

15-191-22347

8-35s-1w

TRILOBITE TESTING L.L.C.

OPERATOR : HRF Exploration DATE 5-6-00
 WELL NAME: Stuckey #1 KB 0.00 ft TICKET NO: 12583 DST #1
 LOCATION : 8-35s-1w Sumner co KS GR 0.00 ft FORMATION: Mississippian
 INTERVAL : 4140.00 To 4175.00 ft TD 4175.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	11019	11019				PF Fr. 1302 to 1317 hr
SI 30 Range(Psi)	4500.0	4500.0	0.0	0.0	0.0	IS Fr. 1317 to 1347 hr
SF 60 Clock(hrs)	12	12				SF Fr. 1347 to 1447 hr
FS 120 Depth(ft)	4175.0	4175.0	0.0	0.0	0.0	FS Fr. 1447 to 1647 hr

	Field	1	2	3	4	
A. Init Hydro	2068.0	2056.0	0.0	0.0	0.0	T STARTED 1030 hr
B. First Flow	169.0	178.0	0.0	0.0	0.0	T ON BOTM 1257 hr
B1. Final Flow	192.0	210.0	0.0	0.0	0.0	T OPEN 1302 hr
C. In Shut-in	1717.0	1719.0	0.0	0.0	0.0	T PULLED 1647 hr
D. Init Flow	305.0	302.0	0.0	0.0	0.0	T OUT 2000 hr
E. Final Flow	508.0	511.0	0.0	0.0	0.0	
F. Fl Shut-in	1728.0	1742.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1977.0	2039.0	0.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0				Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 95000.00 lbs
						Initial Str Wt 82000.00 lbs
						Unseated Str Wt 90000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 355.00 ft
						D.P. Length 3767.00 ft

RECOVERY

Tot Fluid 1090.00 ft of 355.00 ft in DC and 735.00 ft in DP
 120.00 ft of Gas in pipe
 30.00 ft of Oily watery mud
 0.00 ft of 15% oil 45% water 40% mud
 120.00 ft of Muddy water
 0.00 ft of 70% water 30% mud
 940.00 ft of Gas cut water
 0.00 ft of 2% gas 98% water
 0.00 ft of
 SALINITY 80000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/cf
Vis.	55.00 S/L
W.L.	10.40 in3
F.C.	0.00 in
Mud Drop	

BLOW DESCRIPTION

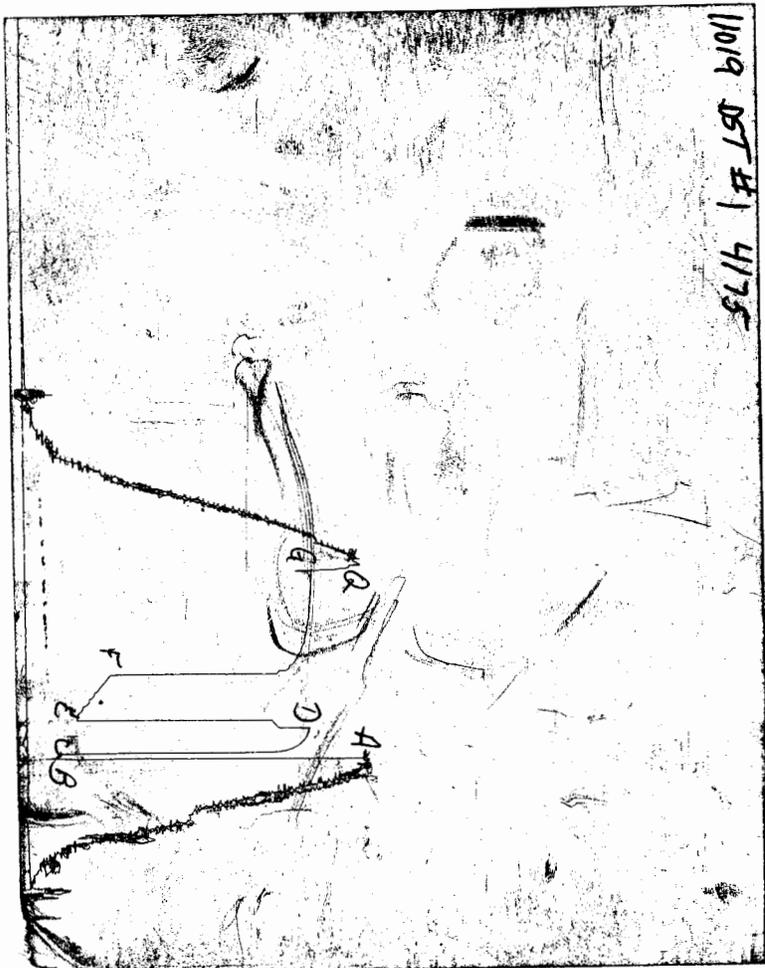
Initial Flow:
 Weak blow built to bottom of bucket
 in 7 minutes.
 Initial Shut-In:
 Bled 2" line. Had 3/4" blow back.
 Final Flow:
 Weak blow built to fair blow. Bottom
 of bucket in 6 minutes.
 Final Shut-In:
 Bled 2" line. 1 1/4" blow back.

Amt. of fill	0.00 ft
Btm. H. Temp.	0.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Scott Bugbee
Co. Rep.	Donald Day
Contr.	Cruzen Drilling
Rig #	5
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

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 12583

Well Name & No. <u>Stuckey #1</u>		Test No. <u>#1</u>	Date <u>5-6-00</u>
Company <u>H R F Exploration & Prod. Inc.</u>		Zone Tested <u>Mississippian</u>	
Address <u>990 S. Wisconsin Ave. Gaylord MI. 49735</u>		Elevation _____	KB _____
Co. Rep / Geo. <u>Don Day</u>	Cont. <u>Cruzen Drilling Rip 5</u>	Est. Ft. of Pay _____	Por. _____ %
Location: Sec. <u>9</u>	Twp. <u>35S</u>	Rge. <u>1W</u>	Co. <u>Summer</u> State <u>KS.</u>
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____	Evaluation (Y, N) _____

Interval Tested <u>4140 - 4175</u>	Initial Str Wt./Lbs. <u>82,000</u>	Unseated Str Wt./Lbs. <u>90,000</u>
Anchor Length <u>35'</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>195,000</u>
Top Packer Depth <u>4135</u>	Tool Weight <u>1900</u>	
Bottom Packer Depth <u>4140</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>4175</u>	Wt. Pipe Run _____	Drill Collar Run <u>355</u> ⁶³⁴⁵
Mud Wt. <u>9.3</u> LCM <u>-</u> Vis. <u>55</u> WL <u>10.4</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3767</u>

Blow Description 1st open weak blow built to B.D.B. in 7 min.
Bled 2" lone had 1 1/4" Blow back
2nd open weak blow built to fair blow B.D.B. in 6 min.
Bled 2" lone 1 1/4" Blow back

Recovery — Total Feet <u>1090</u>	GIP <u>120'</u>	Ft. in DC <u>355'</u>	Ft. in DP <u>735'</u>
Rec. <u>30'</u> Feet Of <u>oily, water, Mud</u>	%gas <u>15%</u>	%oil <u>45%</u>	%water <u>48%</u>
Rec. <u>120'</u> Feet Of <u>muddy water</u>	%gas _____	%oil <u>70%</u>	%water <u>30%</u>
Rec. <u>940</u> Feet Of <u>Gas cut water</u>	%gas <u>2%</u>	%oil <u>98%</u>	%water _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____

BHT _____ °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW 10 @ 69 °F Chlorides 90,000 ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud <u>2068</u>	AK-1 Alpine	PSI Recorder No. <u>3026</u>	T-On Location <u>7:45 A.M.</u>
(B) First Initial Flow Pressure <u>169</u>		PSI (depth) <u>4147</u>	T-Started <u>10:30 A.M.</u>
(C) First Final Flow Pressure <u>192</u>		PSI Recorder No. <u>11019</u>	T-Open <u>1:02 P.M.</u>
(D) Initial Shut-In Pressure <u>1717</u>		PSI (depth) <u>4175</u>	T-Pulled <u>4:47 P.M.</u>
(E) Second Initial Flow Pressure <u>305</u>		PSI Recorder No. _____	T-Out <u>8:00 P.M.</u>
(F) Second Final Flow Pressure <u>508</u>		PSI (depth) _____	T-Off Location _____
(G) Final Shut-in Pressure <u>1728</u>		PSI Initial Opening <u>15</u>	Test <input checked="" type="checkbox"/> <u>700⁰⁵</u>
(Q) Final Hydrostatic Mud <u>1977</u>		PSI Initial Shut-in <u>30</u>	Jars <input checked="" type="checkbox"/> <u>200⁰⁵</u>
		Final Flow <u>60</u>	Safety Joint <input checked="" type="checkbox"/> <u>60⁰⁵</u>
		Final Shut-in <u>120</u>	Straddle _____

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 Donald Day
 Our Representative Scott Bugbee

Circ. Sub
 Sampler 200⁰⁵
 Extra Packer _____
 Elec. Rec. 150⁰⁵
 Mileage _____
 Other shale Packer 150⁰⁵
 TOTAL PRICE \$ 1450⁰⁵

at 2.5 $\frac{75}{1525}$

TRILOBITE TESTING L.L.C.

OPERATOR : HRF Exploration DATE 5-8-00
 WELL NAME: Stucky #1 KB 0.00 ft TICKET NO: 12584 DST #2
 LOCATION : 8-35s-1w Sumner co KS GR 0.00 ft FORMATION: Simpson
 INTERVAL : 4405.00 To 4415.00 ft TD 4415.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	3026	3026				PF Fr. 0512 to 0527 hr
SI 30 Range(Psi)	4995.0	4995.0	0.0	0.0	0.0	IS Fr. 0527 to 0557 hr
SF 60 Clock(hrs)	elect	elect				SF Fr. 0557 to 0657 hr
FS 120 Depth(ft)	4413.0	4413.0	0.0	0.0	0.0	FS Fr. 0657 to 0857 hr

	Field	1	2	3	4	
A. Init Hydro	2204.0	0.0	0.0	0.0	0.0	T STARTED 0200 hr
B. First Flow	196.0	0.0	0.0	0.0	0.0	T ON BOTM 0511 hr
B1. Final Flow	286.0	0.0	0.0	0.0	0.0	T OPEN 0512 hr
C. In Shut-in	1733.0	0.0	0.0	0.0	0.0	T PULLED 0857 hr
D. Init Flow	301.0	0.0	0.0	0.0	0.0	T OUT 1300 hr
E. Final Flow	797.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	1738.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2197.0	0.0	0.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	I I					Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 95000.00 lbs
						Initial Str Wt 86000.00 lbs
						Unseated Str Wt 86000.00 lbs
						Bot Choke 0.78 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.38 in
						D.C. Length 355.00 ft
						D.P. Length 4054.00 ft

RECOVERY

Tot Fluid 4375.00 ft of 355.00 ft in DC and 4054.00 ft in DP
 4255.00 ft of Gassy oil
 0.00 ft of 10% gas 90% oil
 120.00 ft of Gassy oil cut mud
 0.00 ft of 15% gas 5% oil 80% mud
 0.00 ft of
 SALINITY 0.00 P.P.M. A.P.I. Gravity 40.00

MUD DATA-----

Mud Type	Chemical
Weight	8.90 lb/c
Vis.	45.00 S/L
W.L.	7.20 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	130.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out Y	
Tool Chased	
Tester	Scott Bugbee
Co. Rep.	Don Day
Contr.	Cruzen
Rig #	5
Unit #	
Pump T.	

BLOW DESCRIPTION

Initial Flow:
 Strong blow. Bottom of bucket in 15 seconds. Gas to surface in 6 minutes. Gas will burn.
 Initial Shut-In:
 Bled 2" Blow never Died.
 Final Flow:
 Bottom of bucket as soon as tool opened.
 Final Shut-In:
 Blow never died. Oil to surface 1 hour into shut-in.

SAMPLES:
 SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Stucky #1

LOCATION : 8-35s-1w Sumner co KS

TICKET No. 12584 D.S.T. No. 2 DATE 5-8-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 10

TOTAL TOOL 40

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands6 Single Total 355

D.P. ABOVE TOOLS.Stands63 Single 1 Total 4054

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4449

TOTAL DEPTH 4415

TOTAL DRILL PIPE ABOVE K.B. 34

REMARKS:

Sampler Data

200 PSI all gas

2.3 CGF

Large pieces of shale in top of tool

P.O. SUB top of tool	4375
C.O. SUB 1'	4376
S.I. TOOL 5'	4381
3' sampler	4384
HMV 5'	4389
JARS 5'	4394
SAFETY JOINT 2'	4396
PACKER 5'	4401
PACKER 5'	4405
DEPTH 4405	
1'	4406
ANCHOR	
2' perf	4408
Alpine Rec.	4413
5' PU sub	4413
BULLNOSE	
T.D. 2'	4415

NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:
Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 316-624-5389
Fax: 316-626-7108

Sample From: Stucky #1 DST 2 Pressure:
Producer: HRF Exploration Temperature:

Time: County: Sumner
Sampler: State: Kansas
Source: Formation: Simpson

	Mole %	GPM
Helium	He: 0.136	0.000
Hydrogen	H2: 0.003	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 12.907	0.000
Carbon Dioxide	CO2: 0.026	0.000
Methane	C1: 49.853	0.000
Ethane	C2: 11.875	3.176
Propane	C3: 10.424	2.872
Iso Butane	iC4: 1.332	0.436
Normal Butane	nC4: 4.826	1.522
Iso Pentane	iC5: 1.493	0.546
Normal Pentane	nC5: 2.443	0.885
Hexanes Plus	C6+: 4.682	2.043

TOTAL: 100.000 11.479

Z Fact: 0.9932

SP.GR.: 1.0635

BTU (SAT): 1561.3 @ 14.73 psia

BTU (DRY): 1588.9 @ 14.73 psia

OCTANE RATING: 96.3

COMMENTS:

0.000

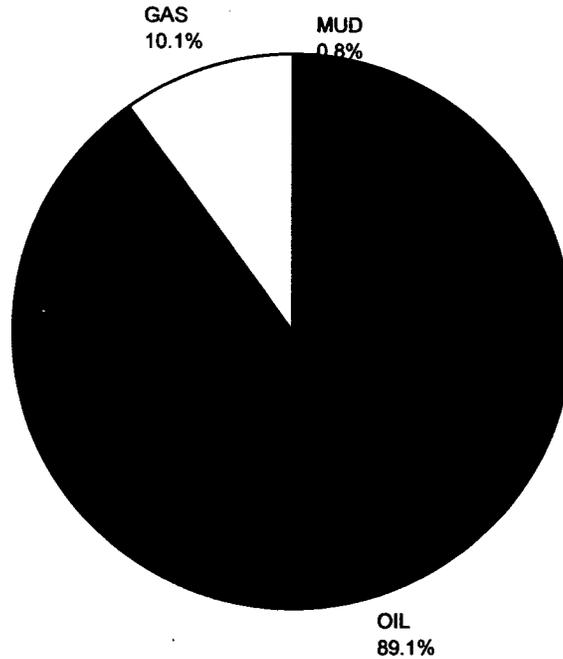
CALCULATED RECOVERY ANALYSIS

DST 2

TICKET 12584

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD		
		%	FEET	%	FEET	%	FEET	%	FEET	
DRILL	1	4020	10	402	90	3618	0	0	0	0
PIPE	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	0	0
WEIGHT	1	0	0	0	0	0	0	0	0	0
PIPE	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
DRILL	1	235	10	23.5	90	211.5	0	0	0	0
COLLARS	2	120	15	18	5	0	0	0	80	96
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
TOTAL		4375	0	443.5	0	3829.5	0	0	0	96

BBL OIL=	52.482195	*	HRS OPEN	1.25	=	BBL/DAY	1007.6581
BBL WATER=	0	*			=		0
BBL MUD=	0.46944						
BBL GAS =	5.919375						

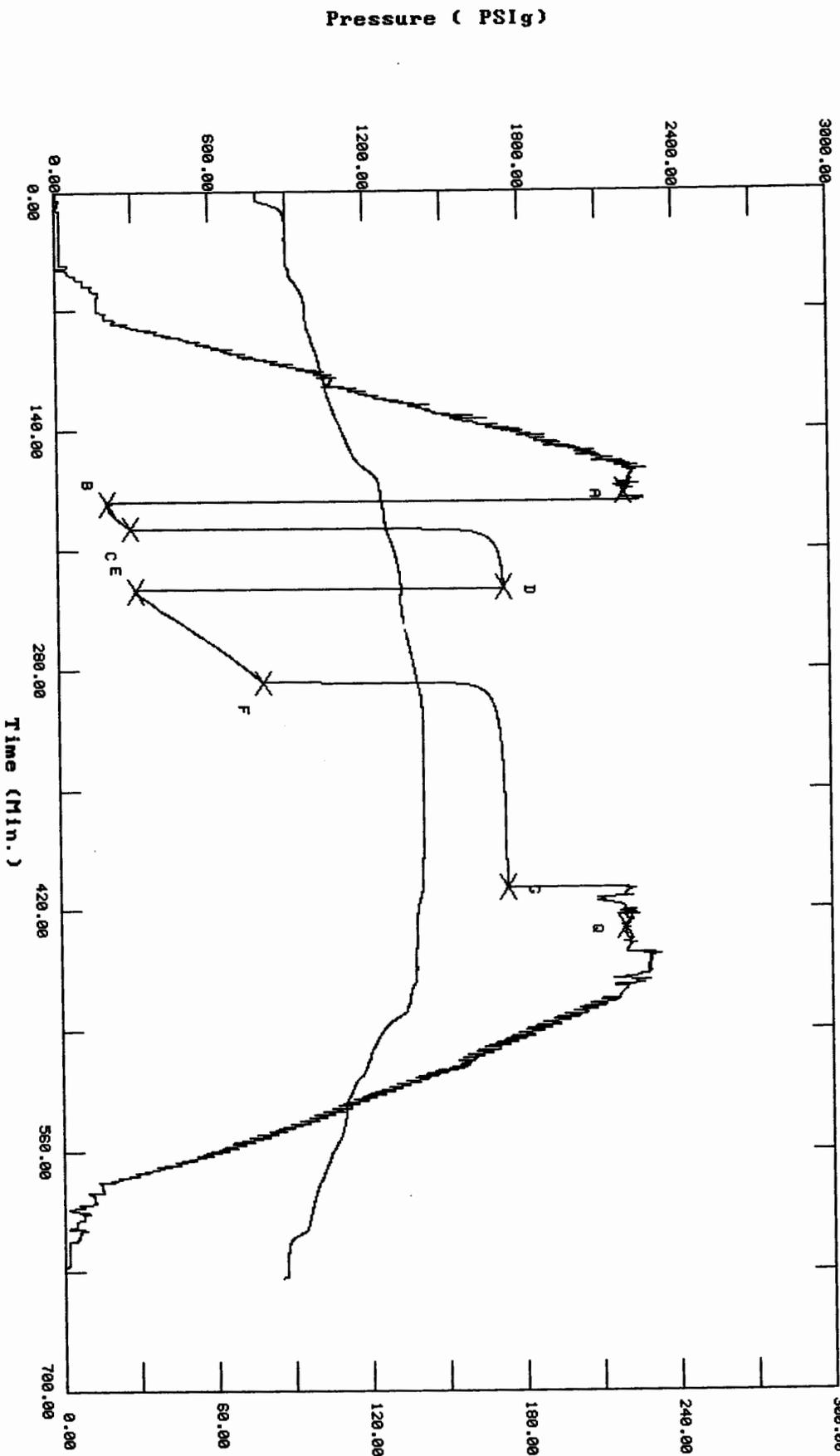


12584 DST#2 Stuckey #1 HRF Exploration

TEST HISTORY

Flag Points
(Min.) P (PSig)

R:	0.00	2204.64
B:	0.00	196.23
C:	14.50	286.31
D:	35.25	1733.24
E:	0.00	301.73
F:	53.50	797.33
G:	119.50	1738.19
Q:	0.00	2197.51



Pressure (PSig)

Time (Min.)

Temperature (DEG F)

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 12584

Well Name & No. <u>Stackey #1</u>		Test No. <u>#2</u>	Date <u>3-8-00</u>
Company <u>HRF Exploration 49735</u>		Zone Tested <u>Simpson</u>	
Address <u>Gaylord MI.</u>		Elevation _____	KB _____ GL _____
Co. Rep / Geo. <u>Dan Day</u>	Cont. <u>Cruzan Rig 5</u>	Est. Ft. of Pay _____	Por. _____ %
Location: Sec. <u>8</u>	Twp. <u>355</u>	Rge. <u>1W</u>	Co. <u>Sumner</u> State <u>Ks.</u>
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____	Evaluation (Y, N) _____

Interval Tested <u>4405-4415</u>	Initial Str Wt./Lbs. <u>86,000</u>	Unseated Str Wt./Lbs. <u>86,000</u>
Anchor Length <u>10'</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>98,000</u>
Top Packer Depth <u>4400</u>	Tool Weight <u>1800</u>	
Bottom Packer Depth <u>4405</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>4415</u>	Wt. Pipe Run _____	Drill Collar Run <u>355</u> ^{6 str}
Mud Wt. <u>8.9</u> LCM <u>4</u> Vis. <u>45</u> WL <u>7.2</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>4054</u> ⁶³¹
Blow Description <u>1st open strong blow B.O.B. in 15 sec.</u>		
<u>Bled 2" blow never died</u>		
<u>2nd open B.O.B. as soon as tool opened</u>		
<u>blow never died Oil to surface 1^{hr} into final shut in</u>		

Recovery — Total Feet <u>4255</u> GIP <u>GTS</u>	Ft. in DC <u>355</u>	Ft. in DP <u>4054</u>
Rec. <u>4255</u> Feet Of <u>Gassy Oil</u>	10% gas 90% oil	%water %mud
Rec. <u>120</u> Feet Of <u>Gassy oilcut Mud</u>	15% gas 5% oil	%water 90% mud
Rec. _____ Feet Of _____	%gas %oil	%water %mud
Rec. _____ Feet Of _____	%gas %oil	%water %mud
Rec. _____ Feet Of _____	%gas %oil	%water %mud

BHT _____ °F Gravity 42 °API D@ 80 °F Corrected Gravity 40 °API

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

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>2204</u>	<u>3026</u>	<u>12:30 A.M.</u>
(B) First Initial Flow Pressure	}	<u>196</u>	(depth) <u>4413</u>	T-Started <u>2:00 A.M.</u>
(C) First Final Flow Pressure		<u>286</u>	PSI Recorder No. _____	T-Open <u>5:12 A.M.</u>
(D) Initial Shut-In Pressure		<u>1733</u>	(depth) _____	T-Pulled <u>8:57 A.M.</u>
(E) Second Initial Flow Pressure		<u>301</u>	PSI Recorder No. _____	T-Out <u>1:00 P.M.</u>
(F) Second Final Flow Pressure		<u>297</u>	(depth) _____	T-Off Location _____
(G) Final Shut-in Pressure		<u>1738</u>	PSI Initial Opening <u>15</u>	Test <input checked="" type="checkbox"/> <u>700⁰⁰</u>
(Q) Final Hydrostatic Mud		<u>2197</u>	PSI Initial Shut-in <u>30</u>	Jars <input checked="" type="checkbox"/> <u>200⁰⁰</u>
		Final Flow <u>60</u>	Safety Joint <input checked="" type="checkbox"/> <u>50⁰⁰</u>	
		Final Shut-in <u>120</u>	Straddle _____	
			Circ. Sub <input checked="" type="checkbox"/> <u>35⁰⁰</u>	
			Sampler <input checked="" type="checkbox"/> <u>200⁰⁰</u>	
			Extra Packer _____	
			Elec. Rec. <input checked="" type="checkbox"/> <u>150⁰⁰</u>	
			Mileage _____	
			Other <u>shale packer 150⁰⁰</u>	
			TOTAL PRICE \$ <u>1475⁰⁰</u>	

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Approved By [Signature]

Our Representative Scott Bugbee

ext 3hrs 90
1575