

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name TERRILL #1-11 Test No. 1 Date 8/27/92
Company GRIGGS OIL, INC. Zone MISSISSIPPI
Address 107 N MARKET #800 WICHITA KS 67202 Elevation 1674
Co. Rep./Geo. KRIS KENNEDY Cont. STERLING RIG #4 Est. Ft. of Pay _____
Location: Sec. 11 Twp. 25S Rge. 9W Co. RENO State KS

Interval Tested	<u>3847-3865</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>18</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>3842</u>	Drill Collar - 2.25 Ft. Run	<u>436</u>
Bottom Packer Depth	<u>3847</u>	Mud Wt.	<u>9</u> lb/Gal.
Total Depth	<u>3865</u>	Viscosity	<u>46</u> Filtrate <u>9.2</u>

Tool Open @ 12:50 AM ^{Initial} Blow SLID TOOL 12' WHEN OPENED-LOST MUD-RESET TOOL & SLID MORE-BLED OFF BLOW & HAD 2" BLOW DECREASING TO 1"
Final Blow VERY WEAK SURFACE BLOW-DIED IN 5 MINUTES
PACKERS LEAKING DURING SHUT IN

Recovery - Total Feet 500 Flush Tool? _____

Rec. 500 Feet of MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

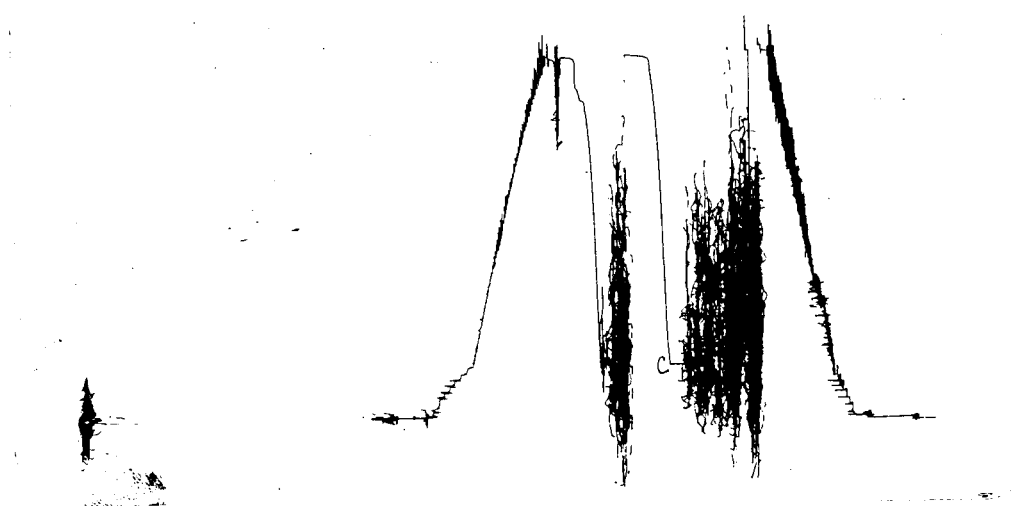
BHT 108 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud	<u>1886.3</u> PSI	AK1 Recorder No.	<u>22150</u>	Range	<u>3925</u>
(B) First Initial Flow Pressure	<u>277.5</u> PSI	@ (depth)	<u>3850</u>	w / Clock No.	<u>27501</u>
(C) First Final Flow Pressure	<u>277.5</u> PSI	AK1 Recorder No.	<u>24174</u>	Range	<u>3050</u>
(D) Initial Shut-in Pressure	_____ PSI	@ (depth)	<u>3864</u>	w / Clock No.	<u>27573</u>
(E) Second Initial Flow Pressure	<u>284.6</u> PSI	AK1 Recorder No.	_____	Range	_____
(F) Second Final Flow Pressure	<u>284.6</u> PSI	@ (depth)	_____	w / Clock No.	_____
(G) Final Shut-in Pressure	_____ PSI	Initial Opening	<u>15</u>	Final Flow	<u>15</u>
(H) Final Hydrostatic Mud	<u>1744.6</u> PSI	Initial Shut-in	<u>30</u>	Final Shut-in	<u>30</u>

Our Representative PAUL SIMPSON

CHART PAGE

31
22150



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1895	1886.3
(B) FIRST INITIAL FLOW PRESSURE	278	277.5
(C) FIRST FINAL FLOW PRESSURE	278	277.5
(D) INITIAL CLOSED-IN PRESSURE		
(E) SECOND INITIAL FLOW PRESSURE	285	284.6
(F) SECOND FINAL FLOW PRESSURE	285	284.6
(G) FINAL CLOSED-IN PRESSURE		
(H) FINAL HYDROSTATIC MUD	1742	1744.6

TRILOBITE TESTING L.L.C.

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Test Ticket

No 5209

Well Name & No. <u>Terrill 1-11</u>	Test No. <u>1</u>	Date <u>8-27-92</u>
Company <u>Griggs Oil Inc</u>	Zone Tested <u>Miss</u>	
Address <u>107 N Market # 800 Wichita, KS 67202</u>	Elevation <u>1624 KB</u>	
Co. Rep./Geo. <u>Kerr Kennedy</u>	cont. <u>Sterling #4</u>	Est. Ft. of Pay _____
Location: Sec. <u>11</u>	Twp. <u>25S</u>	Rge. <u>9W</u> Co. <u>Rec</u> State <u>Ks</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested <u>3847-3865</u>	Drill Pipe Size <u>4 1/2 X H</u>
Anchor Length <u>18</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3842</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3847</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3865</u>	Drill Collar — 2.25 Ft. Run <u>436</u>
Mud Wt. <u>9.0</u> lb/gal.	Viscosity <u>46</u> Filtrate <u>9.2</u>
Tool Open @ <u>12:50 AM</u>	Initial Blow <u>slid tool 12' when opened - lost mud - reset tool & slid more - bled off blow & had 2" blow decreasing to 1"</u>
Final Blow <u>1/2 week surface blow - died in 5 minutes</u>	<u>plus leaking during shut-in</u>

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
Rec. <u>500</u> Feet Of <u>mud</u>	%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 108 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

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

(A) Initial Hydrostatic Mud <u>1895</u>	PSI	Ak1 Recorder No. <u>22150</u>	Range <u>3925</u>
(B) First Initial Flow Pressure <u>278</u>	PSI	@ (depth) <u>3850</u>	w/Clock No. <u>27501</u>
(C) First Final Flow Pressure <u>278</u>	PSI	Ak1 Recorder No. <u>24174</u>	Range <u>3050</u>
(D) Initial Shut-In Pressure _____	PSI	@ (depth) <u>3864</u>	w/Clock No. <u>27573</u>
(E) Second Initial Flow Pressure <u>285</u>	PSI	Ak1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>285</u>	PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure _____	PSI	Initial Opening <u>15</u>	Test <u>MTR</u>
(H) Final Hydrostatic Mud <u>1742</u>	PSI	Initial Shut-In <u>30</u>	Jars _____

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.

Final Flow <u>15</u>	Safety Joint _____
Final Shut-In <u>30</u>	Straddle _____
	Circ. Sub _____
	Sampler _____

Approved By _____

Our Representative Pat Simpson

Extra Packer _____

Other _____

TRILOBITE TESTING, L.L.C.

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Drill-Stem Test Data

Well Name TERRILL #1-11 Test No. 2 Date 8/27/92
GRIGGS OIL, INC. Zone MISSISSIPPI
Company 107 N MARKET #800 WICHITA KS 67202 Elevation 1674
Address KRIS KENNEDY Cont. STERLING RIG #4 Est. Ft. of Pay _____
Co. Rep./Geo. 11 Cont. 25S Rge. 9W Co. RENO State KS
Location: Sec. _____ Twp. _____ Rge. _____ Co. _____ State _____

Interval Tested 3790-3865 Drill Pipe Size 4.5" XH
Anchor Length 75 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3785 Drill Collar - 2.25 Ft. Run 374
Bottom Packer Depth 3790 Mud Wt. 9.1 lb/Gal.
Total Depth 3865 Viscosity 45 Filtrate 8.8

Tool Open @ 11:10 AM Initial Blow SLID TOOL 10' WHEN OPENED -LOST 20' OF MUD-RESET TOOL
4" BLOW BUILDING TO BOTTOM OF BUCKET IN 6 MIN-BLOW BACK BUILT TO 4.5"
Final Blow WEAK BLOW BUILDING TO BOTTOM OF BUCKET IN 7 MINUTES
DECREASING TO 6" BLOW AT END OF FINAL FLOW-(NO BLOW BACK ON SHUT IN)

Recovery - Total Feet 375/1225 G.I.P. Flush Tool? _____

Rec.	Feet of	Description
<u>120</u>	<u>Feet of</u>	<u>GAS IN PIPE</u>
<u>65</u>	<u>Feet of</u>	<u>GASSY SLTLY OIL CUT MUD-5%GAS/5%OIL/90%MUD</u>
<u>65</u>	<u>Feet of</u>	<u>GASSY OIL CUT MUD-10%GAS/20%OIL/70%MUD</u>
<u>65</u>	<u>Feet of</u>	<u>GASSY HEAVY OIL CUT MUD-5%GAS/45%OIL/50%MUD</u>
<u>60</u>	<u>Feet of</u>	<u>GASSY SLTLY OIL CUT MUD-5%GAS/15%OIL/80%MUD</u>

BHT 109 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1835.9 PSI AK1 Recorder No. 22150 Range 3925
(B) First Initial Flow Pressure 102.3 PSI @ (depth) 3793 w / Clock No. 27501
(C) First Final Flow Pressure 134.6 PSI AK1 Recorder No. 24174 Range 3050
(D) Initial Shut-in Pressure 1181.2 PSI @ (depth) 3864 w / Clock No. 27573
(E) Second Initial Flow Pressure 1090.3/INVALID PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 1103.6/INVALID PSI @ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure 1181.2 PSI Initial Opening 30 Final Flow 45
(H) Final Hydrostatic Mud 1780.3 PSI Initial Shut-in 60 Final Shut-in 60

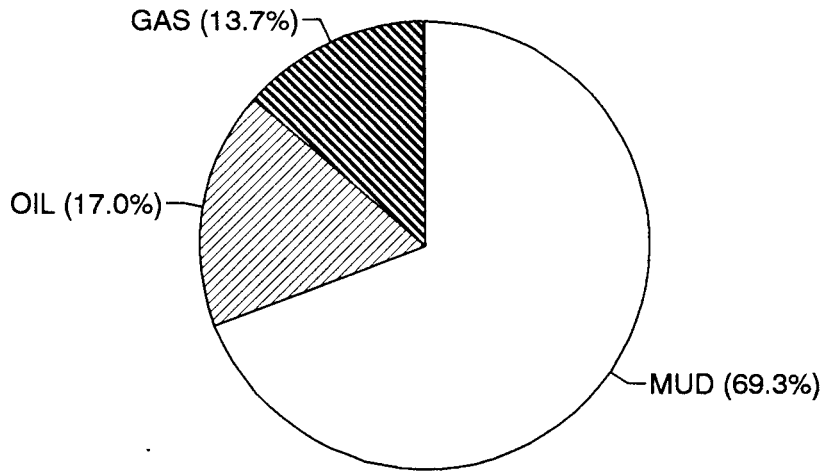
Our Representative PAUL SIMPSON

DST # 2 TICKET 5210

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	120	5	6	5	6	0	0	90	108
2	65	50	32.5	10	6.5	0	0	40	26
3	65	10	6.5	20	13		0	70	45.5
4	65	5	3.25	45	29.25		0	50	32.5
5	60	5	3	15	9		0	80	48
TOTAL	375	13.67	51.25	17.00	63.75	0.00	0	69.333333	260

		HRS OP	BBL/DAY
BBL OIL=	0.3117375	*	0.25
BBL WATER=	0	*	0
BBL MUD=	1.2714		
BBL GAS=	0.2506125		

MUD
OIL
GAS
WTR



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Test Ticket

NE 5210

Well Name & No. <u>Terrill 1-11</u>		Test No. <u>2</u>	Date <u>8-27-92</u>
Company <u>Griggs Oil Inc</u>		Zone Tested <u>MSS</u>	
Address <u>107 N Market #800 Wichita, KS 67202</u>		Elevation <u>1674 K13</u>	
Co. Rep./Geo. <u>Kris Kennedy</u>		Cont. <u>Steele #4</u>	Est. Ft. of Pay _____
Location: Sec. <u>11</u>	Twp. <u>25S</u>	Rge. <u>9W</u>	Co. <u>Reco</u> State <u>Ks</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____	Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested <u>3790-3865</u>	Drill Pipe Size <u>4 1/2 XH</u>
Anchor Length <u>75</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3785</u>	Hole Size — 77/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3790</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3865</u>	Drill Collar — 2.25 Ft. Run <u>374</u>
Mud Wt. <u>9.1</u> lb/gal.	Viscosity <u>45</u> Filtrate <u>8.8</u>

Tool Open @ 11:10 AM Initial Blow slid tool 10' when opened lost 20' of mud
reset tool - 4" blow building to bottom of bucket in 6 min (blow back built to 4 1/2 m)
 Final Blow weak blow build ing to bottom of bucket in 7 minutes - decreasing
to 6" blow at end of F.S. (no blow back on shut-in)

Recovery — Total Feet <u>375</u>	Feet of Gas in Pipe <u>1225</u>	Flush Tool? _____
Rec. <u>120</u> Feet Of <u>gassy SOCM</u>	<u>5</u> %gas <u>5</u> %oil	%water <u>90</u> %mud
Rec. <u>65</u> Feet Of <u>" " "</u>	<u>50</u> %gas <u>10</u> %oil	%water <u>40</u> %mud
Rec. <u>65</u> Feet Of <u>" OCM</u>	<u>10</u> %gas <u>20</u> %oil	%water <u>70</u> %mud
Rec. <u>65</u> Feet Of <u>" HOCM</u>	<u>5</u> %gas <u>45</u> %oil	%water <u>50</u> %mud
Rec. <u>60</u> Feet Of <u>" SOCM</u>	<u>5</u> %gas <u>15</u> %oil	%water <u>80</u> %mud

BHT 109 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

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

- (A) Initial Hydrostatic Mud 1832 PSI Ak1 Recorder No. 22150 Range 3925
- (B) First Initial Flow Pressure 105 PSI @ (depth) 3793 w/Clock No. 27501
- (C) First Final Flow Pressure 134 PSI Ak1 Recorder No. 24177 Range 3050
- (D) Initial Shut-In Pressure 1177 PSI @ (depth) 3864 w/Clock No. 27573
- (E) Second Initial Flow Pressure 1089 invalid PSI Ak1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 1099 invalid PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-In Pressure 1177 PSI Initial Opening 30 Test _____
- (H) Final Hydrostatic Mud 1773 PSI Initial Shut-in 60 Jars _____

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Final Flow <u>45</u>	Safety Joint _____
Final Shut-in <u>60</u>	Straddle _____
	Circ. Sub _____
	Sampler _____
	Extra Packer _____
	Other _____

Approved By [Signature]
 Our Representative Paul Simpson

TRILOBITE TESTING, L.L.C.

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Drill-Stem Test Data

Well Name TERRILL #1-11 Test No. 3 Date 8/28/92
Company GRIGGS OIL, INC. Zone MISSISSIPPI
Address 107 N MARKET #800 WICHITA KS 67202 Elevation 1674
Co. Rep./Geo. KRIS KENNEDY Cont. STERLING RIG #4 Est. Ft. of Pay 9
Location: Sec. 11 Twp. 25S Rge. 9W Co. RENO State KS

Interval Tested 3866-3875 Drill Pipe Size 4.5" XH
Anchor Length 9 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth _____ Drill Collar - 2.25 Ft. Run 436
Bottom Packer Depth 3866 Mud Wt. 9.1 lb/Gal.
Total Depth 3875 Viscosity 56 Filtrate 8.4

Tool Open @ 2:44 AM Initial Blow STRONG BLOW - BOTTOM OF BUCKET IN 30 SECONDS/GAS TO SURFACE IN 25 MINUTES INTO INITIAL FLOW

Final Blow GAUGING GAS-SEE REPORT

Recovery - Total Feet 590 Flush Tool? _____

Rec. 160 Feet of CLEAN GASSY OIL-60%GAS/40%OIL
Rec. 60 Feet of GASSY SLTLY MUD & WTR CUT OIL-5%GAS/85%OIL/5%WTR/5%MUD
Rec. 60 Feet of GASSY OIL CUT WATER-45%GAS/25%OIL/28%WATER/2%MUD
Rec. 60 Feet of OIL CUT WATEWR-5%OIL/95%WATER
Rec. 250 Feet of SALT WATER

BHT 112 °F Gravity _____ °API @ _____ °F Corrected Gravity 38 °API
RW 0.16 @ 74 °F Chlorides 50000 ppm Recovery Chlorides 7000 ppm System

(A) Initial Hydrostatic Mud 1916.3 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 77.1 PSI @ (depth) 3868 w / Clock No. 27501

(C) First Final Flow Pressure 142.8 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 1233.0 PSI @ (depth) 3874 w / Clock No. 27573

(E) Second Initial Flow Pressure 162.1 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 242.2 PSI @ (depth) _____ w / Clock No. _____

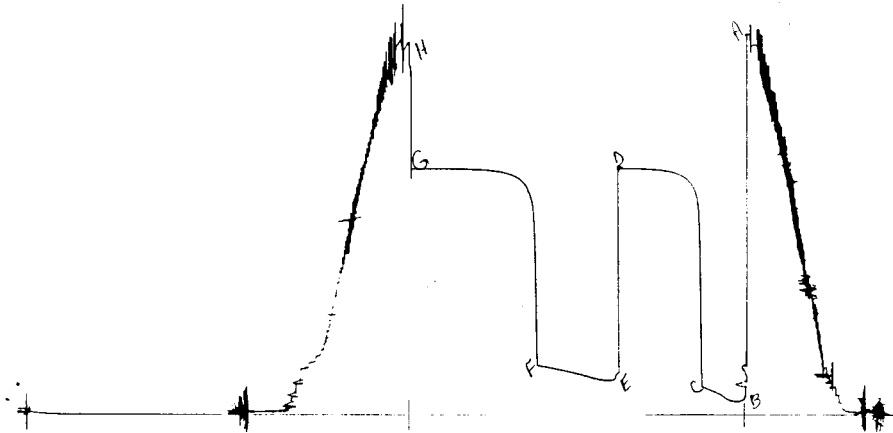
(G) Final Shut-in Pressure 1229.5 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1877.9 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative PAUL SIMPSON

CHART PAGE

A3



This is an actual photograph of recorder chart

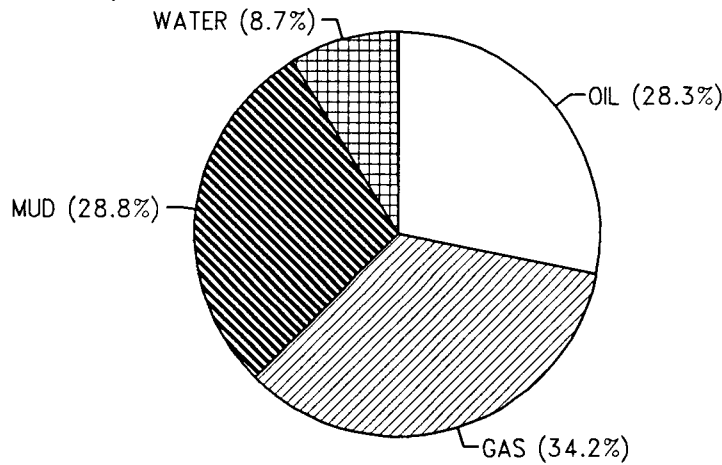
	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1903	1916.3
(B) FIRST INITIAL FLOW PRESSURE	53	77.1
(C) FIRST FINAL FLOW PRESSURE	142	142.8
(D) INITIAL CLOSED-IN PRESSURE	1236	1233
(E) SECOND INITIAL FLOW PRESSURE	157	162.1
(F) SECOND FINAL FLOW PRESSURE	255	242.2
(G) FINAL CLOSED-IN PRESSURE	1236	1229.5
(H) FINAL HYDROSTATIC MUD	1872	1877.9

CALCULATED RECOVERY ANALYSIS

DST # 3 TICKET # 5211

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	154	60	92.4	40	61.6		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WEIGHT 1			0		0		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1	6	60	3.6	40	2.4		0		0
COLLAR 2	60	5	3	85	51	5	3	5	3
3	60	45	27	25	15	28	16.8	2	1.2
4	60		0	5	3	95	57		0
5	250		0		0		0	100	250
TOTAL	590		126		133		76.8		254.2

BBL OIL=	1.225098	*	HRS OPEN	1.5	BBL/DAY	19.601568
BBL WATER=	0.375552	*				6.008832
BBL MUD=	1.243038					
BBL GAS =	1.478232					



INITIAL FLOW

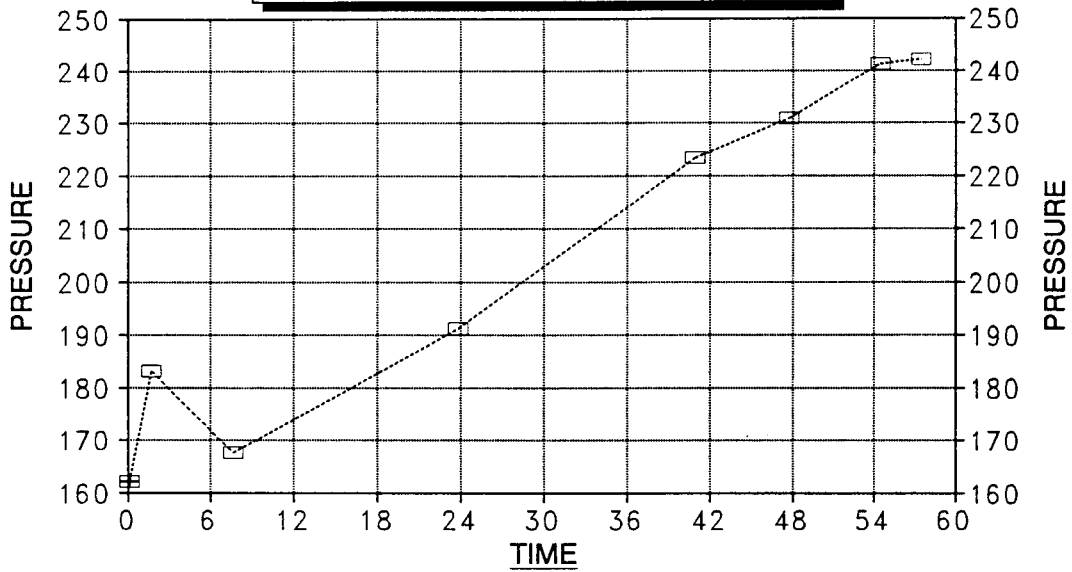
RECORDER #	22150	DST # 3
TIME(MIN)	PRESSURE	<>PRESSURE
2.5	77.1	77.1
5.8	70.2	-6.9
10.7	78.7	8.5
17.1	110.4	31.7
23.5	125.6	15.2
24.7	130.4	4.8
28.9	142.8	12.4

FINAL FLOW

RECORDER #	22150	DST # 3
TIME(MIN)	PRESSURE	<> PRESSURE
0.1	162.1	162.1
1.7	183.2	21.1
7.6	167.6	-15.6
23.8	191.2	23.6
40.9	223.4	32.2
47.8	230.9	7.5
54.5	241.3	10.4
57.5	242.2	0.9

DELTA T DELTA P

FINAL FLOW - DST #3



---□--- TERRILL #1-11

INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:

17.208

TERRILL #1-11 DST #3
 INITIAL SHUTIN

30 TOTAL FLOW TIME Slope 27.73 psi/cycle
 P * 1238 psi

TIME(MIN)	Pws (psi)	Log <>	
		Horn T	PRESSURE
0.2	526.7	2.179	526.7
1.4	869.2	1.351	342.5
2	1043.8	1.204	174.6
3.2	1096.9	1.016	53.1
6	1140.2	0.778	43.3
10.9	1180.6	0.574	40.4
17.9	1210.2	0.427	29.6
23.4	1223.6	0.358	13.4
X 37	1230.8	0.258	7.2
44.5	1231.6	0.224	0.8
55.4	1232.2	0.188	0.6
X 59	1233.0	0.179	0.8

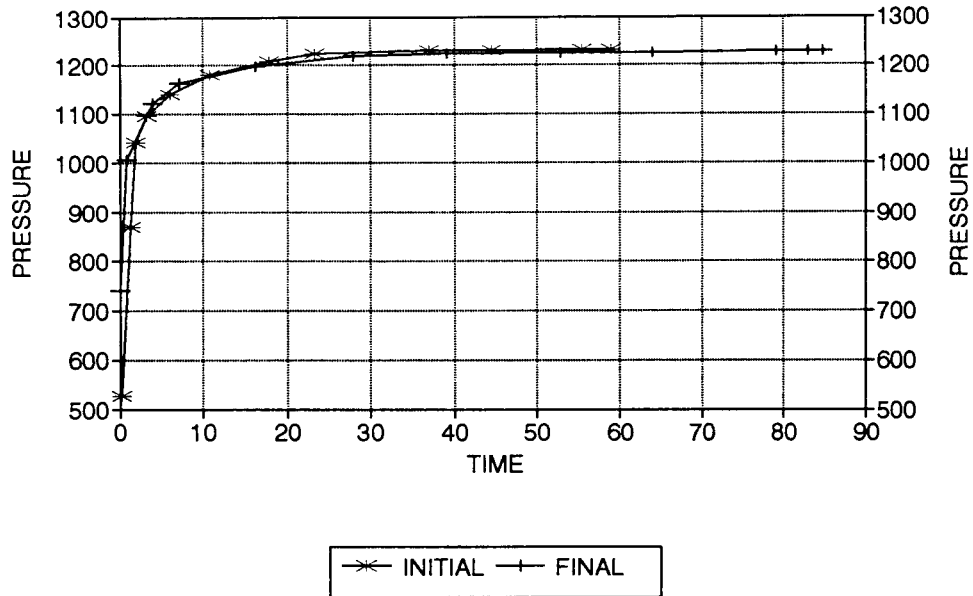
TERRILL #1-11 DST #3
 FINAL SHUTIN

90 TOTAL FLOW TIME Slope 22.05 psi/cycle
 P * 1236 psi

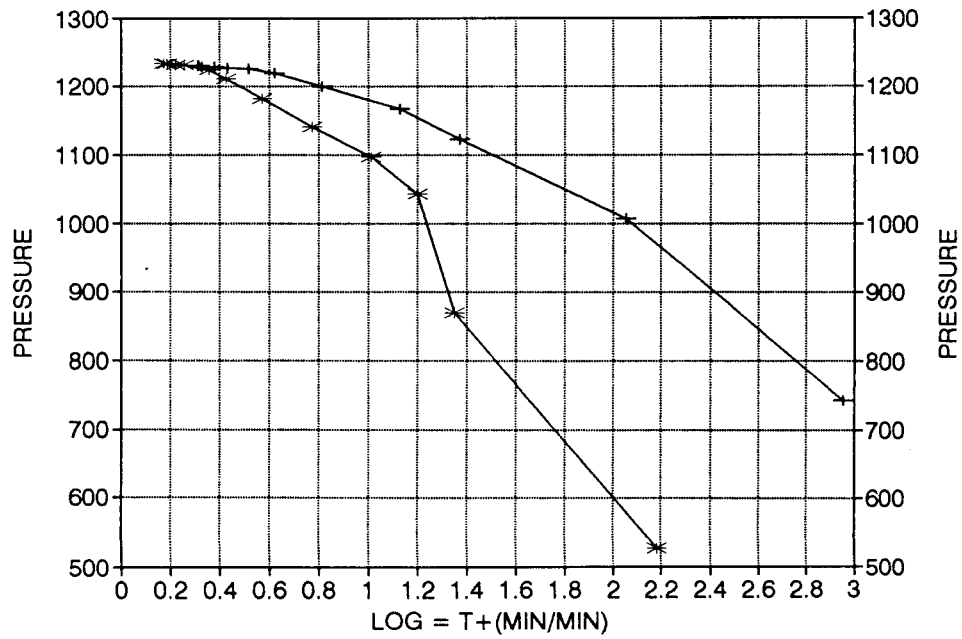
Pws (psi)	Log <>	
	Horn T	PRESSURE
0.1	741.0	2.955
0.8	1006.2	2.055
4	1121.9	1.371
7.2	1165.2	1.130
16.2	1199.7	0.817
28	1219.6	0.625
X 39.2	1225.0	0.518
52.9	1226.4	0.432
64	1227.4	0.381
79.1	1228.4	0.330
83.1	1229.0	0.319
X 84.9	1229.5	0.314

TERRILL #1-11 / DST #3

DELTA T DELTA P



HORNER PLOT



GAS VOLUME REPORT

GRIGGS OIL, INC.

TERRILL #1-11

DST # 3

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
26	50	0.25	7.51	5	CAUGHT SAMPLE		
30	50	0.25	7.51	15	30	0.25	9.2
				30	36	0.25	10.1
				45	26	0.25	8.56
				60	20	0.25	7.5

Remarks: GAS TO SURFACE 25 MINUTES OF INITIAL FLOW

2.545351	77.10462	1
5.866418	70.24394	1
10.72194	78.77115	1
17.11711	110.4051	1
23.50133	125.637	1
24.75161	130.4211	1
28.91693	142.8297	1
<hr/>		
30.28014	526.7888	2
31.4773	869.2654	2
32.00884	1043.882	2
33.29119	1096.907	2
36.09127	1140.235	2
40.96797	1180.601	2
47.91606	1210.287	2
53.46759	1223.616	2
67.05213	1230.897	2
74.53521	1231.622	2
85.48258	1232.234	2
89.08585	1233.083	2
<hr/>		
89.48396	162.108	3
91.7151	183.2627	3
97.66319	167.634	3
113.8913	191.233	3
130.9565	223.4884	3
137.89	230.9841	3
144.5481	241.3832	3
147.5972	242.2498	3
<hr/>		
148.3912	394.6677	4
149.4524	741.0079	4
150.8754	1006.291	4
154.0006	1121.97	4
157.2164	1165.284	4
166.2463	1199.727	4
178.0377	1219.609	4
189.2653	1225.037	4
202.9859	1228.455	4
214.0717	1229.063	4
229.176	1229.543	4
233.193	1227.483	4
234.9937	1226.461	4

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

NE 5211

Well Name & No. Terrill #11 Test No. 3 Date 8-28-92
 Company Griggs Oil Inc Zone Tested Miss
 Address _____ Elevation _____
 Co. Rep./Geo. Kris Kennedy Cont. Sterling #4 Est. Ft. of Pay 9
 Location: Sec. _____ Twp. 25s Rge. 9w Co. Peru State Ks
 No. of Copies will call Distribution Sheet Yes _____ No Turnkey Yes _____ No X Evaluation

Interval Tested 3866 - 3875 Drill Pipe Size 4 1/2 X 1 1/4
 Anchor Length 9 Top Choke — 1" Bottom Choke — 3/4"
 Top Packer Depth _____ Hole Size — 77/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 3866 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 3875 Drill Collar — 2.25 Ft. Run 436
 Mud Wt. 9.1 lb/gal. Viscosity 56 Filtrate 8.4
 Tool Open @ 2:44 AM Initial Blow strongly blow bottom bucket 30 sec - BTS 25 min
indv I.F.
 Final Blow guaging gas see report

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
Rec. <u>160</u> Feet Of <u>sl gassy oil</u> 60 %gas 40 %oil %water %mud		
Rec. <u>60</u> Feet Of <u>gassy sl + w/cw</u> 5 %gas 85 %oil 5 %water 5 %mud		
Rec. <u>60</u> Feet Of <u>gassy OCW</u> 45 %gas 25 %oil 28 %water 2 %mud		
Rec. <u>60</u> Feet Of <u>OCW</u> %gas 5 %oil 95 %water %mud		
Rec. <u>250</u> Feet Of <u>salt water</u> %gas %oil %water %mud		

BHT 112 °F Gravity _____ °API @ _____ °F Corrected Gravity 38 °API
 RW 216 @ 74 °F Chlorides 50,000 ppm Recovery Chlorides 7,000 ppm System
 (A) Initial Hydrostatic Mud 1903 PSI AK1 Recorder No. 22150 Range 3925
 (B) First Initial Flow Pressure 53 PSI @ (depth) 3868 w/Clock No. 27501
 (C) First Final Flow Pressure 142 PSI AK1 Recorder No. 24174 Range 3050
 (D) Initial Shut-In Pressure 1236 PSI @ (depth) 3874 w/Clock No. 27573
 (E) Second Initial Flow Pressure 157 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 255 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 1236 PSI Initial Opening 30 Test X
 (H) Final Hydrostatic Mud 1872 PSI Initial Shut-In 60 Jars X

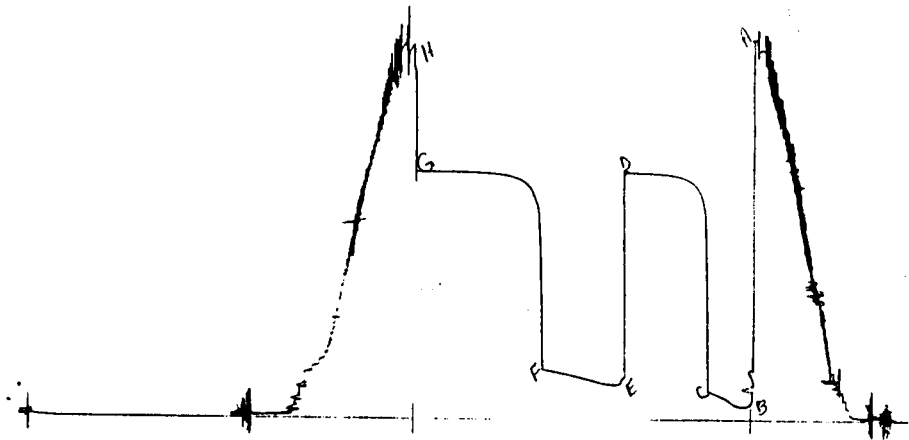
TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS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

Final Flow 60 Safety Joint X
 Final Shut-In 90 Straddle _____
 Circ. Sub _____
 Sampler _____

Approved By _____
 Our Representative Paul Simpson

Extra Packer _____
 Other extra w/cw
 TOTAL PRICE \$ 500

A3



0.263	251.9173
1.123	1082.652
1.208	1165.284
1.239	1195.454
1.254	1210.057
1.263	1218.821
1.27	1225.637
1.274	1229.533
1.276	1231.481
1.278	1233.429
1.28	1235.377
1.282	1237.325
1.283	1238.299
1.284	1239.273
1.285	1240.247
1.285	1240.247
1.285	1240.247

INIT. HYD. MUD.		FINAL HYD. MUD		FINAL SHUTIN	
INITIAL FLOW MINUTES _____	INITIAL SHUTIN MINUTES _____	FINAL FLOW MINUTES _____	FINAL SHUTIN MINUTES <u>90</u>	INTERVAL _____	INTERVAL <u>6</u>
				1	1.247
				2	1.123
				3	1.207
				4	1.239
				5	1.254
				6	1.263
				7	1.270
				8	1.274
				9	1.276
				10	1.278
				11	1.280
				12	1.282
				13	1.284
				14	1.285
				15	1.285
				16	X 1.285 1.285
				17	1.285
				18	
				19	
				20	
				21	
				22	
				23	
				24	
				25	
				26	
				27	

TERRILL #1-11 DST #3
 FINAL SHUTIN

90 TOTAL FLOW TIME

 Slope 21.75 psi/cycle
 P * 1246 psi

		Pws (psi)	Log Horn T	<> PRESSURE	Horn T
		-----	-----	-----	-----
	6	1082.6	1.204	1082.6	16
	12	1165.2	0.929	82.6	9
	18	1195.4	0.778	30.2	6
	24	1210.0	0.677	14.6	5
	30	1218.8	0.602	8.8	4
	36	1225.6	0.544	6.8	4
	42	1229.5	0.497	3.9	3
	48	1231.4	0.459	1.9	3
	54	1233.4	0.426	2.0	3
	60	1235.3	0.398	1.9	3
	66	1237.3	0.374	2.0	2
	72	1238.2	0.352	0.9	2
X	78	1239.2	0.333	1.0	2
	84	1240.2	0.316	1.0	2
	90	1240.2	0.301	0.0	2
X	96	1240.2	0.287	0.0	2