



DRILL STEM TEST REPORT

Prepared For: **Shelby Resources**

2717 Canal Blvd. Hays Kansas 67601

ATTN: Charlie Sturdavant

Penny 1-16

16-19s-12w-Barton

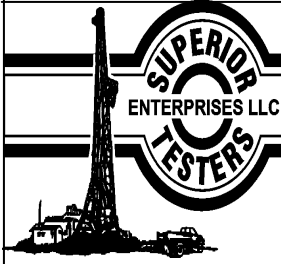
Start Date: 2012.10.04 @ 03:52:00

End Date: 2012.10.04 @ 10:07:00

Job Ticket #: 17851 DST #: 2

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.10.04 @ 08:21:59



DRILL STEM TEST REPORT

Shelby Resources
 2717 Canal Blvd. Hays Kansas 67601
 ATTN: Charlie Sturdavant

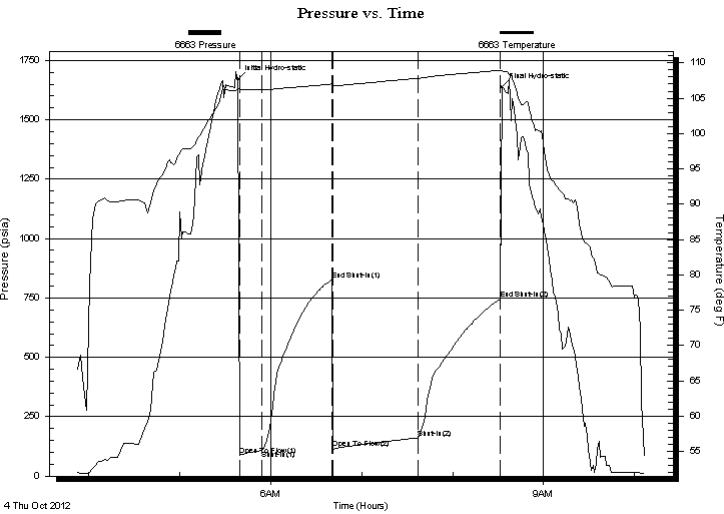
16-19s-12w-Barton
Penny 1-16
 Job Ticket: 17851 **DST#: 2**
 Test Start: 2012.10.04 @ 03:52:00

GENERAL INFORMATION:

Formation: **Kansas City**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 05:39:30 Tester: Dustin Ellis
 Time Test Ended: 10:07:00 Unit No: 3315-Great Bend-25
 Interval: **3304.00 ft (KB) To 3420.00 ft (KB) (TVD)** Reference Elevations: 1883.00 ft (KB)
 Total Depth: 3420.00 ft (KB) (TVD) 1874.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 6663 Inside
 Press @ Run Depth: 160.81 psia @ 3416.51 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.10.04 End Date: 2012.10.04 Last Calib.: 2012.10.04
 Start Time: 03:52:00 End Time: 10:07:00 Time On Btm: 2012.10.04 @ 05:38:30
 Time Off Btm: 2012.10.04 @ 08:32:30

TEST COMMENT: 1st Open 15 minutes Fair blow blew 2 inches.
 1st Shut in 45 minutes No blow back
 2nd Open 60 minutes Fair blow blew bottom bucket 23 minutes
 2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

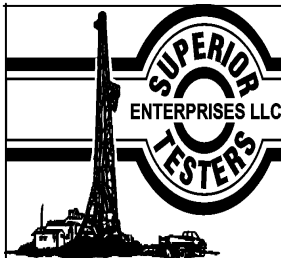
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1669.39	106.43	Initial Hydro-static
1	89.33	106.16	Open To Flow (1)
16	106.94	106.19	Shut-In(1)
62	826.39	107.00	End Shut-In(1)
63	118.71	106.82	Open To Flow (2)
119	160.81	107.81	Shut-In(2)
173	744.97	108.94	End Shut-In(2)
174	1637.92	108.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud cut oil 10% Oil 90% Mud	0.10
122.00	Mud cut gassy oil	0.60
0.00	Gas 30% Oil 20% Mud 50%	0.00

Gas Rates

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



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16-19s-12w-Barton

2717 Canal Blvd. Hays Kansas 67601

Penny 1-16

ATTN: Charlie Sturdavant

Job Ticket: 17851

DST#: 2

Test Start: 2012.10.04 @ 03:52:00

GENERAL INFORMATION:

Formation: **Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:39:30

Time Test Ended: 10:07:00

Interval: 3304.00 ft (KB) To 3420.00 ft (KB) (TVD)

Total Depth: 3420.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Great Bend-25

Reference Elevations: 1883.00 ft (KB)

1874.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8400

Outside

Press @ Run Depth: 743.90 psia @ 3417.51 ft (KB)

Start Date: 2012.10.04

End Date: 2012.10.04

Start Time: 03:52:00

End Time: 10:07:00

Capacity: 5000.00 psia

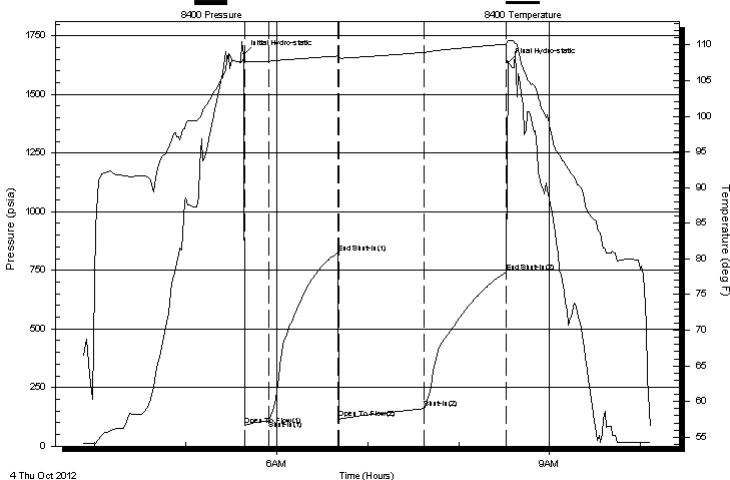
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TEST COMMENT: 1st Open 15 minutes Fair blow blew 2 inches.
 1st Shut in 45 minutes No blow back
 2nd Open 60 minutes Fair blow blew bottom bucket 23 minutes
 2nd Shut in 60 minutes No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1671.84	108.12	Initial Hydro-static
1	88.18	107.65	Open To Flow (1)
17	110.15	107.73	Shut-In(1)
62	825.06	108.45	End Shut-In(1)
63	117.34	108.18	Open To Flow (2)
119	159.66	108.96	Shut-In(2)
173	743.90	110.11	End Shut-In(2)
174	1636.64	110.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud cut oil 10% Oil 90% Mud	0.10
122.00	Mud cut gassy oil	0.60
0.00	Gas 30% Oil 20% Mud 50%	0.00

Gas Rates

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



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TOOL DIAGRAM

Shelby Resources
 2717 Canal Blvd. Hays Kansas 67601
 ATTN: Charlie Sturdavant

16-19s-12w-Barton
Penny 1-16
 Job Ticket: 17851 **DST#: 2**
 Test Start: 2012.10.04 @ 03:52:00

Tool Information

Drill Pipe:	Length: 3075.00 ft	Diameter: 3.80 inches	Volume: 43.13 bbl	Tool Weight:	2000.00 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: 216.25 ft	Diameter: 2.25 inches	Volume: 1.06 bbl	Weight to Pull Loose:	64000.00 lb
			<u>Total Volume: 44.19 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.25 ft			String Weight: Initial	61000.00 lb
Depth to Top Packer:	3304.00 ft			Final	61000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	116.51 ft				
Tool Length:	136.51 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3289.00	
Hydraulic Tool	5.00			3294.00	
Packer	5.00			3299.00	20.00 Bottom Of Top Packer
Packer	5.00			3304.00	
Anchor	5.00			3309.00	
Change Over Sub	0.75			3309.75	
Drill Pipe	94.01			3403.76	
Change Over Sub	0.75			3404.51	
Anchor	11.00			3415.51	
Recorder	1.00	6663	Inside	3416.51	
Recorder	1.00	8400	Outside	3417.51	
Bull Plug	3.00			3420.51	116.51 Bottom Packers & Anchor

Total Tool Length: 136.51



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FLUID SUMMARY

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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: 8.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 14600.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud cut oil 10%Oil 90%Mud	0.098
122.00	Mud cut gassy oil	0.600
0.00	Gas 30% Oil 20% Mud 50%	0.000

Total Length: 142.00 ft Total Volume: 0.698 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time

