

WELL NAME

Hartley #1

COMPANY

Raymond Oil Co.

LOCATION

27-30s-13w

Barber co Kansas

DATE

2/6/01

TRILOBITE TESTING L.L.C.

OPERATOR : Raymond Oil Co. DATE 1-29-2001
 WELL NAME: Hartley #1 KB 1903.00 ft TICKET NO: 13624 DST #1
 LOCATION : 27-30S-13W Barber co KS GR 1895.00 ft FORMATION: Douglass Sand
 INTERVAL : 3830.00 To 3890.00 ft TD 3890.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10242	10242	Alpine			PF Fr. 0220 to 0250 hr
SI 60 Range(Psi)	4100.0	4100.0	5000.0	0.0	0.0	IS Fr. 0250 to 0350 hr
SF 60 Clock(hrs)	12 HR	12 HR	Elect			SF Fr. 0350 to 0450 hr
FS 120 Depth(ft)	3887.0	3887.0	3832.0	0.0	0.0	FS Fr. 0450 to 0650 hr

	Field	1	2	3	4	
A. Init Hydro	1995.0	0.0	1898.0	0.0	0.0	T STARTED 2350 hr
B. First Flow	151.0	0.0	71.0	0.0	0.0	T ON BOTM 0218 hr
B1. Final Flow	264.0	0.0	233.0	0.0	0.0	T OPEN 0220 hr
C. In Shut-in	1412.0	0.0	1380.0	0.0	0.0	T PULLED 0650 hr
D. Init Flow	289.0	0.0	197.0	0.0	0.0	T OUT 1015 hr
E. Final Flow	494.0	0.0	451.0	0.0	0.0	
F. Fl Shut-in	1412.0	0.0	1376.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1988.0	0.0	1897.0	0.0	0.0	Tool Wt. 2300.00 lbs
Inside/Outside	I	I	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 13000.00 lbs
						Initial Str Wt 41000.00 lbs
						Unseated Str Wt 42000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.78 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3827.00 ft

RECOVERY

Tot Fluid 745.00 ft of 0.00 ft in DC and 745.00 ft in DP
 3082.00 ft of Gas in pipe
 125.00 ft of Gas cut Mud
 0.00 ft of 12% gs 88% mud
 145.00 ft of Gassy Water cut mud
 0.00 ft of 10% gas 28% water 62% mud
 475.00 ft of Gassy water
 0.00 ft of 4% gas 96% water
 0.00 ft of
 SALINITY 19200.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/cf
Vis.	48.00 S/L
W.L.	12.60 in3
F.C.	0.00 in
Mud Drop Y	20.0 ft

BLOW DESCRIPTION

Initial Flow:
 Strong bottom of bucket in 30 seconds
 Gas to surface in 15 minutes. Gauged
 196,000 CFPD in 30 minutes.
 Initial Shut-In:
 No blow back.
 Final Flow:
 Gauged 285,000 increasing to 445,000
 CFPD in 60 minutes.
 Final Shut-In:
 No blow back.
 Remarks: Est. Ft. of Pay. Gas burned.

Amt. of fill	0.00 ft
Btm. H. Temp.	117.00 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	Lanny Saloga
Co. Rep.	Clarke Sandberg
Contr.	Duke
Rig #	8
Unit #	
Pump T.	

SAMPLES: One
 SENT TO: Caraway

Test Successful: Y

NATURAL GAS ANALYSIS REPORT

Sampled by:
 Trilobite Testing, L. L. C.
 Hays, Kansas
 Scott City, Kansas
 Phone: 800-728-5369
 Fax: 785-625-5620

Analyzed by:
 Caraway Analytical, Inc
 P. O. Box 2137
 Liberal, Kansas 67905
 Phone: 620-624-5389
 Fax: 620-626-7108

Lab Number: 20010533	Analyzed: 02/02/01
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Sample From: Hartley #1 DST 1	Pressure:	
Producer: Raymond Oil	Temperature:	

Date: 01/29/01	Location: 27-30-13
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Time:	County:	Barber
Sampler: Lanny	State:	Kansas
Source:	Formation:	Douglas

-----Sand

	Mole %	GPM
Helium	He: 0.316	0.000
Hydrogen	H2: 0.012	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 11.746	0.000
Carbon Dioxide	CO2: 0.079	0.000
Methane	C1: 75.873	0.000
Ethane	C2: 5.153	1.378
Propane	C3: 4.098	1.129
Iso Butane	iC4: 0.518	0.169
Normal Butane	nC4: 1.310	0.413
Iso Pentane	iC5: 0.248	0.091
Normal Pentane	nC5: 0.326	0.118
Hexanes Plus	C6+: 0.321	0.140

TOTAL: 100.000 3.439

Z Fact: 0.9974

SP.GR.: 0.7149

BTU (SAT): 1046.3 @ 14.73 psia

BTU (DRY): 1064.9 @ 14.73 psia

OCTANE RATING: 110.1

COMMENTS:

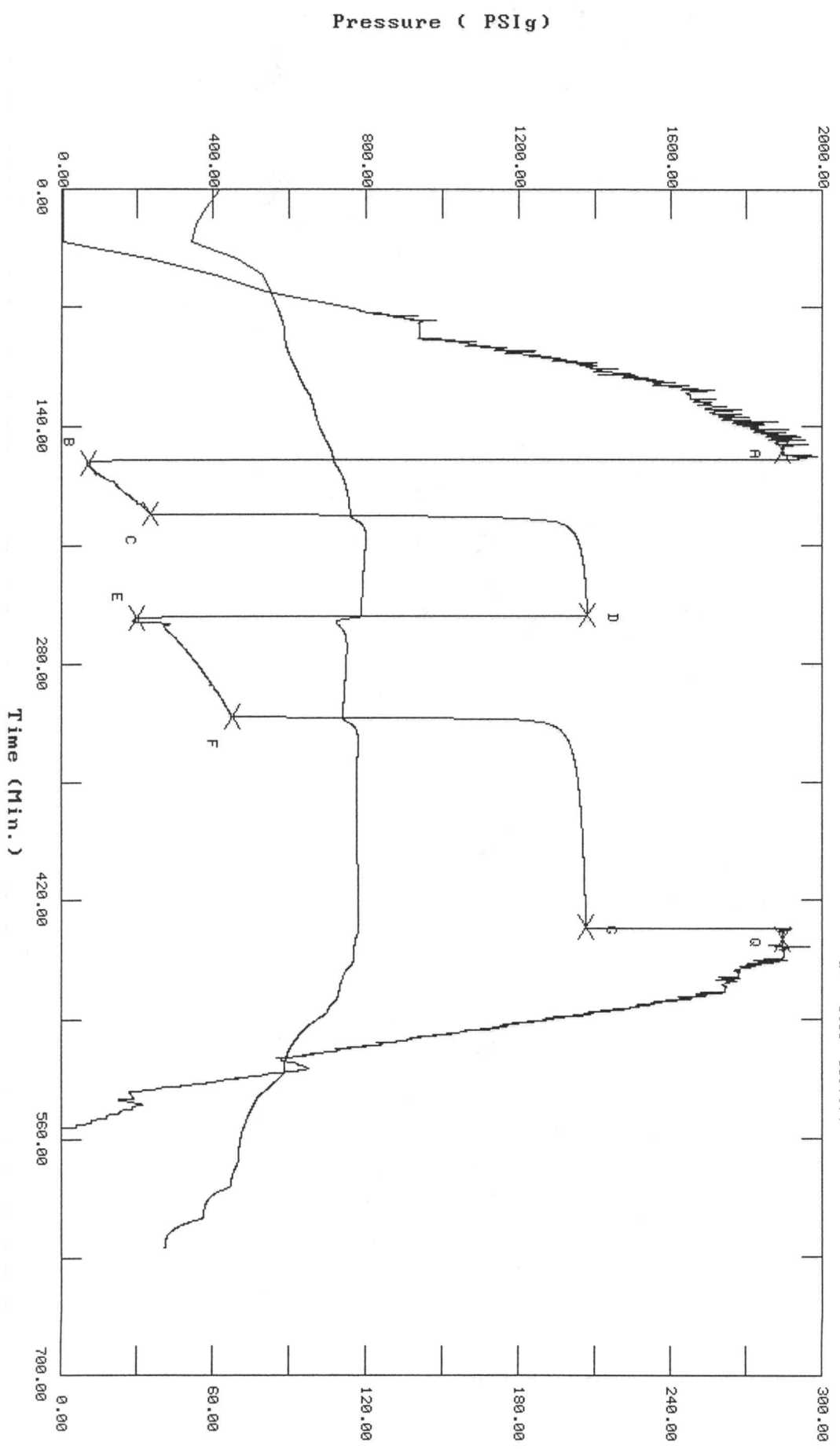
0.000

13624 D.S.T.#1 Hartley #1 Raymond Oil Co.

TEST HISTORY

Flag Points

t(min.)	Pk PSig)
R: 0.00	1898.43
B: 0.00	71.50
C: 30.00	233.36
D: 60.25	1380.08
E: 0.00	197.01
F: 58.75	451.14
G: 124.00	1376.74
H: 0.00	1897.74



Pressure (PSig)

Temperature (DEG F)

Time (Min.)

NATURAL GAS ANALYSIS REPORT

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 Scott City, Kansas
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Lab Number: 20010533	Analyzed: 02/02/01
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Sample From: Hartley #1 DST 1	Pressure:
Producer: Raymond Oil	Temperature:

Date: 01/29/01	Location: 27-30-13
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Time:	County: Barber	
Sampler: Lanny	State: Kansas	
Source:	Formation: Douglas	

-----Sand

	Mole %	GPM
Helium	He: 0.316	0.000
Hydrogen	H2: 0.012	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 11.746	0.000
Carbon Dioxide	CO2: 0.079	0.000
Methane	C1: 75.873	0.000
Ethane	C2: 5.153	1.378
Propane	C3: 4.098	1.129
Iso Butane	iC4: 0.518	0.169
Normal Butane	nC4: 1.310	0.413
Iso Pentane	iC5: 0.248	0.091
Normal Pentane	nC5: 0.326	0.118
Hexanes Plus	C6+: 0.321	0.140

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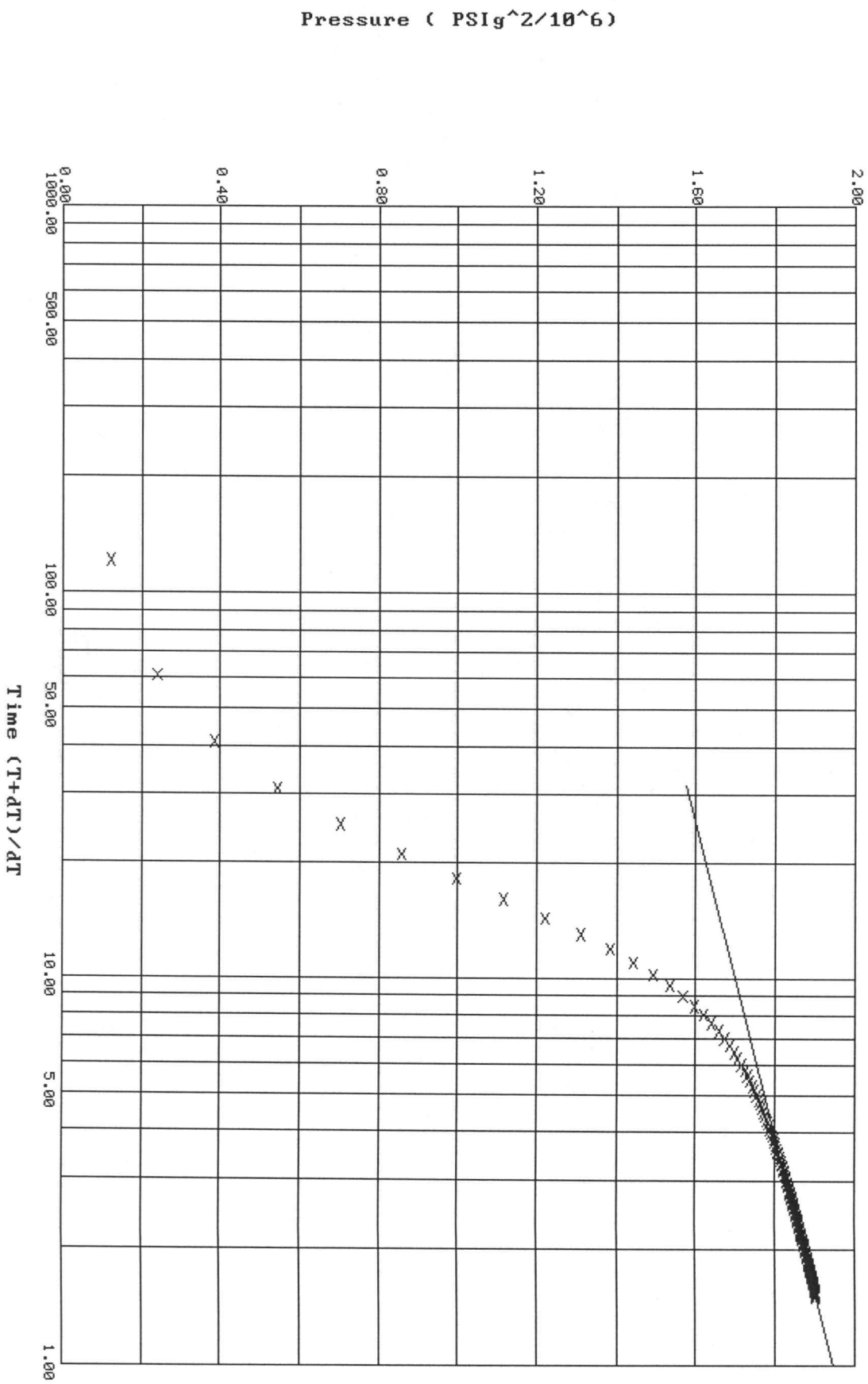
COMMENTS:

0.000

P² Horner Plot: Shut-in #1

13624 D.S.T.#1 Harttley #1 Raymond Oil Co.

Slope: 0.2486 PSig²/10⁶/cycle
 Ext. Pressure: 1395.8329 PSig



P² Horner Plot: Shut-in #2

13624 D.S.T.#1 Hartley #1 Raymond Oil Co.

Slope: 0.2216 PSig²/10⁶/cycle
 Ext. Pressure: 1395.4434 PSig

