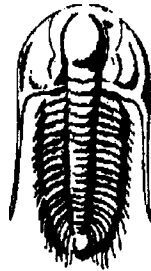


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KCC WICHITA

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FROM
CONFIDENTIAL

DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp**

P.O.Box 780208
Wichita KS 67278

ATTN: Corey Baker

20-26s-20w Edwards K

Wetzel D #1-20

Start Date: 2002.05.12 @ 01:46:45

End Date: 2002.05.12 @ 11:18:45

Job Ticket #: 15676 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

CONFIDENTIAL

ORIGINAL


TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petroleum Corp

P.O.Box 780208
Wichita KS 67278

ATTN: Corey Baker

Wetzel D #1-20

20-265-20W Edwards

Job Ticket: 15676

DST#: 1

Test Start: 2002.05.12 @ 01:46:45

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:59:30

Time Test Ended: 11:18:45

Interval: **4738.00 ft (KB) To 4783.00 ft (KB) (TVD)**Total Depth: **4783.00 ft (KB) (TVD)**Hole Diameter: **7.88 inches** Hole Condition: Poor**KCC****AUG 27 2002****CONFIDENTIAL**

Test Type: Conventional Bottom Hole

Tester: Gary Pavoteaux

Unit No: 23

Reference Elevations: 2263.00 ft (KB)

2254.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: **2342**

Inside

Press@RunDepth: 279.81 psig @ 4739.00 ft (KB)

Start Date: 2002.05.12

End Date:

2002.05.12

Start Time: 01:46:46

End Time:

11:18:45

Capacity: 7000.00 psig

Last Calib.: 2002.05.12

Time On Btm: 2002.05.12 @ 03:59:15

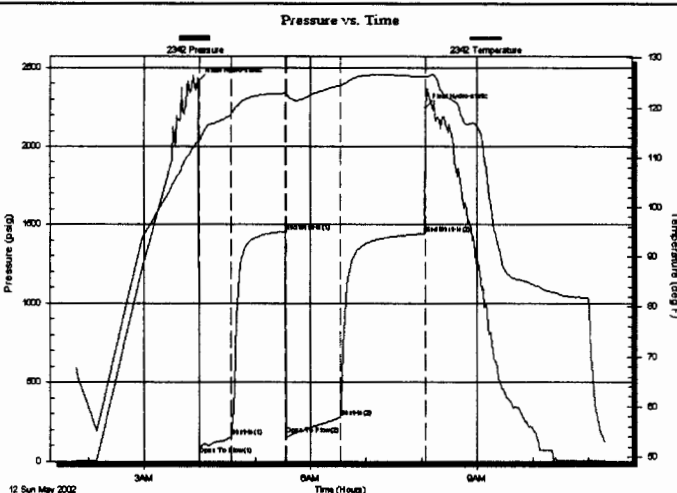
Time Off Btm: 2002.05.12 @ 08:04:15

TEST COMMENT: IF: Strong blow . B.O.B. in 3.75 min.

IS: Weak to fair blow . 1 - 5".

FF: Strong blow . GTS in 1.5 min. (see gas volume report)

FSI: Strong blow . B.O.B.



PRESSURE SUMMARY

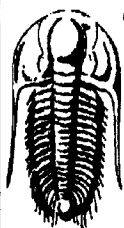
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2412.66	113.41	Initial Hydro-static
1	43.38	113.41	Open To Flow (1)
35	153.58	118.80	Shut-In (1)
94	1457.31	122.89	End Shut-In (1)
95	170.78	122.82	Open To Flow (2)
153	279.81	124.47	Shut-In (2)
245	1442.12	126.16	End Shut-In (2)
245	2246.66	126.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
250.00	GOCM 35%g 20%o 45%m	1.25
110.00	GOCM 18%g 17%o 65%m	1.54
440.00	Clean gassy oil 33%g 67%o	6.17

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	3.00	27.60
Last Gas Rate	0.13	2.00	6.14
Max. Gas Rate	0.25	3.00	27.60



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petroleum Corp

Wetzel D #1-20

P.O.Box 780208
Wichita KS 67278

20-26s-20w Edwards K

Job Ticket: 15676

DST#: 1

ATTN: Corey Baker

Test Start: 2002.05.12 @ 01:46:45

Tool Information

Drill Pipe:	Length:	4496.00 ft	Diameter:	3.80 inches	Volume:	63.07 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	248.00 ft	Diameter:	2.25 inches	Volume:	1.22 bbl	Weight to Pull Loose:	76000.00 lb
					Total Volume:	64.29 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		28.00 ft					String Weight: Initial	63000.00 lb
Depth to Top Packer:		4738.00 ft					Final	67000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		45.00 ft						
Tool Length:		67.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			4717.00		
S.I. Tool	5.00			4722.00		
HMV	5.00			4727.00		
Safety Joint	2.00			4729.00		
Packer	4.00			4733.00	22.00	Bottom Of Top Packer
Packer	5.00			4738.00		
Stubb	1.00			4739.00		
Recorder	0.00	2342	Inside	4739.00		
Perforations	5.00			4744.00		
C.O. Sub	1.00			4745.00		
Blank Spacing	30.00			4775.00		
C.O. Sub	1.00			4776.00		
Perforations	2.00			4778.00		
Recorder	0.00	10248	Outside	4778.00		
Bullnose	5.00			4783.00	45.00	Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petroleum Corp

Wetzel D #1-20

P.O.Box 780208
Wichita KS 67278

20-26s-20w Edwards K

Job Ticket: 15676

DST#: 1

ATTN: Corey Baker

Test Start: 2002.05.12 @ 01:46:45

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

4000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
250.00	GOCM 35%g 20%o 45%m	1.248
110.00	GOCM 18%g 17%o 65%m	1.543
440.00	Clean gassy oil 33%g 67%o	6.172

Total Length: 800.00 ft

Total Volume: 8.963 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp-1

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

McCoy Petroleum Corp

Wetzel D #1-20

P.O.Box 780208
Wichita KS 67278

20-26s-20w Edwards K

Job Ticket: 15676

DST#: 1

ATTN: Corey Baker

Test Start: 2002.05.12 @ 01:46:45

Gas Rates Information

Temperature: 59 deg C

Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	10	0.25	3.00	27.60
2	10	0.25	3.00	27.60
2	20	0.25	2.00	26.02
2	30	0.25	2.00	26.02
2	40	0.25	1.00	24.43
2	50	0.13	2.00	6.14

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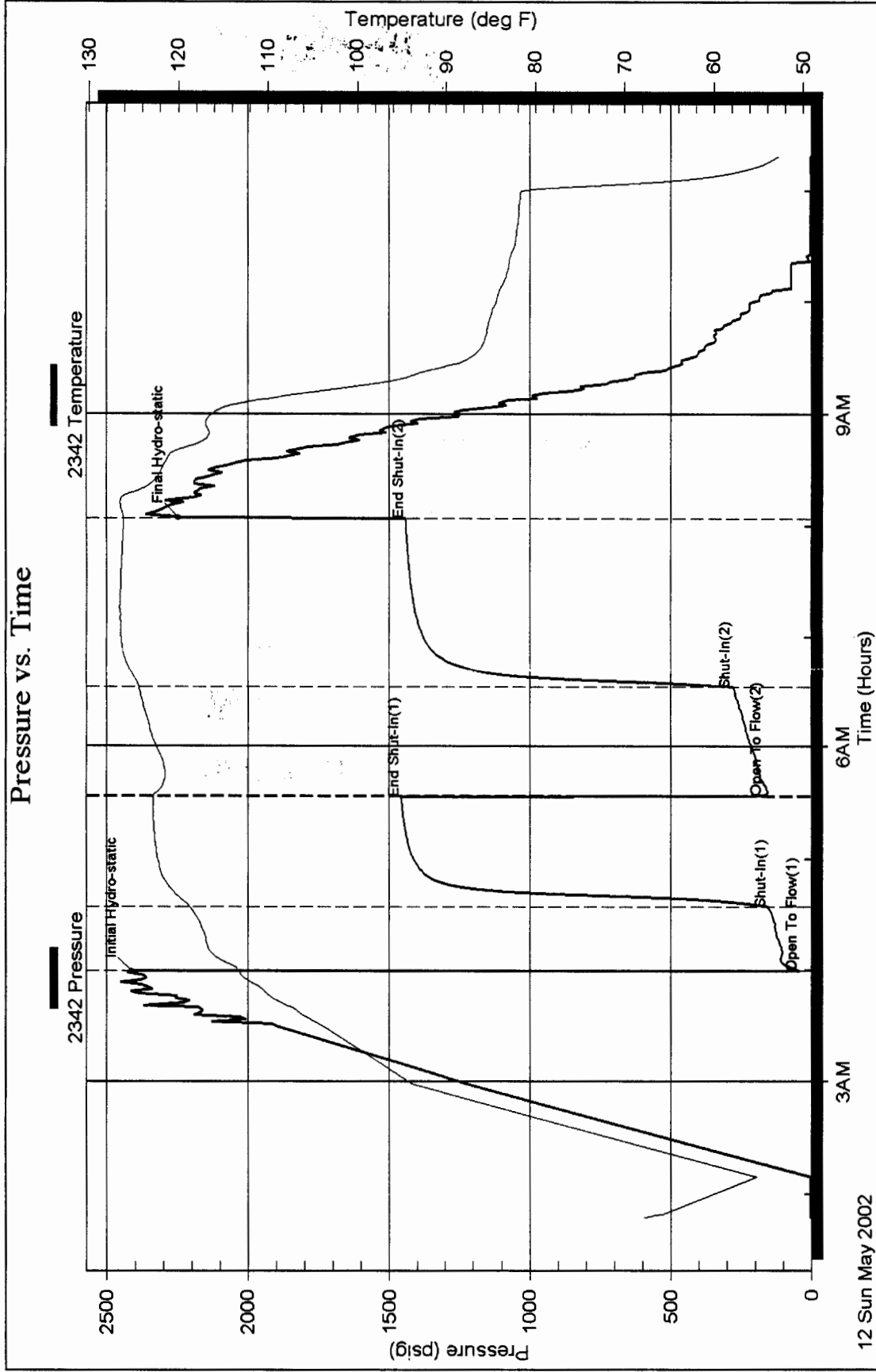
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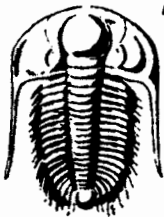
Inside

McCoy Petroleum Corp

20-26s-20w Edwards K

DST Test Number: 1





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15676

Test Ticket

Well Name & No. <u>Wetzel D # 1-20</u>	Test No. <u>1</u>	Date <u>5-12-2000</u>
Company <u>McCoy Pith. Corp.</u>	Zone Tested <u>Miss.</u>	
Address <u>P.O. Box 780208, Wichita, Ks. 67278</u>	Elevation <u>2263</u> KB <u>2254</u> GL	
Co. Rep / Geo. <u>Cory Baker</u>	Cont. <u>Stirling Dalg. #4</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>20</u> Twp. <u>26 S</u> Rge. <u>20 W</u>	Co. <u>Edwards</u> State <u>Ks.</u>	
No. of Copies <u>5</u> Distribution Sheet (Y, N) <u>yes</u>	Turnkey (Y, N) <u> </u>	Evaluation (Y, N) <u> </u>

Interval Tested 4738 - 4783' Initial Str Wt./Lbs. 13,000 Unseated Str Wt./Lbs. 67,000
 Anchor Length 45' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 76,000
 Top Packer Depth 4733' Tool Weight 2100 #
 Bottom Packer Depth 4738' Hole Size — 7 7/8" ☒ Rubber Size — 6 3/4" ☒
 Total Depth 4783' Wt. Pipe Run None Drill Collar Run 248'
 Mud Wt. 9.4 LCM 0 Vis. 52 WL 12.0 cc. Drill Pipe Size 4 1/2" x 4. Ft. Run 4496
 Blow Description IF: Strong blow, B.O.B. in 3.75 mins. ISI: Wash to gain blow. 21-5"
FF: Strong blow, GTS in 1.5 mins. (see gas volume report)
FSI: Strong blow, B.O.B.

Recovery — Total Feet 800 GIP yes Ft. in DC 248 Ft. in DP 552
 Rec. 440 Feet Of clean gassy oil 33 %gas 67 %oil %water %mud
 Rec. 110 Feet Of GOCM 18 %gas 17 %oil %water 65 %mud
 Rec. 250 Feet Of GOCM 35 %gas 20 %oil %water 45 %mud
 Rec. Feet Of %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 BHT 126 °F Gravity 37 °API D@ 51 °F Corrected Gravity 38 °API
 RW N.C. @ °F Chlorides 4,000 ppm Recovery Chlorides 4,000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2429</u>	<u>2429</u>	<u>2342</u>	<u>2342</u>	<u>0102</u>
(B) First Initial Flow Pressure	<u>43</u>	<u>43</u>	(depth)	<u>4739'</u>	<u>0146</u>
(C) First Final Flow Pressure	<u>134</u>	<u>134</u>	PSI	<u>10248</u>	<u>0359</u>
(D) Initial Shut-In Pressure	<u>1457</u>	<u>1457</u>	(depth)	<u>4778'</u>	<u>0803</u>
(E) Second Initial Flow Pressure	<u>171</u>	<u>171</u>	PSI	<u> </u>	<u>1118</u>
(F) Second Final Flow Pressure	<u>280</u>	<u>280</u>	(depth)	<u> </u>	<u> </u>
(G) Final Shut-in Pressure	<u>1442</u>	<u>1442</u>	PSI	Initial Opening <u>30</u>	Test <u>✓ 800</u>
(Q) Final Hydrostatic Mud	<u>2406</u>	<u>2406</u>	PSI	Initial Shut-in <u>60</u>	Jars <u> </u>

Final Flow 60 Safety Joint ✓ 50
 Final Shut-in 90 Straddle
 Circ. Sub
 Sampler

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Approved By Cory N. Baker
 Our Representative Chary Penotians

Extra Packer
 Elec. Rec. ✓ 150
 Mileage ✓ 75
 Other STAND BY 30
 TOTAL PRICE \$ 1105



GAS VOLUME REPORT

McKay Peth. Corp
OPERATOR

Wetzel D # 1-20
WELL NAME AND NO.

OPERATOR

WELL NAME AND NO.

DST NO.

Remarks:

CHART PAGE

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

