

WELL NAME

Dale Trust #1

COMPANY

Thoroughbred Associates

LOCATION

15-32s-20w

Comanche co Kansas

DATE

2/12/01

TRILOBITE TESTING L.L.C.

OPERATOR : Thoroughbred Associates, DATE 01/25/200
 WELL NAME: Dale Trust #1 KB 1892.00 ft TICKET NO: 13579 DST #1
 LOCATION : 15-32s-20w Comanche co KS GR 1887.00 ft FORMATION: Mississippi
 INTERVAL : 5007.00 To 5135.00 ft TD 5135.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10991	10991	3302			PF Fr. 1205 to 1235 hr
SI 60 Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. 1235 to 1335 hr
SF 45 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 1335 to 1420 hr
FS 90 Depth(ft)	5128.0	5128.0	5012.0	0.0	0.0	FS Fr. 1420 to 1550 hr

	Field	1	2	3	4	
A. Init Hydro	2558.0	0.0	2453.0	0.0	0.0	T STARTED 0918 hr
B. First Flow	45.0	0.0	53.0	0.0	0.0	T ON BOTM 1202 hr
B1. Final Flow	45.0	0.0	58.0	0.0	0.0	T OPEN 1205 hr
C. In Shut-in	0.0	0.0	1812.0	0.0	0.0	T PULLED 1550 hr
D. Init Flow	0.0	0.0	48.0	0.0	0.0	T OUT 1800 hr
E. Final Flow	0.0	0.0	74.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	1823.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2285.0	0.0	2394.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 85000.00 lbs
						Initial Str Wt 80000.00 lbs
						Unseated Str Wt 80000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 249.64 ft
						D.P. Length 4941.10 ft

RECOVERY

Tot Fluid 130.00 ft of 130.00 ft in DC and 0.00 ft in DP
 4855.00 ft of Gas in pipe
 130.00 ft of Very slightly gas cut mud
 0.00 ft of 5% gas trace of oil 95% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

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

BLOW DESCRIPTION

Initial Flow:
 Fair blow bottom of bucket in 3 minutes.
 Initial Shut-In:
 Bled down for 2 minutes. Slight surface blow back. 1/8" in H2O
 Final Flow:
 Strong blow bottom of bucket in 10 seconds. Gas to surface in 2 minutes. Gauge gas.
 Final Shut-In:
 Bled down for 10 minutes. Built back to very slight surface blow.

SAMPLES: Caraway Analytical, 728 N. Roosevelt
 SENT TO: Liberal, Kansas. 67901

MUD DATA-----
 Mud Type Chemical
 Weight 9.20 lb/cf
 Vis. 57.00 S/L
 W.L. 8.40 in3
 F.C. 0.32 in
 Mud Drop N
 Amt. of fill 0.00 ft
 Btm. H. Temp. 119.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00 n
 Cushion Type none
 Reversed Out N
 Tool Chased N
 Tester Darren L. Amerine
 Co. Rep. Paul Gunzelman
 Contr. Pickrell
 Rig # 1
 Unit # none
 Pump T. none

Test Successful: Y

GAS RECOVERY

COMPANY: Thoroughbred Associates, DATE: 01/25/200
WELL NAME: Dale Trust #1 KB Elev: 1892.00 ft TICKET #13579 DST #1
WELL LOCATION: 15-32s-20w Comanche co KS GR Elev: 1887.00 ft FORMATION: Mississippi
INTERVAL Fr.: 5007.00 To 5135.00 T.D.: 5135.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla gauge

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
12	0.12	2	0	4420.0
22	0.12	7	0	7700.0
32	0.12	10	0	9450.0
42	0.12	13	0	11000.0
45	0.12	14	0	11600.0

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: 20010530	Analyzed: 02/01/01
-----------------------------	---------------------------

Sample From: Dale Trust #1 DST 1	Pressure:	
Producer: Thoroughbred Assoc.	Temperature:	

Date: 15-32-20	Location: 15-32-20	
-----------------------	---------------------------	--

Time:	County:	Comanche
Sampler:	State:	Kansas
Source:	Formation:	Miss

	Mole %	GPM
Helium	He: 0.231	0.000
Hydrogen	H2: 0.001	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 6.834	0.000
Carbon Dioxide	CO2: 0.013	0.000
Methane	C1: 85.585	0.000
Ethane	C2: 4.543	1.215
Propane	C3: 1.762	0.486
Iso Butane	iC4: 0.206	0.067
Normal Butane	nC4: 0.420	0.132
Iso Pentane	iC5: 0.075	0.027
Normal Pentane	nC5: 0.092	0.033
Hexanes Plus	C6+: 0.238	0.104

TOTAL: 100.000 2.065

Z Fact: 0.9978
 SP.GR.: 0.6407

BTU (SAT): 1015.1 @ 14.73 psia
 BTU (DRY): 1033.1 @ 14.73 psia

OCTANE RATING: 118.4

COMMENTS:

0.000

Serial #:

Thoroughbred Associa

15-32s-20w

Pressure vs. Time

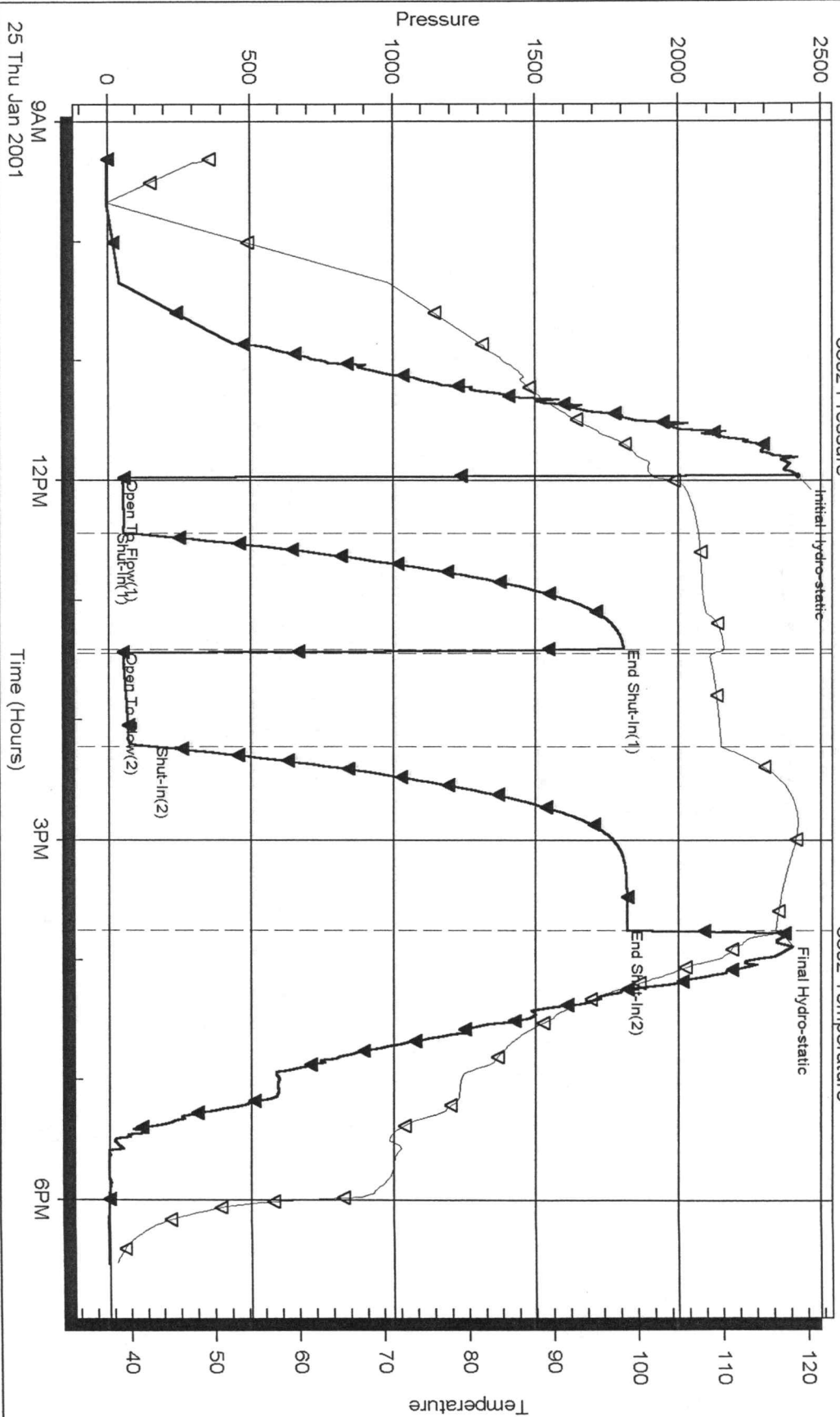
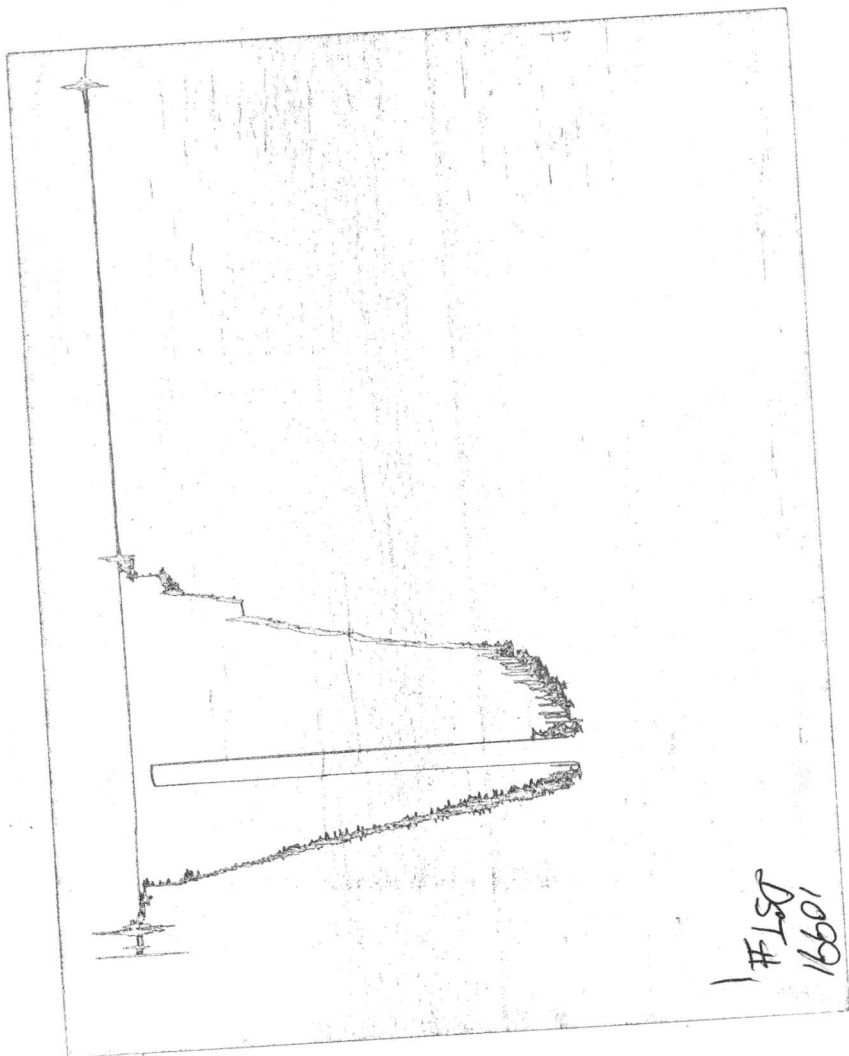


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Thoroughbred Assoc.L.L.C DATE 01/28/200
 WELL NAME: Dale Trust #1 KB 1892.00 ft TICKET NO: 13580 DST #2
 LOCATION : 15-32s-20w Comanche co KS GR 1887.00 ft FORMATION: Mississippi
 INTERVAL : 5755.00 To 5783.00 ft TD 5783.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10991	10991	3302			PF Fr. 0150 to 0220 hr
SI 60 Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. 0220 to 0320 hr
SF 45 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 0320 to 0405 hr
FS 90 Depth(ft)	5780.0	5780.0	5760.0	0.0	0.0	FS Fr. 0405 to 0535 hr

	Field	1	2	3	4	
A. Init Hydro	2910.0	0.0	2935.0	0.0	0.0	T STARTED 1915 hr
B. First Flow	436.0	0.0	410.0	0.0	0.0	T ON BOTM 0147 hr
B1. Final Flow	532.0	0.0	579.0	0.0	0.0	T OPEN 0150 hr
C. In Shut-in	2061.0	0.0	2138.0	0.0	0.0	T PULLED 0535 hr
D. Init Flow	799.0	0.0	729.0	0.0	0.0	T OUT 0900 hr
E. Final Flow	885.0	0.0	914.0	0.0	0.0	
F. Fl Shut-in	2071.0	0.0	2148.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2701.0	0.0	2744.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 100000.00 lbs
						Initial Str Wt 85000.00 lbs
						Unseated Str Wt 95000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 249.64 ft
						D.P. Length 5488.36 ft

RECOVERY

Tot Fluid 1620.00 ft of 249.64 ft in DC and 1370.36 ft in DP
 0.00 ft of Trace of gas in pipe
 520.00 ft of Mud cut gassy water
 0.00 ft of 10% gas 60% water 30% mud
 1100.00 ft of Salt water
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 SALINITY 55000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Fair blow bottom of bucket in 90 seconds.
 Initial Shut-In:
 Bled down for 2 minutes. Slight blow back 1/2" in H2O bucket.
 Final Flow:
 Fair blow built to bottom of bucket in 60 seconds.
 Final Shut-In:
 Bled down for 5 minutes. No blow back

SAMPLES:

SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 9.20 lb/cf
 Vis. 47.00 S/L
 W.L. 9.60 in3
 F.C. 0.32 in
 Mud Drop N
 Amt. of fill 0.00 ft
 Btm. H. Temp. 131.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00 n
 Cushion Type none
 Reversed Out Y
 Tool Chased N
 Tester Darren L.Amerine
 Co. Rep. Rob Patton
 Contr. Pickrell
 Rig # 1
 Unit # none
 Pump T. none

Test Successful: Y

Pressure vs. Time

