

15-081-21247

KCC

CONFIDENTIAL

NOV 15 2000 *Sc*

RELEASED

Well Name: Patterson #1-33

CONFIDENTIAL

RECEIVED

Company: John O Farmer

DEC 19 2001

Location: 33-30s-31w

NOV 14 1999

Haskell country Kansas

FROM CONFIDENTIAL

Date: 9-9-99

CONFIDENTIAL

ORIGINAL

RELEASED

DEC 19 2001

FROM CONFIDENTIAL

CONFIDENTIAL

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : J O Farmer Inc.

DATE 9-7-99

WELL NAME: Patterson #1-33

KB 2844.00 ft

TICKET NO: 11969 DST #1

LOCATION : 33-30S-31W Haskell co KS

GR 2839.00 ft

FORMATION: Lwr Morrow

INTERVAL : 5315.00 To 5430.00 ft

TD 5430.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 5 Rec.	13339	13339	3024			PF Fr. 0143 to 0148 hr
SI 30 Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 0148 to 0218 hr
SF 90 Clock(hrs)	12 HR	12	ALP			SF Fr. 0218 to 0348 hr
FS 240 Depth(ft)	5425.0	5425.0	5320.0	0.0	0.0	FS Fr. 0348 to 0748 hr

	Field	1	2	3	4	
A. Init Hydro	2721.0	2756.0	2712.0	0.0	0.0	T STARTED 2337 hr
B. First Flow	569.0	585.0	945.0	0.0	0.0	T ON BOTM 0140 hr
B1. Final Flow	569.0	585.0	514.0	0.0	0.0	T OPEN 0143 hr
C. In Shut-in	1642.0	1647.0	1684.0	0.0	0.0	T PULLED 0748 hr
D. Init Flow	519.0	535.0	488.0	0.0	0.0	T OUT 1030 hr
E. Final Flow	395.0	407.0	384.0	0.0	0.0	
F. Fl Shut-in	1652.0	1647.0	1686.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2423.0	2438.0	2587.0	0.0	0.0	Tool Wt. 2000.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 90000.00 lbs
						Initial Str Wt 80000.00 lbs
						Unseated Str Wt 86000.00 lbs
						Bot Choke 0.75 in
						Hole Size 8.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 235.00 ft
						D.P. Length 5060.00 ft

RECOVERY

-- Tot Fluid 190.00 ft of 190.00 ft in DC and 0.00 ft in DP
 190.00 ft of Drilling 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

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SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Strong blow off bottom immediately

Gas to surface in 4 mins.

Initial Shut-in:

No return blow

Final Flow:

Strong return gauged 9#psi on 1 1/2"

= 1198 mcf/day

Final Shut-in:

No return blow

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	46.00 S/L
W.L.	9.60 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	127.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Rod Steinbrink
Co. Rep.	Craig Caulk
Contr.	Abercrombie
Rig #	4
Unit #	
Pump T.	

--SAMPLES:

SENT TO:

Test Successful: Y

From: Robert Caraway Caraway Analytical, Inc. Fax: 316-626-7108
To: Simpson, Paul - Backup Trilobite Tesing, L. L. C. Fax: 1-785-625-4504

9:45:27 9/8/99 Page 2 of 2 Log:992

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

Lab Number: 994937
Sample From: Patterson 1-33 DST 1
Producer: John O. Farmer
Date:
Time:
Sampler:
Source:

Analyzed: 09/08/99
Pressure:
Temperature:
Location: 33-30-31
County: Haskell
State: Kansas
Formation: Morrow

	Mole %	GPM
Helium	He: 0.210	0.000
Hydrogen	H2: 0.000	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 9.083	0.000
Carbon Dioxide	CO2: 0.196	0.000
Methane	C1: 79.010	0.000
Ethane	C2: 6.054	1.619
Propane	C3: 3.345	0.922
Iso Butane	iC4: 0.489	0.160
Normal Butane	nC4: 0.886	0.279
Iso Pentane	iC5: 0.205	0.075
Normal Pentane	nC5: 0.215	0.078
Hexanes Plus	C6+: 0.307	0.134
TOTAL:	100.000	3.267
Z Fact:	0.9975	
SP. GR.:	0.6925	
BTU (SAT):	1053.2 @ 14.73 psia	
BTU (DRY):	1071.8 @ 14.73 psia	
OCTANE RATING:	113.8	

COMMENTS: Perfs 5315-5430

0.000

GAS RECOVERY

COMPANY: J O Farmer Inc. DATE: 9-7-99
 WELL NAME: Patterson #1-33 KB Elev: 2844.00 ft TICKET #11969 DST #1
 WELL LOCATION: 33-30S-31W Haskell co KS GR Elev: 2839.00 ft FORMATION: Lwr Morrow
 INTERVAL Fr.: 5315.00 To 5430.00 T.D.: 5430.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH 2" Merla Gauge

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	1.50	12	0	1420000.0
20	1.50	13	0	1490000.0
30	1.50	12	0	1420000.0
40	1.50	11	0	1348000.0
50	1.50	10	0	1274000.0
60	1.50	10	0	1274000.0
70	1.50	9	0	1198000.0
80	1.50	9	0	1198000.0
90	1.50	9	0	1198000.0

*** TOOL DIAGRAM *** CONVENTIONAL

ELL NAME: Patterson #1-33

LOCATION : 33-30S-31W Haskell co KS

TICKET No. 11969 D.S.T. No. 1 DATE 9-7-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS 31

INTERVAL TOOL 22

BOTTOM PACKERS AND ANCHOR

TOTAL TOOL 53

WELL COLLAR ANCHOR IN INTERVAL

C. ANCHOR STAND.Stands Single Total

P. ANCHOR STAND.Stands 1 Single 1 Total 93

TOTAL ASSEMBLY 146

C. ABOVE TOOLS.Stands4 Single Total 235

P. ABOVE TOOLS.Stands81 Single 1 Total 5060

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5441

TOTAL DEPTH 5430

TOTAL DRILL PIPE ABOVE K.B. 11

MARKS:

Sampler Data;

Gas; 4000 ml

Oil;

Water;

Slud;

Total Volume; 4000 ml

Pressure; 1350 # psi

P.O. SUB 1' Above 120' DC	5165
C.O. SUB 1'	5285
S.I. TOOL 5'	5291
3' Sampler	5294
HMV 5'	5299
JARS 5'	5304
SAFETY JOINT 2'	5306
PACKER 4'	5310
PACKER 5'	5315
DEPTH	
STUBB 1'	5316
ANCHOR	
ALP Rec. @	5320
14' Perf	5330
1' c/o sub	5331
93' DP	5424
1' c/o sub	5425
T.C.	
DEPTH	
AK-1 Rec. @	5425
BULLNOSE 5'	
T.D.	5430

TEST HISTORY

11969 DST #1 Patterson #1-33 J O Farmer Inc.

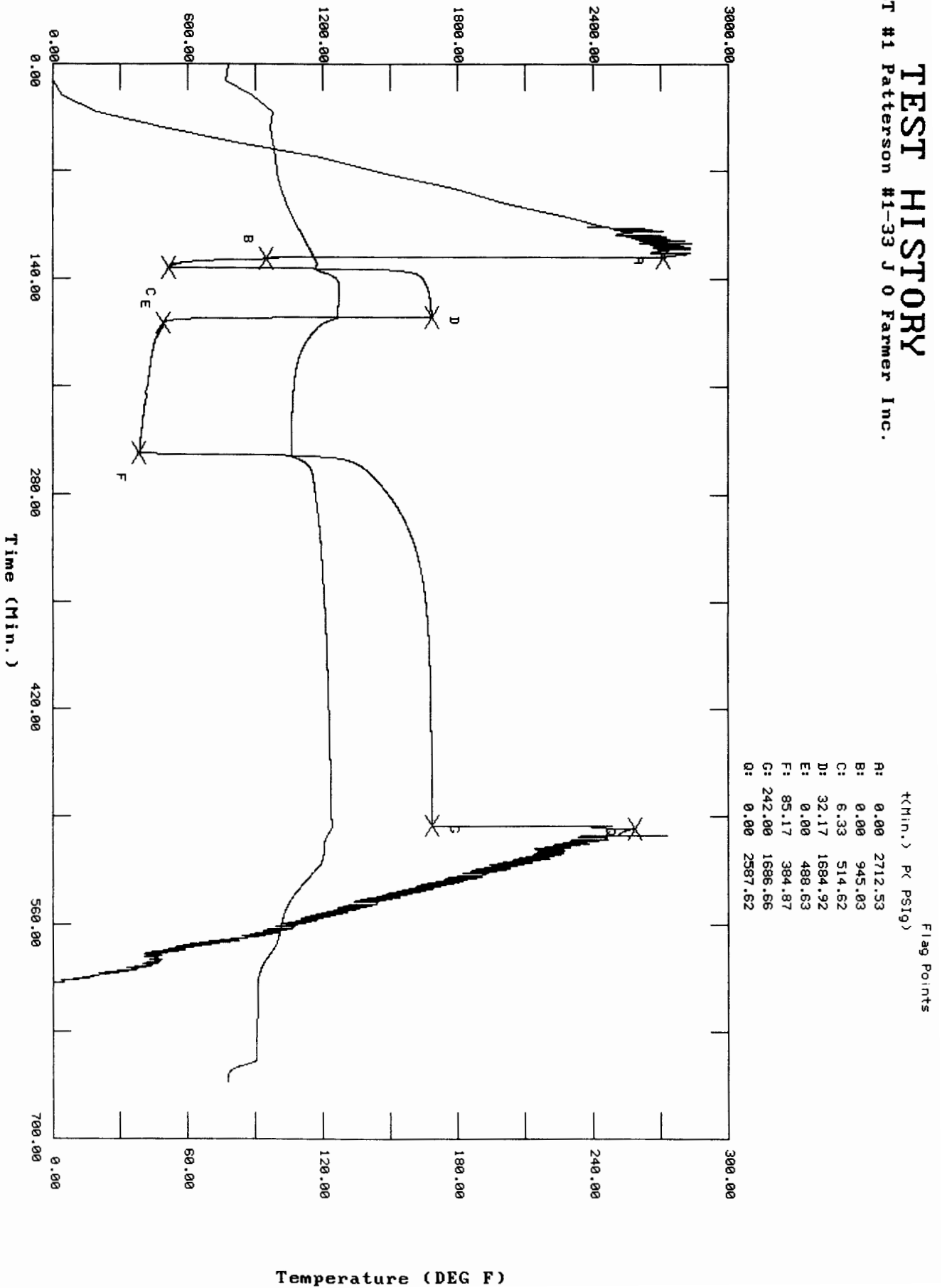
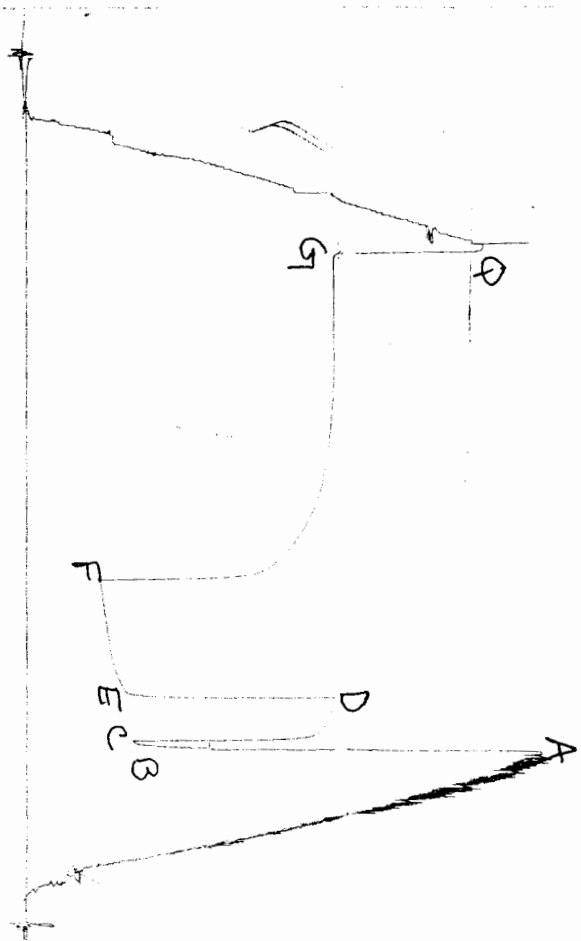


CHART PAGE

DST #1
13339



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 11969 Date 9-7-99
Company Name John D. Farmer Cont. Abercrombie #4
Lease Patterson #1-33 Test No. #1 Lwr. Morrow
County Haskell KS Sec. 33 Twp. 30^s Rng. 31^w

SAMPLER RECOVERY

Gas 4,000 ML
Oil _____ ML
Mud _____ ML
Water _____ ML
Other _____ ML
Pressure 1350 # PSI
Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 4,500 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 46
Mud Weight 9.2
Filtrate 9.6
Other LCM 2#/bbl

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.



GAS VOLUME REPORT

41
DST NO.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N^o 11969

Test Ticket

Well Name & No.	<u>Patterson #1-33</u>	Test No.	<u>1</u>	Date	<u>9-7-99</u>
Company	<u>John O. Farmer Inc.</u>	Zone Tested	<u>Lwr Morrow</u>		
Address	<u>P.O. Box 352 Russell, KS. 67665</u>	Elevation	<u>2844</u>	KB	<u>2839</u> GL
Co. Rep / Geo.	<u>Craig Cavik</u>	Cont.	<u>Abercrombie #4</u>	Est. Ft. of Pay	<u> </u> Por. <u> </u> %
Location: Sec.	<u>33</u>	Twp.	<u>30^s</u>	Rge.	<u>31^w</u> Co. <u>Haskell</u> State <u>KS.</u>
No. of Copies	<u> </u>	Distribution Sheet (Y, N)	<u> </u>	Turnkey (Y, N)	<u>N</u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>5315 - 5430</u>	Initial Str Wt./Lbs.	<u>80,000</u>	Unseated Str Wt./Lbs.	<u>86,000</u>
Anchor Length	<u>115'</u>	Wt. Set Lbs.	<u>30,000</u>	Wt. Pulled Loose/Lbs.	<u>90,000</u>
Top Packer Depth	<u>5310</u>	Tool Weight	<u>2,000</u>		
Bottom Packer Depth	<u>5315</u>	Hole Size — 7 7/8"	<u> </u>	Rubber Size — 6 3/4"	<u> </u>
Total Depth	<u>5430</u>	Wt. Pipe Run	<u> </u>	Drill Collar Run	<u>-235'</u> (4)
Mud Wt. <u>9.2</u> LCM <u>2*</u> Vis. <u>46</u> WL <u>9.6</u>		Drill Pipe Size	<u>4 1/2" XH</u>	Ft. Run	<u>5060'</u> (81)
Blow Description	<u>IF: Strong blow off btm immediately GTS 4 min</u>				
	<u>ISI: No return blow</u>				
	<u>FF: Strong return gauged 9 psi on 1 1/2" = 1198 mcf/day</u>				
	<u>ESI: No return blow.</u>				

Recovery — Total Feet	<u>190'</u>	GIP	<u>GTS 4 min IF</u>	Ft. in DC	<u>190'</u>	Ft. in DP	<u> </u>
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.	<u>190'</u>	Feet Of	<u>Drilg 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
BHT	<u>127°</u>	°F Gravity	<u> </u>	°API D@	<u> </u>	°F Corrected Gravity	<u> </u> °API
RW	<u> </u>	@	<u> </u> °F	Chlorides	<u> </u> ppm	Recovery	Chlorides <u>4,500</u> ppm System

	AK-1	Alpine					
(A) Initial Hydrostatic Mud	<u>2721</u>	<u>2712</u>	PSI	Recorder No.	<u>3024</u>	T-On Location	<u>2200</u>
(B) First Initial Flow Pressure	<u>569</u>	<u>945</u>	PSI	(depth)	<u>5320</u>	T-Started	<u>2337</u>
(C) First Final Flow Pressure	<u>569</u>	<u>514</u>	PSI	Recorder No.	<u>13339</u>	T-Open	<u>0143</u>
(D) Initial Shut-In Pressure	<u>1642</u>	<u>1684</u>	PSI	(depth)	<u>5425</u>	T-Pulled	<u>0148</u>
(E) Second Initial Flow Pressure	<u>519</u>	<u>488</u>	PSI	Recorder No.	<u> </u>	T-Out	<u>1030</u>
(F) Second Final Flow Pressure	<u>395</u>	<u>384</u>	PSI	(depth)	<u> </u>	T-Off Location	<u>1200</u>
(G) Final Shut-in Pressure	<u>1652</u>	<u>1686</u>	PSI	Initial Opening	<u>5</u>	Test	<u> </u>
(Q) Final Hydrostatic Mud	<u>2423</u>	<u>2587</u>	PSI	Initial Shut-in	<u>30</u>	Jars	<u>X</u>
				Final Flow	<u>11990</u>	Safety Joint	<u>X</u>
				Final Shut-in	<u>240</u>	Straddle	<u> </u>

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 [Signature]

Our Representative Rod Steinbrink

TOTAL PRICE \$