

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name LOHREY #1 Test No. 1 Date 5/24/93
Company AFG ENERGY, INC. Zone LKC 'A,B,C'
Address P.O. BOX 458 HAYS KANSAS 67601 Elevation 2113
Co. Rep./Geo. ED GLASSMAN Cont. EMPHASIS #6 Est. Ft. of Pay _____
Location: Sec. 12 Twp. 17S Rge. 18W Co. RUSH State KS

Interval Tested 3371-3430 Drill Pipe Size 4.5" XH
Anchor Length 59 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3366 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3371 Mud Wt. 8.8 lb/Gal.
Total Depth 3430 Viscosity 46 Filtrate 9.2

Tool Open @ 5:24 AM Initial Blow STRONG - BOTTOM OF BUCKET IN 11 MINUTES

Final Blow STRONG - BOTTOM OF BUCKET IN 18 MINUTES

Recovery - Total Feet 435 Flush Tool? NO

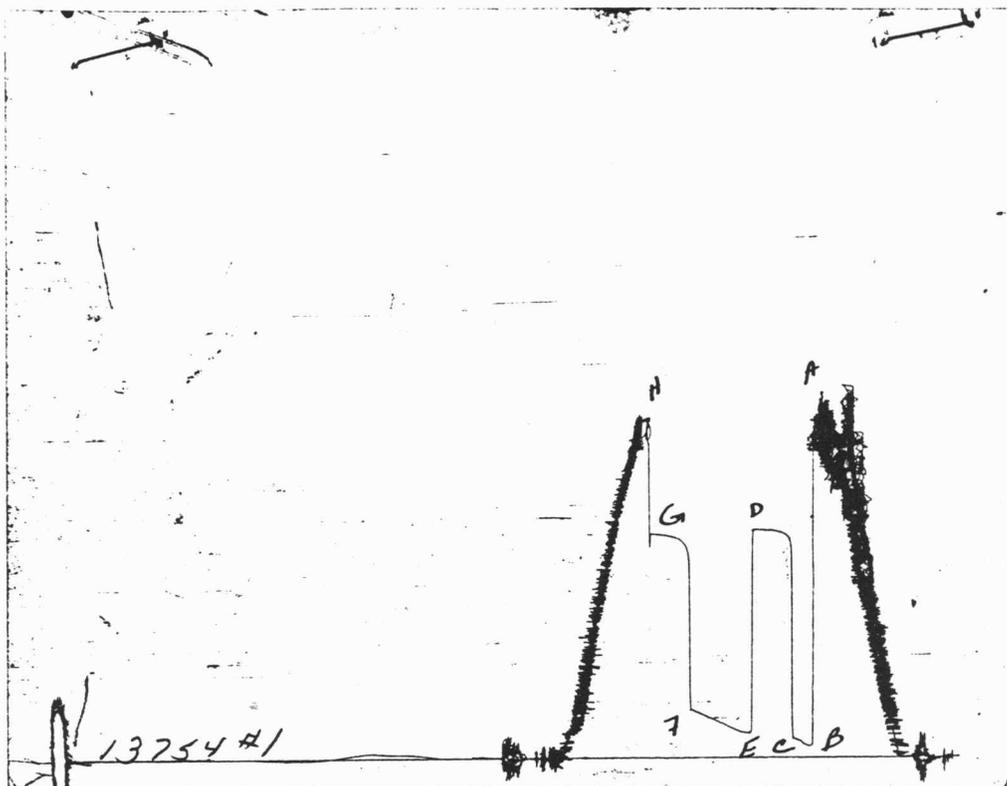
Rec. 435 Feet of MUDDY WATER 70%WATER/30%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 115 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.04 @ 80 °F Chlorides 60000 ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 1833.1 PSI AK1 Recorder No. 13754 Range 4000
(B) First Initial Flow Pressure 68.5 PSI @ (depth) 3375 w / Clock No. 27567
(C) First Final Flow Pressure 103.4 PSI AK1 Recorder No. 7437 Range 4200
(D) Initial Shut-in Pressure 1163.2 PSI @ (depth) 3426 w / Clock No. 8376
(E) Second Initial Flow Pressure 135.6 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 251.3 PSI @ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure 1145.6 PSI Initial Opening 15 Final Flow 45
(H) Final Hydrostatic Mud 1742.9 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1826	1833.1
(B) FIRST INITIAL FLOW PRESSURE	59	68.5
(C) FIRST FINAL FLOW PRESSURE	98	103.4
(D) INITIAL CLOSED-IN PRESSURE	1156	1163.2
(E) SECOND INITIAL FLOW PRESSURE	127	135.6
(F) SECOND FINAL FLOW PRESSURE	246	251.3
(G) FINAL CLOSED-IN PRESSURE	1136	1145.6
(H) FINAL HYDROSTATIC MUD	1736	1742.9

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 5678

Well Name & No. <u>Lohrey #1</u>	Test No. <u>1</u>	Date <u>5-24-93</u>			
Company <u>AFG Energy, Inc.</u>	Zone Tested <u>A-B-C</u>	<u>h.K.C.</u>			
Address <u>Box 458, Hays, Ks. 67601</u>	Elevation <u>2113 K.B.</u>				
CO. Rep./Geo. <u>Ed Glassman</u>	Cont. <u>Emphasis #6</u>	Est. Ft. of Pay _____			
Location: Sec. <u>12</u>	Twp. <u>17</u>	Rge. <u>18</u>	Co. <u>Rush</u>	State <u>Ks.</u>	
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____	Turnkey _____	Yes _____ No _____	Evaluation _____

Interval Tested <u>3371-3430</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>59</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3366</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3371</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3430</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>8.8</u> lb/gal.	Viscosity <u>46</u> Filtrate <u>9.2</u>
Tool Open @ <u>5:24 a.m.</u>	Initial Blow <u>Strong - B.O.B. in 11 min.</u>
Final Blow <u>Strong - B.O.B. in 18 min.</u>	

Recovery — Total Feet <u>435</u>	Feet of Gas in Pipe _____	Flush Tool? _____
Rec. <u>435</u> Feet Of <u>mdy WTP.</u>	%gas _____ %Oil _____	%water <u>70</u> %mud <u>30</u>
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 <u>115</u> °F	Gravity _____	°API @ _____	°F Corrected Gravity _____	°API _____
RW <u>.04</u> @ <u>80</u> °F	Chlorides <u>60,000</u> ppm	Recovery _____	Chlorides <u>6,000</u> ppm	System _____
(A) Initial Hydrostatic Mud <u>1826</u> PSI	Ak1 Recorder No. <u>13754</u>	Range <u>4000</u>		
(B) First Initial Flow Pressure <u>59</u> PSI	@ (depth) <u>3325</u>	w/Clock No. <u>27567</u>		
(C) First Final Flow Pressure <u>98</u> PSI	Ak1 Recorder No. <u>7437</u>	Range <u>4200</u>		
(D) Initial Shut-In Pressure <u>1156</u> PSI	@ (depth) <u>3426</u>	w/Clock No. <u>8376</u>		
(E) Second Initial Flow Pressure <u>127</u> PSI	Ak1 Recorder No. _____	Range _____		
(F) Second Final Flow Pressure <u>246</u> PSI	@ (depth) _____	w/Clock No. _____		
(G) Final Shut-In Pressure <u>1136</u> PSI	Initial Opening <u>15</u>	Test <u>1000</u>		
(H) Final Hydrostatic Mud <u>1736</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

Approved By Ed Glassman
Our Representative Dan Baner

Final Flow <u>45</u>	Safety Joint _____
Final Shut-In <u>30</u>	Straddle _____
	Circ. Sub _____
	Sampler _____
	Extra Packer _____
	Other _____
	TOTAL PRICE \$ <u>600</u>

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name LOHREY #1 Test No. 2 Date 5/24/93
Company AFG ENERGY, INC. Zone LKC 'D,E,F'
Address P.O. BOX 458 HAYS KANSAS 67601 Elevation 2113
Co. Rep./Geo. ED GLASSMAN Cont. EMPHASIS #6 Est. Ft. of Pay _____
Location: Sec. 12 Twp. 17S Rge. 18W Co. RUSH State KS

Interval Tested 3433-3500 Drill Pipe Size 4.5" XH
Anchor Length 67 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3428 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3433 Mud Wt. 9 lb/Gal.
Total Depth 3500 Viscosity 47 Filtrate 9.6

Tool Open @ 6:55 PM Initial Blow WEAK - BUILDING TO 2"

Final Blow WEAK - BUILDING TO 1"

Recovery - Total Feet 155 Flush Tool? NO

Rec. 155 Feet of MUDDY WATER 50%WATER/50%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 110 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 1889.6 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 63.5 PSI @ (depth) 3437 w / Clock No. 27567

(C) First Final Flow Pressure 72.9 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 1086.5 PSI @ (depth) 3496 w / Clock No. 8376

(E) Second Initial Flow Pressure 92.4 PSI AK1 Recorder No. _____ Range _____

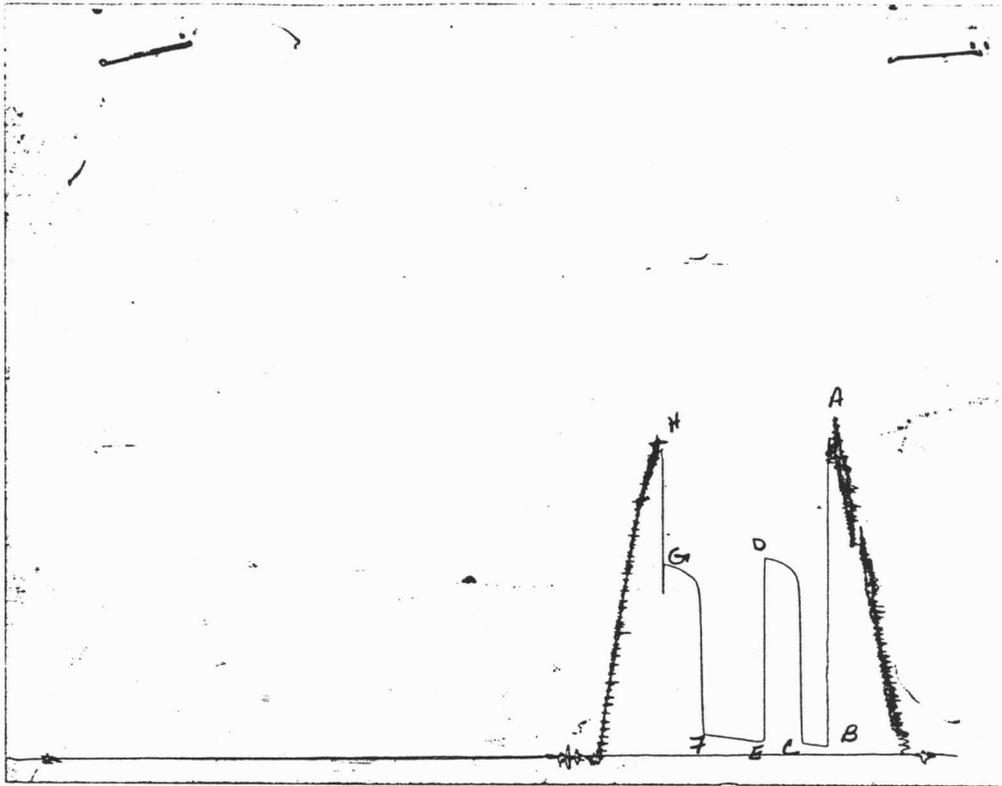
(F) Second Final Flow Pressure 112.3 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1056.3 PSI Initial Opening 15 Final Flow 45

(H) Final Hydrostatic Mud 1745.6 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1876	1889.6
(B) FIRST INITIAL FLOW PRESSURE	59	63.5
(C) FIRST FINAL FLOW PRESSURE	68	72.9
(D) INITIAL CLOSED-IN PRESSURE	1076	1086.5
(E) SECOND INITIAL FLOW PRESSURE	88	92.4
(F) SECOND FINAL FLOW PRESSURE	108	112.3
(G) FINAL CLOSED-IN PRESSURE	1046	1056.3
(H) FINAL HYDROSTATIC MUD	1736	1745.6

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 5679

Well Name & No. <u>Lohrey #1</u>	Test No. <u>2</u>	Date <u>5-24-93</u>
Company <u>AFG Energy, Inc</u>	Zone Tested <u>D-E-F</u>	<u>L.K.C.</u>
Address _____	Elevation <u>2113 K.B.</u>	
Co. Rep./Geo. <u>Ed Glassman</u>	Cont. <u>Emphasis #6</u>	Est. Ft. of Pay _____
Location: Sec. <u>12</u>	Twp. <u>17</u>	Rge. <u>18</u>
	Co. <u>Rush</u>	State <u>Ks.</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____ Turnkey _____
		Yes _____ No _____ Evaluation _____

Interval Tested <u>3433-3500</u>	Drill Pipe Size <u>4.5 X 14</u>
Anchor Length <u>67</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3428</u>	Hole Size — 77/8" _____ Rubber Size — 63/4" _____
Bottom Packer Depth <u>3433</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3500</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9</u> lb/gal.	Viscosity <u>47</u> Filtrate <u>9.6</u>
Tool Open @ <u>6:55 p.m.</u>	Initial Blow <u>Weak-building to 2"</u>
Final Blow <u>Weak-building to 1"</u>	

Recovery — Total Feet <u>155</u>	Feet of Gas in Pipe _____	Flush Tool? _____
Rec. <u>155</u> Feet Of <u>mdy win.</u>	%gas _____ %oil _____	<u>50%</u> water <u>50%</u> 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 110 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 6,000 ppm System

- (A) Initial Hydrostatic Mud 1876 PSI AK1 Recorder No. 13754 Range 4000
- (B) First Initial Flow Pressure 59 PSI @ (depth) 3437 w/Clock No. 27567
- (C) First Final Flow Pressure 68 PSI AK1 Recorder No. 7437 Range 4200
- (D) Initial Shut-in Pressure 1076 PSI @ (depth) 3496 w/Clock No. 8376
- (E) Second Initial Flow Pressure 88 PSI AK1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 108 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-in Pressure 1046 PSI Initial Opening 15 Test 600
- (H) Final Hydrostatic Mud 1736 PSI Initial Shut-in 30 Jars _____

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Final Flow 45 Safety Joint _____

Final Shut-in 30 Straddle _____

Circ. Sub _____

Sampler _____

Approved By Ed Glassman

Extra Packer _____

Our Representative Dan Baraffe

Other _____

TOTAL PRICE \$ 600

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name LOHREY #1 Test No. 3 Date 5/25/93
Company AFG ENERGY, INC. Zone LOWER KC
Address P.O. BOX 458 HAYS KANSAS 67601 Elevation 2113
Co. Rep./Geo. ED GLASSMAN Cont. EMPHASIS #6 Est. Ft. of Pay 3
Location: Sec. 12 Twp. 17S Rge. 18W Co. RUSH State KS

Interval Tested 3526-3620 Drill Pipe Size 4.5" XH
Anchor Length 94 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3521 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3526 Mud Wt. 9.1 lb/Gal.
Total Depth 3620 Viscosity 52 Filtrate 10.8

Tool Open @ 11:15 AM Initial Blow STRONG - BOTTOM OF BUCKET IN 2 MINUTES

Final Blow STRONG - BOTTOM OF BUCKET IN 4 MINUTES

Recovery - Total Feet 77 Flush Tool? NO

Rec. 248 Feet of GAS IN PIPE
Rec. 15 Feet of GASSY MUD 10%GAS/90%MUD
Rec. 62 Feet of SLIGHTLY OIL CUT GASSY MUD 10%GAS/6%OIL/84%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 109 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 7000 ppm System

(A) Initial Hydrostatic Mud 1893.4 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 74.8 PSI @ (depth) 3530 w / Clock No. 27567

(C) First Final Flow Pressure 78.7 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 1001.0 PSI @ (depth) 3616 w / Clock No. 8376

(E) Second Initial Flow Pressure 90.5 PSI AK1 Recorder No. _____ Range _____

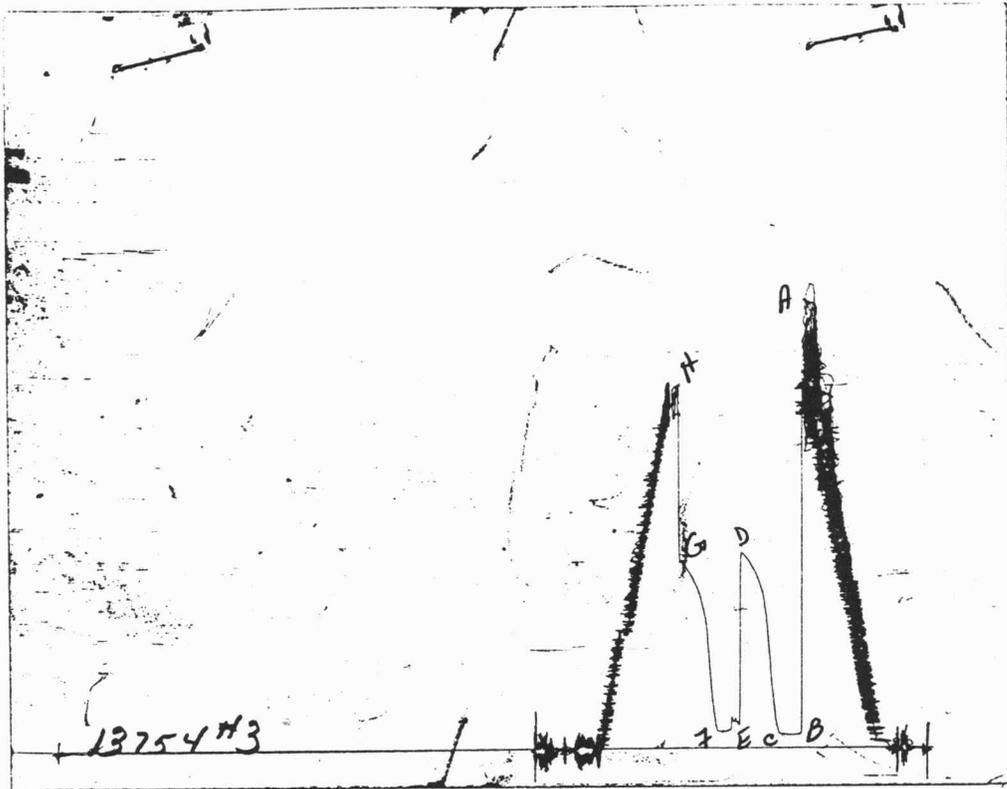
(F) Second Final Flow Pressure 90.5 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 959.4 PSI Initial Opening 15 Final Flow 15

(H) Final Hydrostatic Mud 1863.9 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1886	1893.4
(B) FIRST INITIAL FLOW PRESSURE	68	74.8
(C) FIRST FINAL FLOW PRESSURE	68	78.7
(D) INITIAL CLOSED-IN PRESSURE	986	1001
(E) SECOND INITIAL FLOW PRESSURE	88	90.5
(F) SECOND FINAL FLOW PRESSURE	88	90.5
(G) FINAL CLOSED-IN PRESSURE	946	959.4
(H) FINAL HYDROSTATIC MUD	1856	1863.9

COMPUTER OIL EVALUATION BY TRILOBITE TESTING, L.L.C.
 AFG ENERGY, INC.

LOHREY #1

DST 3

12

17S

18W

RUSH KS

 ELEVATION: 2113 KB EST. PAY 3 FT
 DATUM: -1418 ZONE TESTED: LOWER KC
 TEST INTERVAL: 3526-3620 TIME INTERVALS: 15-30-15-30
 RECORDER DEPTH: 3530 VISCOSITY: 7.46 CP
 BOTTOM HOLE TEMP: 109 HOLE SIZE: 7.875 IN

 CUBIC FEET OF GAS IN PIPE: 20
 TOTAL FEET OF RECOVERY: 77.00 CORRECTED PIPE FILLUP: 245.924
 TOTAL BARRELS OF RECOVERY: 1.09 CORR. BARRELS OF RECOVERY: 3.484 BBL
 BARRELS IN DRILL PIPE: 1.09 API GRAVITY: 35
 BARRELS IN WEIGHT PIPE: 0.00 FLUID GRADIENT: 0.368
 BARRELS IN DRILL COLLARS: 0.00
 GAS OIL RATIO: 18.08 CU.FT/BBL
 BUBBLE POINT PRESSURE: 142
 UNCORRECTED INITIAL PRODUCTION: 52.56 BBL
 INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE: 167.23 BBL/DAY
 INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE: 36.677

 INITIAL SLOPE 1167.9384 PSI/CYCL FINAL SLOPE 830.848568 PSI/CYCLE
 INITIAL P* 1206.66 PSI FINAL P* 1209.51034 PSI

 TRANSMISSIBILITY 32.73 (MD.-FT./CP.)
 PERMEABILITY 81.42 (MD.)
 INDICATED FLOW CAPACITY 244.27 (MD.FT)
 PRODUCTIVITY INDEX 0.04 (BARREL/DAY/PSI)
 DAMAGE RATIO 0.25
 RADIUS OF INVESTIGATION 49.42 (FT,)
 POTENTIOMETRIC SURFACE 1387.85 (FT.)
 DRAWDOWN FACTOR -0.236 (%)

INITIAL FLOW

RECORDER #13754

DST # 3

TIME(MIN)	PRESSURE	<>	PRESSURE
3	74.8		74.8
6	74.8		0.0
9	74.8		0.0
12	76.7		1.9
15	78.7		2.0

FINAL FLOW

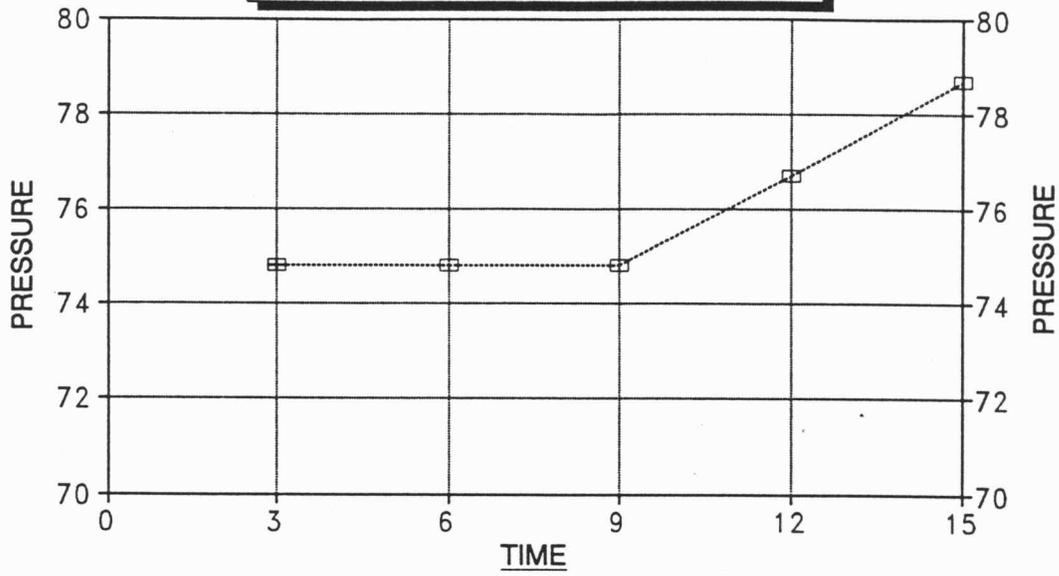
RECORDER #13754

DST # 3

TIME(MIN)	PRESSURE	<>	PRESSURE
3	90.5		90.5
6	90.5		0.0
9	90.5		0.0
12	90.5		0.0
15	90.5		0.0

DELTA T DELTA P

INITIAL FLOW / DST #3



---□--- LOHREY #1

INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:

36.677

LOYREY #1
INITIAL

DST #3
SHUTIN
15 INITIAL FLOW TIME

SLOPE 1167.9 PSI/CYCLE
P* 1206.66 PSI

			Log <>		
	TIME(MIN)	Pws (psi)	Horn T	PRESSURE	Horn T
	3	116.1	0.778	116.1	6
	6	268.7	0.544	152.6	4
	9	489.1	0.426	220.4	3
	12	720.3	0.352	231.2	2
	15	824.1	0.301	103.8	2
	18	882.4	0.263	58.3	2
	21	922.9	0.234	40.5	2
X	24	960.4	0.211	37.5	2
	27	983.2	0.192	22.8	2
X	30	1001.0	0.176	17.8	2

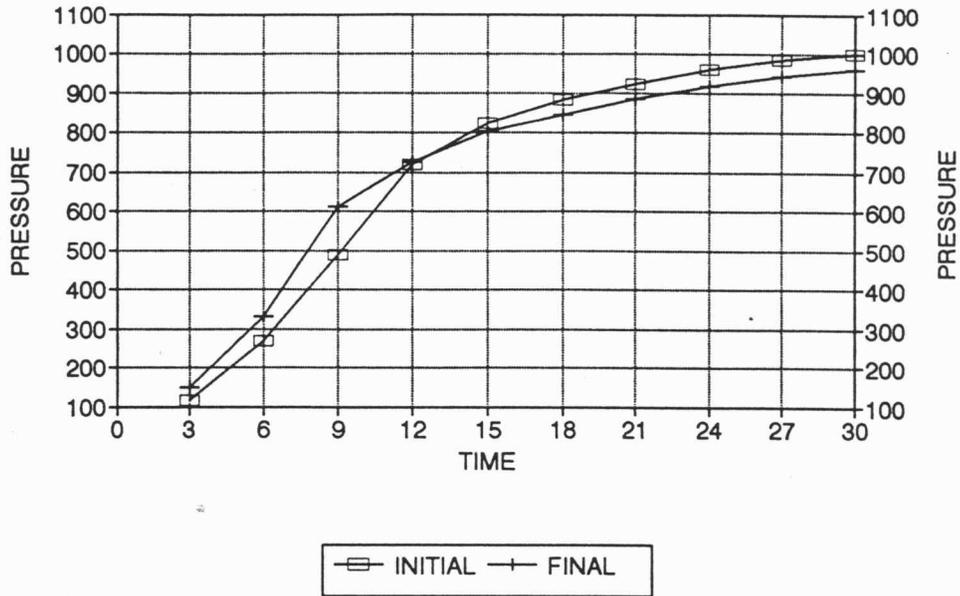
LOHREY #1
FINAL

DST #3
SHUTIN
30 TOTAL FLOW TIME

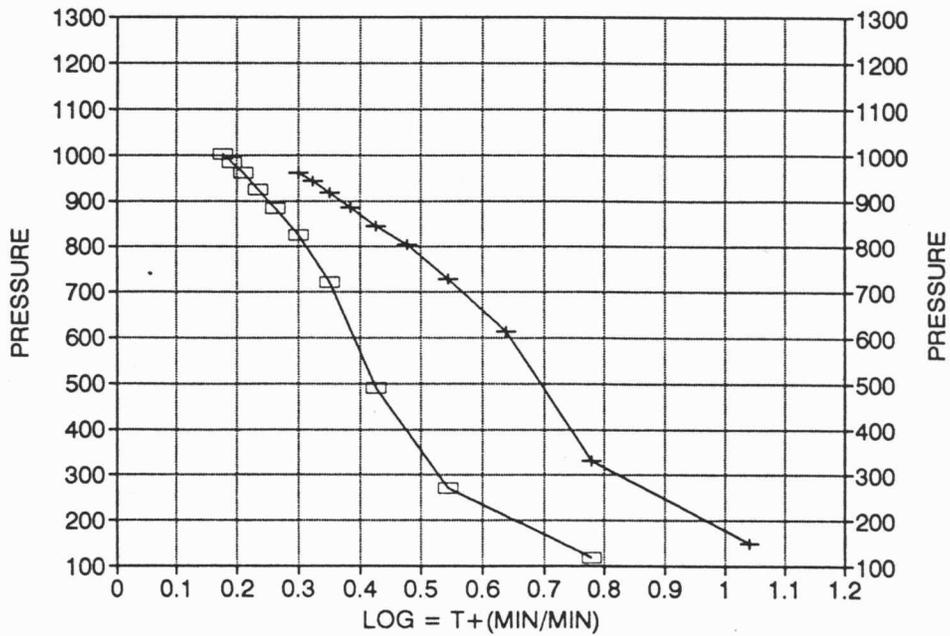
SLOPE 830.8 PSI/CYCLE
P* 1209.5 PSI

			Log <>		
		Pws (psi)	Horn T	PRESSURE	Horn T
	3	148.6	1.041	148.6	11
	6	329.7	0.778	181.1	6
	9	611.5	0.637	281.8	4
	12	726.2	0.544	114.7	4
	15	803.3	0.477	77.1	3
	18	844.8	0.426	41.5	3
	21	884.3	0.385	39.5	2
X	24	916.9	0.352	32.6	2
	27	942.6	0.325	25.7	2
X	30	959.4	0.301	16.8	2

LOHREY #1 / DST #3 DELTA T DELTA P

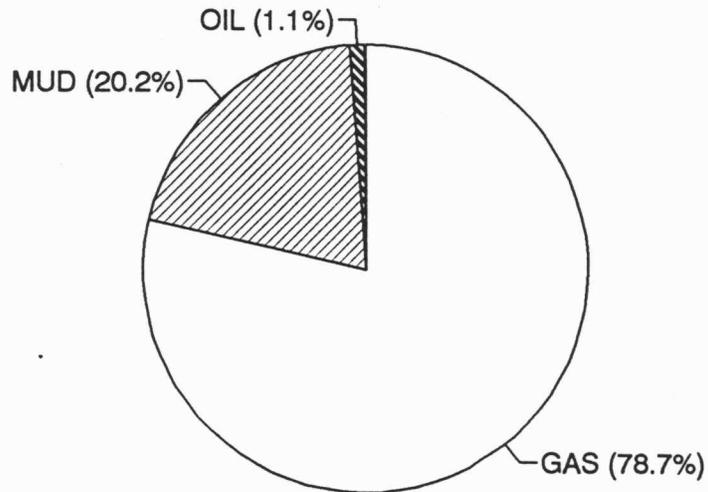


HORNER PLOT



DST #	CALCULATED RECOVERY ANALYSIS					DRILL	PIPE		
	3	TICKET					5680		
SAMPLE #	TOTAL FEET	GAS %	OIL FEET	OIL %	WATER FEET	WATER %	MUD FEET	MUD %	
1	248	100	248	0	0	0	0	0	
2	15	10	1.5	0	0	0	90	13.5	
3	62	10	6.2	6	3.72	0	84	52.08	
4			0	0	0	0	0	0	
5			0	0	0	0	0	0	
TOTAL	325	78.676923	255.7	1.14	3.72	0	0	20.2	65.58

		HRS	BBL/DAY
BBL OIL=	0.0528984	*	0.5 2.5391
BBL WATER=	0	*	0
BBL MUD=	0.9325476		
BBL GAS	3.636054		



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 5680

Well Name & No. <u>Lohrey #1</u>	Test No. <u>3</u>	Date <u>5-25-93</u>				
Company <u>AFG Energy, Inc.</u>	Zone Tested <u>Lower K.C.</u>					
Address _____	Elevation <u>2113 K.B.</u>					
Co. Rep./Geo. <u>Ed Glassman</u>	Cont. <u>Emphasis #6</u>	Est. Ft. of Pay <u>3</u>				
Location: Sec. <u>12</u>	Twp. <u>12</u>	Rge. <u>18</u>	Co. <u>Rush</u>	State <u>Ks.</u>		
No. of Copies _____	Distribution Sheet _____	Yes _____	No Turnkey _____	Yes _____	No _____	Evaluation _____

Interval Tested <u>3526-3620</u>	Drill Pipe Size <u>4.5 XH</u>
Anchor Length <u>94</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>3521</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3526</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>3620</u>	Drill Collar — 2.25 Ft. Run _____
Mud Wt. <u>9.1</u> lb/gal.	Viscosity <u>52</u> Filtrate <u>10.8</u>
Tool Open @ <u>11:55 a.m.</u>	Initial Blow <u>Strong - B.O.B. in 2 min.</u>

Final Blow Strong - B.O.B. in 4 min.

Recovery — Total Feet <u>77</u>	Feet of Gas In Pipe <u>248</u>	Flush Tool? _____		
Rec. <u>15</u> Feet Of <u>Gsy Mud</u>	<u>10%</u> gas	<u>0%</u> oil	<u>90%</u> water	<u>0%</u> mud
Rec. <u>62</u> Feet Of <u>SH 140 CGSYM</u>	<u>10%</u> gas	<u>6%</u> oil	<u>84%</u> water	<u>0%</u> mud
Rec. _____ Feet Of _____	_____ % gas	_____ % oil	_____ % water	_____ % mud
Rec. _____ Feet Of _____	_____ % gas	_____ % oil	_____ % water	_____ % mud
Rec. _____ Feet Of _____	_____ % gas	_____ % oil	_____ % water	_____ % mud

BHT 109 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 7,000 ppm System

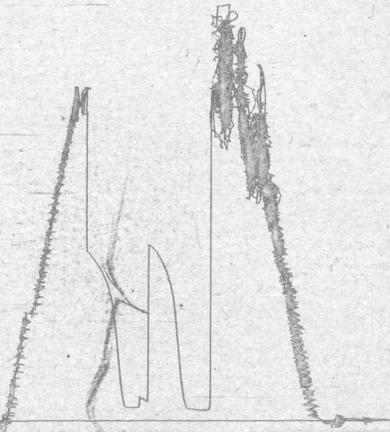
- (A) Initial Hydrostatic Mud 1886 PSI AK1 Recorder No. 13754 Range 4000
- (B) First Initial Flow Pressure 68 PSI @ (depth) 3530 w/Clock No. 27567
- (C) First Final Flow Pressure 68 PSI AK1 Recorder No. 7437 Range 4200
- (D) Initial Shut-In Pressure 986 PSI @ (depth) 3616 w/Clock No. 8376
- (E) Second Initial Flow Pressure 88 PSI AK1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 88 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-In Pressure 946 PSI Initial Opening 15 Test 600
- (H) Final Hydrostatic Mud 1856 PSI Initial Shut-In 30 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.

Approved By Ed Glassman
Our Representative Dan Kanofe

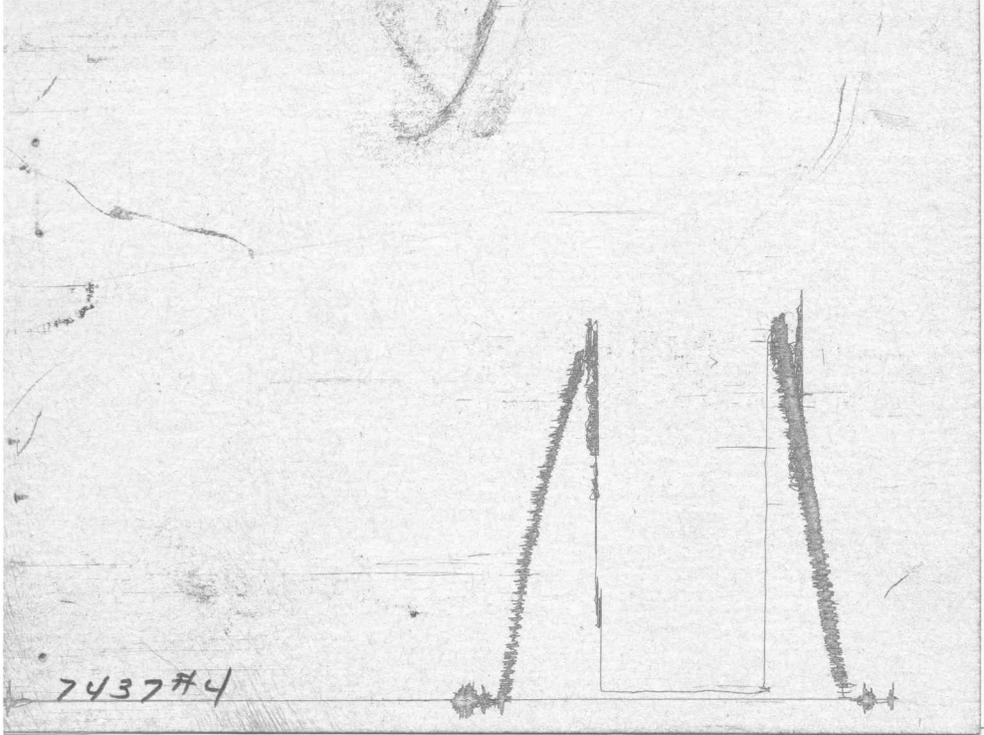
Final Flow 15 Safety Joint _____
Final Shut-In 30 Straddle _____
Circ. Sub _____
Sampler _____
Extra Packer _____
Other aval 50
TOTAL PRICE \$ 1650

7437#3



WELL NAME Lehigh DST # 3 RECORDER # 13754

INIT. HYD. MUD.		FINAL HYD. MUD	
INITIAL FLOW MINUTES INTERVAL	INITIAL SHUTIN MINUTES INTERVAL	FINAL FLOW MINUTES INTERVAL	FINAL SHUTIN MINUTES INTERVAL
.079	—	1	.126
.077	.118 114.1	2	.143
.076 74.8	.273 268.7	3	.102
.076	.497 489.1	4	.094
.078 76.7	.731 720.3	5	.092
.080 78.7	.836 824.1	6	.092 90.5
	.895 882.4	7	
	.936 922.9	8	
	.974 960.4	9	
	.997 983.2	10	
	1.015 1001	11	
		12	
		13	
		14	
		15	
		16	
		17	
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		26	
		27	



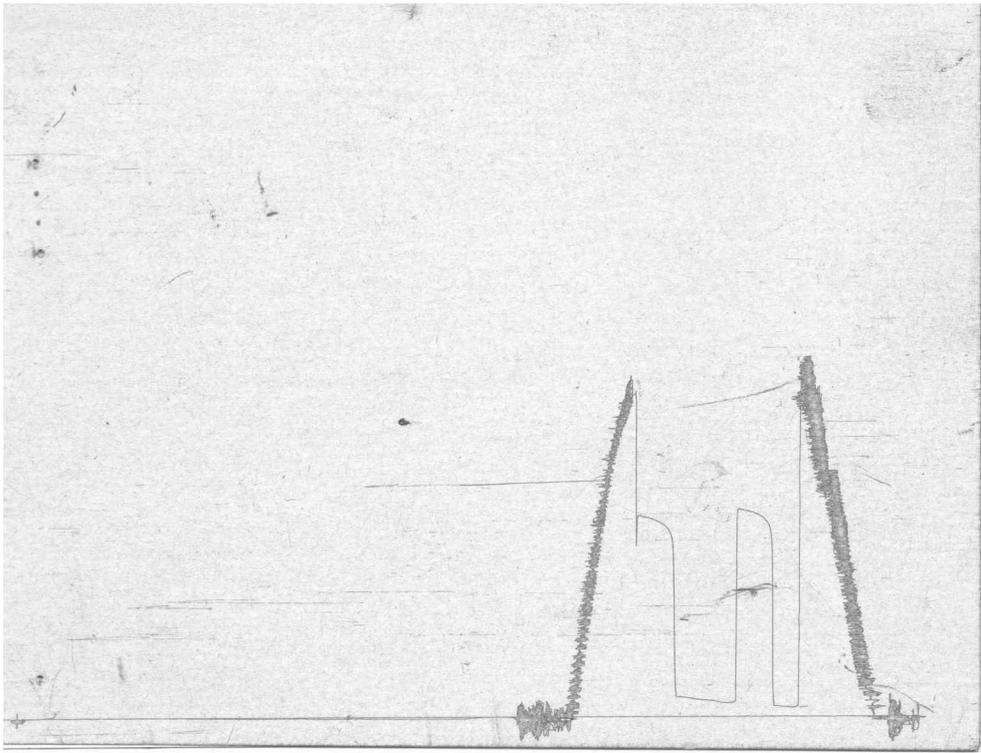
7437#4



7437 #1



c



TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name LOHREY #1 Test No. 4 Date 5/26/93
Company AFG ENERGY, INC. Zone GRANITE WASH
Address P.O. BOX 458 HAYS KANSAS 67601 Elevation 2113
Co. Rep./Geo. ED GLASSMAN Cont. EMPHASIS #6 Est. Ft. of Pay _____
Location: Sec. 12 Twp. 17S Rge. 18W Co. RUSH State KS

Interval Tested 3658-3687 Drill Pipe Size 4.5" XH
Anchor Length 29 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3653 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3658 Mud Wt. 9 lb/Gal.
Total Depth 3587 Viscosity 54 Filtrate 10.2

Tool Open @ 2:15 AM Initial Blow WEAK - BUILDING TO 1"

Final Blow WEAK - DIED IN 10 MINUTES

Recovery - Total Feet 10 Flush Tool? NO

Rec. 10 Feet of DRILLING MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 111 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 7000 ppm System

(A) Initial Hydrostatic Mud 2026.9 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 35.2 PSI @ (depth) 3662 w / Clock No. 27567

(C) First Final Flow Pressure 35.2 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 56.1 PSI @ (depth) 3683 w / Clock No. 8376

(E) Second Initial Flow Pressure 46.3 PSI AK1 Recorder No. _____ Range _____

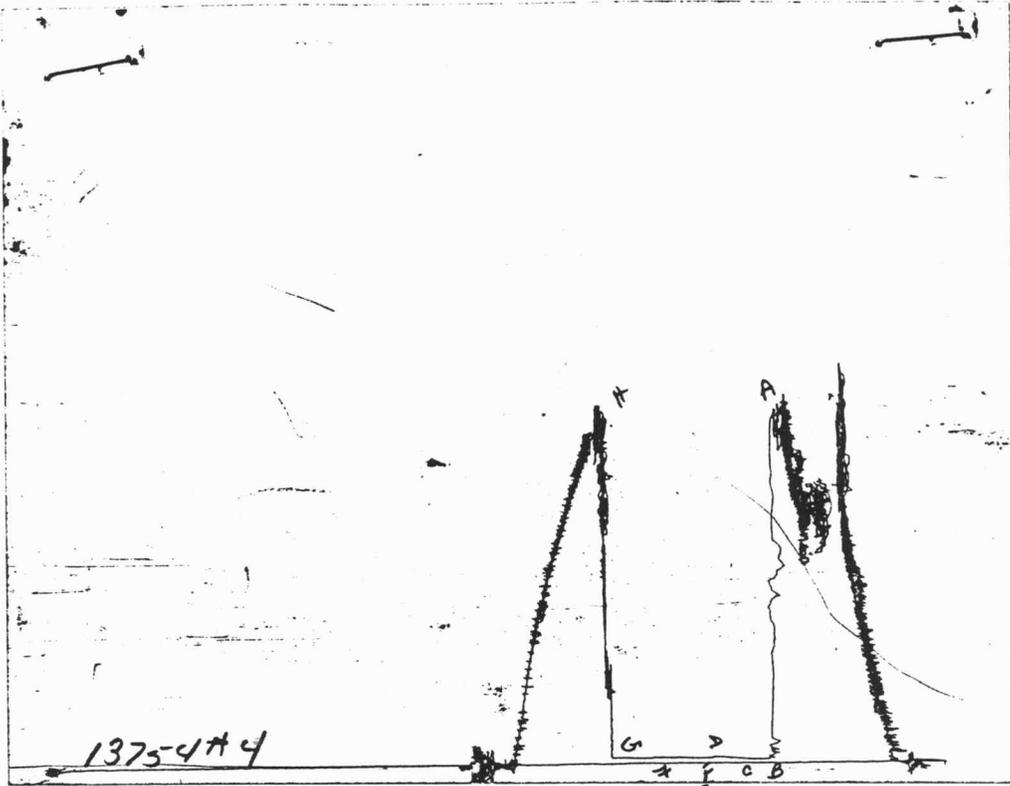
(F) Second Final Flow Pressure 46.3 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 56.1 PSI Initial Opening 15 Final Flow 45

(H) Final Hydrostatic Mud 1961.7 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2016	2026.9
(B) FIRST INITIAL FLOW PRESSURE	29	35.2
(C) FIRST FINAL FLOW PRESSURE	29	35.2
(D) INITIAL CLOSED-IN PRESSURE	49	56.1
(E) SECOND INITIAL FLOW PRESSURE	39	46.3
(F) SECOND FINAL FLOW PRESSURE	39	46.3
(G) FINAL CLOSED-IN PRESSURE	49	56.1
(H) FINAL HYDROSTATIC MUD	1956	1961.7

Test Ticket

No 5681

Well Name & No. Lohrey #1 Test No. 4 Date 5-26-93
 Company AFG Energy, Inc. Zone Tested Granite Wash
 Address _____ Elevation 2113 K.B.
 Co. Rep./Geo. Ed Glassman Cont. Emphasis #6 Est. Ft. of Pay _____
 Location: Sec. 12 Twp. 17 Rge. 18 Co. Rush State Ks.
 No. of Copies _____ Distribution Sheet _____ Yes _____ No Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 3658 - 3687 Drill Pipe Size 4.5 XH
 Anchor Length 29 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 3653 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 3658 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 3687 Drill Collar — 2.25 Ft. Run _____
 Mud Wt. 9 lb/gal. Viscosity 54 Filtrate 10.2
 Tool Open @ 2:15 a.m. Initial Blow weak-building to 1"

Final Blow weak-Died in 10 min.

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool?
Rec. <u>10</u> Feet Of <u>D.M.</u>	%gas _____ %oil _____ %water <u>100</u> %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 111 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2,000 ppm System

- (A) Initial Hydrostatic Mud 2016 PSI AK1 Recorder No. 13754 Range 4000
- (B) First Initial Flow Pressure 29 PSI @ (depth) 3662 w/Clock No. 27567
- (C) First Final Flow Pressure 29 PSI AK1 Recorder No. 7437 Range 4200
- (D) Initial Shut-In Pressure 49 PSI @ (depth) 3683 w/Clock No. 8376
- (E) Second Initial Flow Pressure 39 PSI AK1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 39 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-In Pressure 49 PSI Initial Opening 15 Test 600
- (H) Final Hydrostatic Mud 1956 PSI Initial Shut-In 30 Jars _____

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Final Flow 45 Safety Joint _____
 Final Shut-In 30 Straddle _____

Approved By Ed Glassman

Our Representative Dan Bangfe

Sampler _____
 Extra Packer _____
 Other _____

TOTAL PRICE \$ 600



WESTERN TESTING CO., INC.
FORMATION TESTING

No 18739

TICKET

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation NA Formation Eff. Pay Ft.

District Colby Date 5-27-93 Customer Order No.

COMPANY NAME AFG Energy Inc

ADDRESS PO Box 458 Hays KS. 67601

LEASE AND WELL NO. Lohrey #1 COUNTY Rush STATE KS. Sec. 12 Twp. 17 Rge. 18

Mail Invoice To Same #1 Lohrey No. Copies Requested Reg

Mail Charts To Same No. Copies Requested Reg

Address

Formation Test No. 5 Interval Tested From 2623 ft. to 2640 ft. Total Depth 3720 ft.

Packer Depth 2623 ft. Size 6.314 in. Packer Depth 2640 ft. Size 6.314 in.

Packer Depth 2623 ft. Size 6.314 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set 2674

Top Recorder Depth (Inside) 2631 ft. Recorder Number 6233 Cap. 4000

Bottom Recorder Depth (Outside) 2634 ft. Recorder Number 13400 Cap. 3950

Below Straddle Recorder Depth 2709 ft. Recorder Number 13547 Cap.

Drilling Contractor Emphasis Rig #6 Drill Collar Length 117 I. D. 2.2 in.

Mud Type Chemical Viscosity 52 Weight Pipe Length - I. D. - in.

Weight 9.0 Water Loss 10.2 cc. Drill Pipe Length 2491 I. D. 3.6 in.

Chlorides 8000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Jars: Make NO Serial Number - Anchor Length 12 ft. Size 5 1/2 OD in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: FFP- Weak blow- 1 1/2" in water

FFP- Weak blow- 1/2" in water

Recovered 70 ft. of Thin mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides 10,000 P.P.M. Sample Jars used Remarks:

JUN 01 1993

Time On Location 1100 A.M. Time Pick Up Tool 12 30 P.M. Time Off Location A.M. P.M.

Time Set Packer(s) 2 10 A.M. Time Started Off Bottom 4 10 P.M. Maximum Temperature 110

Initial Hydrostatic Pressure (A) 1305 P.S.I.

Initial Flow Period Minutes 15 (B) 50 P.S.I. to (C) 50 P.S.I.

Initial Closed In Period Minutes 30 (D) 836 P.S.I.

Final Flow Period Minutes 45 (E) 50 P.S.I. to (F) 60 P.S.I.

Final Closed In Period Minutes 30 (G) 796 P.S.I.

Final Hydrostatic Pressure (H) 1263 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to 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, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Ed Glassman Signature of Customer or his authorized representative

Western Representative Mike Skelton

Thanks!

FIELD INVOICE

Table with 2 columns: Item and Price. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, and TOTAL.

WESTERN TESTING CO., INC.
Pressure Data

Date 5-27

Test Ticket No. 18739

Recorder No. 6233 Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1367</u> P.S.I.	Open Tool		M _____
B First Initial Flow Pressure	<u>39</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>39</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>836</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	_____ P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	_____ P.S.I.			
G Final Closed-in Pressure	_____ P.S.I.			
H Final Hydrostatic Mud	<u>1341</u> P.S.I.			

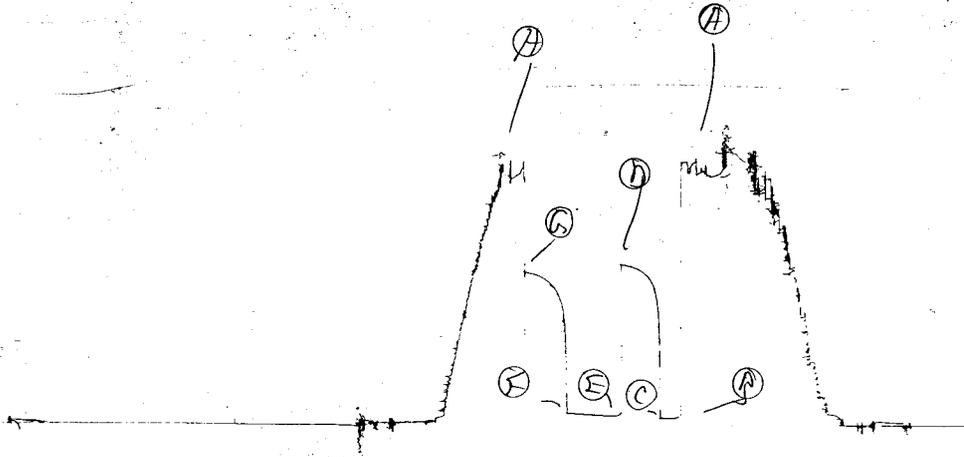
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>39</u>	<u>0</u>	<u>39</u>	<u>0</u>	<u>47</u>	<u>0</u>	<u>62</u>
P 2 <u>5</u>	<u>39</u>	<u>3</u>	<u>610</u>	<u>5</u>	<u>47</u>	<u>3</u>	<u>537</u>
P 3 <u>10</u>	<u>39</u>	<u>6</u>	<u>723</u>	<u>10</u>	<u>47</u>	<u>6</u>	<u>647</u>
P 4 <u>15</u>	<u>39</u>	<u>9</u>	<u>760</u>	<u>15</u>	<u>48</u>	<u>9</u>	<u>693</u>
P 5 <u>20</u>		<u>12</u>	<u>786</u>	<u>20</u>	<u>51</u>	<u>12</u>	<u>719</u>
P 6 <u>25</u>		<u>15</u>	<u>802</u>	<u>25</u>	<u>54</u>	<u>15</u>	<u>743</u>
P 7 <u>30</u>		<u>18</u>	<u>812</u>	<u>30</u>	<u>58</u>	<u>18</u>	<u>756</u>
P 8 <u>35</u>		<u>21</u>	<u>822</u>	<u>35</u>	<u>60</u>	<u>21</u>	<u>768</u>
P 9 <u>40</u>		<u>24</u>	<u>826</u>	<u>40</u>	<u>61</u>	<u>24</u>	<u>780</u>
P10 <u>45</u>		<u>27</u>	<u>832</u>	<u>45</u>	<u>62</u>	<u>27</u>	<u>784</u>
P11 <u>50</u>		<u>30</u>	<u>836</u>	<u>50</u>		<u>30</u>	<u>790</u>
P12 <u>55</u>		<u>33</u>		<u>55</u>		<u>33</u>	<u>796</u>
P13 <u>60</u>		<u>36</u>		<u>60</u>		<u>36</u>	
P14 <u>65</u>		<u>39</u>		<u>65</u>		<u>39</u>	
P15 <u>70</u>		<u>42</u>		<u>70</u>		<u>42</u>	
P16 <u>75</u>		<u>45</u>		<u>75</u>		<u>45</u>	
P17 <u>80</u>		<u>48</u>		<u>80</u>		<u>48</u>	
P18 <u>85</u>		<u>51</u>		<u>85</u>		<u>51</u>	
P19 <u>90</u>		<u>54</u>		<u>90</u>		<u>54</u>	
P20 <u>95</u>		<u>57</u>		<u>95</u>		<u>57</u>	
<u>100</u>		<u>60</u>		<u>100</u>		<u>60</u>	

6833

DK 18759

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13547

DK 18759

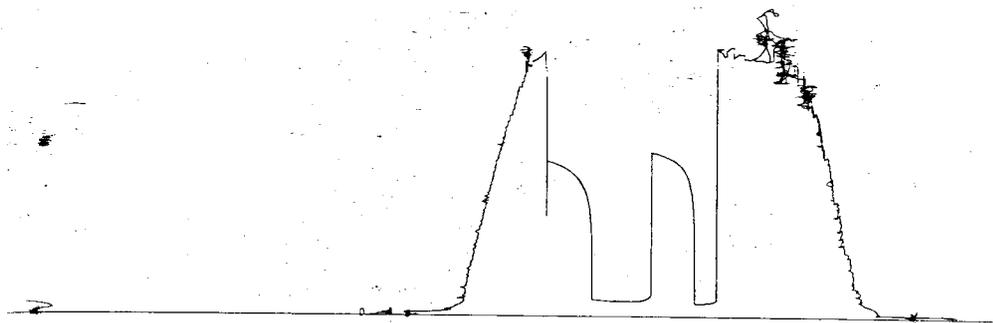
Below Straddle



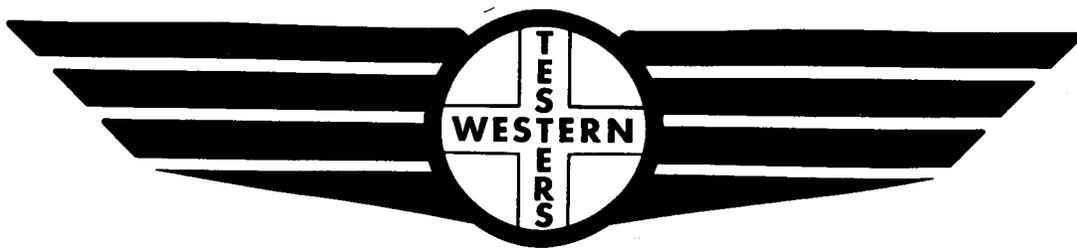
13900

JK 18729

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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone **1 - 800-688-7021**

COMPANY AFG ENERGY, INC. LEASE & WELL NO. #1 LOHREY SEC. 12 TWP. 17S RGE. 18W TEST NO. 5 DATE 5/27/93

DST REPORT

GENERAL INFORMATION

DATE : 5/27/93	TICKET : 18739
CUSTOMER : AFG ENERGY, INC.	LEASE : LOHREY
WELL : #1 TEST: 5	GEOLOGIST: ?
ELEVATION:	FORMATION:
SECTION : 12	TOWNSHIP : 17S
RANGE : 18W COUNTY: RUSH	STATE : KS
GAUGE SN#: 6233 RANGE : 4000	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 2628.00 ft	TO: 2640.00 ft	TVD: 3720.0 ft
DEPTH OF SELECTIVE ZONE: 2674	TEST TYPE: OIL	
DEPTH OF RECORDERS: 2631.0 ft	2634.0 ft	
TEMPERATURE: 0.0		
DRILL COLLAR LENGTH: 117.0 ft	I.D.:	2.200 in
WEIGHT PIPE LENGTH : 0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH : 2491.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 12.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE : 0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE : 7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH: 2623.0 ft	SIZE:	6.750 in
PACKER DEPTH: 2628.0 ft	SIZE:	6.750 in
PACKER DEPTH: 2640.0 ft	SIZE:	6.750 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : EMPHASIS RIG 6	VISCOSITY : 52.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 10.200 cc
WEIGHT : 9.000 ppg	
CHLORIDES : 8000 ppm	SERIAL NUMBER:
JARS-MAKE :	REVERSED OUT?: NO
DID WELL FLOW?: NO	

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW - 1 1/2 INCHES IN WATER. FINAL FLOW PERIOD WEAK BLOW - 1/2 INCH IN WATER.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
70.0	0.0	0.0	0.0	100.0	THIN MUD
0.0	0.0	0.0	0.0	0.0	CHLORIDES 10000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	60.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.3291	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.3291	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1305.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	50.00	50.00
INITIAL SHUT-IN	30.00		836.00
FINAL FLOW	45.00	50.00	60.00
FINAL SHUT-IN	30.00		796.00

FINAL HYDROSTATIC PRESSURE: 1263.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1367.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	39.00	39.00
INITIAL SHUT-IN	30.00		836.00
FINAL FLOW	45.00	47.00	62.00
FINAL SHUT-IN	33.00		796.00

FINAL HYDROSTATIC PRESSURE: 1341.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 5/27/93	TICKET	: 18739
CUSTOMER	: AFG ENERGY, INC.	LEASE	: LOHREY
WELL	: #1	TEST:	5
ELEVATION:		GEOLOGIST:	?
SECTION	: 12	FORMATION:	
RANGE	: 18W	TOWNSHIP	: 17S
GAUGE SN#:	6233	STATE	: KS
		CLOCK	: 12
		COUNTY:	RUSH
		RANGE	: 4000

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	39.00	39.00
5.00	39.00	0.00
10.00	39.00	0.00
15.00	39.00	0.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	617.00	617.00	0.00
6.00	723.00	106.00	0.00
9.00	760.00	37.00	0.00
12.00	786.00	26.00	0.00
15.00	802.00	16.00	0.00
18.00	812.00	10.00	0.00
21.00	822.00	10.00	0.00
24.00	826.00	4.00	0.00
27.00	832.00	6.00	0.00
30.00	836.00	4.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	47.00	47.00
5.00	47.00	0.00
10.00	47.00	0.00
15.00	48.00	1.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

Time (min)	Pressure	Delta P
20.00	51.00	3.00
25.00	54.00	3.00
30.00	58.00	4.00
35.00	60.00	2.00
40.00	61.00	1.00
45.00	62.00	1.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	537.00	537.00	0.00
6.00	647.00	110.00	0.00
9.00	693.00	46.00	0.00
12.00	719.00	26.00	0.00
15.00	743.00	24.00	0.00
18.00	756.00	13.00	0.00
21.00	768.00	12.00	0.00
24.00	780.00	12.00	0.00
27.00	784.00	4.00	0.00
30.00	790.00	6.00	0.00
33.00	796.00	6.00	0.00