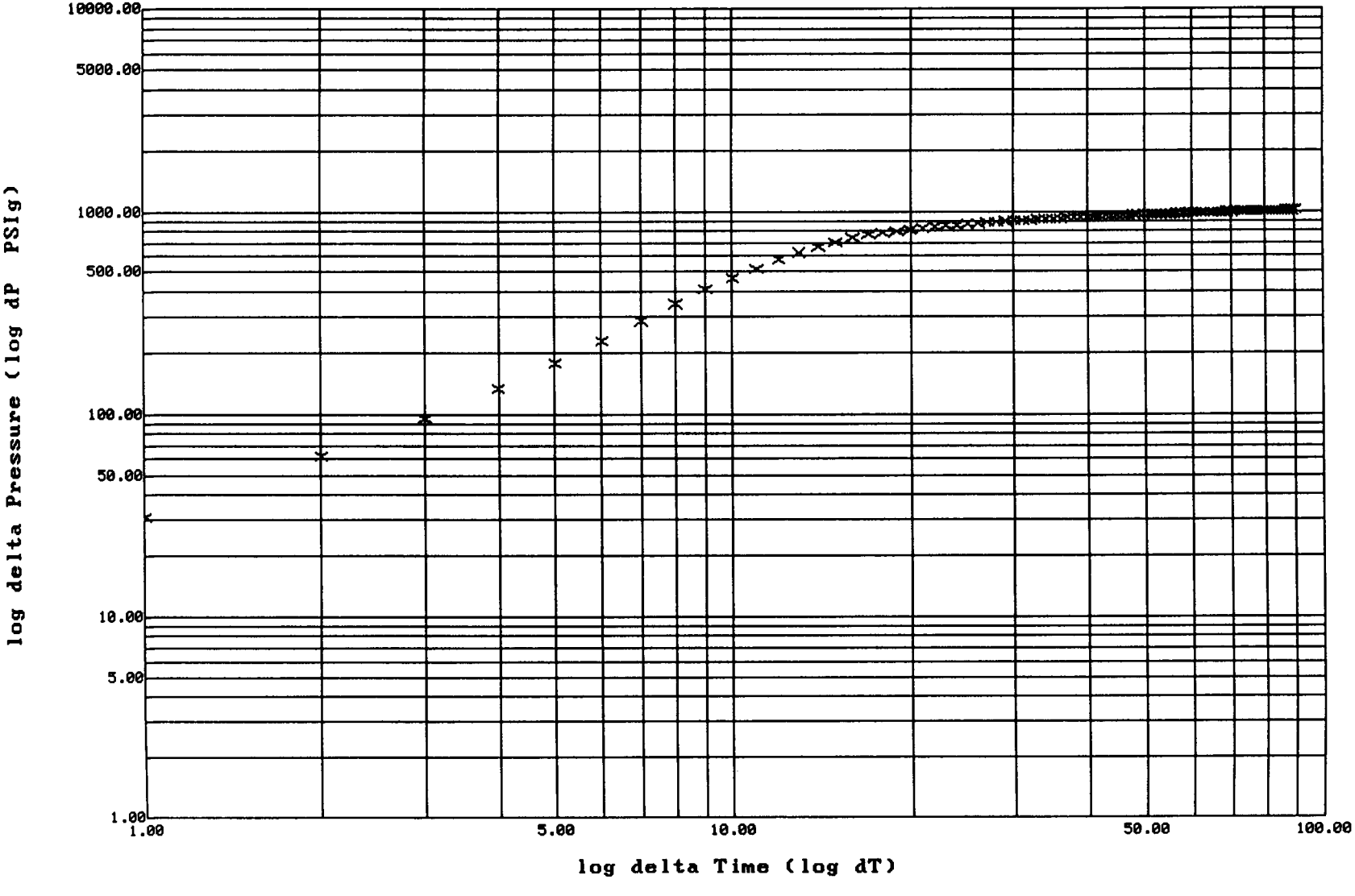
Slope: 338.8835 PSIg/cycle

Ext. Pressure: 1243.1946 PSIg



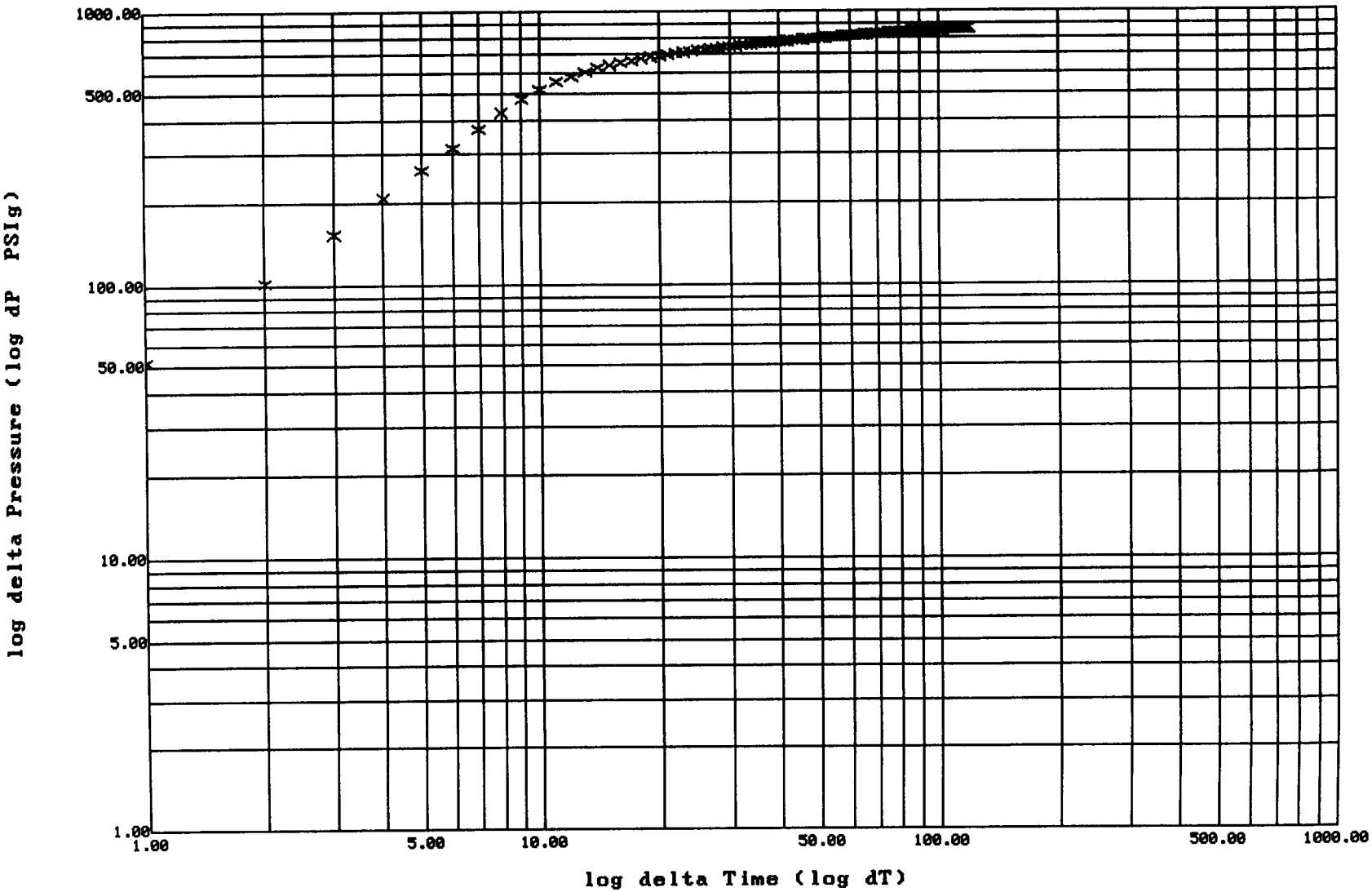
Ramey Plot: shut-in #1

8494 DST #4 Reeves B-1 Helmerich & Payne



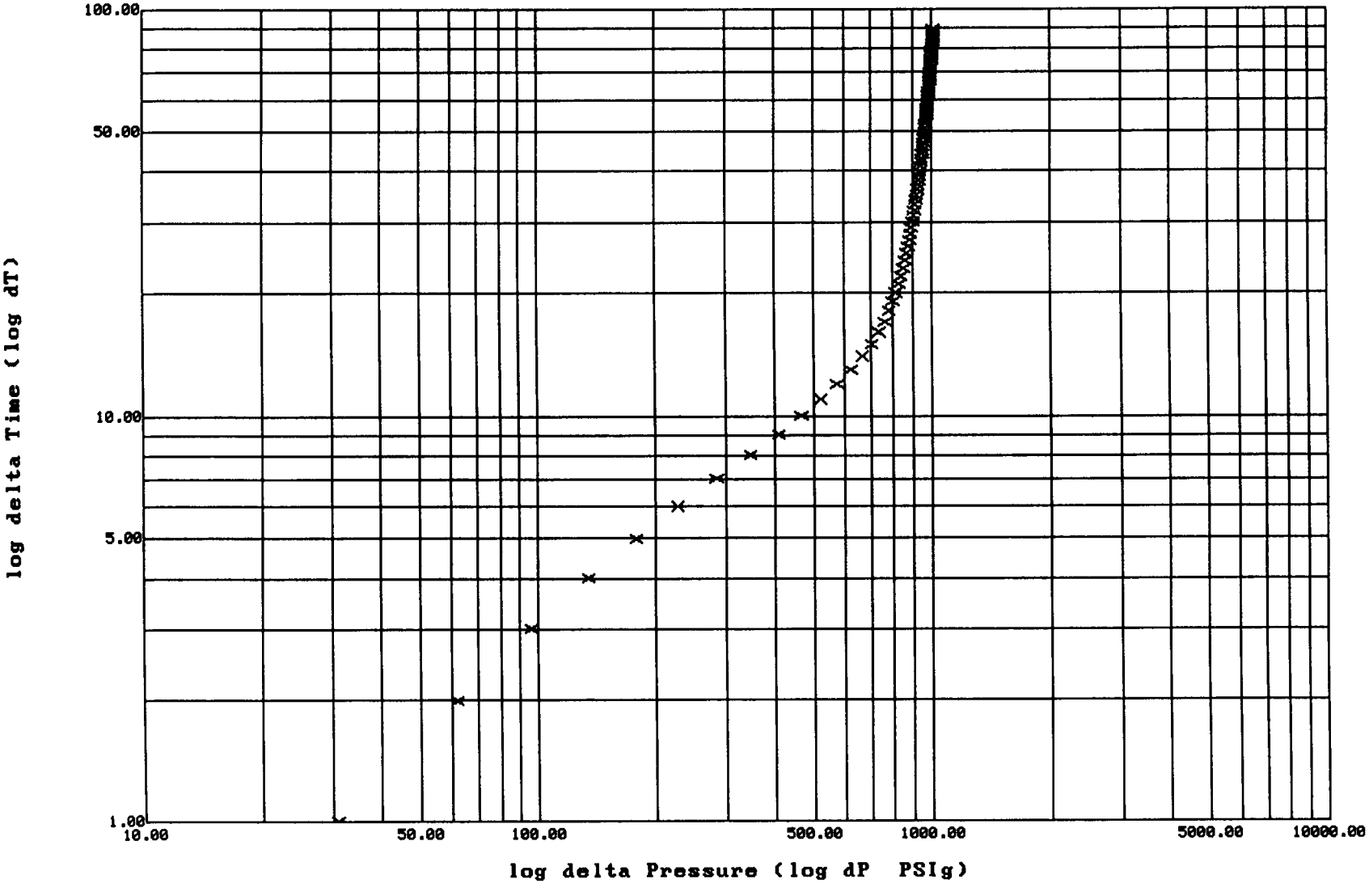
Ramey Plot: shut-in #2

8494 DST #4 Reeves B-1 Helmerich & Payne



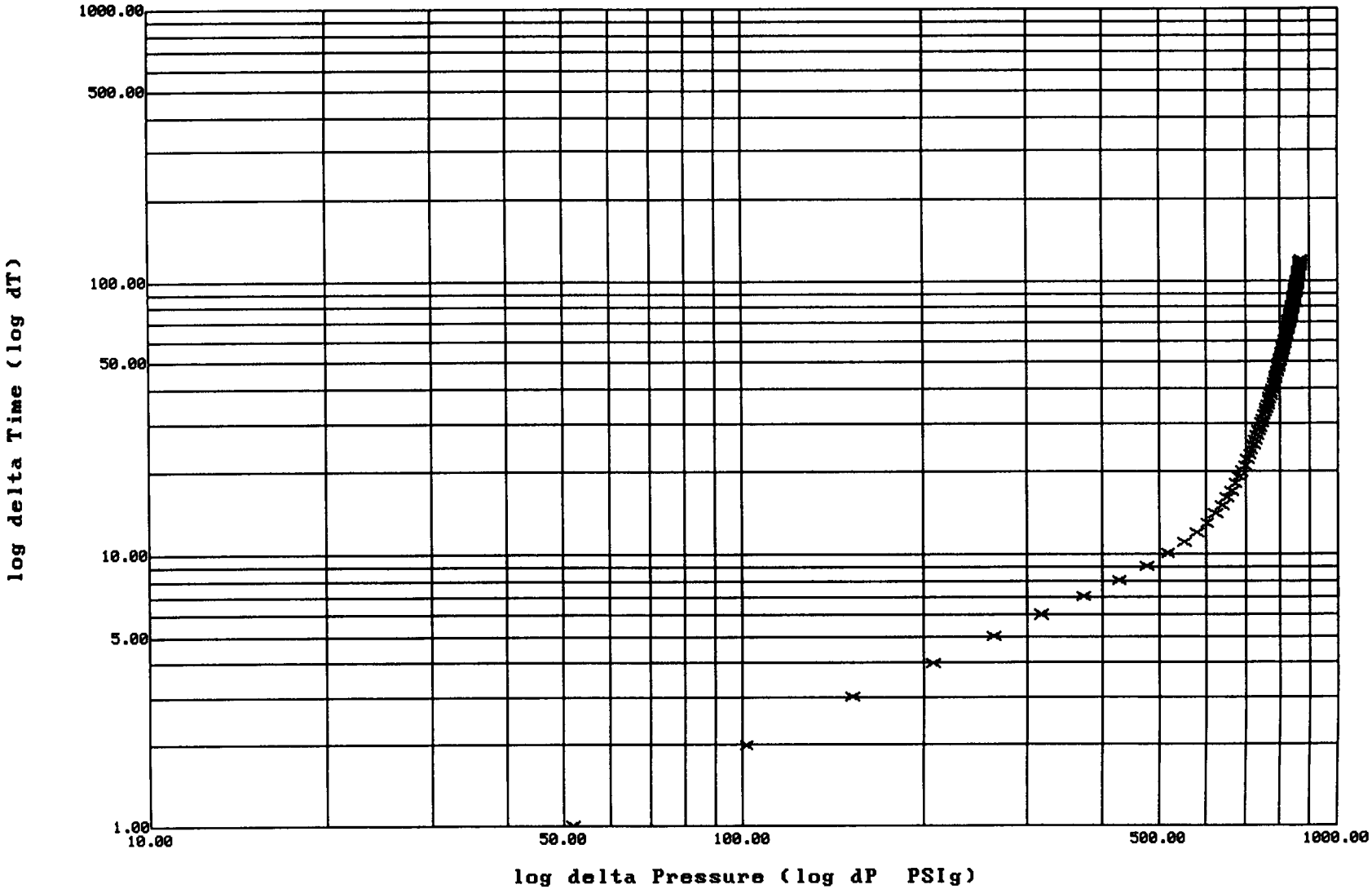
McKinley Plot: shut-in #1

8494 DST #4 Reeves B-1 Helmerich & Payne



McKinley Plot: shut-in #2

8494 DST #4 Reeves B-1 Helmerich & Payne



*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Reeves B-1

LOCATION : 30-25S-34W, Finney Cty KS

TICKET No. 8494 D.S.T. No. 4 DATE 12-3-95

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 38

TOTAL TOOL 68

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single 1 Total 91

TOTAL ASSEMBLY 159

D.C. ABOVE TOOLS.Stands9 Single Total 540

D.P. ABOVE TOOLS.Stands70 Single 1 Total 4325

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5024

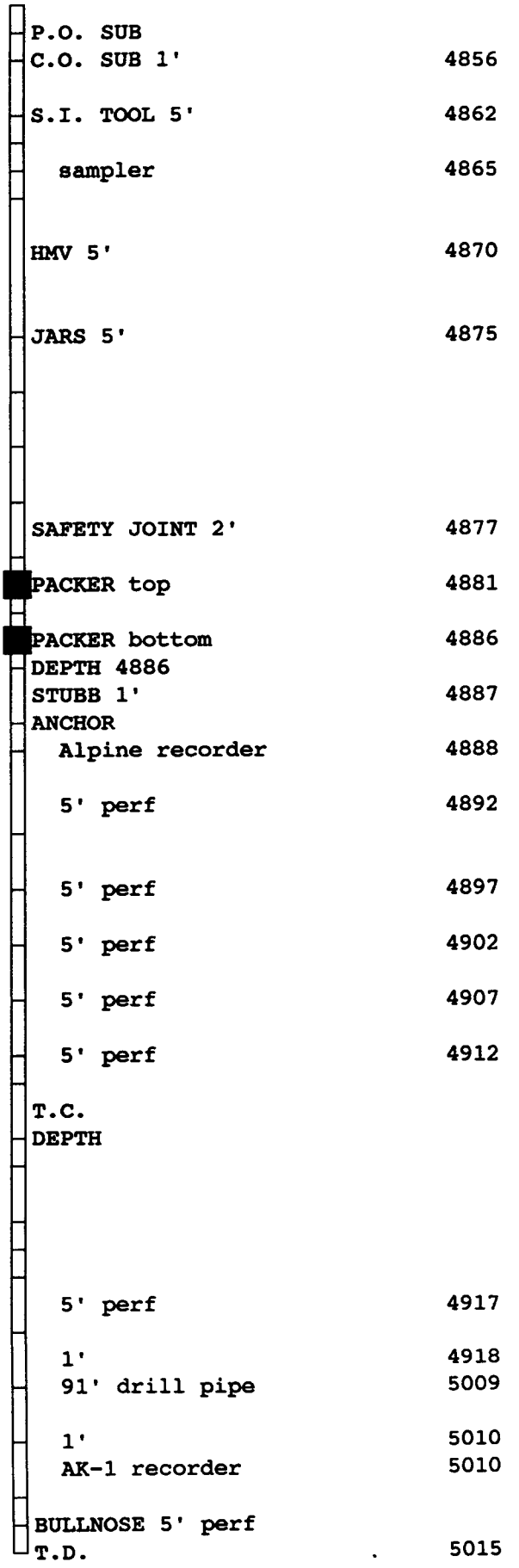
TOTAL DEPTH 5015

TOTAL DRILL PIPE ABOVE K.B. 9

REMARKS:

FLUID SAMPLER DATA

SAMPLER RECOVERY -
Gas 20 cu ft, Oil 2900 ml, Mud 100 ml,
Pressure 710 PSI, Total 4000 ml
SAMPLER ANALYSIS -
Resist 4.47 ohms @ 75 F; Chlorides 1350 ppm
PIT MUD ANALYSIS -
Chlorides 1200 ppm, Resist 4.3 ohms @ 75 F;
Vis 54, Mud Wt 9, Filtrate 7.2, LCM 1#
PIPE RECOVERY -
Top & Bottom -
Resistivity 4.46 ohms @ 75 F;
Chlorides 1350 ppm



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

№ 8494

Test Ticket

Well Name & No. Reeves B-1 Test No. 4 Date 12-3-95

Company Helmerich & Payne Zone Tested morrow

Address P.O. Box 558 Garden City, Ks 67846 Elevation 3003 KB 2993 GL

Co. Rep / Geo. Brad Rine Cont. Cheyenne #2 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 30 Twp. 25s Rge. 34w Co. Finney State Ks

No. of Copies Norm. Distribution Sheet (Y, N) ___ Turnkey (Y, N) ___ Evaluation (Y, N) ___

Interval Tested (4881'-4886') — 5015' Initial Str Wt./Lbs. 100,000 Unseated Str Wt./Lbs. 100,000

Anchor Length 134' Wt. Set Lbs. 26,000 Wt. Pulled Loose/Lbs. 120,000

Top Packer Depth 4881' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓

Bottom Packer Depth 4886' Wt. Pipe I.D. — 2.7 Ft. Run —

Total Depth 5015' Drill Collar — 2.25 Ft. Run 540'

Mud Wt. 9.0 LCM 1 Vis. 54 WL 7.2 Drill Pipe Size 4½ XH Ft. Run ___

Blow Description B.O.B in 11 min.

I.S.I: Bleed Blow - return in 25 min. weak surface blow throughout.

F.F: B.O.B in 9 min

F.S.I: Bleed Blow - return in 15 min. Built to a [redacted] 1" in Blow

Recovery — Total Feet 675' Ft. in DC 540' Ft. in WP — Ft. in DP 135'

Rec. 135'	Feet Of 0.1 Cut Gassy mud	10 ‰gas	40 ‰oil	‰water	50 ‰mud
Rec. 140'	Feet Of Gassy oil Cut mud	25 ‰gas	45 ‰oil	‰water	30 ‰mud
Rec. 400'	Feet Of Slitty muddy Gassy oil	40 ‰gas	50 ‰oil	‰water	10 ‰mud
Rec. ___	Feet Of ___	‰gas	‰oil	‰water	‰mud
Rec. 30'	Feet Of GAS in Pipe	‰gas	‰oil	‰water	‰mud

BHT 118° °F Gravity ___ °API D@ ___ °F Corrected Gravity ___ °API

RW 4.46 @ 75 °F Chlorides AR 1,350 ppm Recovery Chlorides 1,200 ppm System

(A) Initial Hydrostatic Mud	2335	2446 PSI	Recorder No.	2351'	T-Started	9:15 AM
(B) First Initial Flow Pressure	52	138 PSI	@ (depth)	4888'	T-Open	12:10 pm
(C) First Final Flow Pressure	208	238 PSI	Recorder No.	11058	T-Pulled	17:10 pm
(D) Initial Shut-in Pressure	1221	1247 PSI	@ (depth)	5010'	T-Out	19:30 pm
(E) Second Initial Flow Pressure	257	300 PSI	Recorder No.	___		
(F) Second Final Flow Pressure	293	338 PSI	@ (depth)	___		
(G) Final Shut-in Pressure	1143	1192 PSI	Initial Opening	30	Test X	600
(H) Final Hydrostatic Mud	2233	2401 PSI	Initial Shut-in	90	Jars X	200
			Final Flow	60	Safety Joint X	50
			Final Shut-in	120	Straddle	___
					Circ. Sub X	N/C
			30' G.I.P.		Sampler X	200
					Extra Packer	___
					Elect. Rec. X	150
					Other	___
					TOTAL PRICE $	1200

TRILOBIE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By [signature]

Our Representative [signature]

5 Copies

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 8494 Date 12-3-95

Company Name Helmerich & Payne

Lease Reeves B-1 Test No. 4

County Finney, KS Sec. 30 Twp. 25 Rng. 34

SAMPLER RECOVERY

Gas 20 Cub. Ft' 1,000 ML

Oil 2,900 ML

Mud 100 ML

Water ML

Other ML

Pressure 710 PSI

Total 4000 ML

PIT MUD ANALYSIS

Chlorides 1,200 ppm.

Resistivity 4.3 ohms @ 75 F

Viscosity 54

Mud Weight 9.0

Filtrate 7.2

Other LCM #1

SAMPLER ANALYSIS

Resistivity 4.46 ohms @ 75 F

Chlorides 1,350 ppm.

Gravity corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity 4.46 ohms @ 75 F

Chlorides 1,350 ppm.

MIDDLE
Resistivity ohms @ F

Chlorides ppm.

BOTTOM
Resistivity 4.46 ohms @ 75 F

Chlorides 1,350 ppm.

TRILOBITE TESTING L.L.C.

OPERATOR : Helmerich & Payne DATE 12-4-95
WELL NAME: Reeves B-1 KB 3003.00 ft TICKET NO: 8495 DST #5
LOCATION : 30-25S-34W, Finney Cty KS GR 2993.00 ft FORMATION: Lower Morrow
INTERVAL : 5031.00 To 5050.00 ft TD 5050.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	11058	11058	2351		
SI 60	Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0
SF 60	Clock(hrs)	AK-1	AK-1	Alpin		
FS 120	Depth(ft)	5045.0	5045.0	5038.0	0.0	0.0

TIME DATA----------
PF Fr. 1417 to 1447 hr
IS Fr. 1447 to 1547 hr
SF Fr. 1547 to 1647 hr
FS Fr. 1647 to 1847 hr

	Field	1	2	3	4
A. Init Hydro	2367.0	2368.0	2385.0	0.0	0.0
B. First Flow	55.0	48.0	16.0	0.0	0.0
B1. Final Flow	44.0	47.0	23.0	0.0	0.0
C. In Shut-in	1292.0	1290.0	1318.0	0.0	0.0
D. Init Flow	50.0	50.0	25.0	0.0	0.0
E. Final Flow	44.0	56.0	30.0	0.0	0.0
F. Fl Shut-in	1270.0	1276.0	1303.0	0.0	0.0
G. Final Hydro	2356.0	2357.0	2346.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 1115 hr
T ON BOTM 1413 hr
T OPEN 1417 hr
T PULLED 1847 hr
T OUT hr

RECOVERY
Tot Fluid 20.00 ft of 20.00 ft in DC and 0.00 ft in DP
20.00 ft of Oil cut mud - 13% oil, 87% mud

TOOL DATA----------

Tool Wt.	6000.00 lb
Wt Set On Packer	26000.00 lb
Wt Pulled Loose	108000.00 l
Initial Str Wt	102000.00 l
Unseated Str Wt	101000.00 l
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	540.00 ft
D.P. Length	4481.00 ft

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

MUD DATA----------

Mud Type	Chemical
Weight	8.80 lb
Vis.	58.00 S/
W.L.	7.20 in
F.C.	0.00 in
Mud Drop Y	15.0 ft

BLOW DESCRIPTION

Initial Flow -
Weak .125" died back to a very weak surface blow

Initial Shutin -
No return

Final Flow -
Bubble to open tool, weak surface blow in 20 min

Final Shutin -
No return

SAMPLES:
SENT TO:

Amt. of fill	0.00 ft
Btm. H. Temp.	126.00 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	Shane McBride
Co. Rep.	Brad Rine
Contr.	Cheyenne
Rig #	2
Unit #	
Pump T.	

Test Successful: Y

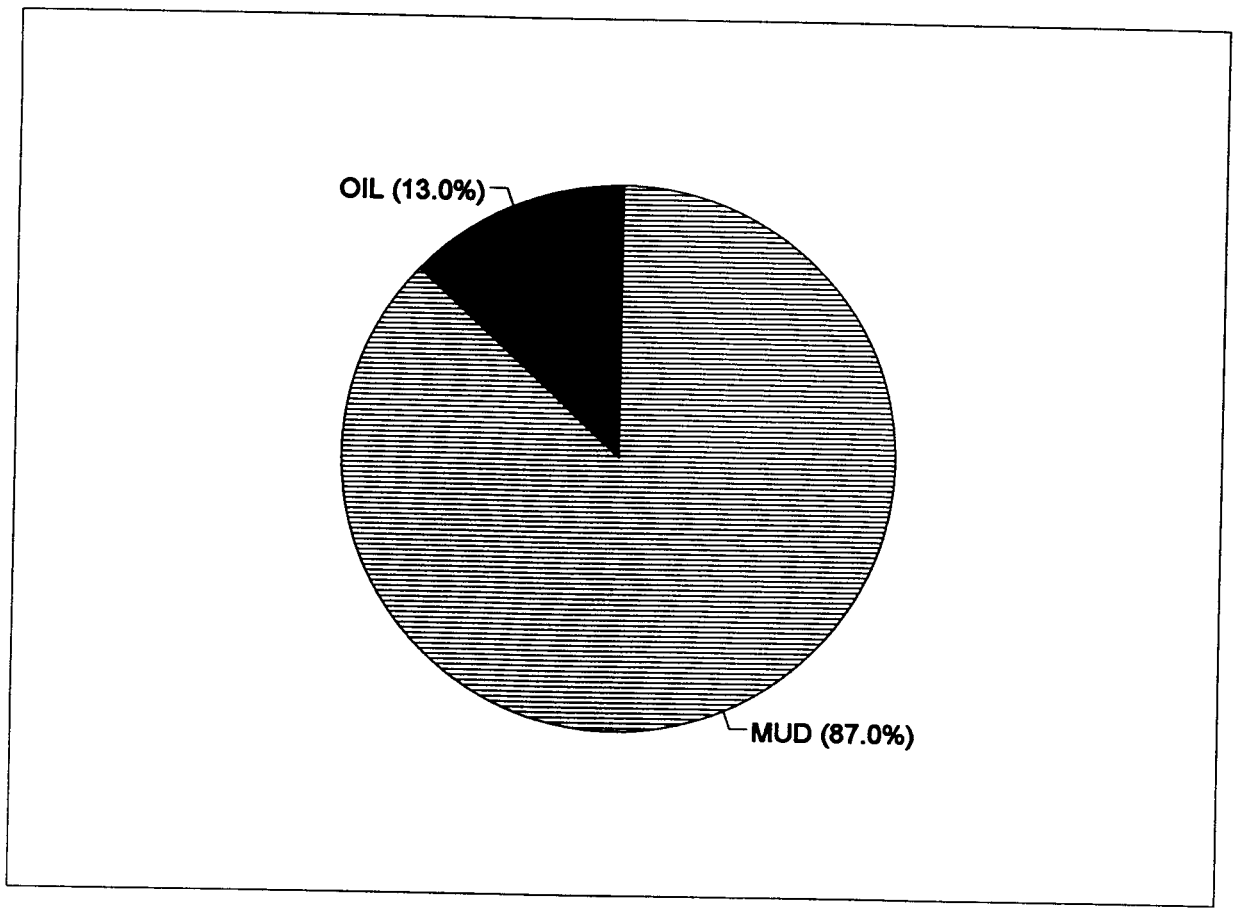
CALCULATED RECOVERY ANALYSIS - DRILL COLLARS

DST # 5

TICKET # 8495

SAMPLE #	TOTAL FEET	GAS %	GAS FEET	OIL %	OIL FEET	WATER %	WATER FEET	MUD %	MUD FEET
1	20		0	13	2.6		0	87	17.4
2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	20	0.00	0	13.00	2.6	0.00	0	87	17.4

			HRS OPE	BBL/DAY
BBL OIL=	0.012714	*	1.50	0.203424
BBL WAT	0	*		0
BBL MUD:	0.085086			
BBL GAS:	0			



TEST HISTORY

8495 DST #5 Reeves B-1 Helmerich & Payne

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2385.14
B:	0.00	15.94
C:	31.00	22.82
D:	60.00	1318.16
E:	0.00	24.50
F:	59.00	29.53
G:	119.00	1383.39
Q:	0.00	2345.86

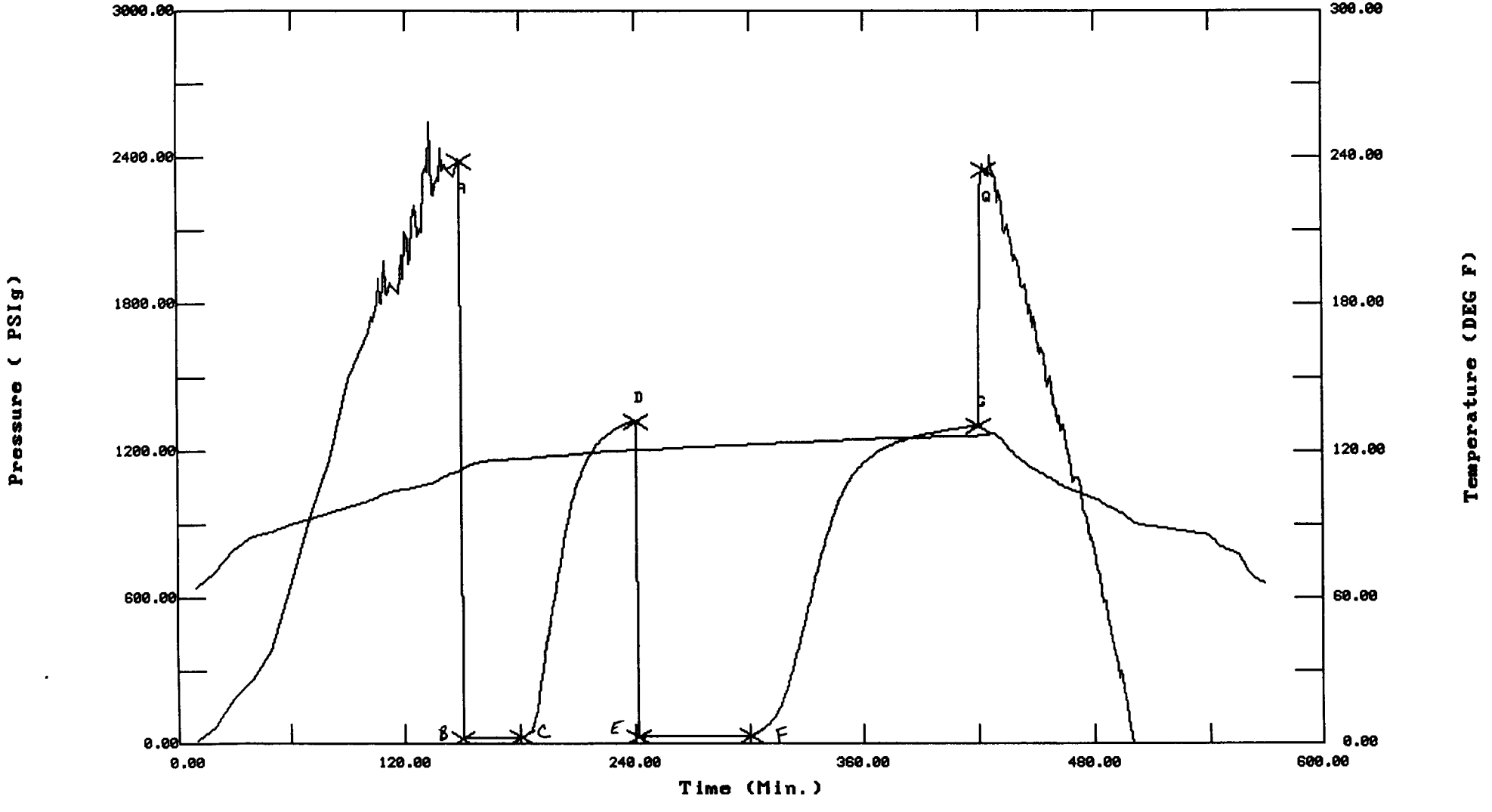
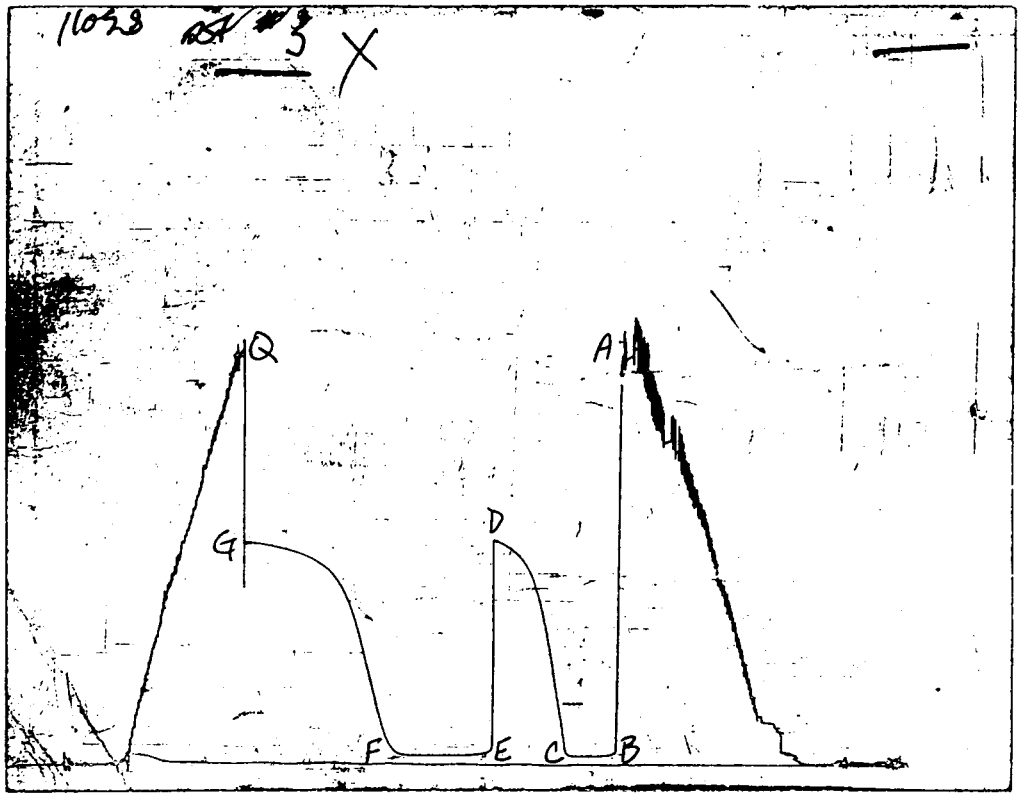


CHART PAGE



This is an actual photograph of recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8495 DST #5 Reeves B-1 Helmerich & Payne

DATE: 12/04/95 TIME: 11:49:05

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	149.00	2385.1	0.0	112.10		
****** Start Flow 1	0.00	15.9	0.0	112.64		
	1.00	21.0	5.0	113.18		
	2.00	21.5	5.5	113.54		
	3.00	22.1	6.1	113.90		
	4.00	23.2	7.2	114.26		
	5.00	23.4	7.5	114.62		
	6.00	19.5	3.5	114.80		
	7.00	19.7	3.8	115.16		
	8.00	19.9	3.9	115.34		
	9.00	20.1	4.1	115.34		
	10.00	20.3	4.4	115.52		
	11.00	20.6	4.6	115.70		
	12.00	20.8	4.9	115.88		
	13.00	20.8	4.9	115.88		
	14.00	20.9	5.0	116.06		
	15.00	21.0	5.0	116.06		
	16.00	21.1	5.1	116.24		
	17.00	21.2	5.3	116.24		
	18.00	21.4	5.5	116.24		
	19.00	21.5	5.5	116.42		
	20.00	21.6	5.7	116.42		
	21.00	21.6	5.7	116.60		
	22.00	21.6	5.7	116.60		
	23.00	21.7	5.8	116.60		
	24.00	21.8	5.9	116.60		
	25.00	21.9	6.0	116.78		
	26.00	22.0	6.0	116.78		
	27.00	22.1	6.2	116.78		
	28.00	22.3	6.4	116.78		
	29.00	22.4	6.5	116.96		
	30.00	22.5	6.5	116.96		
****** End Flow 1	31.00	22.8	6.9	116.96		
****** Start Shutin 1	0.00	22.8	0.0	116.96	0.0000	0.001
	1.00	27.4	4.5	116.96	32.0000	0.001
	2.00	32.7	9.9	117.14	16.5000	0.001
	3.00	39.5	16.7	117.14	11.3333	0.002
	4.00	48.3	25.5	117.14	8.7500	0.002
	5.00	60.4	37.6	117.14	7.2000	0.004
	6.00	77.4	54.6	117.32	6.1667	0.006
	7.00	102.4	79.6	117.32	5.4286	0.010
	8.00	138.6	115.7	117.32	4.8750	0.019
	9.00	188.6	165.8	117.50	4.4444	0.036
	10.00	246.7	223.9	117.50	4.1000	0.061
	11.00	305.0	282.2	117.50	3.8182	0.093
	12.00	359.5	336.7	117.68	3.5833	0.129
	13.00	410.4	387.6	117.68	3.3846	0.168
	14.00	459.2	436.4	117.86	3.2143	0.211
	15.00	506.9	484.1	117.86	3.0667	0.257
	16.00	554.3	531.4	117.86	2.9375	0.307
	17.00	601.3	578.5	117.86	2.8235	0.362

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8495 DST #5 Reeves B-1 Helmerich & Payne

DATE: 12/04/95 TIME: 11:49:05

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	18.00	648.6	625.8	118.04	2.7222	0.421
	19.00	695.5	672.7	118.04	2.6316	0.484
	20.00	741.7	718.8	118.22	2.5500	0.550
	21.00	786.8	764.0	118.22	2.4762	0.619
	22.00	830.1	807.3	118.40	2.4091	0.689
	23.00	871.5	848.7	118.40	2.3478	0.760
	24.00	910.4	887.6	118.40	2.2917	0.829
	25.00	946.6	923.8	118.58	2.2400	0.896
	26.00	980.2	957.4	118.58	2.1923	0.961
	27.00	1011.0	988.2	118.76	2.1481	1.022
	28.00	1039.1	1016.3	118.76	2.1071	1.080
	29.00	1064.7	1041.9	118.76	2.0690	1.134
	30.00	1088.0	1065.2	118.94	2.0333	1.184
	31.00	1109.1	1086.3	118.94	2.0000	1.230
	32.00	1128.2	1105.4	118.94	1.9688	1.273
	33.00	1145.7	1122.9	119.12	1.9394	1.313
	34.00	1161.5	1138.6	119.12	1.9118	1.349
	35.00	1175.8	1153.0	119.12	1.8857	1.383
	36.00	1189.0	1166.2	119.30	1.8611	1.414
	37.00	1200.9	1178.1	119.30	1.8378	1.442
	38.00	1211.8	1189.0	119.30	1.8158	1.469
	39.00	1221.9	1199.1	119.48	1.7949	1.493
	40.00	1231.1	1208.3	119.48	1.7750	1.516
	41.00	1239.6	1216.8	119.48	1.7561	1.537
	42.00	1247.4	1224.6	119.66	1.7381	1.556
	43.00	1254.6	1231.8	119.66	1.7209	1.574
	44.00	1261.4	1238.6	119.66	1.7045	1.591
	45.00	1267.7	1244.9	119.66	1.6889	1.607
	46.00	1273.4	1250.6	119.84	1.6739	1.622
	47.00	1278.8	1256.0	119.84	1.6596	1.635
	48.00	1283.9	1261.1	119.84	1.6458	1.648
	49.00	1288.7	1265.9	120.02	1.6327	1.661
	50.00	1293.3	1270.5	120.02	1.6200	1.673
	51.00	1297.5	1274.7	120.02	1.6078	1.684
	52.00	1301.5	1278.6	120.20	1.5962	1.694
	53.00	1305.2	1282.4	120.20	1.5849	1.704
	54.00	1308.8	1285.9	120.20	1.5741	1.713
	55.00	1312.2	1289.4	120.20	1.5636	1.722
	56.00	1315.3	1292.5	120.38	1.5536	1.730
	57.00	1318.3	1295.5	120.38	1.5439	1.738
	58.00	1321.3	1298.4	120.38	1.5345	1.746
	59.00	1324.0	1301.2	120.56	1.5254	1.753
****** End Shut-in 1	60.00	1318.2	1295.3	120.56	1.5167	1.738
****** Start Flow 2	0.00	24.5	0.0	120.38		
	1.00	24.1	-0.4	120.38		
	2.00	24.2	-0.3	120.56		
	3.00	24.6	0.1	120.56		
	4.00	24.8	0.3	120.56		
	5.00	24.9	0.4	120.56		
	6.00	24.9	0.4	120.56		
	7.00	25.0	0.5	120.56		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8495 DST #5 Reeves B-1 Helmerich & Payne

DATE: 12/04/95 TIME: 11:49:05

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
50.00	1057.4	1027.9	124.52	2.8000	1.118
51.00	1071.1	1041.5	124.52	2.7647	1.147
52.00	1083.7	1054.1	124.52	2.7308	1.174
53.00	1095.5	1066.0	124.52	2.6981	1.200
54.00	1106.4	1076.9	124.70	2.6667	1.224
55.00	1116.7	1087.2	124.70	2.6364	1.247
56.00	1126.2	1096.7	124.70	2.6071	1.268
57.00	1135.0	1105.5	124.70	2.5789	1.288
58.00	1143.4	1113.9	124.70	2.5517	1.307
59.00	1151.1	1121.6	124.70	2.5254	1.325
60.00	1158.4	1128.9	124.88	2.5000	1.342
61.00	1165.2	1135.7	124.88	2.4754	1.358
62.00	1171.5	1142.0	124.88	2.4516	1.373
63.00	1177.7	1148.1	124.88	2.4286	1.387
64.00	1183.4	1153.8	124.88	2.4062	1.400
65.00	1188.6	1159.0	124.88	2.3846	1.413
66.00	1193.8	1164.2	125.06	2.3636	1.425
67.00	1198.6	1169.0	125.06	2.3433	1.437
68.00	1203.1	1173.6	125.06	2.3235	1.447
69.00	1207.5	1177.9	125.06	2.3043	1.458
70.00	1211.5	1182.0	125.06	2.2857	1.468
71.00	1215.4	1185.9	125.06	2.2676	1.477
72.00	1219.2	1189.7	125.24	2.2500	1.486
73.00	1222.7	1193.1	125.24	2.2329	1.495
74.00	1226.1	1196.6	125.24	2.2162	1.503
75.00	1229.4	1199.8	125.24	2.2000	1.511
76.00	1232.4	1202.9	125.24	2.1842	1.519
77.00	1235.5	1206.0	125.24	2.1688	1.526
78.00	1238.3	1208.7	125.24	2.1538	1.533
79.00	1241.1	1211.6	125.42	2.1392	1.540
80.00	1243.6	1214.1	125.42	2.1250	1.547
81.00	1246.2	1216.7	125.42	2.1111	1.553
82.00	1248.8	1219.2	125.42	2.0976	1.559
83.00	1251.1	1221.6	125.42	2.0843	1.565
84.00	1253.4	1223.8	125.42	2.0714	1.571
85.00	1255.6	1226.1	125.42	2.0588	1.577
86.00	1257.7	1228.2	125.60	2.0465	1.582
87.00	1259.7	1230.2	125.60	2.0345	1.587
88.00	1261.8	1232.2	125.60	2.0227	1.592
89.00	1263.7	1234.2	125.60	2.0112	1.597
90.00	1265.6	1236.1	125.60	2.0000	1.602
91.00	1267.4	1237.9	125.60	1.9890	1.606
92.00	1269.1	1239.6	125.60	1.9783	1.611
93.00	1270.9	1241.4	125.60	1.9677	1.615
94.00	1272.6	1243.1	125.60	1.9574	1.619
95.00	1274.2	1244.6	125.78	1.9474	1.624
96.00	1275.8	1246.2	125.78	1.9375	1.628
97.00	1277.3	1247.8	125.78	1.9278	1.631
98.00	1278.8	1249.3	125.78	1.9184	1.635
99.00	1280.2	1250.7	125.78	1.9091	1.639
100.00	1281.7	1252.1	125.78	1.9000	1.643

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8495 DST #5 Reeves B-1 Helmerich & Payne

DATE: 12/04/95 TIME: 11:49:05

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** End Flow 2	59.00	29.5	5.0	122.72		
****** Start Shutin 2	0.00	29.5	0.0	122.72	0.0000	0.001
	1.00	32.8	3.3	122.72	91.0000	0.001
	2.00	37.3	7.8	122.72	46.0000	0.001
	3.00	42.0	12.5	122.90	31.0000	0.002
	4.00	47.0	17.5	122.90	23.5000	0.002
	5.00	52.2	22.7	122.90	19.0000	0.003
	6.00	57.8	28.3	122.90	16.0000	0.003
	7.00	63.9	34.3	122.90	13.8571	0.004
	8.00	70.7	41.1	122.90	12.2500	0.005
	9.00	78.3	48.8	123.08	11.0000	0.006
	10.00	86.6	57.1	123.08	10.0000	0.008
	11.00	95.8	66.2	123.08	9.1818	0.009
	12.00	106.2	76.6	123.08	8.5000	0.011
	13.00	117.7	88.1	123.08	7.9231	0.014
	14.00	130.6	101.0	123.26	7.4286	0.017
	15.00	145.2	115.7	123.26	7.0000	0.021
	16.00	161.6	132.1	123.26	6.6250	0.026
	17.00	179.8	150.3	123.26	6.2941	0.032
	18.00	200.3	170.8	123.26	6.0000	0.040
	19.00	223.0	193.5	123.44	5.7368	0.050
	20.00	247.7	218.1	123.44	5.5000	0.061
	21.00	274.3	244.7	123.44	5.2857	0.075
	22.00	302.6	273.0	123.44	5.0909	0.092
	23.00	332.1	302.6	123.44	4.9130	0.110
	24.00	362.6	333.0	123.62	4.7500	0.131
	25.00	393.8	364.2	123.62	4.6000	0.155
	26.00	425.3	395.8	123.62	4.4615	0.181
	27.00	457.1	427.6	123.62	4.3333	0.209
	28.00	489.5	459.9	123.62	4.2143	0.240
	29.00	521.5	492.0	123.80	4.1034	0.272
	30.00	553.6	524.0	123.80	4.0000	0.306
	31.00	585.6	556.1	123.80	3.9032	0.343
	32.00	617.4	587.9	123.80	3.8125	0.381
	33.00	649.3	619.7	123.80	3.7273	0.422
	34.00	680.6	651.1	123.98	3.6471	0.463
	35.00	711.6	682.1	123.98	3.5714	0.506
	36.00	742.2	712.7	123.98	3.5000	0.551
	37.00	772.0	742.4	123.98	3.4324	0.596
	38.00	801.0	771.5	124.16	3.3684	0.642
	39.00	829.1	799.6	124.16	3.3077	0.687
	40.00	856.1	826.5	124.16	3.2500	0.733
	41.00	882.1	852.5	124.16	3.1951	0.778
	42.00	906.6	877.0	124.16	3.1429	0.822
	43.00	930.0	900.5	124.34	3.0930	0.865
	44.00	951.9	922.4	124.34	3.0455	0.906
	45.00	972.6	943.1	124.34	3.0000	0.946
	46.00	991.9	962.4	124.34	2.9565	0.984
	47.00	1010.1	980.5	124.34	2.9149	1.020
	48.00	1027.0	997.5	124.34	2.8750	1.055
	49.00	1042.8	1013.3	124.52	2.8367	1.087

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8495 DST #5 Reeves B-1 Helmerich & Payne

DATE: 12/04/95 TIME: 11:49:05

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
8.00	25.7	1.2	120.56		
9.00	25.8	1.3	120.56		
10.00	25.8	1.3	120.74		
11.00	25.8	1.3	120.74		
12.00	26.0	1.5	120.74		
13.00	26.0	1.5	120.74		
14.00	26.0	1.5	120.92		
15.00	25.8	1.3	120.92		
16.00	25.6	1.1	120.92		
17.00	25.9	1.4	121.10		
18.00	26.3	1.8	121.10		
19.00	26.4	1.9	121.10		
20.00	26.8	2.3	121.10		
21.00	26.1	1.6	121.28		
22.00	26.7	2.2	121.28		
23.00	27.0	2.5	121.28		
24.00	26.5	2.0	121.46		
25.00	26.7	2.2	121.46		
26.00	26.6	2.1	121.46		
27.00	27.1	2.6	121.46		
28.00	26.8	2.4	121.64		
29.00	26.7	2.2	121.64		
30.00	27.4	2.9	121.64		
31.00	27.3	2.8	121.64		
32.00	26.8	2.4	121.82		
33.00	27.3	2.8	121.82		
34.00	27.6	3.1	121.82		
35.00	28.1	3.6	121.82		
36.00	27.4	2.9	122.00		
37.00	27.5	3.0	122.00		
38.00	28.0	3.5	122.00		
39.00	27.9	3.4	122.00		
40.00	27.8	3.3	122.00		
41.00	28.1	3.6	122.18		
42.00	28.1	3.6	122.18		
43.00	28.3	3.8	122.18		
44.00	27.9	3.4	122.18		
45.00	28.2	3.7	122.18		
46.00	28.5	4.0	122.18		
47.00	28.5	4.0	122.36		
48.00	28.4	3.9	122.36		
49.00	28.5	4.0	122.36		
50.00	28.7	4.2	122.36		
51.00	28.7	4.2	122.36		
52.00	28.8	4.3	122.54		
53.00	28.4	3.9	122.54		
54.00	29.1	4.6	122.54		
55.00	28.9	4.4	122.54		
56.00	28.8	4.3	122.54		
57.00	28.8	4.3	122.54		
58.00	29.0	4.5	122.72		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8495 DST #5 Reeves B-1 Helmerich & Payne

DATE: 12/04/95 TIME: 11:49:05

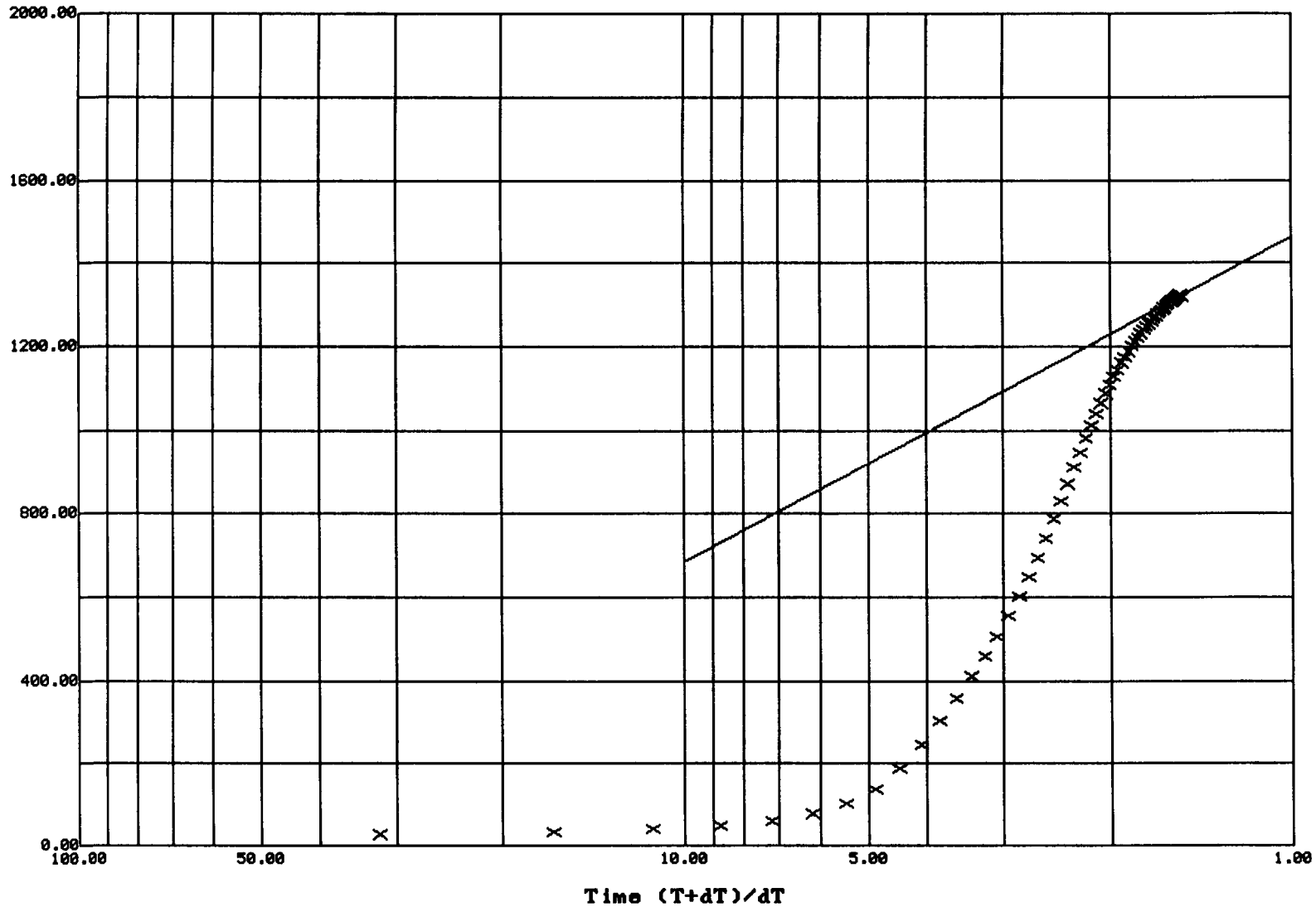
	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	101.00	1283.1	1253.5	125.78	1.8911	1.646
	102.00	1284.4	1254.9	125.78	1.8824	1.650
	103.00	1285.8	1256.2	125.96	1.8738	1.653
	104.00	1287.0	1257.5	125.96	1.8654	1.656
	105.00	1288.4	1258.8	125.96	1.8571	1.660
	106.00	1289.5	1260.0	125.96	1.8491	1.663
	107.00	1290.8	1261.3	125.96	1.8411	1.666
	108.00	1291.9	1262.4	125.96	1.8333	1.669
	109.00	1293.1	1263.5	125.96	1.8257	1.672
	110.00	1294.2	1264.6	125.96	1.8182	1.675
	111.00	1295.3	1265.8	126.14	1.8108	1.678
	112.00	1296.3	1266.8	126.14	1.8036	1.680
	113.00	1297.3	1267.8	126.14	1.7965	1.683
	114.00	1298.4	1268.9	126.14	1.7895	1.686
	115.00	1299.4	1269.9	126.14	1.7826	1.689
	116.00	1300.5	1270.9	126.14	1.7759	1.691
	117.00	1301.5	1271.9	126.14	1.7692	1.694
	118.00	1302.5	1272.9	126.14	1.7627	1.696
****** End Shut-in 2	119.00	1303.4	1273.9	126.32	1.7563	1.699
****** Final Hydro.	423.00	2345.9	0.0	126.50		

Horner Plot: shut-in #1

8495 DST #5 Reeves B-1 Helmerich & Payne

Slope: 777.3984 PSIg/cycle

Ext. Pressure: 1463.6112 PSIg

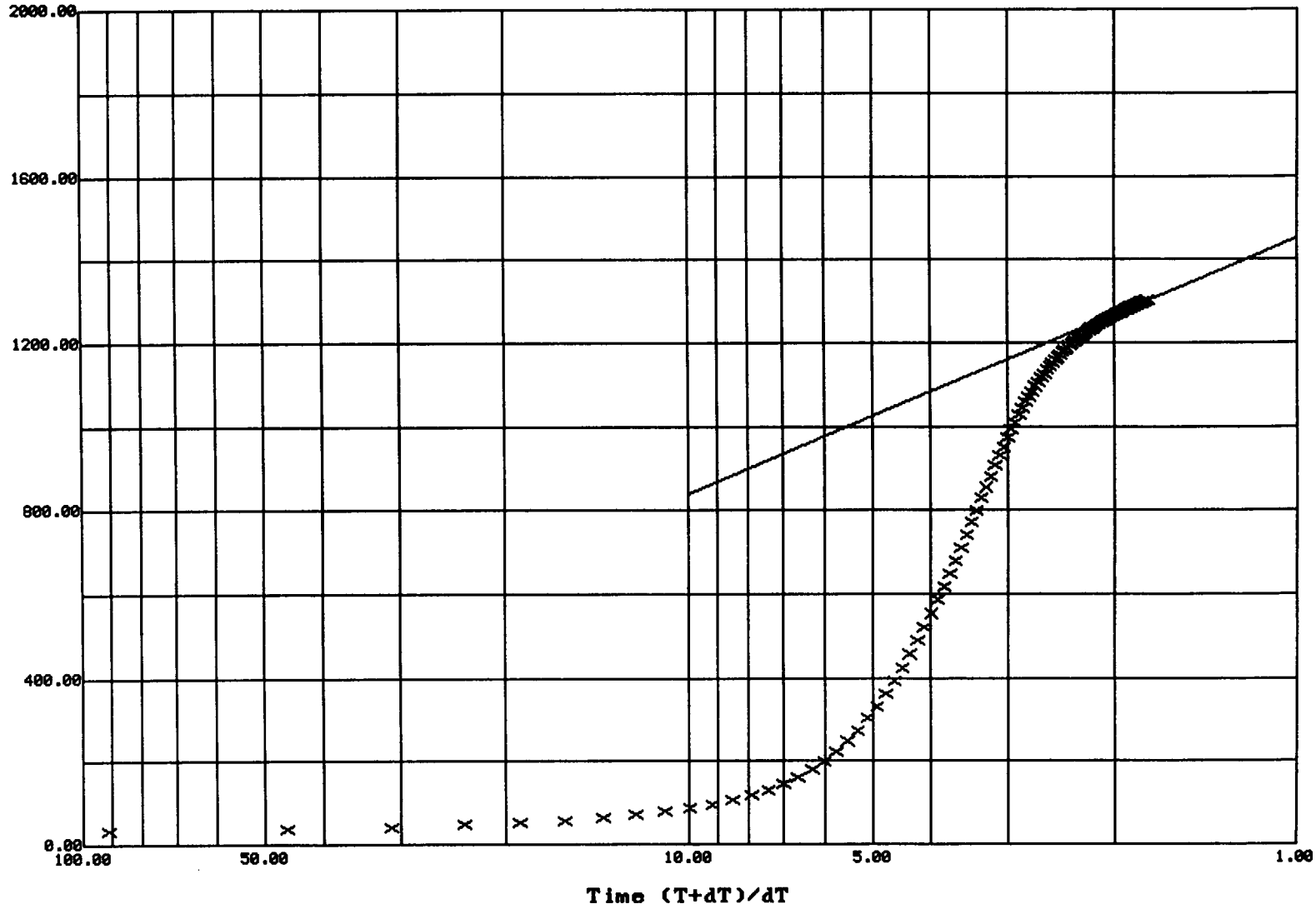


Horner Plot: shut-in #2

8495 DST #5 Reeves B-1 Helmerich & Payne

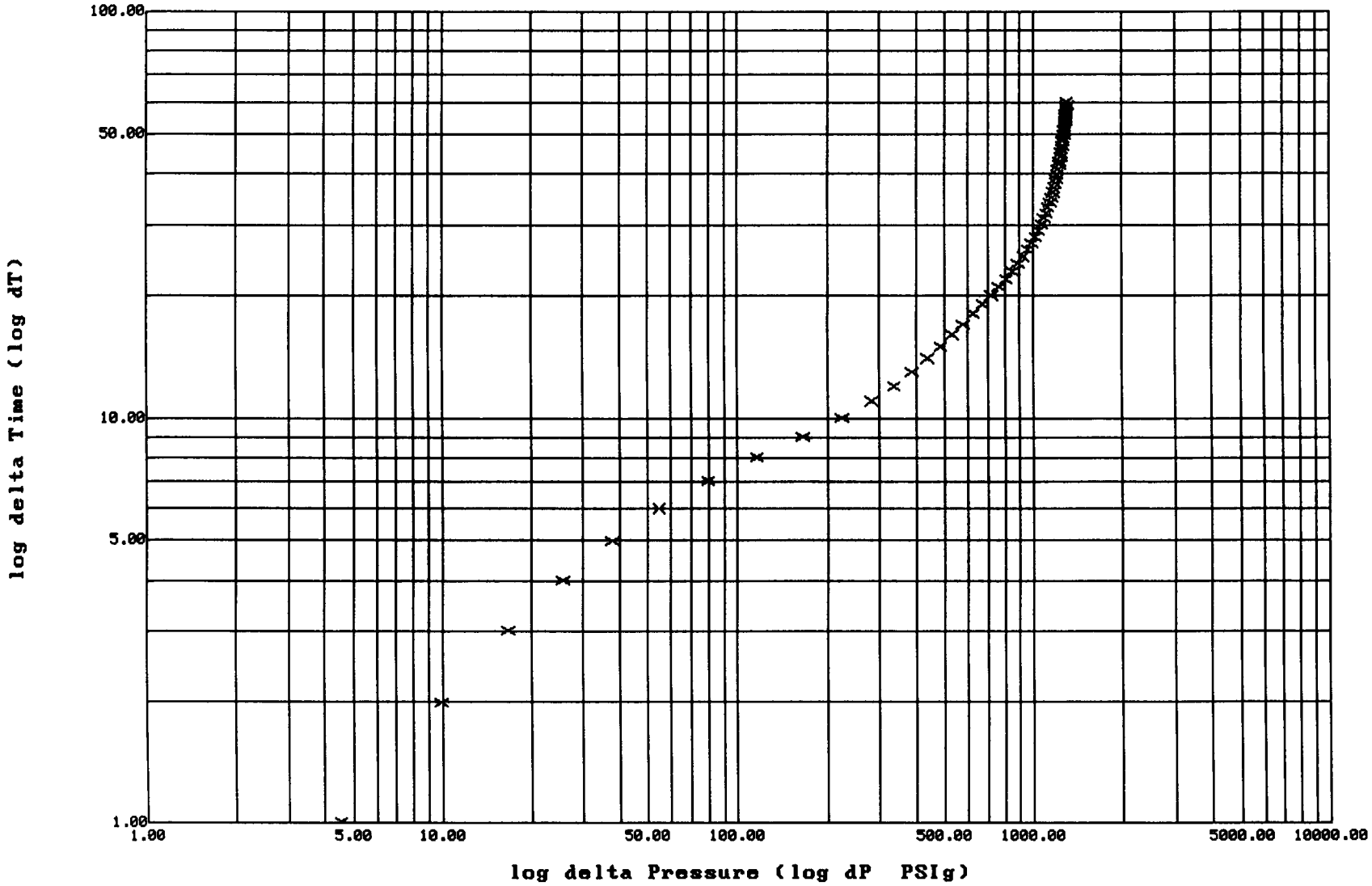
Slope: 612.5134 PSIg/cycle

Ext. Pressure: 1453.2257 PSIg



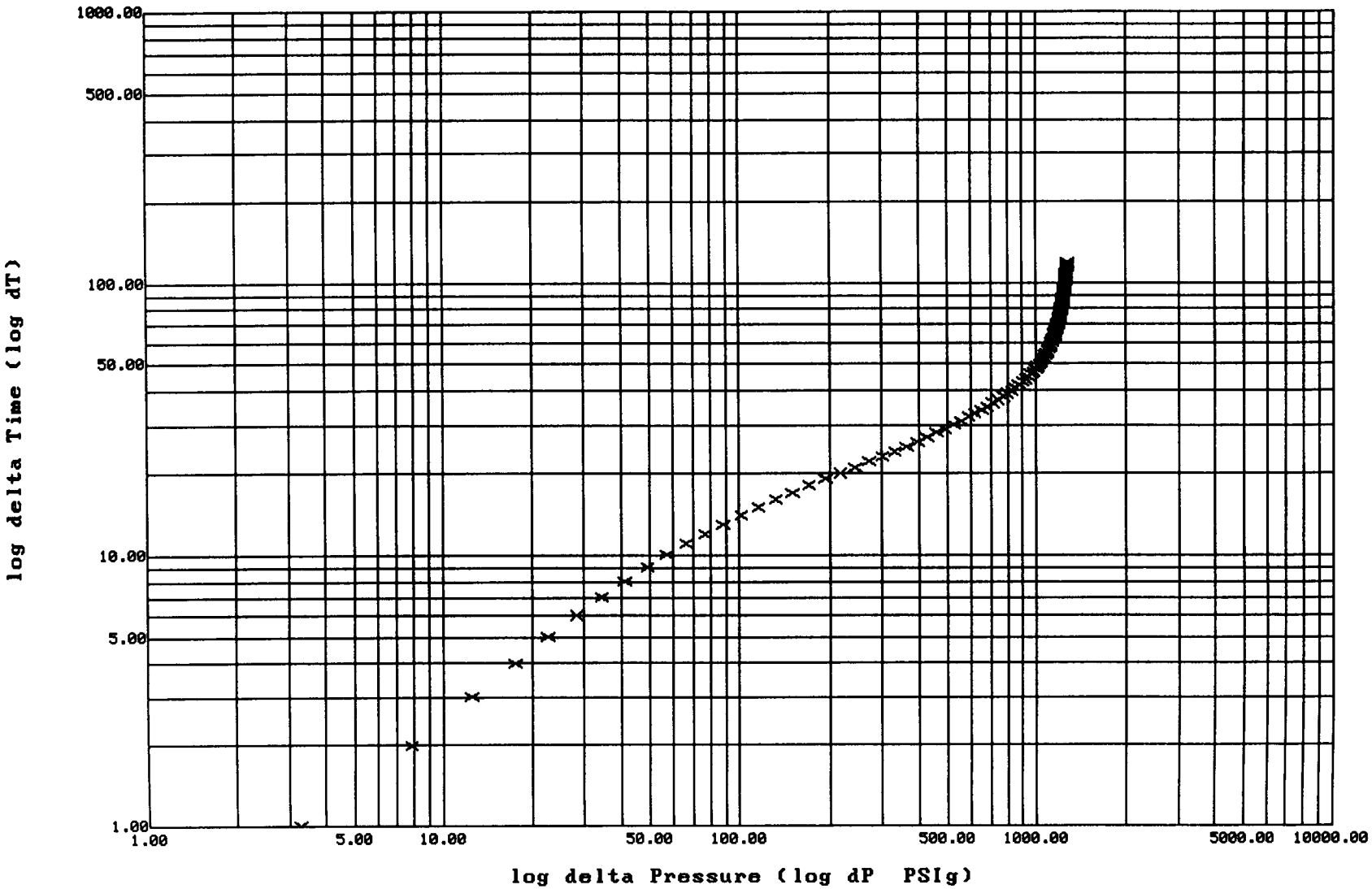
McKinley Plot: shut-in #1

8495 DST #5 Reeves B-1 Helmerich & Payne



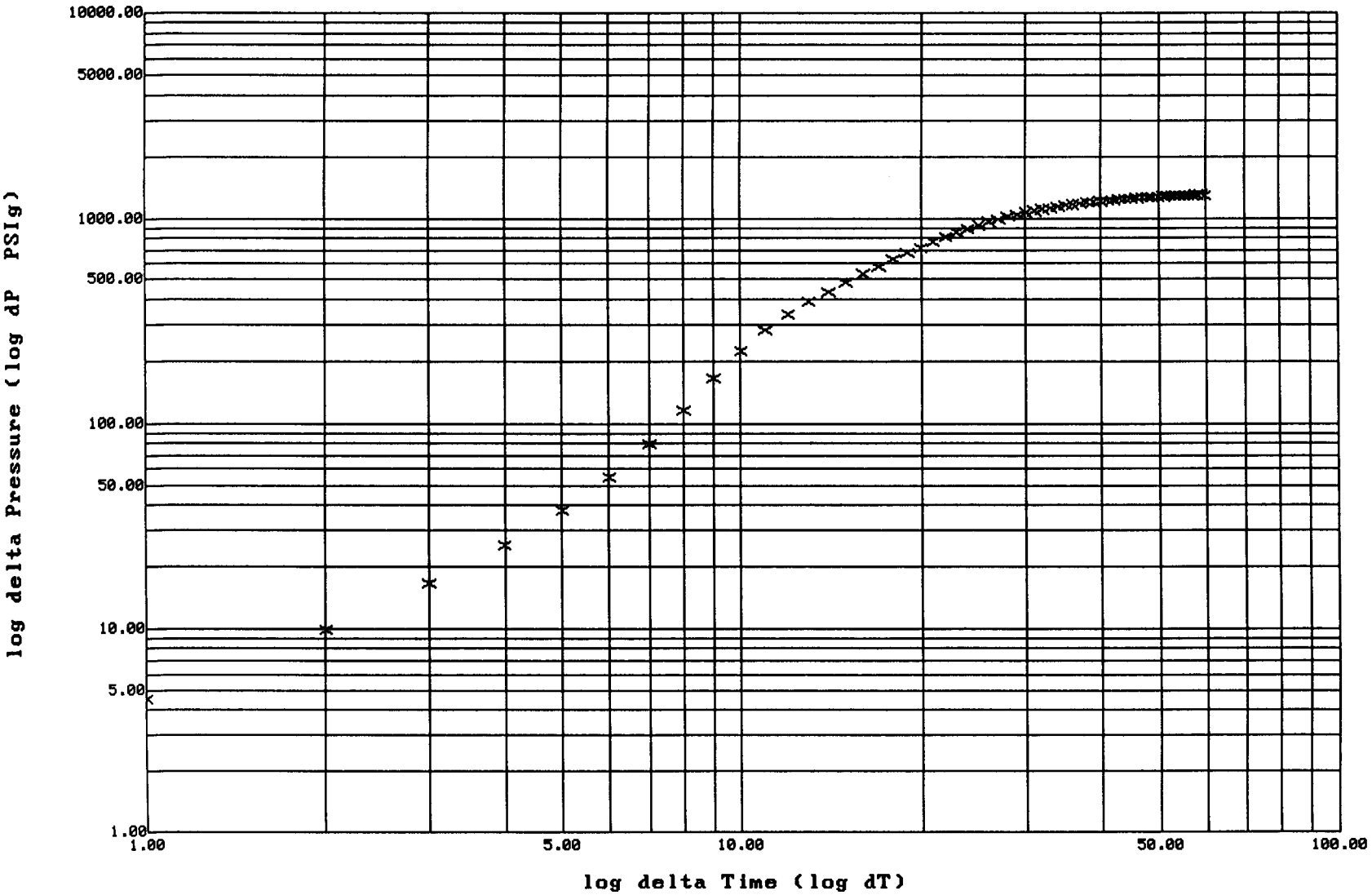
McKinley Plot: shut-in #2

8495 DST #5 Reeves B-1 Helmerich & Payne



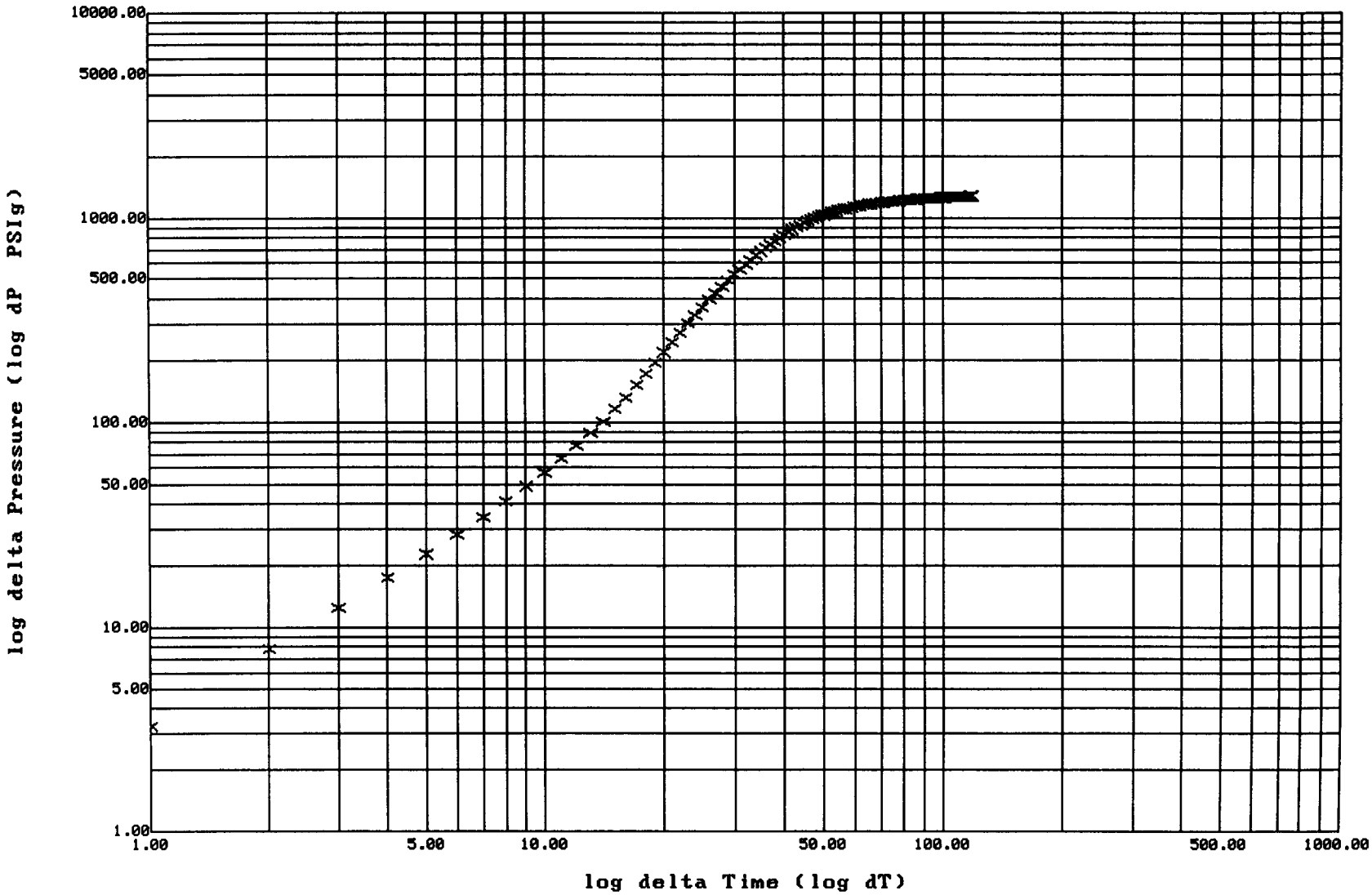
Ramey Plot: shut-in #1

8495 DST #5 Reeves B-1 Helmerich & Payne



Ramey Plot: shut-in #2

8495 DST #5 Reeves B-1 Helmerich & Payne



*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Reeves B-1

LOCATION : 30-25S-34W, Finney Cty KS

TICKET No. 8495 D.S.T. No. 5 DATE 12-4-95

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 14

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.Stands9 Single Total 540

D.P. ABOVE TOOLS.Stands73 Single Total 4481

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5065

TOTAL DEPTH 5050

TOTAL DRILL PIPE ABOVE K.B. 15

REMARKS:

FLUID SAMPLER DATA

SAMPLER RECOVERY -
Oil 480 ml, Mud 3520 ml, Pressure 820 PSI,
Total 4000 ml
SAMPLER ANALYSIS -
Resist 3.99 ohms @ 70 F; Chlorides 1400 ppm
PIT MUD ANALYSIS -
Chlorides 1400 ppm; Resist 3.99 ohms @ 70 F
Vis 58, Mud Wt 8.8, Filtrate 7.2, LCM trace
PIPE RECOVERY -
Top & Bottom -
Resistivity 3.99 ohms @ 70 F;
Chlorides 1400 ppm

P.O. SUB
C.O. SUB 1' 5006
S.I. TOOL 5' 5012
sampler 5015
HMV 5' 5020
JARS 5' 5025
SAFETY JOINT 2' 5027
PACKER top 5031
PACKER bottom 5036
DEPTH 5036
STUBB 1' 5037
ANCHOR Alpine recorder 5038
5' perf 5042
3' perf 5045
T.C.
DEPTH
AK-1 recorder 5045
BULLNOSE 5' perf
T.D. 5050

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 8495

Well Name & No. Reeves B-1 Test No. 5 Date 12-4-95

Company Helmerich & Payne Zone Tested L. Morrow

Address P.O. Box 558 Garden City, KS 67846 Elevation 3003 KB 2993 GL

Co. Rep / Geo. Brad Rein Cont. Cheyenne #2 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 30 Twp. 25s Rge. 34w Co. Finney State KS

No. of Copies Norm. Distribution Sheet (Y, N) ___ Turnkey (Y, N) ___ Evaluation (Y, N) ___

Interval Tested 5031-36 – 5050' Initial Str Wt./Lbs. 102,000 Unseated Str Wt./Lbs. 101,000

Anchor Length 19' Wt. Set Lbs. 26,000 Wt. Pulled Loose/Lbs. 108,000

Top Packer Depth 5031' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓

Bottom Packer Depth 5036' Wt. Pipe I.D. — 2.7 Ft. Run —

Total Depth 5050' Drill Collar — 2.25 Ft. Run 540'

Mud Wt. 8.8 LCM Tr Vis. 58 WL 7.2 Drill Pipe Size 4½XH Ft. Run 448

Blow Description Weak ⅛" in. died Back to very weak Surface.

I.S.I: No return

F.F.: Bobble to open tool – weak Surface Blow in 20 min.

F.S.I: No return

Recovery — Total Feet 20' Ft. in DC 20' Ft. in WP — Ft. in DP —

Rec. 20'	Feet Of Oil cut mud	%gas	13	%oil	%water	87	%mud
Rec. ___	Feet Of ___	%gas		%oil	%water		%mud
Rec. ___	Feet Of ___	%gas		%oil	%water		%mud
Rec. ___	Feet Of ___	%gas		%oil	%water		%mud
Rec. ___	Feet Of ___	%gas		%oil	%water		%mud

BHT 126° °F Gravity ___ °API D@ ___ °F Corrected Gravity ___ °API

RW ___ @ ___ °F Chlorides ___ ppm Recovery Chlorides 1,400 ppm System

	Elec.	AK-1				
(A) Initial Hydrostatic Mud	2385	2367	PSI	Recorder No. 2351	T-Started	11:15 am
(B) First Initial Flow Pressure	15	55	PSI	@ (depth) 5038'	T-Open	11:17 am
(C) First Final Flow Pressure	22	44	PSI	Recorder No. 11058	T-Pulled	18:47 pm
(D) Initial Shut-in Pressure	138	1292	PSI	@ (depth) 5045'	T-Out	21:30 pm
(E) Second Initial Flow Pressure	24	50	PSI	Recorder No. ___		
(F) Second Final Flow Pressure	29	44	PSI	@ (depth) ___		
(G) Final Shut-in Pressure	1303	1270	PSI	Initial Opening 30	Test X	700
(H) Final Hydrostatic Mud	2345	2356	PSI	Initial Shut-in 60	Jars X	200
				Final Flow 60	Safety Joint X	50
				Final Shut-in 120	Straddle ___	
				___	Circ. Sub X	N/C
				___	Sampler X	200
					Extra Packer ___	
					Elect. Rec. X	150
					Other ___	
					TOTAL PRICE $	1300

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Brad Rein

Our Representative Shane McGinnis

5 Copies

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 8495 Date 12-4-95

Company Name Helmerich & Payne

Lease Reeves B-1 Test No. 5

County Finney -KS Sec. 30 Twp. 25 Rng. 34

SAMPLER RECOVERY

Gas _____ ML

Oil 480 ML

Mud 3,520 ML

Water _____ ML

Other _____ ML

Pressure 820 PSI

Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 1,400 ppm.

Resistivity 3.99 ohms @ 70 F

Viscosity 58

Mud Weight 8.8

Filtrate 7.2

Other LCM #Tr

SAMPLER ANALYSIS

Resistivity 3.99 ohms @ 70 F

Chlorides 1,400 ppm.

Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity 3.99 ohms @ 70 F

Chlorides 1,400 ppm.

MIDDLE
Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

BOTTOM
Resistivity 3.99 ohms @ 70 F

Chlorides 1,400 ppm.