

JOHN O. FARMER, INC.

P.O. Box 352

Russell, KS 67665

(785) 483-3144

Distribution:

Landmark Energy
 Martin Dubois
 Discovery Capital, LLC
 Rick A. Ball
 Timothy J. Swanson
 David L. Murfin
 DaMar Resources, Inc.
 Relative Investment Co.
 Stephen W. Dunne
 L.D. Davis

#2-33 PATTERSON

C NE SW
 Sec. 33-30S-31W
 Haskell County, Kansas

2830' G.L.

2841' K.B.

Drilling Contractor:

Murfin Drilling - Rig #20
 (785) 694-3635 (Rig)
Toolpusher - Rodney Farr
 Home (785) 475-2075
 Cellular (785) 694-3669
Geologist - Craig Caulk
 Office (316) 263-7405
 Cellular (316) 204-4133
 Home (316) 682-7119

API #15-081-21,300-00-00

TIGHT HOLE - DO NOT RELEASE INFORMATION

5/9/00

Move in Murfin's Rig #20.

5/10/00

Spud well.

5/11/00

1705', drilling. Set 8-5/8" casing @ 1802' w/525 sks.
 Lite, 150 sks. Common w/3% C.C. & 1/4# Floseal.
 Plug down @ 4:45 P.M.

5/12/00

1925', drilling

5/13/00

3025', drilling

5/14/00

3756', drilling

5/15/00

4580', drilling

5/16/00

5095', drilling

5/17/00

5397', going in with DST #1

DST #1 5298-5397' (Morrow Sand)

30-120-90-270

9' drilling break (1"/ft.) w/150 unit gas kick

1st open - 4-1/2" blow (30 min.)

2nd open - BOB in 30 secs., GTS 20",

gauge as follows:

35" - 2,370 cfg.

40" - 4,450 cfg.

45" - 3,710 cfg.

50" - 1,680 cfg.

55" - 3,710 cfg.

60" - 5,320 cfg.

65" - 4,120 cfg.

70" - 1,680 cfg.

75" - 3,370 cfg.

80" - 1,680 cfg.

85" - 1,420 cfg.

90" - 5,050 cfg.

Rec: 500' drilling mud

FP: 68-156#, 114-195#

SIP: 871-1153#

HP: 2499-2347#

BHT: 125° F

5/18/00

5430', drilling

(8:00 A.M.) 5454' - circulating for samples (Chester Sand) 10' drilling break, averaged 1"/ft. 50 unit gas kick. We will evaluate this zone on E-log.

5/19/00

5525', preparing to plug well. Electric logs indicate nothing further to test.

Plugged with 110 sks. 60/40 Pozmix, 6% gel

1st plug 1800' w/50 sks.

2nd plug 630' w/25 sks.

3rd plug 40' w/10 sks.

rathole 15 sks.

mousehole 10 sks.

Completed @ 6:00 P.M., 5-19-00

FINAL REPORT

JOF, Inc.
 Patterson #1-33
 C SE NE 33-30-31
 2844' K.B.

JOF, Inc. Patterson #2-33
 C NE SW 33-30-31
 2841' K.B.

	Sample	E-Log	
Chase Herrington	2653' (+191)		2649' (+192)
Heebner Shale	4203' (-1359)	4183' (-1342)	4181' (-1340)
Cherry Shale	4739' (-1895)	4691' (-1850)	4700' (-1859)
Upper Cherokee	5049' (-2205)	5037' (-2196)	5035' (-2194)
Lower Cherokee	5090' (-2246)	5077' (-2236)	5076' (-2235)
Atoka Shale	5281' (-2437)	5264' (-2423)	5264' (-2423)
Morrow Shale	5320' (-2476)	5302' (-2461)	5305' (-2464)
Upper Morrow Sd.	5360' (-2516)	NONE	
Morrow Pay Sd.	5397' (-2553)	5377' (-2536)	5378' (-2537)
Base Pay Sd.	5428' (-2584)	5404' (-2563)	5403' (-2562)
Miss. Chester	5458' (-2614)	5412' (-2571)	5426' (-2585)
Chester Sd.	5502' (-2658)	5442' (-2601)	5480' (-2639)
St. Gen.	5519' (-2675)	5496' (-2655)	5497' (-2656)
RTD		5525' (-2684)	5526' (-2685)
LTD			

15-081-21300

KCC

AUG 30 2000

CONFIDENTIAL

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WELL NAME:

COMPANY:

LOCATION:

DATE:

Patterson 2-33

John O. Farmer

33-30s-31w

Haskell co KS

5/24/00

ORIGINAL

RELEASED

NOV 12 2002

FROM CONFIDENTIAL

RECEIVED
STATE CORPORATION COMMISSION

SEP 01 2000

CONSERVATION DIVISION
Wichita, Kansas

CONFIDENTIAL

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : John O. Farmer

DATE 5-17-2000

WELL NAME: Patterson 2-33

KB 2841.00 ft

TICKET NO: 12543

DST # 1

LOCATION : 33-30s-31w Haskell co KS

GR 2830.00 ft

FORMATION: Morrow

INTERVAL : 5298.00 To 5397.00 ft

TD 5397.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13278	13278	2357			PF Fr. 0838 to 0908 hr
SI 120 Range(Psi)	4400.0	4400.0	5000.0	0.0	0.0	IS Fr. 0908 to 1108 hr
SF 90 Clock(hrs)	12HR	12HR	ELECT			SF Fr. 1108 to 1238 hr
FS 270 Depth(ft)	5394.0	5394.0	5299.0	0.0	0.0	FS Fr. 1238 to 1708 hr

	Field	1	2	3	4	
A. Init Hydro	2537.0	2581.0	0.0	0.0	0.0	T STARTED 0553 hr
B. First Flow	187.0	185.0	0.0	0.0	0.0	T ON BOTM 0836 hr
B1. Final Flow	209.0	197.0	0.0	0.0	0.0	T OPEN 0838 hr
C. In Shut-in	871.0	855.0	0.0	0.0	0.0	T PULLED 1708 hr
D. Init Flow	231.0	239.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	242.0	239.0	0.0	0.0	0.0	
F. Fl Shut-in	993.0	986.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	0.0	0.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	I	I	I			Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 0.00 lbs
						Initial Str Wt 56000.00 lbs
						Unseated Str Wt 0.00 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 274.00 ft
						D.P. Length 5011.00 ft

RECOVERY

Tot Fluid 500.00 ft of 274.00 ft in DC and 226.00 ft in DP
 500.00 ft of Drilling mud
 0.00 ft of 100% 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

KCC
 AUG 30 2000
CONFIDENTIAL

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

BLOW DESCRIPTION

Initial Flow:
 Surface blow built to weak 4 1/2" blow in 30 minutes.
 Initial Shut-In:
 No blow back.
 Final Flow:
 Very strong blow bottom of bucket in 30 seconds. Gas to surface in 20 minutes.
 Final Shut-In:
 No blow back.

RELEASED
 NOV 12 2002
FROM CONFIDENTIAL

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	54.00 S/L
W.L.	9.20 in3
F.C.	0.00 in
Mud Drop Y	30.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	0.00 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	Brad Bortz
Co. Rep.	Craig Caulk
Contr.	Murfin
Rig #	20
Unit #	
Pump T.	

Test Successful: Y

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GAS RECOVERY

COMPANY: John O. Farmer DATE: 5-17-2000
WELL NAME: Patterson 2-33 KB Elev: 2841.00 ft TICKET #12543 DST # 1
WELL LOCATION: 33-30s-31w Haskell co KS GR Elev: 2830.00 ft FORMATION: Morrow
INTERVAL Fr.: 5298.00 To 5397.00 T.D.: 5397.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH 2" MERLA ORFICE

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
35	0.25	0	2	2370.0
40	0.25	0	7	4450.0
45	0.25	0	5	3710.0
50	0.25	0	1	1680.0
55	0.25	0	5	3710.0
60	0.25	0	10	5320.0
65	0.25	0	6	4120.0
70	0.25	0	1	1680.0
75	0.25	0	4	3370.0
80	0.25	0	1	1680.0
85	0.25	0	6	4120.0
90	0.25	0	9	5050.0

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: 20002899
 Sample From: Patterson 2-38 DST 1
 Producer: John O. Farmer
 Date:
 Time:
 Sampler:
 Source:

Analyzed: 05/22/00
 Pressure:
 Temperature:
 Location: 33-30-31
 County: Haskell
 State: Kansas
 Formation: Morrow

	Mole %	GPM
Helium	He: 0.256	0.000
Hydrogen	H2: 0.008	0.000
Oxygen	O2: 0.230	0.000
Nitrogen	N2: 11.593	0.000
Carbon Dioxide	CO2: 0.183	0.000
Methane	C1: 77.025	0.000
Ethane	C2: 5.624	1.504
Propane	C3: 2.955	0.814
Iso Butane	iC4: 0.465	0.152
Normal Butane	nC4: 0.802	0.253
Iso Pentane	iC5: 0.212	0.078
Normal Pentane	nC5: 0.209	0.076
Hexanes Plus	C6+: 0.438	0.191
	TOTAL: 100.000	3.068
	Z Fact: 0.9976	
	SP.GR.: 0.6998	
	BTU (SAT): 1019.3 @ 14.73 psia	
	BTU (DRY): 1037.3 @ 14.73 psia	
	OCTANE RATING: 110.3	

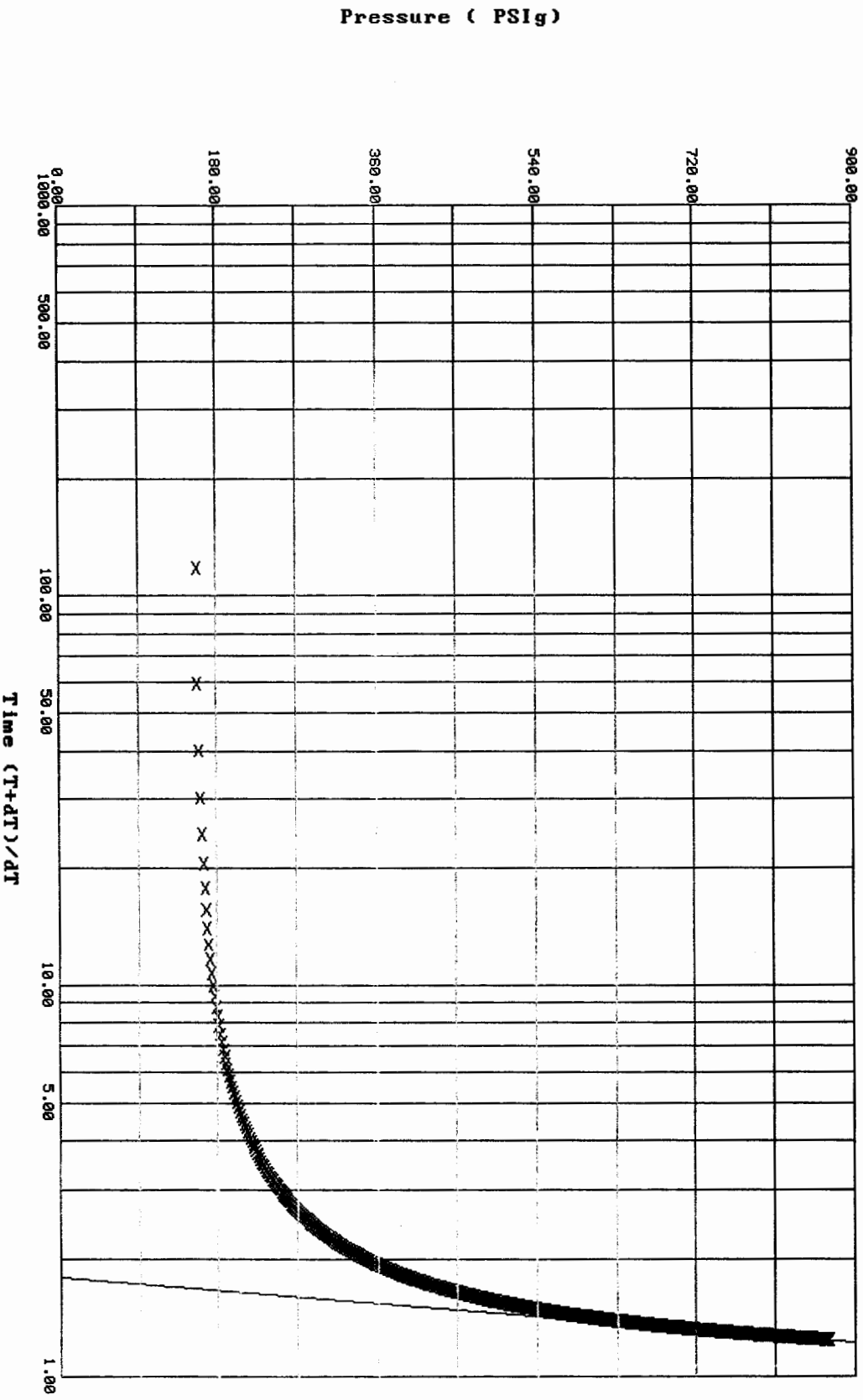
 COMMENTS: CORRECTED COPY

0.230

Horner Plot: Shut-in #1

12543 DST #1 Patterson 2-33 John O. Farmer

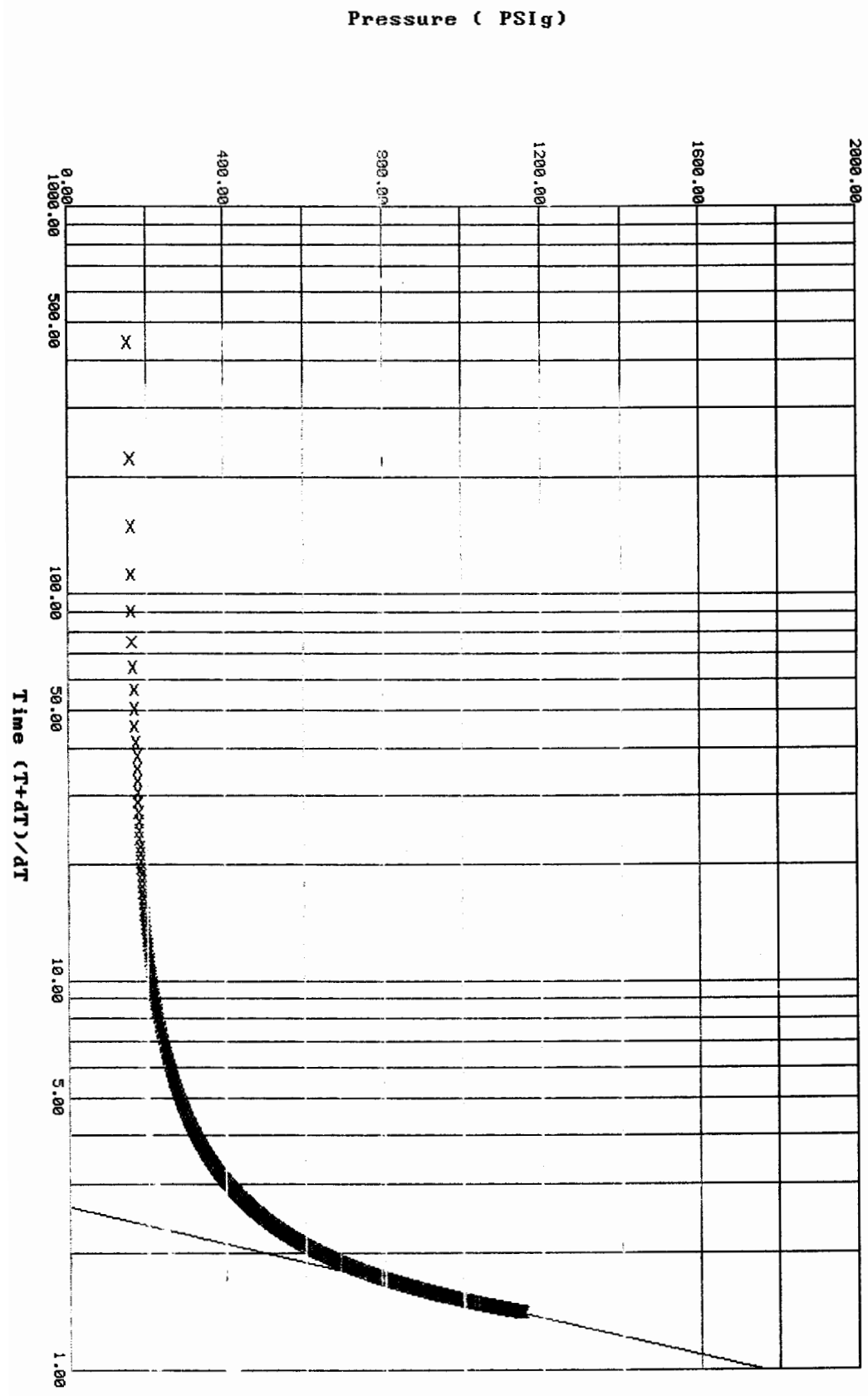
Slope: 5446.2651 PSig/cycle
 Ext. Pressure: 1375.4261 PSig



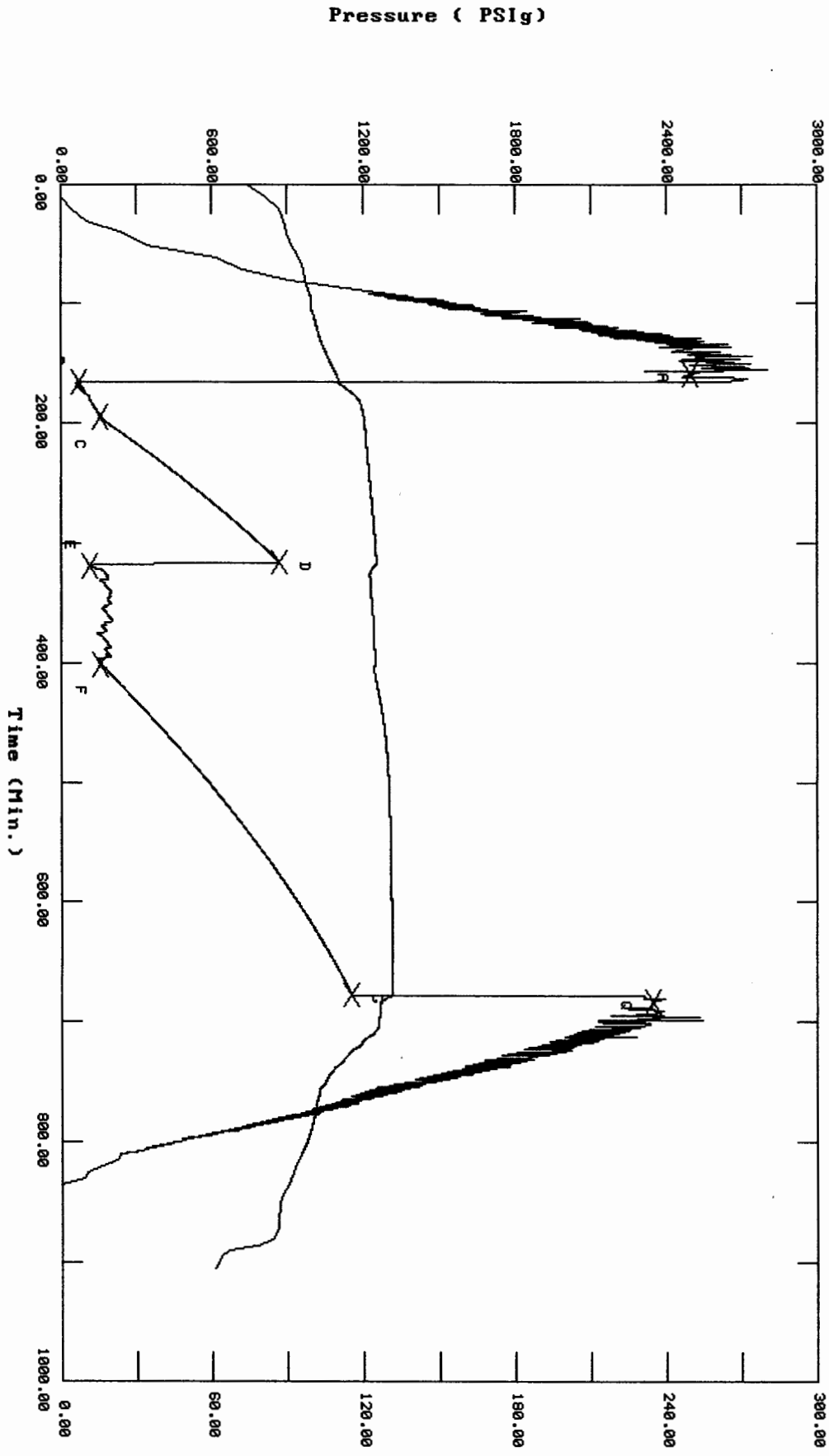
Horner Plot: shut-in #2

12543 DST #1 Patterson 2-33 John O. Farmer

Slope: 4238.6045 PSig/cycle
Ext. Pressure: 1763.5256 PSig



TEST HISTORY
 12543 DST #1 Patterson 2-33 John O. Farmer



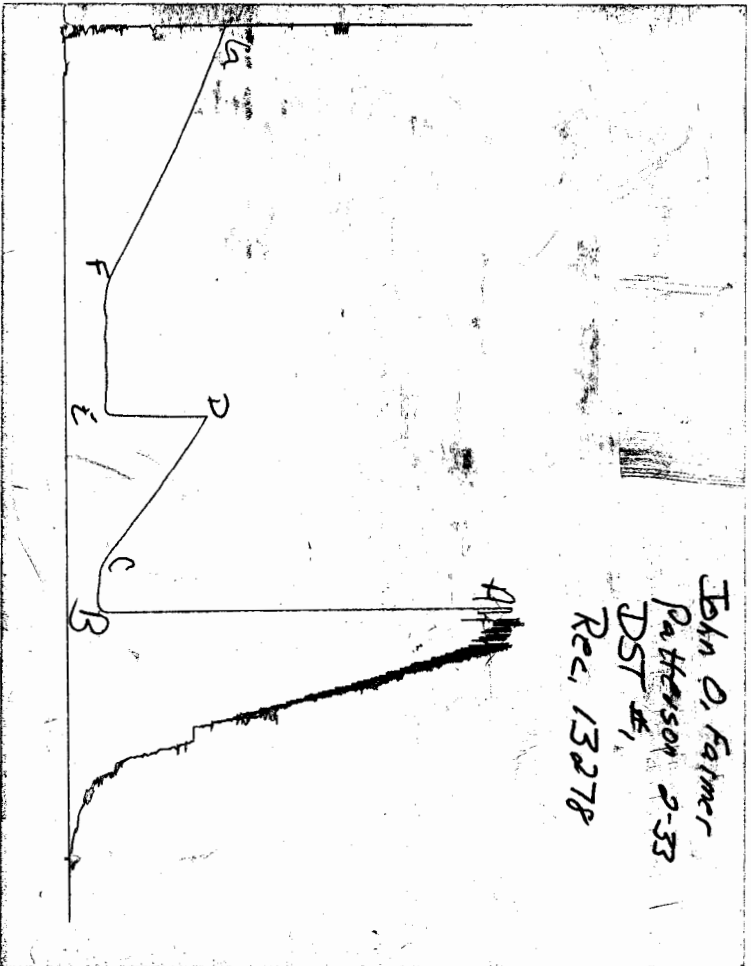
Flag Points

(Min.)	P (PSig)
A:	0.00 2499.54
B:	0.00 68.16
C:	29.25 156.70
D:	121.80 871.29
E:	0.00 114.42
F:	82.00 152.19
G:	276.50 1153.35
H:	0.00 2347.50

Temperature (DEG F)

CHART PAGE

John O. Farmer
Ratherson 2-53
DST #,
Rec. 13278



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

N^o 12543

Well Name & No. <u>Patterson 2-33</u>	Test No. <u>1</u>	Date <u>5-17-2000</u>
Company <u>John O. Farmer</u>	Zone Tested <u>Morrow</u>	
Address <u>P.O. Box 352, Russell Ks, 67665</u>	Elevation <u>2841</u>	KB <u>2830</u> GL
Co. Rep / Geo. <u>Craig Caulk</u>	Cont. <u>Murfin 20</u>	Est. Ft. of Pay <u>—</u> Por. <u>—</u> %
Location: Sec. <u>33</u>	Twp. <u>30s</u>	Rge. <u>31W</u> Co. <u>Haskell</u> State <u>Ks</u>
No. of Copies <u>R</u>	Distribution Sheet (Y, N) <u>—</u>	Turnkey (Y, N) <u>—</u> Evaluation (Y, N) <u>—</u>

Interval Tested <u>5298-5397</u>	Initial Str Wt./Lbs. <u>56,000</u>	Unseated Str Wt./Lbs. <u>62,000</u>
Anchor Length <u>99'</u> <u>tool/27'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>10,000</u>
Top Packer Depth <u>5293</u>	Tool Weight <u>1,800</u>	
Bottom Packer Depth <u>5298</u>	Hole Size — <u>7 7/8"</u> —	Rubber Size — <u>6 3/4"</u> —
Total Depth <u>5397</u>	Wt. Pipe Run <u>—</u>	Drill Collar Run <u>274</u>
Mud Wt. <u>8.9</u> LCM <u>5#</u> Vis. <u>54</u> WL <u>9.2</u>	Drill Pipe Size <u>4 1/2" KH</u>	Ft. Run <u>5019'</u> <u>18" up</u>

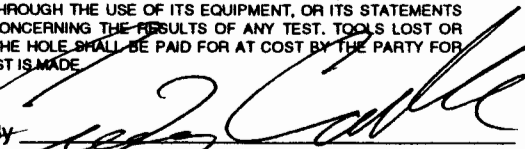
Blow Description Surface Blow built to weak 4 1/2" Blow in 30 min I.F.P.
NO Blow back I.S.I.P.
Very strong Blow O.B.B. in 30 sec, gas to surface in 20 min, F.F.P. "See gas Flow Chart"
NO Blow back F.S.I.P.

Recovery — Total Feet <u>500'</u>	GIP <u>4785</u>	Ft. in DC <u>274</u>	Ft. in DP <u>500 226</u>
Rec. <u>500'</u> Feet Of <u>Orig mud</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 125° °F Gravity — °API D@ — °F Corrected Gravity — °API
RW — @ — °F Chlorides — ppm Recovery Chlorides 2800 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2537</u>	<u>2499</u>	<u>2357</u>	<u>2:00 AM</u>
(B) First Initial Flow Pressure	<u>187</u>	<u>68</u>	(depth) <u>5299</u>	T-Started <u>5:53 AM</u>
(C) First Final Flow Pressure	<u>209</u>	<u>156</u>	PSI Recorder No. <u>13278</u>	T-Open <u>8:38 AM</u>
(D) Initial Shut-In Pressure	<u>871</u>	<u>871</u>	PSI (depth) <u>5394</u>	T-Pulled <u>5:08 PM</u>
(E) Second Initial Flow Pressure	<u>281</u>	<u>114</u>	PSI Recorder No. <u>—</u>	T-Out <u>11:00</u>
(F) Second Final Flow Pressure	<u>242</u>	<u>195</u>	PSI (depth) <u>—</u>	T-Off Location <u>12:00 AM</u>
(G) Final Shut-in Pressure	<u>993</u>	<u>1153</u>	PSI Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/>
(Q) Final Hydrostatic Mud	<u>2347</u>	<u>2347</u>	PSI Initial Shut-in <u>120</u>	Jars <input checked="" type="checkbox"/>
			Final Flow <u>90</u>	Safety Joint <input checked="" type="checkbox"/>
			Final Shut-in <u>270</u>	Straddle _____
				Circ. Sub <input checked="" type="checkbox"/>
				Sampler _____
				Extra Packer _____
				Elec. Rec. <input checked="" type="checkbox"/>
				Mileage _____
				Other _____
				TOTAL PRICE \$ _____

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Approved By 
Our Representative Brad Booy