



DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp**

453 S. Webo Rd, Ste 310
Wichita, Ks. 67278

ATTN: Scott Hampel

13-20-25-Ness-Ks

Copeland 'C' # 1-13

Start Date: 2001.10.23 @ 15:51:37

End Date: 2001.10.23 @ 23:12:51

Job Ticket #: 15563 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

McCoy Petroleum Corp
453 S. Webo Rd, Ste 310
Wichita, Ks. 67278
ATTN: Scott Hampel

Copeland 'C' # 1-13
13-20-25-Ness-Ks
Job Ticket: 15563 **DST#: 1**
Test Start: 2001.10.23 @ 15:51:37

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:48:36
Time Test Ended: 23:12:51
Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 21
Interval: **4388.00 ft (KB) To 4425.00 ft (KB) (TVD)**
Reference Elevations: 2364.00 ft (KB)
Total Depth: 4425.00 ft (KB) (TVD) 2359.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

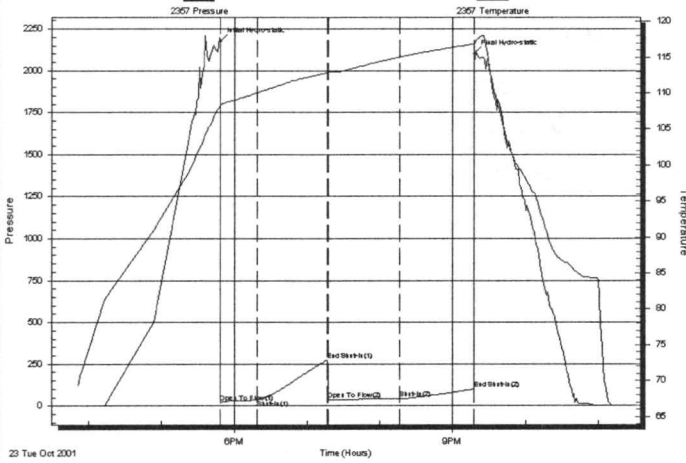
Serial #: 2357

Inside

Press@RunDepth: 40.97 psig @ 4394.01 ft (KB) Capacity: 7000.00 psig
Start Date: 2001.10.23 End Date: 2001.10.23 Last Calib.: 1899.12.30
Start Time: 15:51:37 End Time: 23:12:51 Time On Btm: 2001.10.23 @ 17:48:21
Time Off Btm: 2001.10.23 @ 21:17:51

TEST COMMENT: IF-Weak building to 3/4"
FF-Weak died in 25 min
Times-30-60-60-60

Pressure vs. Time



PRESSURE SUMMARY

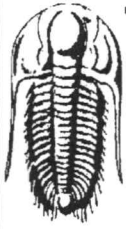
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2175.62	108.30	Initial Hydro-static
1	19.53	108.34	Open To Flow (1)
30	34.87	110.02	Shut-In(1)
88	274.64	112.81	End Shut-In(1)
89	38.88	112.82	Open To Flow (2)
148	40.97	115.01	Shut-In(2)
210	100.26	116.84	End Shut-In(2)
210	2099.08	116.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
8.00	OCM 20%o 80%m	0.04
2.00	Clean oil	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petroleum Corp
453 S. Webo Rd, Ste 310
Wichita, Ks. 67278
ATTN: Scott Hampel

Copeland 'C' # 1-13
13-20-25-Ness-Ks
Job Ticket: 15563 **DST#: 1**
Test Start: 2001.10.23 @ 15:51:37

Tool Information

Drill Pipe:	Length: 4224.00 ft	Diameter: 3.80 inches	Volume: 59.25 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 155.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.01 bbl</u>	Tool Chased 0.01 ft
Drill Pipe Above KB:	14.01 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4388.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.02 ft			
Tool Length:	60.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4366.00	
S.I. Tool	5.00			4371.00	
HMV	5.00			4376.00	
Safety Joint	2.00			4378.00	
Packer	5.00			4383.00	23.00 Bottom Of Top Packer
Packer	5.00			4388.00	
Stubb	1.00			4389.00	
Pump	5.00			4394.00	
Recorder	0.01	2357	Inside	4394.01	
Perforations	28.00			4422.01	
Recorder	0.01	13254	Outside	4422.02	
Bullnose	3.00			4425.02	37.02 Bottom Packers & Anchor

Total Tool Length: 60.02



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DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petroleum Corp
453 S. Webo Rd, Ste 310
Wichita, Ks. 67278
ATTN: Scott Hampel

Copeland 'C' # 1-13
13-20-25-Ness-Ks
Job Ticket: 15563 **DST#: 1**
Test Start: 2001.10.23 @ 15:51:37

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.76 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
8.00	OCM 20%o 80%m	0.039
2.00	Clean oil	0.010

Total Length: 10.00 ft Total Volume: 0.049 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

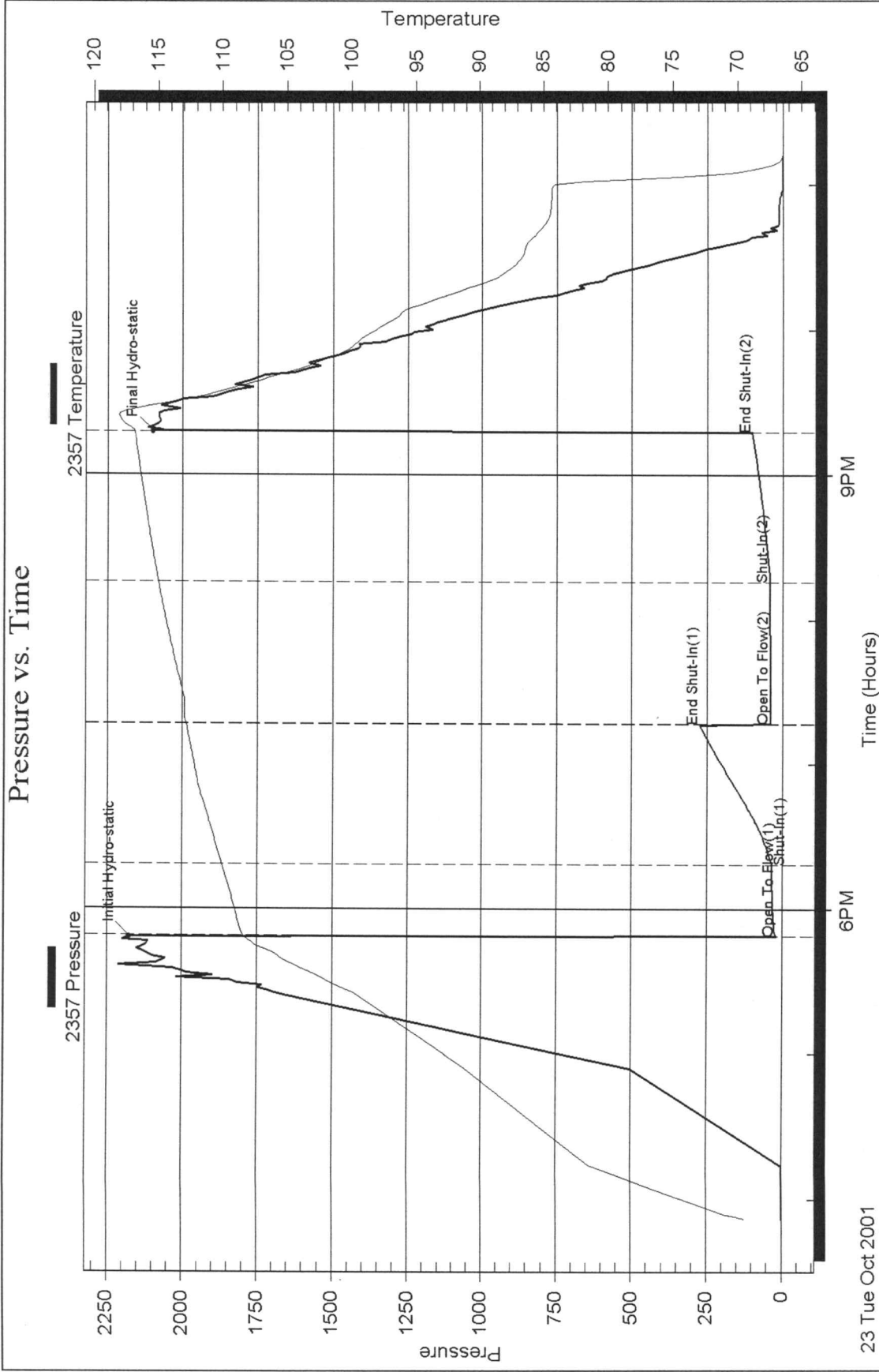
Serial #: 2357

Inside

McCoy Petroleum Corp

13-20-25-Ness-Ks

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp**

453 S. Webo Rd, Ste 310
Wichita, Ks. 67278

ATTN: Scott Hampel

13-20-25-Ness-Ks

Copeland 'C' # 1-13

Start Date: 2001.10.24 @ 06:30:43

End Date: 2001.10.24 @ 13:04:13

Job Ticket #: 15564 DST #: 2

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DRILL STEM TEST REPORT

McCoy Petroleum Corp
453 S. Webo Rd, Ste 310
Wichita, Ks. 67278
ATTN: Scott Hampel

Copeland 'C' # 1-13
13-20-25-Ness-Ks
Job Ticket: 15564 **DST#: 2**
Test Start: 2001.10.24 @ 06:30:43

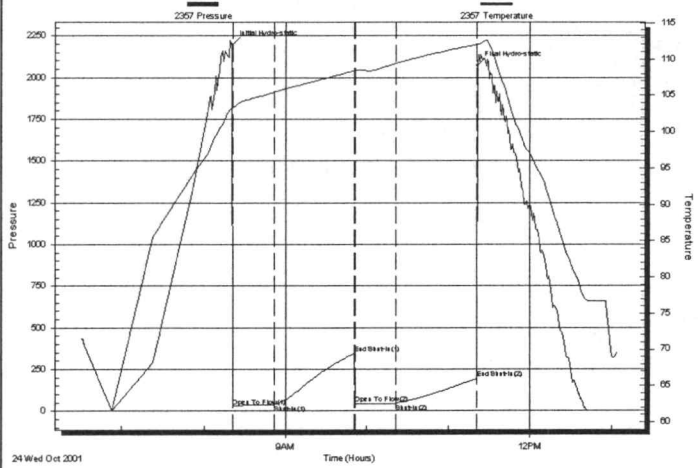
GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:21:13
Time Test Ended: 13:04:13
Interval: **4388.00 ft (KB) To 4435.00 ft (KB) (TVD)**
Total Depth: 4435.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Reference Elevations: 2364.00 ft (KB)
2359.00 ft (CF)
KB to GR/CF: 5.00 ft
Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 21

Serial #: 2357 **Inside**
Press@RunDepth: 45.97 psig @ 4394.01 ft (KB) Capacity: 7000.00 psig
Start Date: 2001.10.24 End Date: 2001.10.24 Last Calib.: 1899.12.30
Start Time: 06:30:44 End Time: 13:04:13 Time On Btm: 2001.10.24 @ 08:20:58
Time Off Btm: 2001.10.24 @ 11:21:28

TEST COMMENT: IF-Weak building to 1"
FF-Weak-died in 25 min
Times-30-60-30-60

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2198.91	103.39	Initial Hydro-static
1	25.02	103.41	Open To Flow (1)
31	39.68	105.47	Shut-In(1)
90	343.95	108.42	End Shut-In(1)
91	42.80	108.43	Open To Flow (2)
121	45.97	109.38	Shut-In(2)
181	193.21	112.01	End Shut-In(2)
181	2069.80	112.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
18.00	Slightly OCM 3%o 97% m	0.09
2.00	Clean oil	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petroleum Corp
453 S. Webo Rd, Ste 310
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ATTN: Scott Hampel

Copeland 'C' # 1-13
13-20-25-Ness-Ks
Job Ticket: 15564 **DST#: 2**
Test Start: 2001.10.24 @ 06:30:43

Tool Information

Drill Pipe:	Length: 4224.00 ft	Diameter: 3.80 inches	Volume: 59.25 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 155.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 60.01 bbl</u>	Tool Chased 0.01 ft
Drill Pipe Above KB:	14.01 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4388.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.02 ft			
Tool Length:	70.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4366.00	
S.I. Tool	5.00			4371.00	
HMV	5.00			4376.00	
Safety Joint	2.00			4378.00	
Packer	5.00			4383.00	23.00 Bottom Of Top Packer
Packer	5.00			4388.00	
Stubb	1.00			4389.00	
Pump	5.00			4394.00	
Recorder	0.01	2357	Inside	4394.01	
Perforations	38.00			4432.01	
Recorder	0.01	13254	Outside	4432.02	
Bullnose	3.00			4435.02	47.02 Bottom Packers & Anchor

Total Tool Length: 70.02



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ATTN: Scott Hampel

Copeland 'C' # 1-13
13-20-25-Ness-Ks
Job Ticket: 15564 **DST#: 2**
Test Start: 2001.10.24 @ 06:30:43

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.57 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
18.00	Slightly OCM 3%o 97%m	0.088
2.00	Clean oil	0.010

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

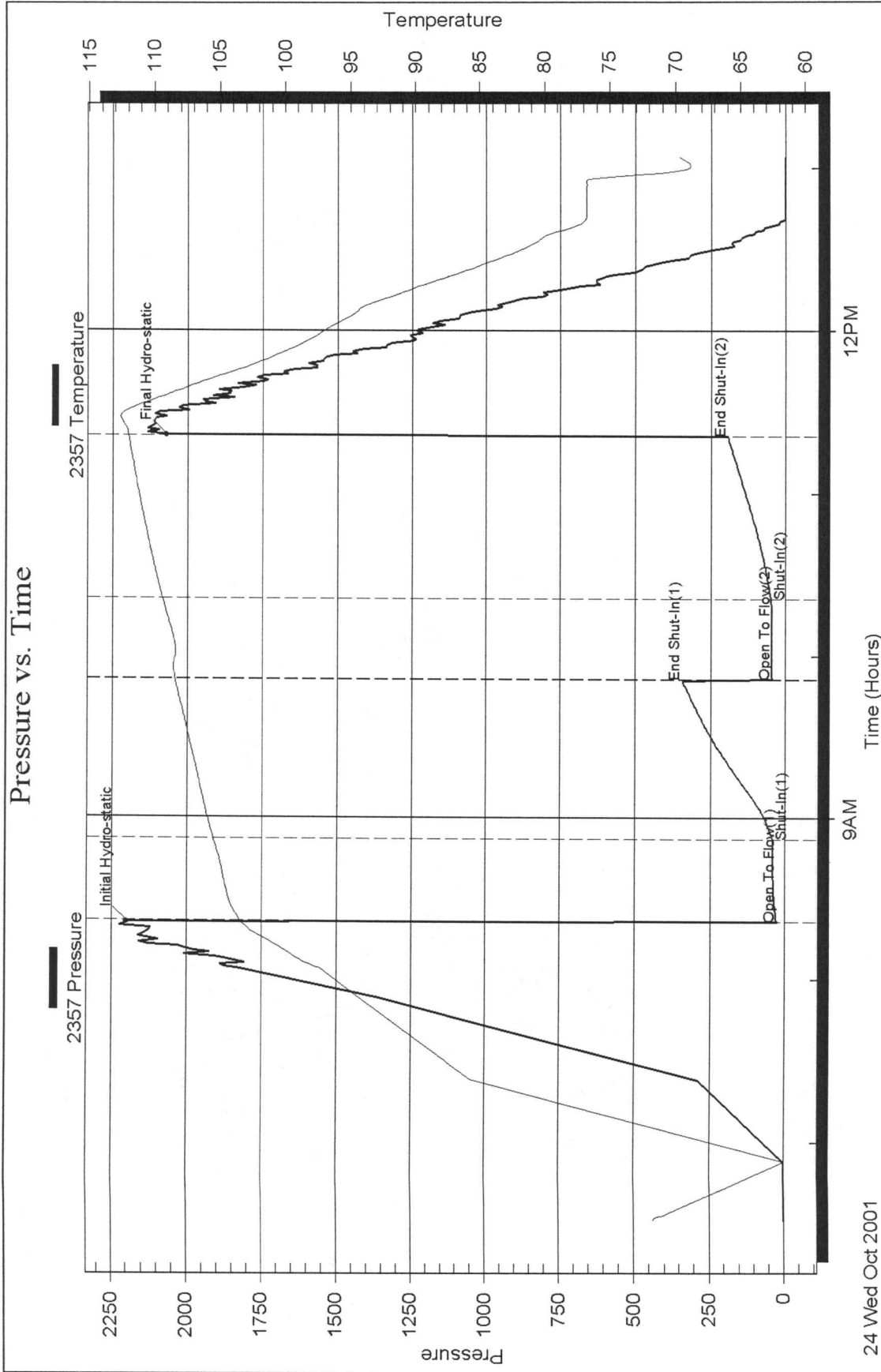
Serial #: 2357

Inside

McCoy Petroleum Corp

13-20-25-Ness-Ks

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp**

453 S. Webo Rd, Ste 310
Wichita, Ks. 67278

ATTN: Scott Hampel

13-20-25-Ness-Ks

Copeland 'C' # 1-13

Start Date: 2001.10.24 @ 19:01:07

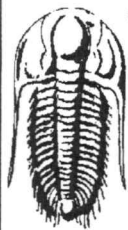
End Date: 2001.10.25 @ 02:50:52

Job Ticket #: 15565 DST #: 3

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ATTN: Scott Hampel

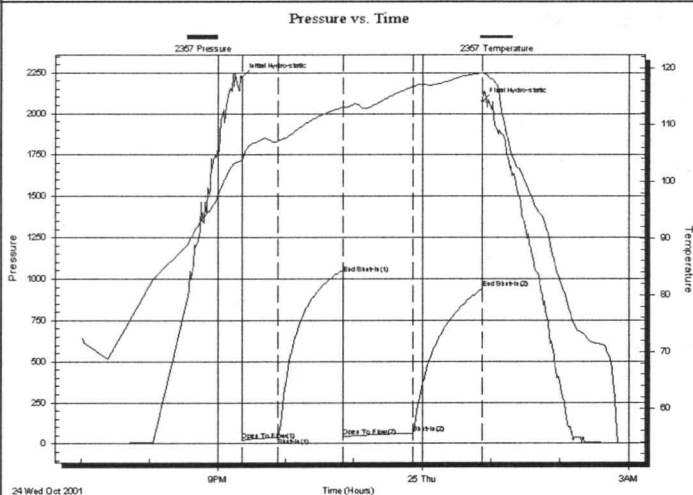
Copeland 'C' # 1-13
13-20-25-Ness-Ks
Job Ticket: 15565 **DST#: 3**
Test Start: 2001.10.24 @ 19:01:07

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:21:52
Time Test Ended: 02:50:52
Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 21
Interval: **4432.00 ft (KB) To 4445.00 ft (KB) (TVD)**
Reference Elevations: 2364.00 ft (KB)
Total Depth: 4445.00 ft (KB) (TVD) 2359.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 2357 **Inside**
Press@RunDepth: 63.29 psig @ 4433.01 ft (KB) Capacity: 7000.00 psig
Start Date: 2001.10.24 End Date: 2001.10.25 Last Calib.: 1899.12.30
Start Time: 19:01:08 End Time: 02:50:52 Time On Btm: 2001.10.24 @ 21:21:37
Time Off Btm: 2001.10.25 @ 00:52:52

TEST COMMENT: IF-Weak building to 1"
FF-Weak steady surface blow
Times-30-60-60-60-



PRESSURE SUMMARY

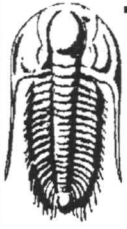
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2221.97	103.63	Initial Hydro-static
1	19.31	103.65	Open To Flow (1)
32	38.78	107.09	Shut-In(1)
90	1028.10	113.05	End Shut-In(1)
90	41.70	113.06	Open To Flow (2)
151	63.29	116.73	Shut-In(2)
211	938.94	119.16	End Shut-In(2)
212	2073.60	119.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	WCM 40%w 60%v Rw .16 @ 80 = 40000.321	

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petroleum Corp
453 S. Webo Rd, Ste 310
Wichita, Ks. 67278
ATTN: Scott Hampel

Copeland 'C' # 1-13
13-20-25-Ness-Ks
Job Ticket: 15565 **DST#: 3**
Test Start: 2001.10.24 @ 19:01:07

Tool Information

Drill Pipe:	Length: 4285.00 ft	Diameter: 3.80 inches	Volume: 60.11 bbl	Tool Weight: 1200.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 155.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 60.87 bbl</u>	Tool Chased 0.01 ft
Drill Pipe Above KB:	31.01 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4432.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.02 ft			
Tool Length:	36.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4410.00	
S.I. Tool	5.00			4415.00	
HMV	5.00			4420.00	
Safety Joint	2.00			4422.00	
Packer	5.00			4427.00	23.00 Bottom Of Top Packer
Packer	5.00			4432.00	
Stubb	1.00			4433.00	
Recorder	0.01	2357	Inside	4433.01	
Perforations	9.00			4442.01	
Recorder	0.01	13254	Outside	4442.02	
Bullnose	3.00			4445.02	13.02 Bottom Packers & Anchor

Total Tool Length: 36.02



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FLUID SUMMARY

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ATTN: Scott Hampel

Copeland 'C' # 1-13
13-20-25-Ness-Ks
Job Ticket: 15565 **DST#: 3**
Test Start: 2001.10.24 @ 19:01:07

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.57 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	WCM 40%w 60%m Rw .16 @ 80 = 40000ppr	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 2357

Inside

McCoy Petroleum Corp

13-20-25-Ness-Ks

DST Test Number: 3

Pressure vs. Time

