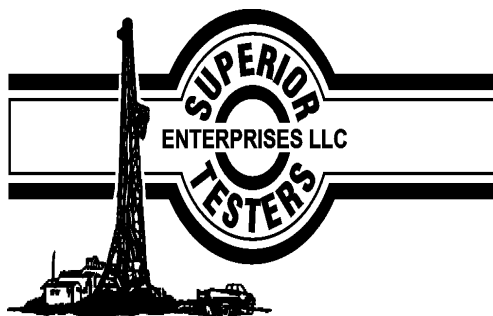




DRILL STEM TEST REPORT

Prepared For: **Ritchies Exploration Inc**

8100 E 22 nd st Wichits KS 67278+3188

ATTN: Mike Englebrech

Rueb Unit #1

4-26-23w

Start Date: 2014.05.01 @ 02:26:00

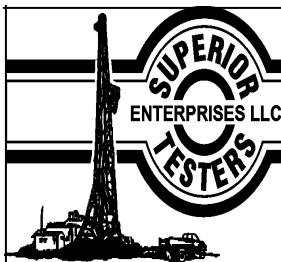
End Date: 2014.05.01 @ 10:24:00

Job Ticket #: 19290 DST #: 1

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

Printed: 2014.05.01 @ 11:51:53

Ritchies Exploration Inc
4-26-23w
Rueb Unit #1
DST # 1
Huck
2014.05.01



DRILL STEM TEST REPORT

Ritchies Exploration Inc

4-26-23w

8100 E 22 nd st Wichits KS 67278+3188

Rueb Unit #1

ATTN: Mike Englebrech

Job Ticket: 19290

DST#: 1

Test Start: 2014.05.01 @ 02:26:00

GENERAL INFORMATION:

Formation: **Huck**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:27:00

Time Test Ended: 10:24:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend-

Interval: **4865.00 ft (KB) To 4927.00 ft (KB) (TVD)**

Total Depth: 4927.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2494.00 ft (KB)

2482.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6731

Press@RunDepth: 97.98 psig @ ft (KB)

Start Date: 2014.05.01

End Date:

2014.05.01

Start Time: 02:26:00

End Time:

10:24:00

Capacity: 5000.00 psig

Last Calib.: 2014.05.01

Time On Btm: 2014.05.01 @ 05:25:30

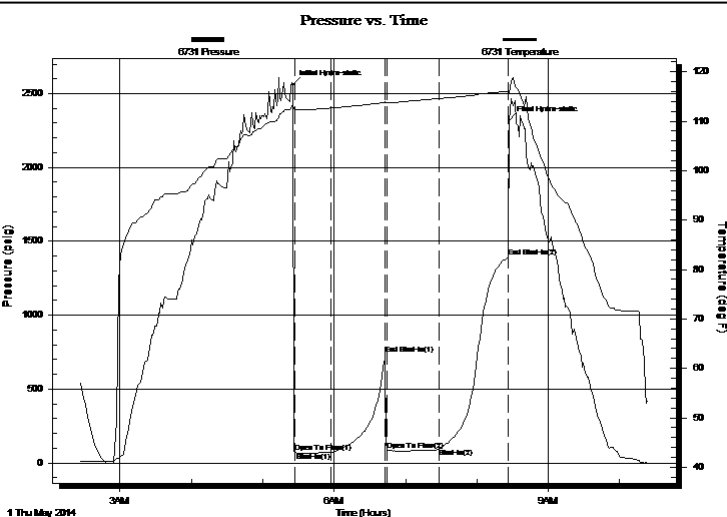
Time Off Btm: 2014.05.01 @ 08:27:30

TEST COMMENT: 1st Opening 30 Minutes-Fair blow built 3 inches from bottom of bucket in 30 minutes

1st Shut-in 45 Minutes-No blow back

2nd Opening 45 Minutes-Strong blow built bottom of bucket in 1 minute

2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

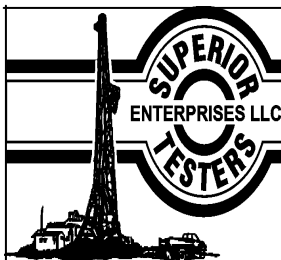
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2557.71	113.30	Initial Hydro-static
2	74.95	112.49	Open To Flow (1)
32	71.69	112.67	Shut-In(1)
78	739.01	113.87	End Shut-In(1)
79	88.24	113.70	Open To Flow (2)
123	97.98	114.59	Shut-In(2)
181	1392.72	116.03	End Shut-In(2)
182	2320.08	115.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	gas mud cut oil 10%gas 40%mud 50%oil	0.00
60.00	gas oil mud 5%gas 25%oil 70%mud	0.00
0.00	210 gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchies Exploration Inc

4-26-23w

8100 E 22 nd st Wichits KS 67278+3188

Rueb Unit #1

Job Ticket: 19290

DST#: 1

ATTN: Mike Englebretch

Test Start: 2014.05.01 @ 02:26:00

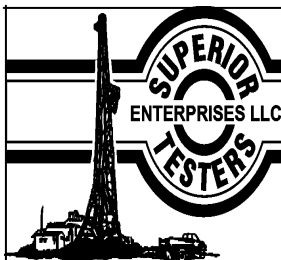
Tool Information

Drill Pipe:	Length:	4844.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Tool Weight:	1000.00 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:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	75000.00 lb
					Total Volume:	0.00 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		7.00 ft					String Weight: Initial	64000.00 lb
Depth to Top Packer:		4865.00 ft					Final	64000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		62.00 ft						
Tool Length:		90.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4842.00	
Hydraulic tool	5.00			4847.00	
Jars	6.00			4853.00	
Safety Joint	2.00			4855.00	
Packer	5.00			4860.00	28.00 Bottom Of Top Packer
Packer	5.00			4865.00	
Change Over Sub	0.50			4865.50	
Drill Pipe	31.00			4896.50	
Change Over Sub	0.50			4897.00	
Recorder	1.00			4898.00	
Recorder	1.00			4899.00	
Anchor	25.00			4924.00	
Bullnose	3.00			4927.00	62.00 Bottom Packers & Anchor

Total Tool Length: 90.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchies Exploration Inc

4-26-23w

8100 E 22 nd st Wichits KS 67278+3188

Rueb Unit #1

Job Ticket: 19290

DST#: 1

ATTN: Mike Englebrech

Test Start: 2014.05.01 @ 02:26:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 7.60 in³

Resistivity: ohm.m

Salinity: 5300.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	gas mud cut oil 10%gas 40%mud 50%oil	0.000
60.00	gas oil mud 5%gas 25%oil 70%mud	0.000
0.00	210 gas in pipe	0.000

Total Length: 90.00 ft

Total Volume: bbl

Num Fluid Samples: 0

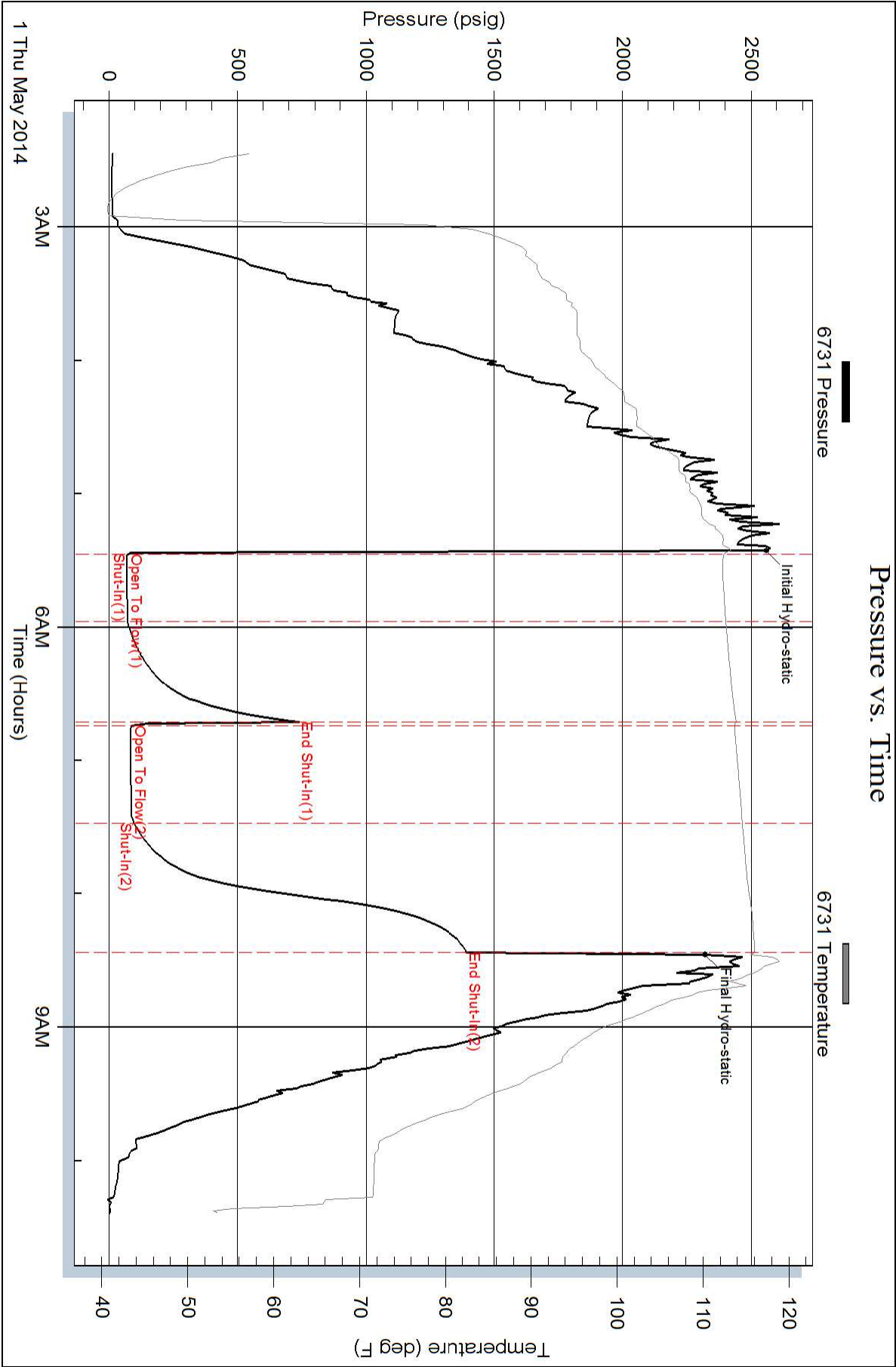
Num Gas Bombs: 0

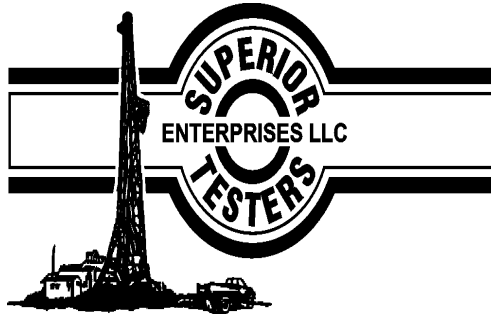
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Ritchies Exploration Inc**

8100 E 22 nd st Wichits KS 67278+3188

ATTN: Mike Englebrech

Rueb Unit #1

4-26-23w

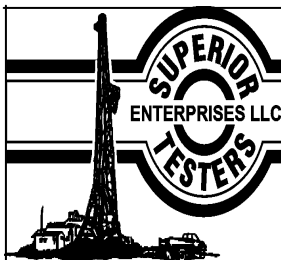
Start Date: 2014.05.02 @ 01:50:00

End Date: 2014.05.02 @ 09:25:00

Job Ticket #: 192901 DST #: 2

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

Printed: 2014.05.02 @ 10:40:31



DRILL STEM TEST REPORT

Ritchies Exploration Inc

4-26-23w

8100 E 22 nd st Wichits KS 67278+3188

Rueb Unit #1

Job Ticket: 192901

DST#: 2

ATTN: Mike Englebrech

Test Start: 2014.05.02 @ 01:50:00

GENERAL INFORMATION:

Formation: **Morrow - Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:21:30

Time Test Ended: 09:25:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend

Interval: **4919.00 ft (KB) To 5008.00 ft (KB) (TVD)**

Total Depth: 5008.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2494.00 ft (KB)

2482.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6731

Press@RunDepth: 123.03 psig @ ft (KB)

Start Date: 2014.05.02

End Date:

2014.05.02

Start Time: 01:50:00

End Time:

09:25:00

Capacity: 5000.00 psig

Last Calib.: 2014.05.02

Time On Btm: 2014.05.02 @ 04:20:30

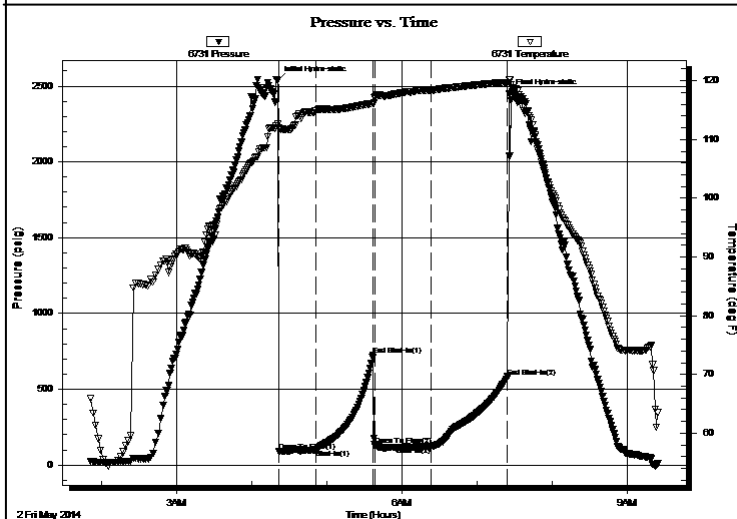
Time Off Btm: 2014.05.02 @ 07:26:00

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 3 1/2 inches into water in 30 minutes

1s Shut-in 45 Minutes-No blow back

2nd Opeing 45 Minutes-Weak blow built 5 inches into water in 45 minutes

2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

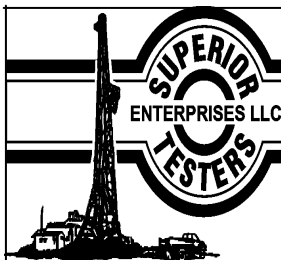
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2536.53	112.63	Initial Hydro-static
1	92.95	111.90	Open To Flow (1)
31	102.88	114.90	Shut-In(1)
77	726.72	116.14	End Shut-In(1)
78	133.24	117.14	Open To Flow (2)
123	123.03	118.37	Shut-In(2)
184	582.39	119.72	End Shut-In(2)
186	2447.40	120.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gas oil mud 20%gas 30%oil 50%mud	0.84
45.00	oil mud 20%oil 80%mud	0.63

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchies Exploration Inc

4-26-23w

8100 E 22 nd st Wichits KS 67278+3188

Rueb Unit #1

Job Ticket: 192901

DST#: 2

ATTN: Mike Englebretch

Test Start: 2014.05.02 @ 01:50:00

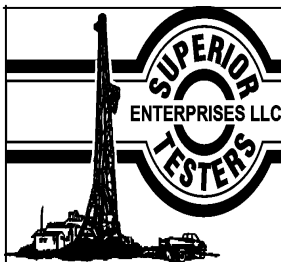
Tool Information

Drill Pipe:	Length:	4904.00 ft	Diameter:	3.80 inches	Volume:	68.79 bbl	Tool Weight:	1000.00 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:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	80000.00 lb
					Total Volume:	68.79 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		13.00 ft					String Weight: Initial	64000.00 lb
Depth to Top Packer:		4919.00 ft					Final	64000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		89.00 ft						
Tool Length:		117.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments: ruined packer

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4896.00	
Hydraulic tool	5.00			4901.00	
Jars	6.00			4907.00	
Safety Joint	2.00			4909.00	
Packer	5.00			4914.00	28.00 Bottom Of Top Packer
Packer	5.00			4919.00	
Recorder	1.00			4920.00	
Recorder	1.00			4921.00	
Change Over Sub	0.50			4921.50	
Drill Pipe	63.00			4984.50	
Change Over Sub	0.50			4985.00	
Anchor	20.00			5005.00	
Bullnose	3.00			5008.00	89.00 Bottom Packers & Anchor

Total Tool Length: 117.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchies Exploration Inc

4-26-23w

8100 E 22 nd st Wichits KS 67278+3188

Rueb Unit #1

Job Ticket: 192901

DST#: 2

ATTN: Mike Englebrech

Test Start: 2014.05.02 @ 01:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 7.60 in³

Resistivity: ohm.m

Salinity: 5300.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	gas oil mud 20%gas 30%oil 50%mud	0.842
45.00	oil mud 20%oil 80%mud	0.631

Total Length: 105.00 ft

Total Volume: 1.473 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

