WELL NAME:	Griebel # 1
COMPANY:	Hinkle Oil Company
LOCATION:	Sec. 33 Twp. 6S Rge. 18W Rooks County Kansas
DATE:	02/04/97

TRILOBITE TESTING L.L.C.

OPERATOR : Hinkle Oil Company DATE 2/01/97
WELL NAME: Griebel #1 KB 2081.00 ft TICKET NO: 9778 DST #1
LOCATION : Sec.33 Twp.06s Rge.18w GR 2073.00 ft FORMATION: Topeka
INTERVAL : 3234.00 To 3250.00 ft TD 3250.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	10332	10332	3024		
SI 30	Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0
SF 3	Clock(hrs)	12hr.	12hr.	Elec.		
FS 0	Depth(ft)	3245.0	3245.0	3237.0	0.0	0.0

TIME DATA----------
PF Fr. 1944 to 2014 hr
IS Fr. 2014 to 1044 hr
SF Fr. 2044 to 2047 hr
FS Fr. to hr

	Field	1	2	3	4
A. Init Hydro	1690.0	1677.0	1623.0	0.0	0.0
B. First Flow	41.0	59.0	13.0	0.0	0.0
B1. Final Flow	51.0	45.0	18.0	0.0	0.0
C. In Shut-in	912.0	894.0	901.0	0.0	0.0
D. Init Flow	61.0	66.0	19.0	0.0	0.0
E. Final Flow	61.0	53.0	20.0	0.0	0.0
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0
G. Final Hydro	1651.0	1627.0	1594.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 1820 hr
T ON BOTM 1942 hr
T OPEN 1944 hr
T PULLED 2047 hr
T OUT 2200 hr

RECOVERY
Tot Fluid 20.00 ft of 0.00 ft in DC and 20.00 ft in DP
20.00 ft of Watery Mud 30% water 70% mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

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

Tool Wt.	1700.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	38000.00 lbs
Initial Str Wt	36000.00 lbs
Unseated Str Wt	36000.00 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	3247.00 ft

BLOW DESCRIPTION
Initial Flow:
Weak 1/8" blow died in 28 minutes

Initial Shut In:

Final Flow:
Opened tool; no blow; pulled tool
after 3 minutes

Final Shut In:

SAMPLES:
SENT TO:

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

Mud Type	Chemical
Weight	9.20 lb/c
Vis.	44.00 S/L
W.L.	10.00 in3
F.C.	0.00 in
Mud Drop	N
Amt. of fill	0.00 ft
Btm. H. Temp.	100.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Paul Simpson
Co. Rep.	Orvie Howell
Contr.	Duke
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Griebel #1

LOCATION : Sec.33 Twp.06s Rge.18w

TICKET No. 9778 D.S.T. No. 1 DATE 2/01/97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 16

TOTAL TOOL 36

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 36

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands52 Single Total 3247

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3283

TOTAL DEPTH 3250

TOTAL DRILL PIPE ABOVE K.B. 33

REMARKS:



P.O. SUB	
C.O. SUB Top of tool@	3215
S.I. TOOL H&T	3220
HMV Sterling	3225
JARS n/a	
SAFETY JOINT n/a	
PACKER Top	3229
PACKER Bottom	3234
DEPTH 3234	
STUBB	3235
ANCHOR 2'perf	3237
Alpine rec.@ 3237	
5' perfs.	3242
T.C.	
DEPTH	
5' perfs	3247
Ak-1 rec @ 3245	
BULLNOSE 3'bullnose	
T.D. to	3250

GAS RECOVERY

COMPANY: Hinkle Oil Company DATE: 2/01/97
WELL NAME: Griebel #1 KB Elev: 2081.00 ft TICKET #9778 DST #1
WELL LOCATION: Sec.33 Twp.06s Rge.18w GR Elev: 2073.00 ft FORMATION: Topeka
INTERVAL Fr.: 3234.00 To 3250.00 T.D.: 3250.00 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)
5	0.75	0	21	64000.0
10	0.75	0	15	55200.0
15	0.75	0	12	49300.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
2	0.75	0	80	127000.0
5	0.75	0	30	77800.0
10	0.75	0	14	53300.0
15	0.75	0	8	40000.0
20	0.75	0	6	34700.0
25	0.75	0	4	28300.0
30	0.75	0	4	28000.0
35	0.75	0	4	28300.0
40	0.75	0	3	24500.0
45	0.75	0	3	24500.0
50	0.75	0	3	24500.0
55	0.75	0	3	24500.0
60	0.75	0	3	24500.0

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9778 Hinkle Oil Co. #1 Griebel DST #1

DATE: 02/01/97 TIME: 17:47:51

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	116.00	1622.9	0.0	96.52		
***** Start Flow 1	0.00	13.5	0.0	96.70		
	1.00	14.1	0.6	96.75		
	2.00	255.6	242.2	96.81		
	3.00	52.5	39.1	96.90		
	4.00	186.4	173.0	96.96		
	5.00	211.4	197.9	97.05		
	6.00	103.1	89.7	97.14		
	7.00	64.1	50.6	97.22		
	8.00	426.6	413.2	97.27		
	9.00	298.3	284.9	97.32		
	10.00	292.7	279.2	97.37		
	11.00	34.5	21.0	97.40		
	12.00	15.3	1.8	97.45		
	13.00	15.4	2.0	97.48		
	14.00	15.3	1.9	97.54		
	15.00	15.4	1.9	97.65		
	16.00	15.5	2.1	97.77		
	17.00	15.6	2.1	97.91		
	18.00	15.7	2.2	98.07		
	19.00	15.9	2.4	98.20		
	20.00	16.1	2.6	98.33		
	21.00	16.3	2.8	98.47		
	22.00	16.4	3.0	98.59		
	23.00	16.6	3.2	98.71		
	24.00	16.8	3.4	98.84		
	25.00	17.2	3.7	98.96		
	26.00	17.3	3.8	99.08		
	27.00	17.5	4.1	99.18		
	28.00	17.7	4.2	99.30		
	29.00	18.0	4.5	99.45		
	30.00	18.2	4.7	99.60		
***** End Flow 1	31.00	18.4	4.9	99.74		
***** Start Shutin 1	0.00	18.4	0.0	99.74	0.0000	0.000
	1.00	48.9	30.5	99.89	32.0000	0.002
	2.00	431.3	412.9	100.03	16.5000	0.186
	3.00	626.9	608.5	100.14	11.3333	0.393
	4.00	691.1	672.7	100.21	8.7500	0.478
	5.00	727.6	709.2	100.27	7.2000	0.529
	6.00	753.3	734.9	100.29	6.1667	0.567
	7.00	773.2	754.8	100.29	5.4286	0.598
	8.00	789.3	770.9	100.27	4.8750	0.623
	9.00	802.8	784.4	100.25	4.4444	0.644
	10.00	814.2	795.8	100.22	4.1000	0.663
	11.00	824.2	805.8	100.17	3.8182	0.679
	12.00	832.8	814.4	100.14	3.5833	0.694
	13.00	840.5	822.1	100.11	3.3846	0.706
	14.00	847.4	829.0	100.07	3.2143	0.718
	15.00	853.5	835.1	100.03	3.0667	0.728
	16.00	859.1	840.7	100.00	2.9375	0.738
	17.00	864.1	845.7	99.97	2.8235	0.747

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9778 Hinkle Oil Co. #1 Griebel DST #1

DATE: 02/01/97 TIME: 17:47:51

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	18.00	868.7	850.3	99.94	2.7222	0.755
	19.00	872.9	854.5	99.93	2.6316	0.762
	20.00	876.8	858.4	99.91	2.5500	0.769
	21.00	880.3	861.9	99.89	2.4762	0.775
	22.00	883.6	865.2	99.86	2.4091	0.781
	23.00	886.6	868.3	99.85	2.3478	0.786
	24.00	889.5	871.1	99.82	2.2917	0.791
	25.00	892.1	873.7	99.81	2.2400	0.796
	26.00	894.6	876.2	99.80	2.1923	0.800
	27.00	896.9	878.5	99.79	2.1481	0.804
	28.00	899.1	880.7	99.78	2.1071	0.808
****** End Shut-in 1	29.00	901.1	882.7	99.77	2.0690	0.812
****** Start Flow 2	0.00	19.0	0.0	99.78		
	1.00	19.3	0.3	99.78		
****** End Flow 2	2.00	19.6	0.6	99.82		
****** Start Shutin 2	0.00	19.6	0.0	99.82	0.0000	0.000
****** End Shut-in 2	1.00	1599.1	1579.5	99.89	34.0000	2.557
****** Final Hydro.	181.00	1599.1	0.0	99.89		

TEST HISTORY

9778 Hinkle Oil Co. #1 Griebel DST #1

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	1622.87
B:	0.00	13.46
C:	31.00	18.39
D:	29.00	901.11
E:	0.00	19.03
F:	2.00	19.61
Q:	0.00	1599.10

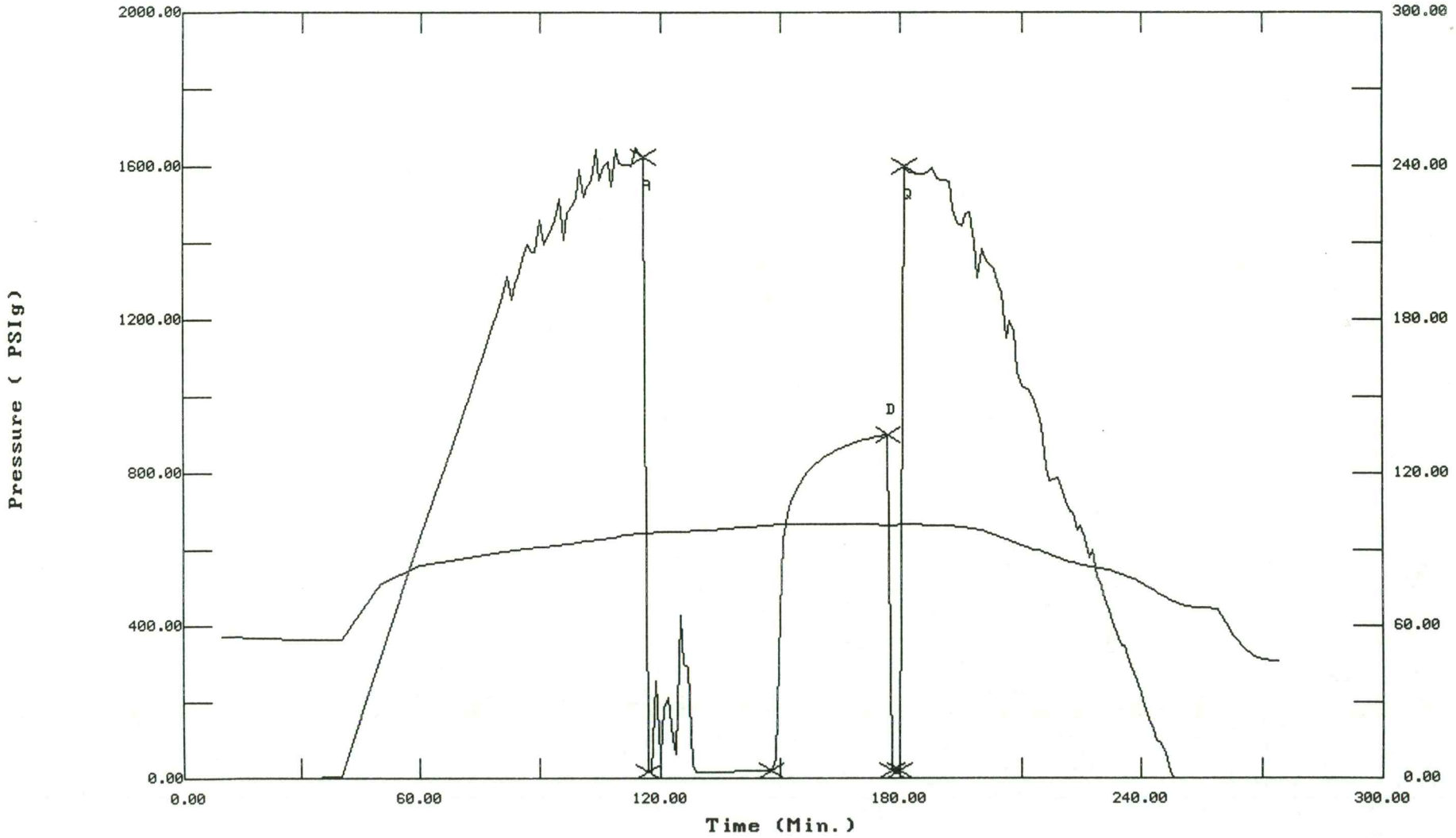
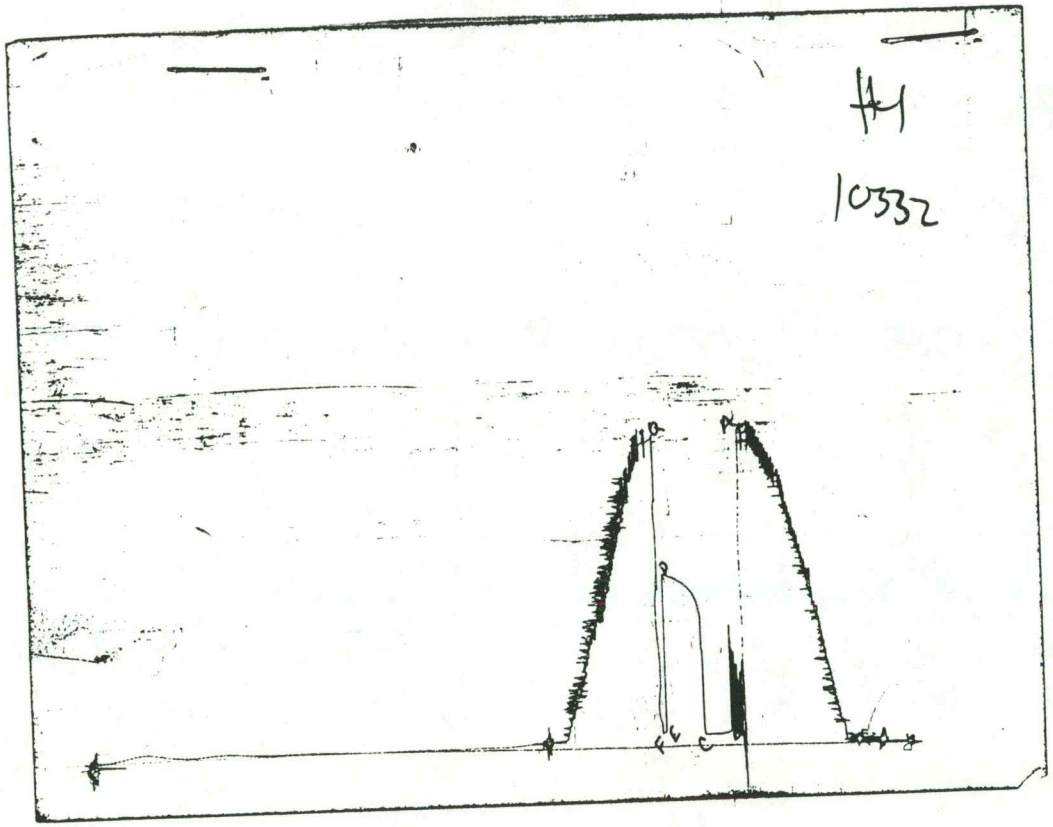


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No. 9778

Well Name & No. Griebel #1 Test No. 1 Date 2-1-97

Company Hinkle Oil Company Zone Tested Topeka

Address 150 N Main #1016 Wichita Ks 67202 Elevation ____ KB 2074 GL

Co. Rep / Geo. Ossie Howell Cont. Duke #1 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 33 Twp. 6S Rge. 19W Co. Rooks State Ks

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

Interval Tested 3234-3250

Anchor Length 16

Top Packer Depth 3229

Bottom Packer Depth 3234

Total Depth 3250

Mud Wt. 9.2 LCM ____ Vis. 44 WL 10.0

Blow Description weak 1/8" blow decreasing & died in 28 minutes

FS- opened tool - no blow - pulled tool

Initial Str Wt./Lbs. 36,000 Unseated Str Wt./Lbs. 36,000

Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 38,000

Tool Weight 1700

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

Wt. Pipe Run ~ Drill Collar Run —

Drill Pipe Size 4½ XH Ft. Run 3247

Recovery — Total Feet 20 GIP ____ Ft. in DC ____ Ft. in DP ____

Rec. 20	Feet Of mud	‰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
Rec. ____	Feet Of ____	‰gas	‰oil	‰water	‰mud

BHT 100 °F Gravity ____ °API D@ ____ °F Corrected Gravity ____ °API

RW ____ @ ____ °F Chlorides ____ ppm Recovery Chlorides ____ ppm System

(A) Initial Hydrostatic Mud	1690	1623	PSI	Recorder No. 3024	T-Started 1820
(B) First Initial Flow Pressure	411	13	PSI	(depth) 3237	T-Open 1944
(C) First Final Flow Pressure	51	18	PSI	Recorder No. 10332	T-Pulled 2047
(D) Initial Shut-in Pressure	912	901	PSI	(depth) 3245	T-Out 2200
(E) Second Initial Flow Pressure	61	19	PSI	Recorder No. ____	
(F) Second Final Flow Pressure	61	20	PSI	(depth) ____	
(G) Final Shut-in Pressure	—	—	PSI	Initial Opening 30	Test 600
(H) Final Hydrostatic Mud	1651	1594	PSI	Initial Shut-in 30	Jars ____
	Ak-1	Alpine		Final Flow 3	Safety Joint ____
				Final Shut-in ____	Straddle ____
				____	Circ. Sub ____
				52 stands	Sampler ____
					Extra Packer ____
					Elect. Rec. X 150
					Other ____
					TOTAL PRICE $ 750

(4)

TRILOBIITE 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 ____

Our Representative Paul Simpson

TRILOBITE TESTING L.L.C.

OPERATOR : Hinkle Oil Company — DATE 2/02/97
WELL NAME: Griebel #1 — KB 2081.00 ft — TICKET NO: 9779 — DST #2
LOCATION : Sec.33 Twp.06s Rge.18w — GR 2073.00 ft — FORMATION: Toronto/ Lansing A
INTERVAL : 3268.00 To 3350.00 ft — TD 3350.00 ft — TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	10332	10332	3024		
SI 36	Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0
SF 3	Clock(hrs)	12hr.	12hr.	Elec.		
FS 0	Depth(ft)	3345.0	3345.0	3273.0	0.0	0.0

TIME DATA----------
PF Fr. 8845 to 0915 hr
IS Fr. 0915 to 0951 hr
SF Fr. to hr
FS Fr. to hr

	Field	1	2	3	4
A. Init Hydro	1722.0	1710.0	1627.0	0.0	0.0
B. First Flow	51.0	77.0	14.0	0.0	0.0
B1. Final Flow	51.0	632.0	19.0	0.0	0.0
C. In Shut-in	862.0	856.0	842.0	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	1692.0	1671.0	1619.0	0.0	0.0
Inside/Outside		O	O	I	

T STARTED 0742 hr
T ON BOTM 1842 hr
T OPEN 0845 hr
T PULLED 0951 hr
T OUT 1050 hr

RECOVERY
Tot Fluid 8.00 ft of 0.00 ft in DC and 8.00 ft in DP
8.00 ft of Mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

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

Tool Wt.	2400.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	43000.00 lbs
Initial Str Wt	37000.00 lbs
Unseated Str Wt	37000.00 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	3279.00 ft

BLOW DESCRIPTION
Initial Flow:
Weak 1/8" blow died in 20 minutes

Final Flow:
none taken

SAMPLES:
SENT TO:

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

Mud Type	Chemical
Weight	9.30 lb/c
Vis.	46.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop	N
Amt. of fill	0.00 ft
Btm. H. Temp.	96.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Paul Simpson
Co. Rep.	Orvie Howell
Contr.	Duke
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Griebel #1

LOCATION : Sec.33 Twp.06s Rge.18w

TICKET No. 9779 D.S.T. No. 2 DATE 2/02/97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 20

TOTAL TOOL 40

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single Total 62

TOTAL ASSEMBLY 102

D.C. ABOVE TOOLS.Stands Single Total

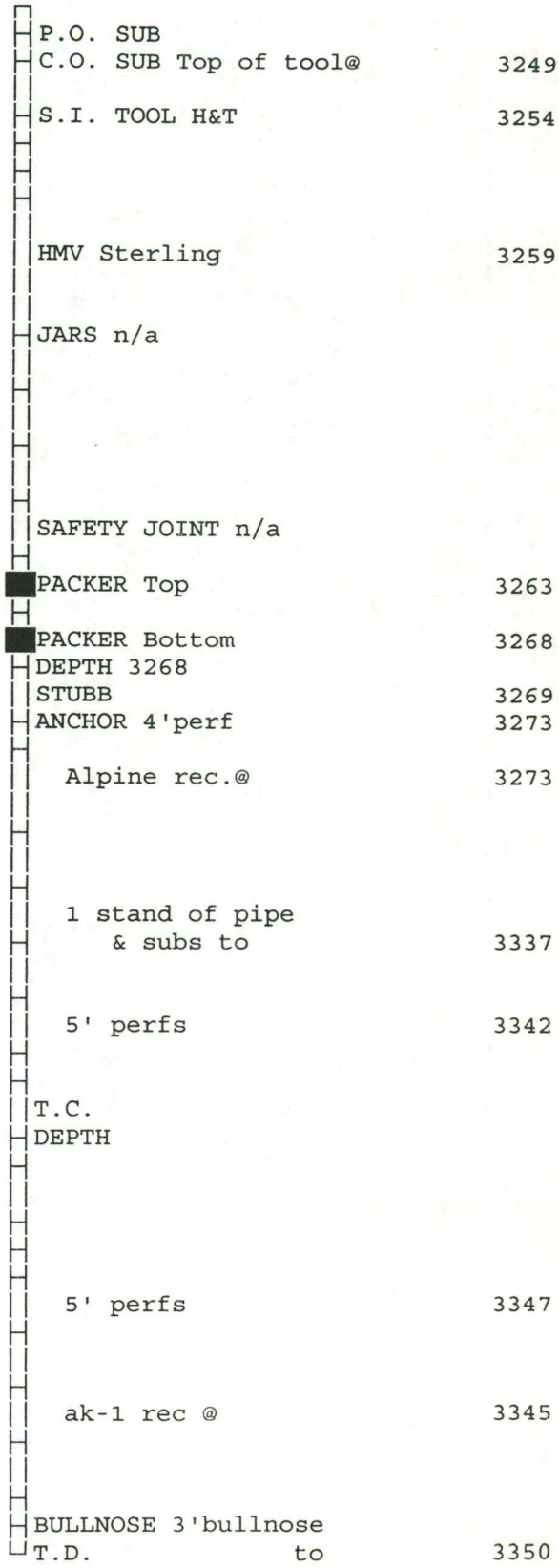
D.P. ABOVE TOOLS.Stands52 Single 1 Total 3279

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3381

TOTAL DEPTH 3350

TOTAL DRILL PIPE ABOVE K.B. 31

REMARKS:



GAS RECOVERY

COMPANY: Hinkle Oil Company DATE: 2/02/97
WELL NAME: Griebel #1 KB Elev: 2081.00 ft TICKET #9779 DST #2
WELL LOCATION: Sec.33 Twp.06s Rge.18w GR Elev: 2073.00 ft FORMATION: Toronto/ Lansing A
INTERVAL Fr.: 3268.00 To 3350.00 T.D.: 3350.00 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)
5	0.75	0	21	64000.0
10	0.75	0	15	55200.0
15	0.75	0	12	49300.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
2	0.75	0	80	127000.0
5	0.75	0	30	77800.0
10	0.75	0	14	53300.0
15	0.75	0	8	40000.0
20	0.75	0	6	34700.0
25	0.75	0	4	28300.0
30	0.75	0	4	28000.0
35	0.75	0	4	28300.0
40	0.75	0	3	24500.0
45	0.75	0	3	24500.0
50	0.75	0	3	24500.0
55	0.75	0	3	24500.0
60	0.75	0	3	24500.0

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9779 Hinkle Oil Co. Griebel #1 DST #2

DATE: 02/02/97 TIME: 07:20:08

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	84.00	1626.8	0.0	94.71		
****** Start Flow 1	0.00	13.9	0.0	94.81		
	1.00	14.2	0.3	94.83		
	2.00	14.4	0.5	94.81		
	3.00	14.6	0.7	94.78		
	4.00	14.8	0.9	94.76		
	5.00	15.0	1.0	94.74		
	6.00	15.1	1.1	94.72		
	7.00	15.2	1.3	94.71		
	8.00	15.3	1.4	94.71		
	9.00	15.4	1.5	94.71		
	10.00	15.5	1.5	94.73		
	11.00	15.6	1.6	94.72		
	12.00	16.0	2.1	94.73		
	13.00	16.1	2.2	94.74		
	14.00	16.3	2.3	94.77		
	15.00	16.5	2.5	94.78		
	16.00	16.6	2.7	94.80		
	17.00	16.8	2.9	94.83		
	18.00	17.0	3.1	94.84		
	19.00	17.2	3.2	94.87		
	20.00	17.3	3.4	94.89		
	21.00	17.4	3.5	94.92		
	22.00	17.5	3.6	94.95		
	23.00	17.6	3.7	94.98		
	24.00	17.7	3.8	95.00		
	25.00	17.8	3.9	95.03		
	26.00	17.9	3.9	95.06		
	27.00	17.9	4.0	95.08		
	28.00	18.0	4.1	95.11		
	29.00	18.4	4.4	95.14		
	30.00	18.6	4.6	95.18		
	31.00	18.7	4.8	95.20		
	32.00	18.8	4.9	95.23		
	33.00	19.0	5.1	95.26		
****** End Flow 1	34.00	19.2	5.2	95.29		
****** Start Shutin 1	0.00	19.2	0.0	95.29	0.0000	0.000
	1.00	28.7	9.6	95.33	35.0000	0.001
	2.00	70.9	51.7	95.35	18.0000	0.005
	3.00	152.7	133.5	95.38	12.3333	0.023
	4.00	249.7	230.5	95.42	9.5000	0.062
	5.00	336.1	316.9	95.45	7.8000	0.113
	6.00	409.8	390.6	95.49	6.6667	0.168
	7.00	470.3	451.2	95.54	5.8571	0.221
	8.00	520.4	501.2	95.58	5.2500	0.271
	9.00	562.0	542.8	95.63	4.7778	0.316
	10.00	596.9	577.7	95.67	4.4000	0.356
	11.00	626.5	607.3	95.71	4.0909	0.392
	12.00	651.7	632.5	95.75	3.8333	0.425
	13.00	673.4	654.2	95.78	3.6154	0.453
	14.00	692.4	673.2	95.82	3.4286	0.479

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9779 Hinkle Oil Co. Griebel #1 DST #2

DATE: 02/02/97 TIME: 07:20:08

		Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
		15.00	709.0	689.8	95.86	3.2667	0.503
		16.00	723.6	704.5	95.90	3.1250	0.524
		17.00	736.6	717.5	95.93	3.0000	0.543
		18.00	748.3	729.1	95.96	2.8889	0.560
		19.00	758.7	739.5	96.00	2.7895	0.576
		20.00	768.1	748.9	96.03	2.7000	0.590
		21.00	776.7	757.5	96.06	2.6190	0.603
		22.00	784.5	765.3	96.09	2.5455	0.615
		23.00	791.6	772.4	96.12	2.4783	0.627
		24.00	798.1	778.9	96.16	2.4167	0.637
		25.00	804.2	785.0	96.18	2.3600	0.647
		26.00	809.7	790.5	96.22	2.3077	0.656
		27.00	814.9	795.7	96.24	2.2593	0.664
		28.00	819.6	800.4	96.27	2.2143	0.672
		29.00	824.1	804.9	96.30	2.1724	0.679
		30.00	828.2	809.0	96.33	2.1333	0.686
		31.00	832.1	812.9	96.35	2.0968	0.692
		32.00	835.7	816.5	96.39	2.0625	0.698
		33.00	839.1	819.9	96.41	2.0303	0.704
******	End Shut-in 1	34.00	842.3	823.1	96.43	2.0000	0.709
******	Final Hydro.	154.00	1618.6	0.0	96.45		

TEST HISTORY

9779 Hinkle Oil Co. Griebel #1 DST #2

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	1626.78
B:	0.00	13.94
C:	34.00	19.19
D:	34.00	842.29
Q:	0.00	1618.63

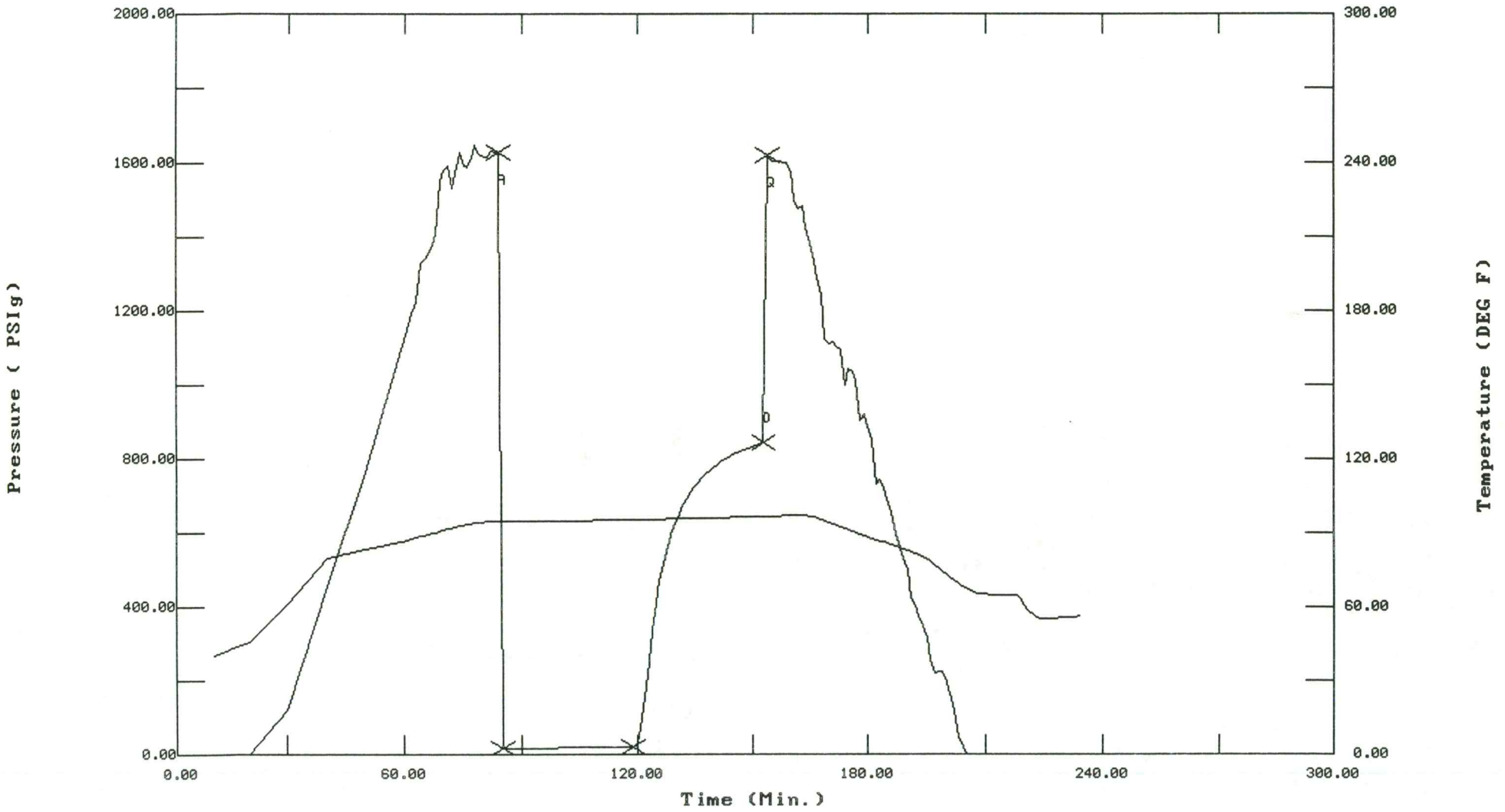
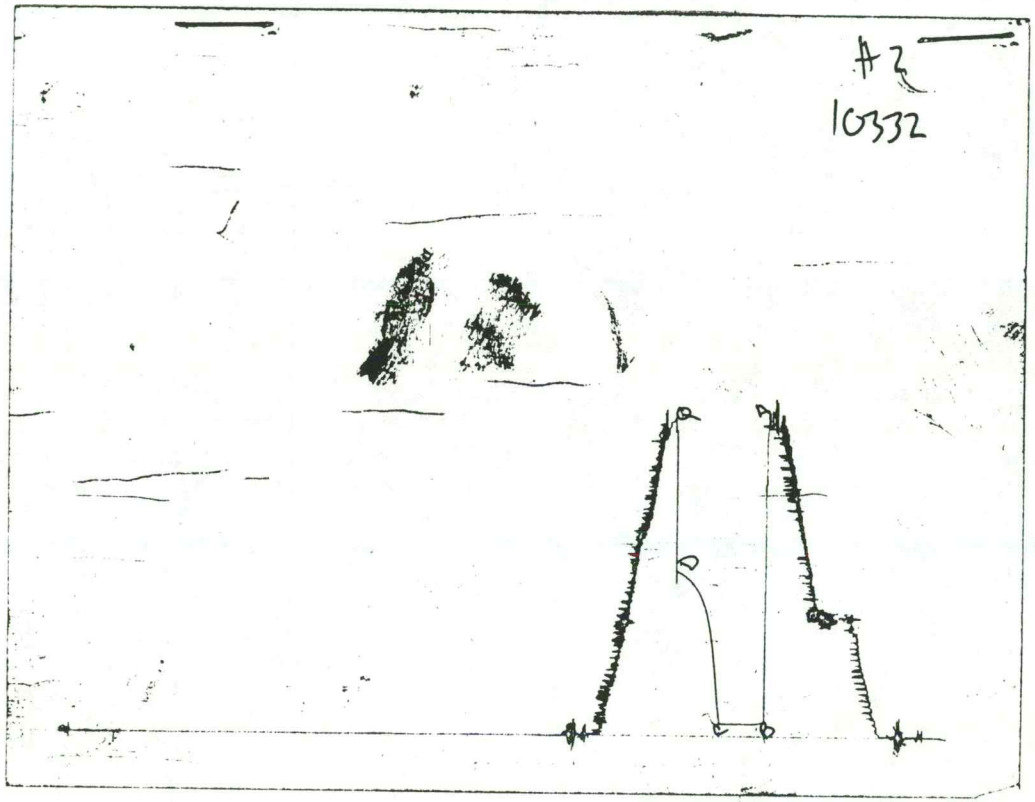


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 9779

Well Name & No. Griebel #1 Test No. 2 Date 2-2-96

Company Hinkle Oil Company Zone Tested Toronto

Address 150 N Main #1016 Wichita Ks 67202 Elevation 2081 KB 2073 GL

Co. Rep / Geo. Orvie Howell Cont. Duke #1 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 33 Twp. 6s Rge. 19w Co. Rooks State Ks

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

Interval Tested 3268 - 3350 Initial Str Wt./Lbs. 37,000 Unseated Str Wt./Lbs. 37,000

Anchor Length 82 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 43,000

Top Packer Depth 3263 Tool Weight 2400

Bottom Packer Depth 3268 Hole Size — 7 7/8" — Rubber Size — 6 3/4" —

Total Depth 3350 Wt. Pipe Run ____ Drill Collar Run ____

Mud Wt. 9.3 LCM ____ Vis. 46 WL 8.8 Drill Pipe Size 4½ XH Ft. Run 3279

Blow Description 1/8" blow decreasing r died in 20 minutes

FF none taken

Recovery — Total Feet 8 GIP ____ Ft. in DC ____ Ft. in DP ____

Rec. 8	Feet Of Mud	%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
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud

BHT 96 °F Gravity ____ °API D@ ____ °F Corrected Gravity ____ °API

RW ____ @ ____ °F Chlorides ____ ppm Recovery Chlorides ____ ppm System

(A) Initial Hydrostatic Mud	1722	1627	PSI	Recorder No. 3024	T-Started 0742
(B) First Initial Flow Pressure	51	14	PSI	(depth) 3273	T-Open 0845
(C) First Final Flow Pressure	51	19	PSI	Recorder No. 10332	T-Pulled 0951
(D) Initial Shut-in Pressure	862	842	PSI	(depth) 3345	T-Out 1050
(E) Second Initial Flow Pressure	[illegible]		PSI	Recorder No. ____	
(F) Second Final Flow Pressure	____		PSI	(depth) ____	
(G) Final Shut-in Pressure	____		PSI	Initial Opening 30	Test 600
(H) Final Hydrostatic Mud	1692	1619	PSI	Initial Shut-in 30	Jars ____
	Ak-1	Alpine		Final Flow 1 fig	Safety Joint ____
				Final Shut-in Work	Straddle ____
				6 minutes	Circ. Sub ____
				52.5 stands	Sampler ____
					Extra Packer ____
					Elect. Rec. X 150
					Other ____
					TOTAL PRICE $ 750

TRILOBIITE 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 Orvie Howell

Our Representative Paul Simpson

TRILOBITE TESTING L.L.C.

OPERATOR : Hinkle Oil Company DATE 2/02/97
WELL NAME: Griebel #1 KB 2081.00 ft TICKET NO: 9780 DST #3
LOCATION : Sec.33 Twp.06s Rge.18w GR 2073.00 ft FORMATION: Lansing H-K
INTERVAL : 3372.00 To 3490.00 ft TD 3490.00 ft TEST TYPE: CONV

RECORDER DATA

Mins			Field	1	2	3	4
PF	60	Rec.	10332	10332	3024		
SI	60	Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0
SF	60	Clock(hrs)	12hr.	12hr.	Elec		
FS	60	Depth(ft)	3485.0	3485.0	3378.0	0.0	0.0

TIME DATA----------
PF Fr. 0008 to 0108 hr
IS Fr. 0108 to 0208 hr
SF Fr. 0208 to 0308 hr
FS Fr. 0308 to 0408 hr

	Field	1	2	3	4
A. Init Hydro	1784.0	1780.0	1682.0	0.0	0.0
B. First Flow	91.0	95.0	15.0	0.0	0.0
B1. Final Flow	101.0	95.0	34.0	0.0	0.0
C. In Shut-in	1085.0	1076.0	1038.0	0.0	0.0
D. Init Flow	111.0	115.0	37.0	0.0	0.0
E. Final Flow	132.0	117.0	52.0	0.0	0.0
F. Fl Shut-in	1065.0	1072.0	1025.0	0.0	0.0
G. Final Hydro	1774.0	1772.0	1658.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 2300 hr
T ON BOTM 0006 hr
T OPEN 0008 hr
T PULLED 0408 hr
T OUT 0513 hr

RECOVERY
Tot Fluid 80.00 ft of 0.00 ft in DC and 80.00 ft in DP
1.00 ft of Clean Oil
0.00 ft of
79.00 ft of Oil specked Muddy Water trace oil
0.00 ft of 60% water 40% mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of Rw .38 @ 39 F
SALINITY 38000.00 P.P.M. A.P.I. Gravity 0.00

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

Tool Wt.	2900.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	45000.00 lbs
Initial Str Wt	38000.00 lbs
Unseated Str Wt	38000.00 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	3371.00 ft

BLOW DESCRIPTION
Initial Flow:
Weak 1/2" blow building to 1 1/4"

Initial Shut In:

Final Flow:
1/8" blow building to 1 1/2"

Final Shut In:

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

Mud Type	Chemical
Weight	9.20 lb/c
Vis.	43.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop	N
Amt. of fill	0.00 ft
Btm. H. Temp.	103.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Paul Simpson
Co. Rep.	Orvie Howell
Contr.	Duke
Rig #	1
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Griebel #1

LOCATION : Sec.33 Twp.06s Rge.18w

TICKET No. 9780 D.S.T. No. 3 DATE 2/02/97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 24

TOTAL TOOL 44

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single 1 Total 93

TOTAL ASSEMBLY 137

D.C. ABOVE TOOLS.Stands Single Total

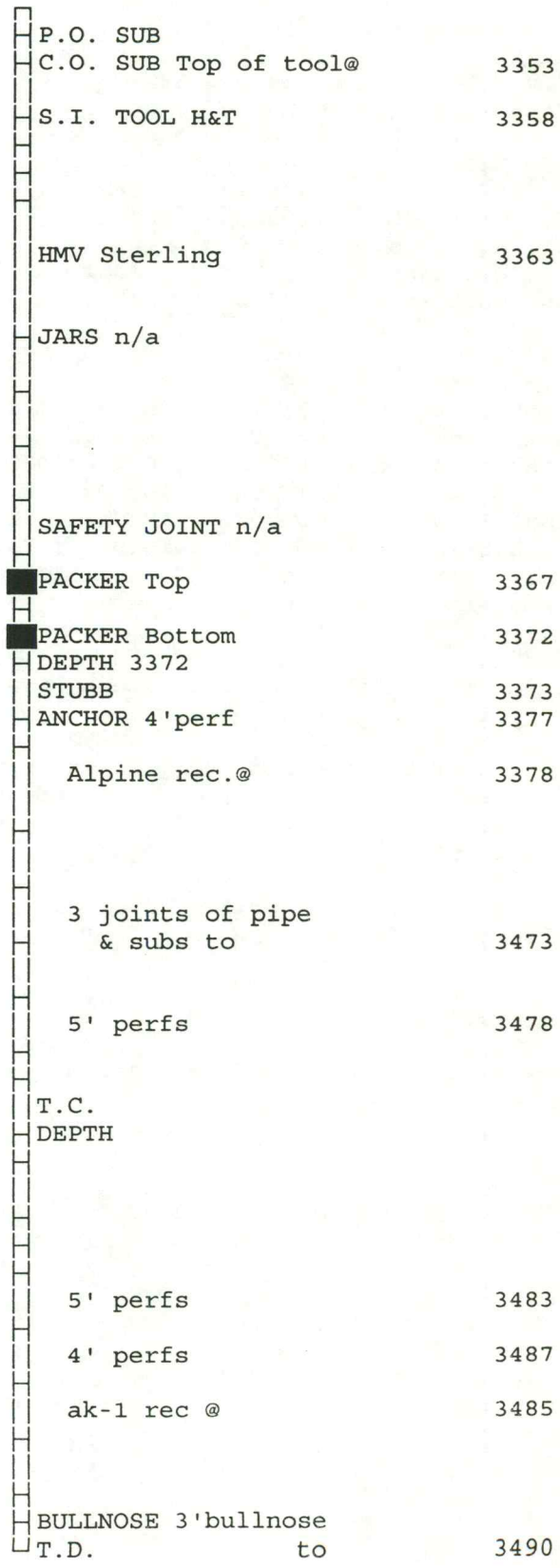
D.P. ABOVE TOOLS.Stands54 Single Total 3371

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3508

TOTAL DEPTH 3490

TOTAL DRILL PIPE ABOVE K.B. 18

REMARKS:



GAS RECOVERY

COMPANY: Hinkle Oil Company DATE: 2/02/97
WELL NAME: Griebel #1 KB Elev: 2081.00 ft TICKET #9780 DST #3
WELL LOCATION: Sec.33 Twp.06s Rge.18w GR Elev: 2073.00 ft FORMATION: Lansing H-K
INTERVAL Fr.: 3372.00 To 3490.00 T.D.: 3490.00 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)
5	0.75	0	21	64000.0
10	0.75	0	15	55200.0
15	0.75	0	12	49300.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
2	0.75	0	80	127000.0
5	0.75	0	30	77800.0
10	0.75	0	14	53300.0
15	0.75	0	8	40000.0
20	0.75	0	6	34700.0
25	0.75	0	4	28300.0
30	0.75	0	4	28000.0
35	0.75	0	4	28300.0
40	0.75	0	3	24500.0
45	0.75	0	3	24500.0
50	0.75	0	3	24500.0
55	0.75	0	3	24500.0
60	0.75	0	3	24500.0

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9780 Hinkle Oil Co. Greibel #1 DST #3

DATE: 02/02/97 TIME: 22:26:58

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	101.00	1681.8	0.0	96.67		
****** Start Flow 1	0.00	14.8	0.0	96.80		
	1.00	15.8	1.0	96.83		
	2.00	16.5	1.7	96.83		
	3.00	17.0	2.2	96.82		
	4.00	17.5	2.8	96.80		
	5.00	18.1	3.3	96.79		
	6.00	18.5	3.8	96.78		
	7.00	19.0	4.2	96.77		
	8.00	19.5	4.7	96.77		
	9.00	19.9	5.1	96.78		
	10.00	20.4	5.6	96.79		
	11.00	20.7	5.9	96.79		
	12.00	21.1	6.3	96.81		
	13.00	21.5	6.7	96.82		
	14.00	21.8	7.0	96.84		
	15.00	22.3	7.5	96.87		
	16.00	23.1	8.3	96.89		
	17.00	23.1	8.3	96.91		
	18.00	23.4	8.6	96.93		
	19.00	23.2	8.4	96.96		
	20.00	23.3	8.5	96.98		
	21.00	23.9	9.1	97.02		
	22.00	25.0	10.2	97.05		
	23.00	25.7	10.9	97.08		
	24.00	26.2	11.5	97.11		
	25.00	26.6	11.8	97.14		
	26.00	26.5	11.7	97.17		
	27.00	26.8	12.0	97.21		
	28.00	26.7	12.0	97.24		
	29.00	26.4	11.7	97.27		
	30.00	26.6	11.8	97.31		
	31.00	26.7	11.9	97.34		
	32.00	26.8	12.0	97.37		
	33.00	27.0	12.2	97.41		
	34.00	27.4	12.6	97.45		
	35.00	27.8	13.0	97.48		
	36.00	28.2	13.4	97.51		
	37.00	28.4	13.7	97.55		
	38.00	28.7	13.9	97.59		
	39.00	29.0	14.2	97.64		
	40.00	29.3	14.5	97.67		
	41.00	29.5	14.7	97.73		
	42.00	29.7	14.9	97.76		
	43.00	30.0	15.2	97.80		
	44.00	30.4	15.6	97.85		
	45.00	30.8	16.0	97.88		
	46.00	31.0	16.2	97.93		
	47.00	31.2	16.4	97.97		
	48.00	31.4	16.6	98.02		
	49.00	31.7	16.9	98.05		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9780 Hinkle Oil Co. Greibel #1 DST #3

DATE: 02/02/97 TIME: 22:26:58

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	50.00	31.9	17.2	98.10		
	51.00	32.1	17.4	98.14		
	52.00	32.4	17.6	98.17		
	53.00	32.6	17.8	98.22		
	54.00	32.9	18.1	98.26		
	55.00	33.2	18.4	98.29		
	56.00	33.5	18.7	98.34		
	57.00	33.7	18.9	98.39		
	58.00	33.9	19.1	98.44		
	59.00	34.2	19.4	98.47		
****** End Flow 1	60.00	34.4	19.6	98.52		
****** Start Shutin 1	0.00	34.4	0.0	98.52	0.0000	0.001
	1.00	38.5	4.0	98.57	61.0000	0.001
	2.00	74.4	39.9	98.60	31.0000	0.006
	3.00	154.4	119.9	98.66	21.0000	0.024
	4.00	283.1	248.7	98.70	16.0000	0.080
	5.00	414.1	379.7	98.75	13.0000	0.172
	6.00	523.0	488.6	98.80	11.0000	0.274
	7.00	608.8	574.4	98.86	9.5714	0.371
	8.00	676.4	642.0	98.93	8.5000	0.458
	9.00	730.7	696.2	98.99	7.6667	0.534
	10.00	774.0	739.5	99.04	7.0000	0.599
	11.00	809.3	774.9	99.10	6.4545	0.655
	12.00	838.5	804.0	99.15	6.0000	0.703
	13.00	863.4	829.0	99.21	5.6154	0.745
	14.00	884.4	850.0	99.26	5.2857	0.782
	15.00	902.1	867.7	99.30	5.0000	0.814
	16.00	917.3	882.9	99.35	4.7500	0.841
	17.00	930.2	895.8	99.38	4.5294	0.865
	18.00	941.4	907.0	99.42	4.3333	0.886
	19.00	951.1	916.7	99.45	4.1579	0.905
	20.00	959.5	925.1	99.49	4.0000	0.921
	21.00	966.8	932.4	99.53	3.8571	0.935
	22.00	973.2	938.8	99.57	3.7273	0.947
	23.00	978.9	944.4	99.61	3.6087	0.958
	24.00	983.8	949.4	99.64	3.5000	0.968
	25.00	988.2	953.8	99.67	3.4000	0.977
	26.00	992.2	957.8	99.70	3.3077	0.984
	27.00	995.8	961.3	99.73	3.2222	0.992
	28.00	999.0	964.6	99.76	3.1429	0.998
	29.00	1001.9	967.5	99.79	3.0690	1.004
	30.00	1004.6	970.2	99.82	3.0000	1.009
	31.00	1007.2	972.7	99.86	2.9355	1.014
	32.00	1009.5	975.1	99.88	2.8750	1.019
	33.00	1011.7	977.2	99.91	2.8182	1.023
	34.00	1013.6	979.2	99.94	2.7647	1.027
	35.00	1015.5	981.0	99.97	2.7143	1.031
	36.00	1017.2	982.7	100.0	2.6667	1.035
	37.00	1018.7	984.3	100.02	2.6216	1.038
	38.00	1020.2	985.8	100.05	2.5789	1.041
	39.00	1021.6	987.1	100.08	2.5385	1.044

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9780 Hinkle Oil Co. Greibel #1 DST #3

DATE: 02/02/97 TIME: 22:26:58

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	40.00	1022.9	988.4	100.10	2.5000	1.046
	41.00	1024.1	989.7	100.13	2.4634	1.049
	42.00	1025.2	990.8	100.16	2.4286	1.051
	43.00	1026.3	991.9	100.18	2.3953	1.053
	44.00	1027.4	992.9	100.21	2.3636	1.055
	45.00	1028.4	993.9	100.23	2.3333	1.058
	46.00	1029.3	994.9	100.25	2.3043	1.059
	47.00	1030.2	995.8	100.28	2.2766	1.061
	48.00	1031.0	996.6	100.31	2.2500	1.063
	49.00	1031.8	997.4	100.33	2.2245	1.065
	50.00	1032.6	998.2	100.35	2.2000	1.066
	51.00	1033.4	998.9	100.38	2.1765	1.068
	52.00	1034.1	999.6	100.39	2.1538	1.069
	53.00	1034.7	1000.3	100.42	2.1321	1.071
	54.00	1035.4	1000.9	100.44	2.1111	1.072
	55.00	1036.0	1001.6	100.46	2.0909	1.073
	56.00	1036.6	1002.2	100.48	2.0714	1.075
	57.00	1037.2	1002.7	100.50	2.0526	1.076
	58.00	1037.7	1003.3	100.52	2.0345	1.077
****** End Shut-in 1	59.00	1038.3	1003.8	100.55	2.0169	1.078
****** Start Flow 2	0.00	36.9	0.0	100.58		
	1.00	36.9	0.1	100.57		
	2.00	37.1	0.2	100.56		
	3.00	37.0	0.2	100.54		
	4.00	37.2	0.3	100.52		
	5.00	37.3	0.4	100.51		
	6.00	37.5	0.6	100.52		
	7.00	37.7	0.8	100.53		
	8.00	38.0	1.1	100.53		
	9.00	38.3	1.5	100.54		
	10.00	38.6	1.7	100.56		
	11.00	38.9	2.1	100.58		
	12.00	39.2	2.4	100.59		
	13.00	39.7	2.8	100.61		
	14.00	39.8	2.9	100.63		
	15.00	40.1	3.3	100.65		
	16.00	40.4	3.5	100.68		
	17.00	40.8	3.9	100.70		
	18.00	41.2	4.3	100.72		
	19.00	41.6	4.8	100.75		
	20.00	41.9	5.1	100.77		
	21.00	42.2	5.4	100.80		
	22.00	42.6	5.7	100.83		
	23.00	42.8	6.0	100.85		
	24.00	43.2	6.3	100.88		
	25.00	43.4	6.6	100.91		
	26.00	43.7	6.8	100.94		
	27.00	44.0	7.1	100.98		
	28.00	44.2	7.4	101.00		
	29.00	44.5	7.7	101.03		
	30.00	44.8	8.0	101.05		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9780 Hinkle Oil Co. Greibel #1 DST #3

DATE: 02/02/97 TIME: 22:26:58

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	31.00	45.1	8.3	101.08		
	32.00	45.4	8.5	101.11		
	33.00	45.6	8.8	101.14		
	34.00	45.9	9.0	101.16		
	35.00	46.1	9.3	101.20		
	36.00	46.4	9.5	101.22		
	37.00	46.6	9.8	101.26		
	38.00	46.9	10.0	101.28		
	39.00	47.1	10.3	101.31		
	40.00	47.5	10.6	101.34		
	41.00	47.7	10.9	101.37		
	42.00	48.0	11.1	101.40		
	43.00	48.3	11.4	101.43		
	44.00	48.6	11.7	101.45		
	45.00	48.8	12.0	101.47		
	46.00	49.1	12.2	101.51		
	47.00	49.3	12.5	101.54		
	48.00	49.6	12.7	101.57		
	49.00	49.9	13.0	101.59		
	50.00	50.2	13.3	101.62		
	51.00	50.5	13.6	101.65		
	52.00	50.7	13.9	101.68		
	53.00	51.0	14.2	101.71		
	54.00	51.2	14.4	101.74		
	55.00	51.5	14.7	101.76		
	56.00	51.8	14.9	101.78		
	57.00	52.0	15.1	101.80		
	58.00	52.3	15.4	101.84		
****** End Flow 2	59.00	52.5	15.7	101.86		
****** Start Shutin 2	0.00	52.5	0.0	101.86	0.0000	0.003
	1.00	57.3	4.7	101.89	120.0000	0.003
	2.00	85.4	32.8	101.92	60.5000	0.007
	3.00	134.0	81.5	101.95	40.6667	0.018
	4.00	215.4	162.8	101.98	30.7500	0.046
	5.00	323.5	270.9	102.00	24.8000	0.105
	6.00	433.5	380.9	102.05	20.8333	0.188
	7.00	529.1	476.6	102.08	18.0000	0.280
	8.00	607.7	555.2	102.12	15.8750	0.369
	9.00	671.2	618.7	102.16	14.2222	0.451
	10.00	722.7	670.2	102.21	12.9000	0.522
	11.00	764.8	712.3	102.25	11.8182	0.585
	12.00	799.6	747.1	102.29	10.9167	0.639
	13.00	828.5	776.0	102.33	10.1538	0.686
	14.00	852.8	800.3	102.36	9.5000	0.727
	15.00	873.3	820.8	102.40	8.9333	0.763
	16.00	890.7	838.1	102.43	8.4375	0.793
	17.00	905.4	852.9	102.47	8.0000	0.820
	18.00	918.1	865.6	102.49	7.6111	0.843
	19.00	929.0	876.5	102.52	7.2632	0.863
	20.00	938.5	885.9	102.54	6.9500	0.881
	21.00	946.6	894.1	102.56	6.6667	0.896

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9780 Hinkle Oil Co. Greibel #1 DST #3

DATE: 02/02/97 TIME: 22:26:58

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	22.00	953.8	901.2	102.58	6.4091	0.910
	23.00	960.0	907.5	102.61	6.1739	0.922
	24.00	965.5	912.9	102.62	5.9583	0.932
	25.00	970.3	917.8	102.63	5.7600	0.942
	26.00	974.7	922.1	102.66	5.5769	0.950
	27.00	978.5	926.0	102.68	5.4074	0.957
	28.00	982.0	929.5	102.68	5.2500	0.964
	29.00	985.2	932.6	102.70	5.1034	0.971
	30.00	988.0	935.5	102.72	4.9667	0.976
	31.00	990.6	938.1	102.73	4.8387	0.981
	32.00	993.0	940.5	102.76	4.7188	0.986
	33.00	995.2	942.7	102.76	4.6061	0.990
	34.00	997.3	944.7	102.78	4.5000	0.995
	35.00	999.1	946.6	102.79	4.4000	0.998
	36.00	1000.8	948.3	102.80	4.3056	1.002
	37.00	1002.5	950.0	102.81	4.2162	1.005
	38.00	1004.0	951.5	102.82	4.1316	1.008
	39.00	1005.5	953.0	102.83	4.0513	1.011
	40.00	1006.9	954.3	102.84	3.9750	1.014
	41.00	1008.1	955.6	102.85	3.9024	1.016
	42.00	1009.3	956.7	102.87	3.8333	1.019
	43.00	1010.4	957.9	102.88	3.7674	1.021
	44.00	1011.5	959.0	102.89	3.7045	1.023
	45.00	1012.5	960.0	102.89	3.6444	1.025
	46.00	1013.5	961.0	102.92	3.5870	1.027
	47.00	1014.4	961.9	102.92	3.5319	1.029
	48.00	1015.3	962.8	102.93	3.4792	1.031
	49.00	1016.1	963.6	102.93	3.4286	1.033
	50.00	1017.0	964.4	102.95	3.3800	1.034
	51.00	1017.7	965.2	102.95	3.3333	1.036
	52.00	1018.5	965.9	102.96	3.2885	1.037
	53.00	1019.2	966.7	102.97	3.2453	1.039
	54.00	1019.9	967.3	102.98	3.2037	1.040
	55.00	1020.6	968.0	102.98	3.1636	1.042
	56.00	1021.2	968.7	102.99	3.1250	1.043
	57.00	1021.8	969.3	103.00	3.0877	1.044
	58.00	1022.4	969.9	103.01	3.0517	1.045
	59.00	1023.0	970.5	103.01	3.0169	1.047
	60.00	1023.6	971.1	103.02	2.9833	1.048
	61.00	1024.1	971.6	103.02	2.9508	1.049
****** End Shut-in 2	62.00	1024.7	972.1	103.04	2.9194	1.050
****** Final Hydro.	344.00	1658.4	0.0	103.04		

TEST HISTORY

9780 Hinkle Oil Co. Greibel #1 DST #3

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	1681.75
B:	0.00	14.78
C:	60.00	34.43
D:	59.00	1038.28
E:	0.00	36.85
F:	59.00	52.54
G:	62.00	1024.66
Q:	0.00	1658.38

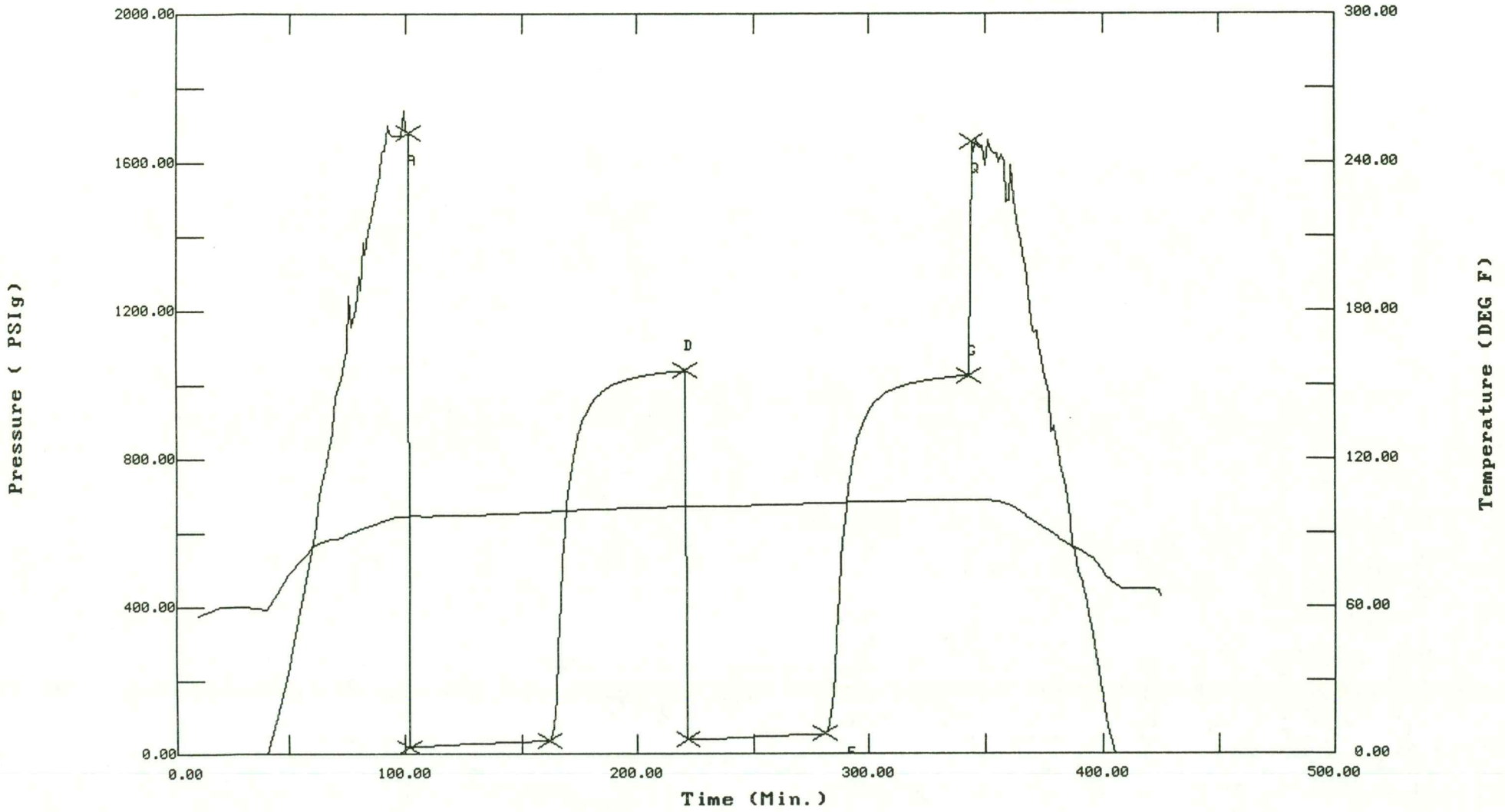
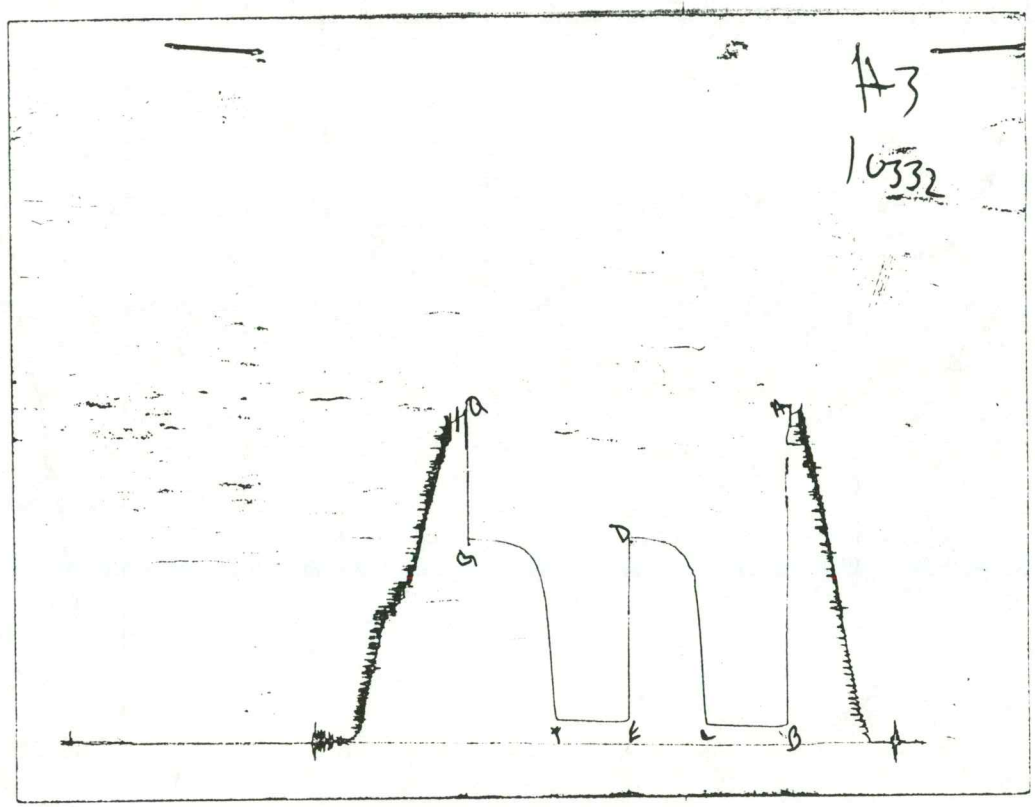


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 9780

Well Name & No. Griebel #1 Test No. 3 Date 2-2-96

Company Hinkle Oil Company Zone Tested LKC H-K

Address _____ Elevation 2081 KB 2073 GL

Co. Rep / Geo. Orvie Howell Cont. Duke #1 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 33 Twp. 6S Rge. 19W Co. Rooks State KS

No. of Copies 4 Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3372-3490 Initial Str Wt./Lbs. 38,000 Unseated Str Wt./Lbs. 38,000

Anchor Length 118 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 45,000

Top Packer Depth 3367 Tool Weight 2900

Bottom Packer Depth 3372 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____

Total Depth 3490 Wt. Pipe Run _____ Drill Collar Run _____

Mud Wt. 9.2 LCM ____ Vis. 43 WL 8.8 Drill Pipe Size 4½ XH Ft. Run 3371

Blow Description Weak ½" blow building to 1¼"

FF- ⅛" blow building to 1½"

Recovery — Total Feet 80 GIP _____ Ft. in DC _____ Ft. in DP 80

Rec. 1	Feet Of clean oil	%gas	%oil	%water	%mud	
Rec. 79	Feet Of oil specked mudd, water	%gas tr	%oil 60	%water 40	%mud	
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud	
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud	
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud	

BHT 103 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API

RW .138 @ 39 °F Chlorides 38,000 ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud	1784	1682	PSI	Recorder No. 3024	T-Started 2300	
(B) First Initial Flow Pressure	91	15	PSI	(depth) 3378	T-Open 0008	
(C) First Final Flow Pressure	101	34	PSI	Recorder No. 10332	T-Pulled 0408	
(D) Initial Shut-in Pressure	1085	1038	PSI	(depth) 3485	T-Out 0513	
(E) Second Initial Flow Pressure	111	37	PSI	Recorder No. _____		
(F) Second Final Flow Pressure	132	52	PSI	(depth) _____		
(G) Final Shut-in Pressure	1065	1025	PSI	Initial Opening _____	Test 600	
(H) Final Hydrostatic Mud	1774	1658	PSI	Initial Shut-in _____	Jars _____	
	AK-1	Alpine		Final Flow _____	Safety Joint _____	
				Final Shut-in _____	Straddle _____	
				54 stands	Circ. Sub _____	
				_____	Sampler _____	
					Extra Packer _____	
					Elect. Rec. X 150	
					Other _____	
					TOTAL PRICE $ 750	

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 Orvie Howell

Our Representative Paul Simpson