WELL NAME:	Biggerstaff #5-11
COMPANY:	Griggs Oil Inc.
LOCATION:	11-25S-9W
	Reno County Kansas
DATE:	05/08/97

TRILOBITE TESTING L.L.C.

OPERATOR : Griggs Oil Inc DATE 4/29/97
WELL NAME: Bigger Staff # 5-11 KB 1675.00 ft TICKET NO: 10007 DST #1
LOCATION : 11-25S-9W GR 1666.00 ft FORMATION: Herrington
INTERVAL : 1451.00 To 1535.00 ft TD 1535.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	10332	10332	10991		
SI 30	Range(Psi)	4025.0	4025.0	1513.0	0.0	0.0
SF 30	Clock(hrs)	12 hr	12 hr	12 hr		
FS 30	Depth(ft)	1532.0	1532.0	1513.0	0.0	0.0

TIME DATA----------
PF Fr. 0523 to 0553 hr
IS Fr. 0553 to 0623 hr
SF Fr. 0623 to 0653 hr
FS Fr. 0653 to 0723 hr

	Field	1	2	3	4
A. Init Hydro	730.0	763.0	0.0	0.0	0.0
B. First Flow	91.0	98.0	0.0	0.0	0.0
B1. Final Flow	91.0	78.0	0.0	0.0	0.0
C. In Shut-in	122.0	97.0	0.0	0.0	0.0
D. Init Flow	101.0	85.0	0.0	0.0	0.0
E. Final Flow	101.0	68.0	0.0	0.0	0.0
F. Fl Shut-in	111.0	74.0	0.0	0.0	0.0
G. Final Hydro	730.0	743.0	0.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 0330 hr
T ON BOTM 0515 hr
T OPEN 0523 hr
T PULLED 0723 hr
T OUT 0800 hr

RECOVERY
Tot Fluid 5.00 ft of 5.00 ft in DC and 0.00 ft in DP
5.00 ft of Water Cut 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
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

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

Tool Wt.	2100.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	74000.00 lbs
Initial Str Wt	51000.00 lbs
Unseated Str Wt	51000.00 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	0.00 ft
D.P. Length	486.00 ft

BLOW DESCRIPTION
Initial Flow:
Weak blow, died in 14 minutes

Initial Shut In:

Final Flow:
Weak surface, blow died in 8 minutes

Final Shut In:

SAMPLES:
SENT TO:

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

Mud Type	Chemical
Weight	8.80 lb/c
Vis.	39.00 S/L
W.L.	0.00 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	88.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Darren Amerine
Co. Rep.	Kris Kennedy
Contr.	Sterling
Rig #	4
Unit #	
Pump T.	

Test Successful: Y

TRILOBITE TESTING L.L.C.

OPERATOR : Griggs Oil Inc DATE 5/3/97
WELL NAME: Biggerstaff #5-11 KB 1675.00 ft TICKET NO: 10008 DST #2
LOCATION : 11-25-9 Reno KS GR 1666.00 ft FORMATION: Cherokee
INTERVAL : 3820.00 To 3836.00 ft TD 3836.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	13849	13849	10332		
SI 30	Range(Psi)	4375.0	4375.0	4025.0	0.0	0.0
SF 30	Clock(hrs)	12 hr	12 hr	12 hr		
FS 30	Depth(ft)	3833.0	3833.0	0.0	0.0	0.0

TIME DATA----------
PF Fr. 1143 to 1223 hr
IS Fr. 1223 to 1243 hr
SF Fr. 1243 to 1323 hr
FS Fr. 1323 to 1343 hr

	Field	1	2	3	4
A. Init Hydro	0.0	0.0	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	0.0	0.0	0.0	0.0
Inside/Outside		O	O	I	

T STARTED 1030 hr
T ON BOTM 1135 hr
T OPEN 1143 hr
T PULLED 1343 hr
T OUT 1445 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
0.00 ft of
0.00 ft of MISRUN TOOL PLUGGED
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

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

Tool Wt.	2100.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	84000.00 lbs
Initial Str Wt	71000.00 lbs
Unseated Str Wt	74000.00 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	486.00 ft
D.P. Length	3345.00 ft

BLOW DESCRIPTION
Initial Flow:
Weak blow built to 1.5", died off to .5" in water

Initial Shut In:
BLed down for 5 mins no blow back

Final Flow:
No Blow

Final Shut In:

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

Mud Type	Chemical
Weight	9.30 lb/c
Vis.	52.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	0.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Darren Amerine
Co. Rep.	Kris Kennedy
Contr.	Sterling
Rig #	4
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: N

TRILOBITE TESTING L.L.C.

OPERATOR : Griggs Oil Inc DATE 3/4/97
WELL NAME: Biggerstaff #5-11 KB 1675.00 ft TICKET NO: 10009 DST #3
LOCATION : 11-25-9 Reno KS GR 1666.00 ft FORMATION: Mississippi
INTERVAL : 3855.00 To 3888.00 ft TD 3888.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	13849	13849	2350		
SI 60	Range(Psi)	4375.0	4375.0	4995.0	0.0	0.0
SF 45	Clock(hrs)	12hr	12hr	12hr		
FS 90	Depth(ft)	3885.0	3885.0	3862.0	0.0	0.0

TIME DATA----------
PF Fr. 0230 to 0300 hr
IS Fr. 0300 to 0400 hr
SF Fr. 0400 to 0445 hr
FS Fr. 0445 to 0615 hr

	Field	1	2	3	4
A. Init Hydro	1917.0	1963.0	1932.0	0.0	0.0
B. First Flow	122.0	140.0	133.0	0.0	0.0
B1. Final Flow	156.0	164.0	158.0	0.0	0.0
C. In Shut-in	643.0	637.0	617.0	0.0	0.0
D. Init Flow	222.0	252.0	166.0	0.0	0.0
E. Final Flow	311.0	298.0	290.0	0.0	0.0
F. Fl Shut-in	654.0	640.0	619.0	0.0	0.0
G. Final Hydro	1972.0	1972.0	1906.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 1209 hr
T ON BOTM 0220 hr
T OPEN 0230 hr
T PULLED 0615 hr
T OUT 0900 hr

RECOVERY
Tot Fluid 780.00 ft of 486.00 ft in DC and 294.00 ft in DP
250.00 ft of Water
0.00 ft of 100%
300.00 ft of Gassy Oil Cut Watery Mud
0.00 ft of 12%gas 14%oil 10%water 58%mud
230.00 ft of Gassy Heavy OIl Cut Watery Mud
0.00 ft of 20%gas 30%oil 20%water 30%mud
0.00 ft of
0.00 ft of
SALINITY 15000.00 P.P.M. A.P.I. Gravity 0.00

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

Tool Wt.	2100.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	84000.00 lbs
Initial Str Wt	73000.00 lbs
Unseated Str Wt	73000.00 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	486.00 ft
D.P. Length	3380.00 ft

BLOW DESCRIPTION
Initial Flow:
Strong blow, Gas To Surface in 5 mins

Initial Shut In:
Bled down for 10 mins, bottom of bucket in 10 mins

Final Flow:
Strong blow, bottom of bucket in 1 min

Final Shut In:
Bled down for 10 mins, bottom of bucket in 25 mins

SAMPLES:
SENT TO:

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

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	51.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	123.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Darren Amerine
Co. Rep.	Kris Kennedy
Contr.	Sterling
Rig #	4
Unit #	
Pump T.	

Test Successful: Y

GAS RECOVERY

COMPANY: Griggs Oil Inc DATE: 3/4/97
WELL NAME: Biggerstaff #5-11 KB Elev: 1675.00 ft TICKET #10009 DST #3
WELL LOCATION: 11-25-9 Reno KS GR Elev: 1666.00 ft FORMATION: Mississippi
INTERVAL Fr.: 3855.00 To 3888.00 T.D.: 3888.00 ft TEST TYPE: CONV

GAS RECOVERY MEASURED WITH Merla Gauge

**** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.50	0	76	54700.0
20	0.50	0	66	50900.0

**** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
0	0.50	0	36	37600.0
10	0.50	0	32	35500.0
20	0.50	0	24	30700.0
30	0.50	0	20	28000.0
40	0.50	0	15	24500.0

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10009 Biggerstaff 5-11 DST#3 Griggs Oil Inc.

DATE: 05/04/97 TIME: 00:10:28

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	142.50	1932.2	0.0	108.74		
****** Start Flow 1	0.00	132.6	0.0	108.99		
	0.50	115.6	-17.0	109.18		
	1.00	108.6	-24.0	109.40		
	1.50	97.6	-35.0	109.63		
	2.00	104.1	-28.5	109.86		
	2.50	91.4	-41.2	110.11		
	3.00	88.1	-44.5	110.37		
	3.50	87.9	-44.6	110.65		
	4.00	84.0	-48.6	110.95		
	4.50	78.1	-54.5	111.27		
	5.00	75.8	-56.8	111.61		
	5.50	72.6	-60.0	111.95		
	6.00	72.6	-60.0	112.31		
	6.50	72.7	-59.9	112.67		
	7.00	64.9	-67.7	113.02		
	7.50	67.0	-65.6	113.36		
	8.00	69.2	-63.4	113.71		
	8.50	74.0	-58.6	114.04		
	9.00	76.7	-55.9	114.35		
	9.50	81.7	-50.9	114.66		
	10.00	86.7	-45.9	114.95		
	10.50	89.8	-42.8	115.22		
	11.00	94.9	-37.7	115.49		
	11.50	99.9	-32.7	115.73		
	12.00	101.5	-31.1	115.97		
	12.50	106.0	-26.6	116.21		
	13.00	110.0	-22.6	116.43		
	13.50	116.9	-15.7	116.65		
	14.00	118.8	-13.8	116.86		
	14.50	121.3	-11.3	117.05		
	15.00	120.6	-12.0	117.23		
	15.50	123.5	-9.1	117.41		
	16.00	122.6	-10	117.59		
	16.50	124.8	-7.8	117.75		
	17.00	126.3	-6.3	117.89		
	17.50	125.5	-7.1	118.03		
	18.00	126.9	-5.7	118.17		
	18.50	127.6	-5.0	118.28		
	19.00	128.5	-4.1	118.39		
	19.50	131.6	-1.0	118.50		
	20.00	131.3	-1.3	118.60		
	20.50	131.8	-0.8	118.70		
	21.00	133.9	1.3	118.80		
	21.50	137.0	4.4	118.89		
	22.00	136.9	4.3	118.98		
	22.50	138.8	6.2	119.06		
	23.00	138.8	6.2	119.15		
	23.50	139.6	7.0	119.22		
	24.00	141.7	9.1	119.29		
	24.50	144.9	12.3	119.37		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10009 Biggerstaff 5-11 DST#3 Griggs Oil Inc.

DATE: 05/04/97 TIME: 00:10:28

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	25.00	146.0	13.4	119.44		
	25.50	146.8	14.2	119.50		
	26.00	148.4	15.8	119.56		
	26.50	147.6	15.0	119.63		
	27.00	149.6	17.0	119.68		
	27.50	150.6	18.0	119.75		
	28.00	152.0	19.4	119.81		
	28.50	153.9	21.3	119.86		
	29.00	155.8	23.2	119.93		
	29.50	157.6	25.0	119.99		
***** End Flow 1	30.00	157.9	25.3	120.04		
***** Start Shutin 1	0.00	157.9	0.0	120.04	0.0000	0.025
	0.50	264.2	106.3	120.10	61.0000	0.070
	1.00	380.7	222.8	120.17	31.0000	0.145
	1.50	448.1	290.2	120.24	21.0000	0.201
	2.00	486.6	328.7	120.32	16.0000	0.237
	2.50	511.2	353.3	120.41	13.0000	0.261
	3.00	528.5	370.6	120.49	11.0000	0.279
	3.50	541.5	383.6	120.56	9.5714	0.293
	4.00	551.6	393.7	120.62	8.5000	0.304
	4.50	559.6	401.8	120.69	7.6667	0.313
	5.00	566.2	408.3	120.75	7.0000	0.321
	5.50	571.5	413.7	120.80	6.4545	0.327
	6.00	575.8	418.0	120.83	6.0000	0.332
	6.50	579.7	421.8	120.87	5.6154	0.336
	7.00	582.9	425.0	120.90	5.2857	0.340
	7.50	585.6	427.8	120.92	5.0000	0.343
	8.00	588.1	430.2	120.95	4.7500	0.346
	8.50	590.1	432.2	120.97	4.5294	0.348
	9.00	591.9	434.1	120.98	4.3333	0.350
	9.50	593.6	435.8	121.00	4.1579	0.352
	10.00	595.1	437.3	121.01	4.0000	0.354
	10.50	596.5	438.6	121.03	3.8571	0.356
	11.00	597.6	439.8	121.03	3.7273	0.357
	11.50	598.8	441.0	121.04	3.6087	0.359
	12.00	599.7	441.9	121.05	3.5000	0.360
	12.50	600.7	442.8	121.07	3.4000	0.361
	13.00	601.6	443.7	121.07	3.3077	0.362
	13.50	602.2	444.3	121.08	3.2222	0.363
	14.00	602.9	445.1	121.09	3.1429	0.364
	14.50	603.5	445.7	121.09	3.0690	0.364
	15.00	604.2	446.3	121.10	3.0000	0.365
	15.50	604.7	446.8	121.11	2.9355	0.366
	16.00	605.2	447.3	121.11	2.8750	0.366
	16.50	605.7	447.8	121.11	2.8182	0.367
	17.00	606.3	448.4	121.12	2.7647	0.368
	17.50	606.8	448.9	121.12	2.7143	0.368
	18.00	607.2	449.3	121.12	2.6667	0.369
	18.50	607.7	449.9	121.13	2.6216	0.369
	19.00	608.0	450.1	121.13	2.5789	0.370
	19.50	608.4	450.5	121.13	2.5385	0.370

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10009 Biggerstaff 5-11 DST#3 Griggs Oil Inc.

DATE: 05/04/97 TIME: 00:10:28

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
20.00	608.6	450.8	121.13	2.5000	0.370
20.50	609.0	451.1	121.14	2.4634	0.371
21.00	609.2	451.4	121.14	2.4286	0.371
21.50	609.6	451.8	121.14	2.3953	0.372
22.00	609.8	452.0	121.15	2.3636	0.372
22.50	610.1	452.3	121.15	2.3333	0.372
23.00	610.3	452.5	121.14	2.3043	0.372
23.50	610.6	452.7	121.15	2.2766	0.373
24.00	610.9	453.0	121.15	2.2500	0.373
24.50	611.1	453.2	121.15	2.2245	0.373
25.00	611.2	453.4	121.15	2.2000	0.374
25.50	611.5	453.6	121.15	2.1765	0.374
26.00	611.7	453.9	121.15	2.1538	0.374
26.50	612.0	454.1	121.15	2.1321	0.375
27.00	612.1	454.2	121.15	2.1111	0.375
27.50	612.3	454.5	121.15	2.0909	0.375
28.00	612.3	454.5	121.15	2.0714	0.375
28.50	612.6	454.7	121.15	2.0526	0.375
29.00	612.7	454.9	121.15	2.0345	0.375
29.50	612.8	455.0	121.15	2.0169	0.376
30.00	613.0	455.1	121.15	2.0000	0.376
30.50	613.2	455.3	121.15	1.9836	0.376
31.00	613.3	455.5	121.15	1.9677	0.376
31.50	613.5	455.6	121.15	1.9524	0.376
32.00	613.6	455.7	121.15	1.9375	0.376
32.50	613.8	455.9	121.15	1.9231	0.377
33.00	613.8	456.0	121.15	1.9091	0.377
33.50	613.9	456.1	121.15	1.8955	0.377
34.00	613.9	456.1	121.15	1.8824	0.377
34.50	614.2	456.4	121.14	1.8696	0.377
35.00	614.3	456.5	121.14	1.8571	0.377
35.50	614.3	456.5	121.15	1.8451	0.377
36.00	614.4	456.6	121.14	1.8333	0.378
36.50	614.5	456.7	121.14	1.8219	0.378
37.00	614.7	456.8	121.14	1.8108	0.378
37.50	614.8	457.0	121.14	1.8000	0.378
38.00	614.9	457.1	121.14	1.7895	0.378
38.50	615.0	457.2	121.14	1.7792	0.378
39.00	615.0	457.2	121.14	1.7692	0.378
39.50	615.2	457.3	121.13	1.7595	0.378
40.00	615.2	457.3	121.14	1.7500	0.378
40.50	615.4	457.5	121.14	1.7407	0.379
41.00	615.5	457.6	121.13	1.7317	0.379
41.50	615.5	457.6	121.14	1.7229	0.379
42.00	615.7	457.8	121.13	1.7143	0.379
42.50	615.7	457.8	121.12	1.7059	0.379
43.00	615.7	457.9	121.12	1.6977	0.379
43.50	615.8	457.9	121.12	1.6897	0.379
44.00	616.0	458.1	121.12	1.6818	0.379
44.50	616.0	458.1	121.11	1.6742	0.379
45.00	616.1	458.2	121.11	1.6667	0.380

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10009 Biggerstaff 5-11 DST#3 Griggs Oil Inc.

DATE: 05/04/97 TIME: 00:10:28

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	45.50	616.1	458.2	121.10	1.6593	0.380
	46.00	616.2	458.3	121.10	1.6522	0.380
	46.50	616.2	458.4	121.10	1.6452	0.380
	47.00	616.2	458.4	121.09	1.6383	0.380
	47.50	616.3	458.5	121.10	1.6316	0.380
	48.00	616.3	458.5	121.09	1.6250	0.380
	48.50	616.4	458.6	121.09	1.6186	0.380
	49.00	616.5	458.6	121.08	1.6122	0.380
	49.50	616.6	458.7	121.08	1.6061	0.380
	50.00	616.6	458.7	121.08	1.6000	0.380
	50.50	616.6	458.7	121.07	1.5941	0.380
	51.00	616.6	458.7	121.06	1.5882	0.380
	51.50	616.7	458.8	121.06	1.5825	0.380
	52.00	616.8	458.9	121.05	1.5769	0.380
	52.50	616.8	458.9	121.05	1.5714	0.380
	53.00	617.0	459.1	121.05	1.5660	0.381
	53.50	617.0	459.1	121.04	1.5607	0.381
	54.00	616.9	459.1	121.04	1.5556	0.381
	54.50	617.2	459.3	121.03	1.5505	0.381
	55.00	617.2	459.3	121.03	1.5455	0.381
	55.50	617.1	459.2	121.03	1.5405	0.381
	56.00	617.3	459.4	121.02	1.5357	0.381
	56.50	617.3	459.4	121.02	1.5310	0.381
	57.00	617.3	459.4	121.01	1.5263	0.381
	57.50	617.3	459.5	121.01	1.5217	0.381
	58.00	617.3	459.5	121.00	1.5172	0.381
****** End Shut-in 1	58.50	617.4	459.6	120.99	1.5128	0.381
****** Start Flow 2	0.00	165.8	0.0	120.88		
	0.50	167.3	1.4	120.81		
	1.00	171.0	5.1	120.75		
	1.50	166.7	0.8	120.69		
	2.00	171.9	6.0	120.65		
	2.50	176.1	10.2	120.63		
	3.00	177.8	11.9	120.61		
	3.50	179.2	13.3	120.61		
	4.00	184.4	18.5	120.64		
	4.50	185.9	20.1	120.66		
	5.00	186.4	20.6	120.70		
	5.50	188.2	22.3	120.74		
	6.00	191.0	25.2	120.79		
	6.50	191.8	25.9	120.84		
	7.00	194.7	28.9	120.90		
	7.50	196.6	30.7	120.95		
	8.00	196.8	31.0	121.02		
	8.50	198.6	32.8	121.08		
	9.00	200.0	34.2	121.14		
	9.50	201.7	35.8	121.20		
	10.00	202.5	36.7	121.26		
	10.50	204.7	38.9	121.32		
	11.00	207.2	41.4	121.39		
	11.50	209.3	43.5	121.44		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10009 Biggerstaff 5-11 DST#3 Griggs Oil Inc.

DATE: 05/04/97 TIME: 00:10:28

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
12.00	209.2	43.4	121.49		
12.50	211.3	45.5	121.55		
13.00	212.6	46.7	121.60		
13.50	212.2	46.4	121.64		
14.00	214.4	48.6	121.69		
14.50	217.4	51.5	121.73		
15.00	217.1	51.3	121.79		
15.50	219.1	53.3	121.82		
16.00	222.3	56.5	121.87		
16.50	223.2	57.4	121.91		
17.00	224.1	58.2	121.94		
17.50	226.0	60.2	121.98		
18.00	227.9	62.1	122.02		
18.50	228.3	62.4	122.05		
19.00	230.2	64.4	122.09		
19.50	232.6	66.7	122.12		
20.00	232.9	67.1	122.16		
20.50	233.4	67.6	122.19		
21.00	234.5	68.7	122.21		
21.50	236.4	70.6	122.24		
22.00	237.9	72.1	122.26		
22.50	238.9	73.1	122.29		
23.00	241.7	75.9	122.30		
23.50	243.9	78.1	122.34		
24.00	241.8	76.0	122.36		
24.50	242.7	76.9	122.38		
25.00	245.2	79.4	122.40		
25.50	248.1	82.2	122.43		
26.00	247.6	81.7	122.45		
26.50	249.9	84.1	122.47		
27.00	252.0	86.2	122.49		
27.50	254.2	88.4	122.51		
28.00	254.6	88.8	122.53		
28.50	256.7	90.9	122.54		
29.00	256.6	90.8	122.57		
29.50	258.4	92.6	122.58		
30.00	256.7	90.9	122.60		
30.50	261.4	95.6	122.61		
31.00	260.3	94.5	122.63		
31.50	261.3	95.5	122.65		
32.00	264.5	98.7	122.67		
32.50	263.4	97.5	122.68		
33.00	266.0	100.1	122.70		
33.50	268.1	102.2	122.71		
34.00	270.0	104.2	122.73		
34.50	269.1	103.3	122.75		
35.00	271.7	105.9	122.76		
35.50	271.9	106.1	122.77		
36.00	273.9	108.1	122.79		
36.50	276.7	110.9	122.79		
37.00	276.4	110.5	122.81		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10009 Biggerstaff 5-11 DST#3 Griggs Oil Inc.

DATE: 05/04/97 TIME: 00:10:28

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	37.50	276.3	110.4	122.83		
	38.00	278.8	113.0	122.82		
	38.50	278.9	113.1	122.84		
	39.00	280.6	114.8	122.85		
	39.50	280.2	114.4	122.87		
	40.00	282.3	116.5	122.89		
	40.50	283.9	118.1	122.89		
	41.00	287.8	121.9	122.90		
	41.50	286.0	120.2	122.91		
	42.00	287.8	121.9	122.92		
	42.50	287.7	121.9	122.93		
***** End Flow 2	43.00	290.0	124.2	122.94		
***** Start Shutin 2	0.00	290.0	0.0	122.94	0.0000	0.084
	0.50	304.7	14.7	122.96	147.0000	0.093
	1.00	335.4	45.3	122.95	74.0000	0.112
	1.50	367.2	77.1	122.97	49.6667	0.135
	2.00	445.1	155.0	122.99	37.5000	0.198
	2.50	488.2	198.2	122.98	30.2000	0.238
	3.00	510.2	220.1	123.02	25.3333	0.260
	3.50	525.0	235.0	123.03	21.8571	0.276
	4.00	535.5	245.5	123.06	19.2500	0.287
	4.50	543.9	253.9	123.07	17.2222	0.296
	5.00	550.5	260.4	123.08	15.6000	0.303
	5.50	555.9	265.9	123.09	14.2727	0.309
	6.00	560.5	270.4	123.09	13.1667	0.314
	6.50	564.2	274.2	123.09	12.2308	0.318
	7.00	567.7	277.6	123.10	11.4286	0.322
	7.50	570.4	280.4	123.09	10.7333	0.325
	8.00	573.0	282.9	123.09	10.1250	0.328
	8.50	575.0	284.9	123.07	9.5882	0.331
	9.00	577.0	286.9	123.07	9.1111	0.333
	9.50	578.9	288.9	123.05	8.6842	0.335
	10.00	580.5	290.5	123.04	8.3000	0.337
	10.50	582.1	292.1	123.02	7.9524	0.339
	11.00	583.5	293.4	123.01	7.6364	0.340
	11.50	584.6	294.6	123.00	7.3478	0.342
	12.00	585.9	295.8	122.98	7.0833	0.343
	12.50	586.8	296.8	122.97	6.8400	0.344
	13.00	587.8	297.8	122.95	6.6154	0.346
	13.50	588.8	298.8	122.95	6.4074	0.347
	14.00	589.6	299.5	122.93	6.2143	0.348
	14.50	590.4	300.4	122.94	6.0345	0.349
	15.00	591.2	301.1	122.91	5.8667	0.349
	15.50	591.9	301.8	122.90	5.7097	0.350
	16.00	592.5	302.5	122.89	5.5625	0.351
	16.50	593.1	303.1	122.88	5.4242	0.352
	17.00	593.7	303.7	122.87	5.2941	0.352
	17.50	594.3	304.2	122.87	5.1714	0.353
	18.00	594.8	304.7	122.86	5.0556	0.354
	18.50	595.3	305.2	122.85	4.9459	0.354
	19.00	595.7	305.7	122.85	4.8421	0.355

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10009 Biggerstaff 5-11 DST#3 Griggs Oil Inc.

DATE: 05/04/97 TIME: 00:10:28

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
19.50	596.1	306.1	122.84	4.7436	0.355
20.00	596.6	306.5	122.83	4.6500	0.356
20.50	597.1	307.0	122.83	4.5610	0.356
21.00	597.3	307.3	122.82	4.4762	0.357
21.50	599.2	309.1	122.82	4.3953	0.359
22.00	600.7	310.7	122.81	4.3182	0.361
22.50	602.1	312.0	122.81	4.2444	0.363
23.00	603.1	313.1	122.80	4.1739	0.364
23.50	603.9	313.9	122.79	4.1064	0.365
24.00	604.4	314.4	122.79	4.0417	0.365
24.50	605.2	315.1	122.78	3.9796	0.366
25.00	605.4	315.4	122.78	3.9200	0.367
25.50	606.2	316.2	122.78	3.8627	0.367
26.00	606.5	316.4	122.77	3.8077	0.368
26.50	607.0	316.9	122.76	3.7547	0.368
27.00	607.3	317.2	122.75	3.7037	0.369
27.50	607.6	317.6	122.75	3.6545	0.369
28.00	608.2	318.2	122.75	3.6071	0.370
28.50	608.4	318.3	122.73	3.5614	0.370
29.00	608.7	318.7	122.71	3.5172	0.371
29.50	609.0	318.9	122.72	3.4746	0.371
30.00	609.2	319.2	122.72	3.4333	0.371
30.50	609.6	319.5	122.71	3.3934	0.372
31.00	609.7	319.7	122.71	3.3548	0.372
31.50	610.1	320.0	122.69	3.3175	0.372
32.00	610.1	320.1	122.69	3.2812	0.372
32.50	610.5	320.4	122.69	3.2462	0.373
33.00	610.7	320.6	122.68	3.2121	0.373
33.50	610.9	320.9	122.67	3.1791	0.373
34.00	611.0	320.9	122.67	3.1471	0.373
34.50	611.2	321.2	122.66	3.1159	0.374
35.00	611.3	321.3	122.66	3.0857	0.374
35.50	611.7	321.6	122.65	3.0563	0.374
36.00	611.8	321.8	122.64	3.0278	0.374
36.50	612.0	321.9	122.65	3.0000	0.375
37.00	612.2	322.1	122.64	2.9730	0.375
37.50	612.3	322.3	122.64	2.9467	0.375
38.00	612.3	322.3	122.63	2.9211	0.375
38.50	612.6	322.5	122.63	2.8961	0.375
39.00	612.7	322.6	122.62	2.8718	0.375
39.50	613.0	322.9	122.61	2.8481	0.376
40.00	613.0	322.9	122.62	2.8250	0.376
40.50	613.1	323.0	122.61	2.8025	0.376
41.00	613.1	323.0	122.60	2.7805	0.376
41.50	613.3	323.2	122.59	2.7590	0.376
42.00	613.3	323.3	122.59	2.7381	0.376
42.50	613.4	323.4	122.58	2.7176	0.376
43.00	613.8	323.7	122.58	2.6977	0.377
43.50	613.8	323.7	122.57	2.6782	0.377
44.00	614.0	323.9	122.57	2.6591	0.377
44.50	614.1	324.0	122.57	2.6404	0.377

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10009 Biggerstaff 5-11 DST#3 Griggs Oil Inc.

DATE: 05/04/97 TIME: 00:10:28

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
45.00	614.1	324.0	122.57	2.6222	0.377
45.50	614.2	324.1	122.57	2.6044	0.377
46.00	614.3	324.2	122.56	2.5870	0.377
46.50	614.3	324.3	122.55	2.5699	0.377
47.00	614.5	324.5	122.54	2.5532	0.378
47.50	614.6	324.5	122.55	2.5368	0.378
48.00	614.7	324.6	122.54	2.5208	0.378
48.50	614.8	324.7	122.52	2.5052	0.378
49.00	615.0	325.0	122.53	2.4898	0.378
49.50	615.2	325.1	122.52	2.4747	0.378
50.00	615.4	325.3	122.53	2.4600	0.379
50.50	615.4	325.3	122.52	2.4455	0.379
51.00	615.5	325.5	122.52	2.4314	0.379
51.50	615.7	325.7	122.51	2.4175	0.379
52.00	615.7	325.7	122.50	2.4038	0.379
52.50	615.7	325.7	122.50	2.3905	0.379
53.00	615.9	325.9	122.50	2.3774	0.379
53.50	615.9	325.9	122.50	2.3645	0.379
54.00	615.9	325.9	122.49	2.3519	0.379
54.50	616.2	326.1	122.50	2.3394	0.380
55.00	616.2	326.1	122.49	2.3273	0.380
55.50	616.2	326.2	122.48	2.3153	0.380
56.00	616.2	326.2	122.48	2.3036	0.380
56.50	616.3	326.2	122.48	2.2920	0.380
57.00	616.4	326.3	122.47	2.2807	0.380
57.50	616.5	326.5	122.47	2.2696	0.380
58.00	616.5	326.5	122.46	2.2586	0.380
58.50	616.5	326.5	122.45	2.2479	0.380
59.00	616.6	326.5	122.46	2.2373	0.380
59.50	616.8	326.7	122.46	2.2269	0.380
60.00	616.9	326.8	122.45	2.2167	0.381
60.50	617.0	327.0	122.45	2.2066	0.381
61.00	617.0	327.0	122.44	2.1967	0.381
61.50	617.0	327.0	122.44	2.1870	0.381
62.00	617.1	327.0	122.43	2.1774	0.381
62.50	617.2	327.2	122.42	2.1680	0.381
63.00	617.3	327.2	122.43	2.1587	0.381
63.50	617.1	327.1	122.42	2.1496	0.381
64.00	617.4	327.4	122.41	2.1406	0.381
64.50	617.3	327.2	122.41	2.1318	0.381
65.00	617.4	327.4	122.42	2.1231	0.381
65.50	617.4	327.4	122.41	2.1145	0.381
66.00	617.6	327.6	122.40	2.1061	0.381
66.50	617.5	327.5	122.40	2.0977	0.381
67.00	617.8	327.7	122.40	2.0896	0.382
67.50	617.8	327.7	122.39	2.0815	0.382
68.00	617.7	327.6	122.39	2.0735	0.382
68.50	617.7	327.6	122.39	2.0657	0.382
69.00	618.0	327.9	122.39	2.0580	0.382
69.50	618.0	328.0	122.38	2.0504	0.382
70.00	618.3	328.2	122.38	2.0429	0.382

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10009 Biggerstaff 5-11 DST#3 Griggs Oil Inc.

DATE: 05/04/97 TIME: 00:10:28

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	70.50	618.3	328.2	122.38	2.0355	0.382
	71.00	618.3	328.3	122.37	2.0282	0.382
	71.50	618.4	328.4	122.37	2.0210	0.382
	72.00	618.4	328.4	122.37	2.0139	0.382
	72.50	618.4	328.4	122.37	2.0069	0.382
	73.00	618.3	328.3	122.36	2.0000	0.382
	73.50	618.3	328.3	122.36	1.9932	0.382
	74.00	618.3	328.3	122.36	1.9865	0.382
	74.50	618.5	328.5	122.36	1.9799	0.383
	75.00	618.4	328.3	122.35	1.9733	0.382
	75.50	618.6	328.5	122.35	1.9669	0.383
	76.00	618.6	328.5	122.34	1.9605	0.383
	76.50	618.6	328.5	122.34	1.9542	0.383
	77.00	618.5	328.5	122.34	1.9481	0.383
	77.50	618.7	328.6	122.33	1.9419	0.383
	78.00	618.7	328.6	122.33	1.9359	0.383
	78.50	618.7	328.6	122.32	1.9299	0.383
	79.00	618.7	328.6	122.32	1.9241	0.383
	79.50	618.7	328.6	122.32	1.9182	0.383
	80.00	618.9	328.9	122.32	1.9125	0.383
	80.50	618.9	328.9	122.32	1.9068	0.383
	81.00	618.8	328.8	122.31	1.9012	0.383
	81.50	619.0	329.0	122.31	1.8957	0.383
	82.00	619.0	329.0	122.31	1.8902	0.383
	82.50	619.0	329.0	122.30	1.8848	0.383
	83.00	619.0	329.0	122.30	1.8795	0.383
	83.50	619.0	329.0	122.30	1.8743	0.383
	84.00	619.0	329.0	122.29	1.8690	0.383
	84.50	619.0	329.0	122.30	1.8639	0.383
	85.00	619.2	329.1	122.30	1.8588	0.383
	85.50	619.2	329.1	122.29	1.8538	0.383
	86.00	619.2	329.1	122.28	1.8488	0.383
	86.50	619.2	329.1	122.29	1.8439	0.383
	87.00	619.3	329.3	122.29	1.8391	0.384
	87.50	619.3	329.3	122.28	1.8343	0.384
	88.00	619.3	329.2	122.28	1.8295	0.383
	88.50	619.3	329.2	122.29	1.8249	0.383
	89.00	619.4	329.4	122.28	1.8202	0.384
	89.50	619.4	329.4	122.28	1.8156	0.384
	90.00	619.3	329.3	122.27	1.8111	0.384
****** End Shut-in 2	90.50	619.3	329.3	122.27	1.8066	0.384
****** Final Hydro.	369.00	1906.2	0.0	122.19		

TEST HISTORY

10009 Biggerstaff 5-11 DST#3 Griggs Oil Inc.

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	1932.18
B:	0.00	132.60
C:	30.00	157.86
D:	58.50	617.45
E:	0.00	165.83
F:	43.00	290.05
G:	90.50	619.35
Q:	0.00	1906.24

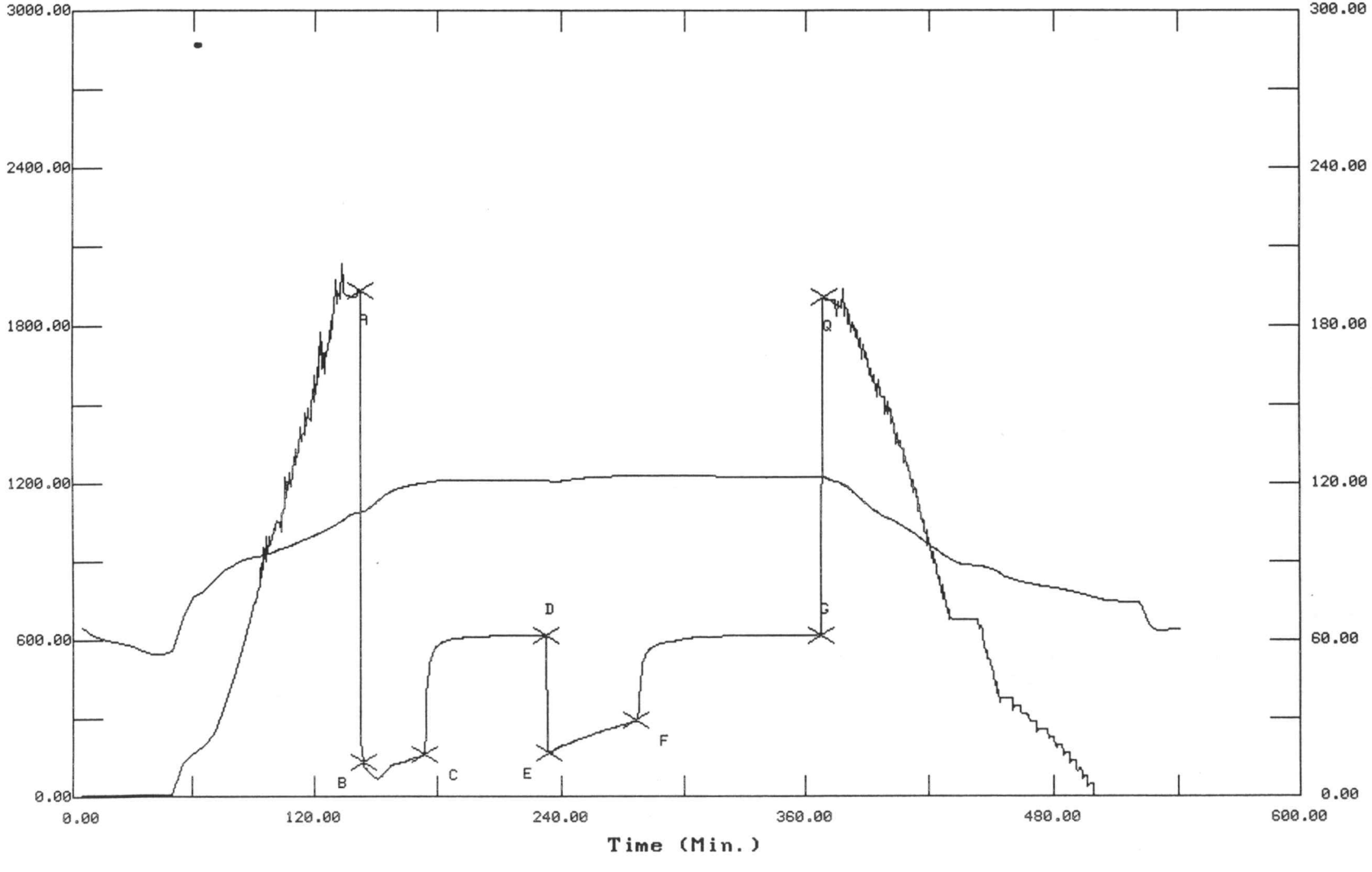
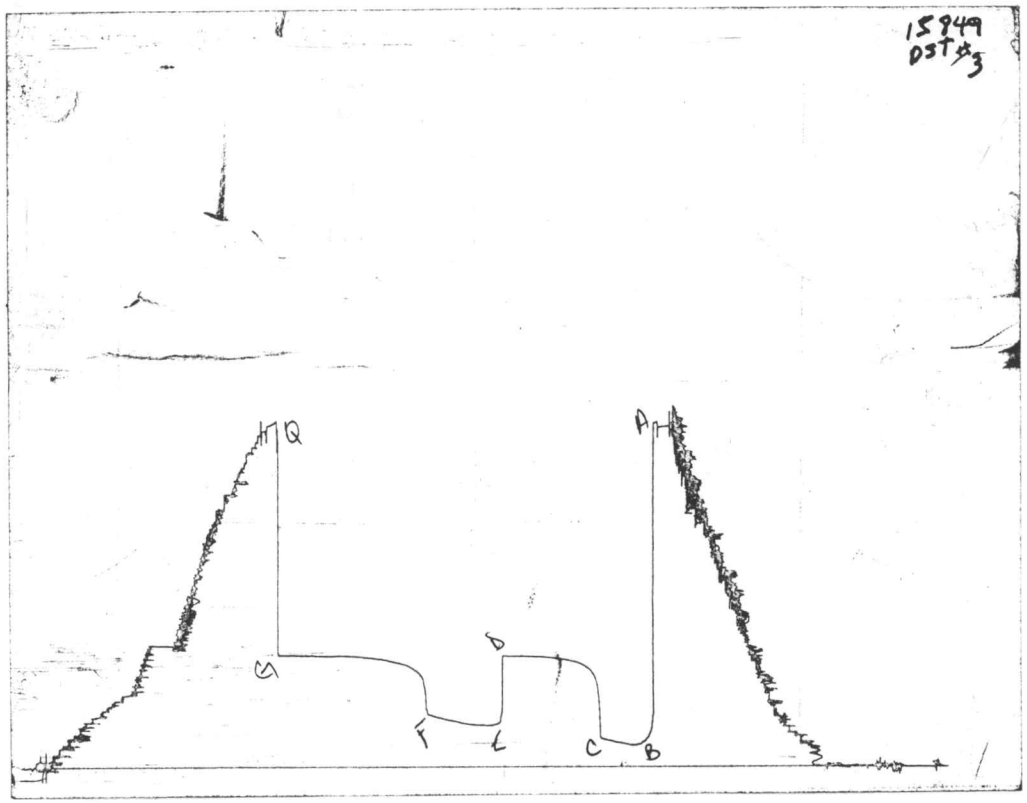


CHART PAGE



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