



**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1098365

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
---	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Anchor Bay Petroleum LLC
Well Name	Romine SW 5
Doc ID	1098365

Tops

Name	Top	Datum
Stone Corral	1638	528
Topeka	3202	-1036
Heebner	3408	-1242
Lansing	3448	-1282
B/Kansas City	3670	-1504
Conglomerate	3718	-1552
Simpson	3739	-1573
Arbuckle	3759	-1593



## DRILL STEM TEST REPORT

Prepared For: **Anchor Bay Petroleum LLC**

2713 Ash St  
Hays KS 67601

ATTN: Ed Glassman

### **Romine SW #5**

#### **19-10s-20w Rooks,KS**

Start Date: 2012.07.26 @ 08:25:00

End Date: 2012.07.26 @ 16:15:30

Job Ticket #: 47079                      DST #: 1

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

Printed: 2012.07.31 @ 11:42:32



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Anchor Bay Petroleum LLC

**19-10s-20w Rooks,KS**

2713 Ash St  
Hays KS 67601

**Romine SW #5**

Job Ticket: 47079

**DST#: 1**

ATTN: Ed Glassman

Test Start: 2012.07.26 @ 08:25:00

## GENERAL INFORMATION:

Formation: **KC"H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:53:30

Time Test Ended: 16:15:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3591.00 ft (KB) To 3655.00 ft (KB) (TVD)**

Reference Elevations: 2172.00 ft (KB)

Total Depth: 3655.00 ft (KB) (TVD)

2163.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 8369**

**Inside**

Press @ Run Depth: 29.38 psig @ 3592.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.26

End Date:

2012.07.26

Last Calib.:

2012.07.26

Start Time: 08:25:05

End Time:

16:15:29

Time On Btm:

2012.07.26 @ 11:51:30

Time Off Btm:

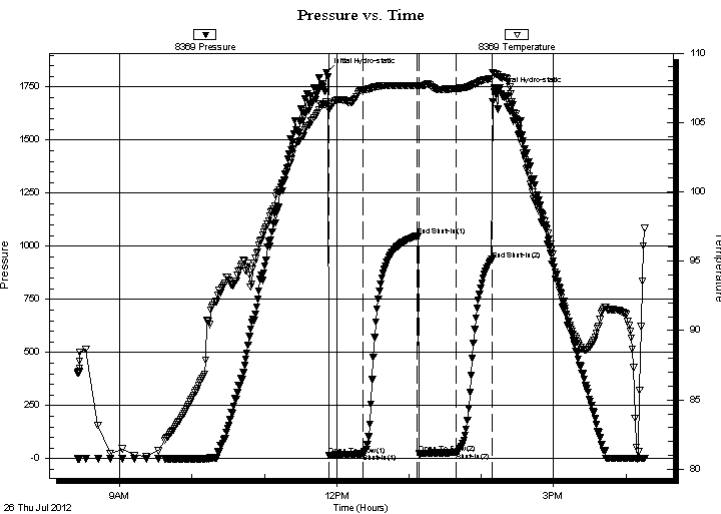
2012.07.26 @ 14:11:00

TEST COMMENT: IF-1 1/4" blow

ISI-No blow

FF-No blow

FSI-No blow



## PRESSURE SUMMARY

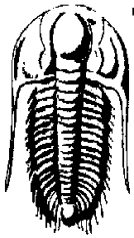
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1818.62	106.48	Initial Hydro-static
2	16.99	105.94	Open To Flow (1)
31	23.07	107.37	Shut-In(1)
76	1049.12	107.66	End Shut-In(1)
77	23.83	107.61	Open To Flow (2)
108	29.38	107.45	Shut-In(2)
137	938.00	108.18	End Shut-In(2)
140	1729.16	108.52	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	VSOCM 10%O 90%M	0.42

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Anchor Bay Petroleum LLC

**19-10s-20w Rooks,KS**

2713 Ash St  
Hays KS 67601

**Romine SW #5**

Job Ticket: 47079

**DST#: 1**

ATTN: Ed Glassman

Test Start: 2012.07.26 @ 08:25:00

## GENERAL INFORMATION:

Formation: **KC"H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:53:30

Time Test Ended: 16:15:30

**Interval: 3591.00 ft (KB) To 3655.00 ft (KB) (TVD)**

Total Depth: 3655.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Reference Elevations: 2172.00 ft (KB)

2163.00 ft (CF)

KB to GR/CF: 9.00 ft

**Serial #: 8319**

**Outside**

Press @RunDepth: psig @ 3592.00 ft (KB)

Start Date: 2012.07.26

End Date:

2012.07.26

Start Time: 08:25:05

End Time:

16:15:29

Capacity: 8000.00 psig

Last Calib.:

2012.07.26

Time On Btm:

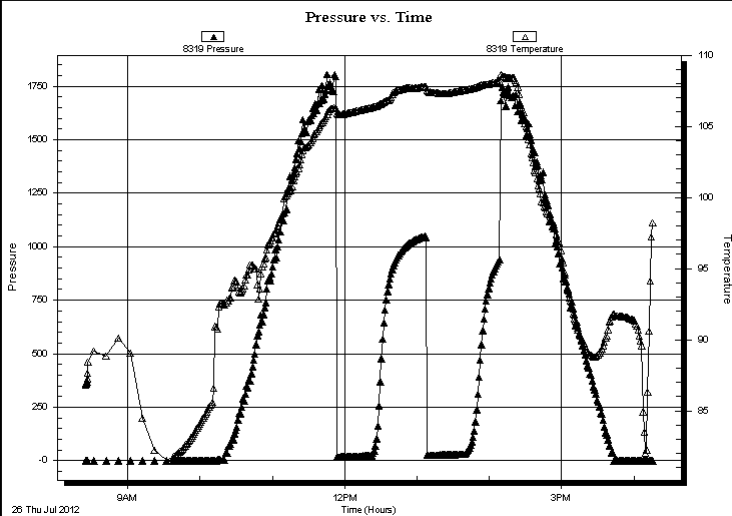
Time Off Btm:

TEST COMMENT: IF-1 1/4" blow

ISI-No blow

FF-No blow

FSI-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	VSOCM 10%O 90%M	0.42

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Anchor Bay Petroleum LLC

**19-10s-20w Rooks,KS**

2713 Ash St  
Hays KS 67601

**Romine SW #5**

Job Ticket: 47079

**DST#: 1**

ATTN: Ed Glassman

Test Start: 2012.07.26 @ 08:25:00

## Tool Information

Drill Pipe:	Length: 3593.00 ft	Diameter: 3.80 inches	Volume: 50.40 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 50.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3591.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	85.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3571.00	
Shut In Tool	5.00			3576.00	
Hydraulic tool	5.00			3581.00	
Packer	5.00			3586.00	21.00 Bottom Of Top Packer
Packer	5.00			3591.00	
Stubb	1.00			3592.00	
Recorder	0.00	8369	Inside	3592.00	
Recorder	0.00	8319	Outside	3592.00	
Perforations	27.00			3619.00	
Change Over Sub	1.00			3620.00	
Drill Pipe	31.00			3651.00	
Change Over Sub	1.00			3652.00	
Bullnose	3.00			3655.00	64.00 Bottom Packers & Anchor

**Total Tool Length: 85.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Anchor Bay Petroleum LLC

**19-10s-20w Rooks,KS**

2713 Ash St  
Hays KS 67601

**Romine SW #5**

Job Ticket: 47079

**DST#: 1**

ATTN: Ed Glassman

Test Start: 2012.07.26 @ 08:25:00

## 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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	VSOCM 10%O 90%M	0.421

Total Length: 30.00 ft      Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



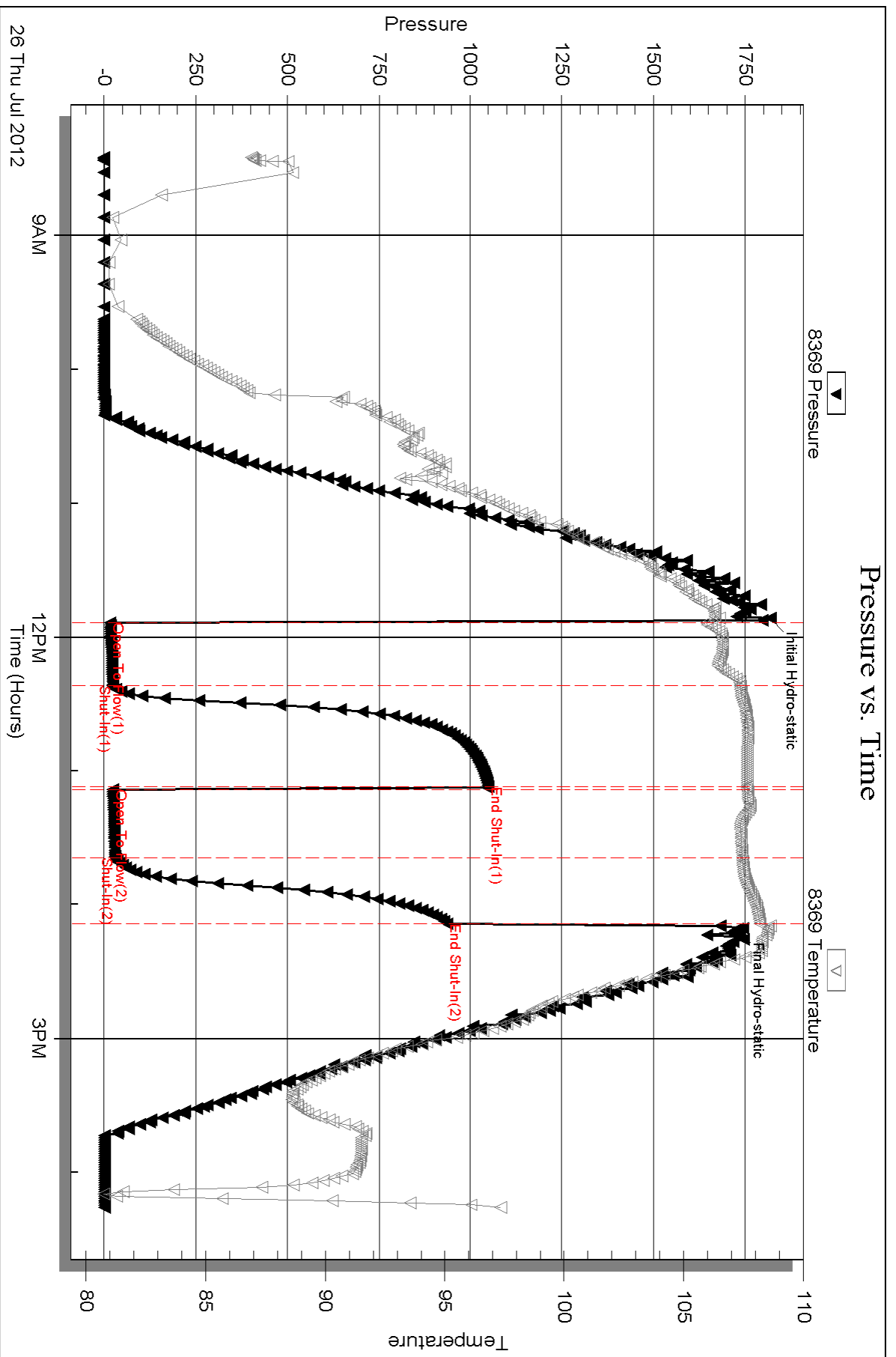
Serial #: 8369

Inside

Anchor Bay Petroleum LLC

Rorrine SW #5

DST Test Number: 1

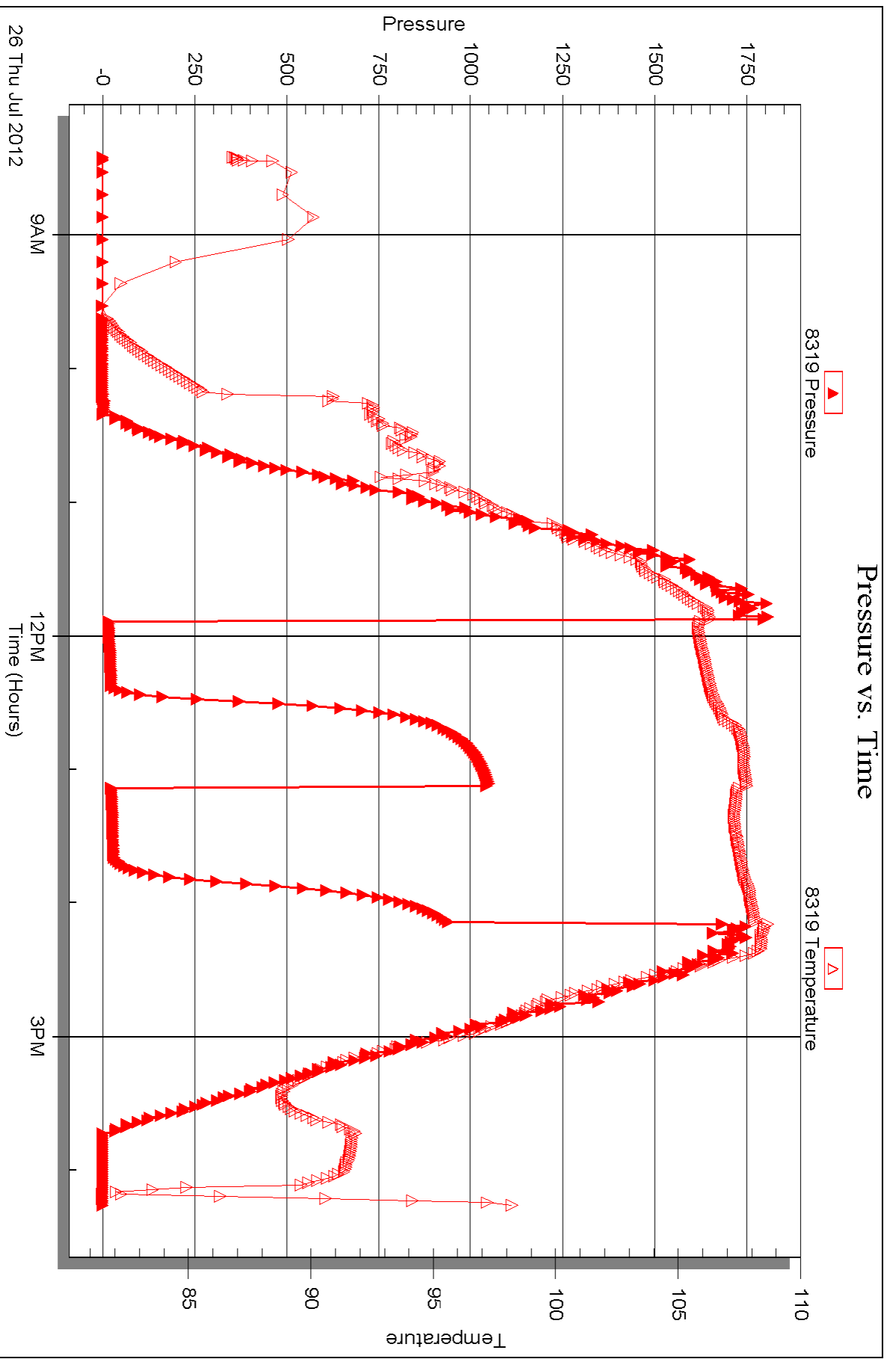


Serial #: 8319

Outside Anchor Bay Petroleum LLC

Rorline SW #5

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Anchor Bay Petroleum LLC**

2713 Ash St  
Hays KS 67601

ATTN: Ed Glassman

### **Romine SW #5**

#### **19-10s-20w Rooks,KS**

Start Date: 2012.07.27 @ 06:25:00

End Date: 2012.07.27 @ 13:01:00

Job Ticket #: 47080                      DST #: 2

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

Printed: 2012.07.31 @ 11:41:06



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Anchor Bay Petroleum LLC

**19-10s-20w Rooks,KS**

2713 Ash St  
Hays KS 67601

**Romine SW #5**

Job Ticket: 47080

**DST#: 2**

ATTN: Ed Glassman

Test Start: 2012.07.27 @ 06:25:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:34:30

Time Test Ended: 13:01:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3664.00 ft (KB) To 3760.00 ft (KB) (TVD)**

Reference Elevations: 2172.00 ft (KB)

Total Depth: 3760.00 ft (KB) (TVD)

2163.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 8369 Inside**

Press @ Run Depth: 23.46 psig @ 3665.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.27 End Date: 2012.07.27

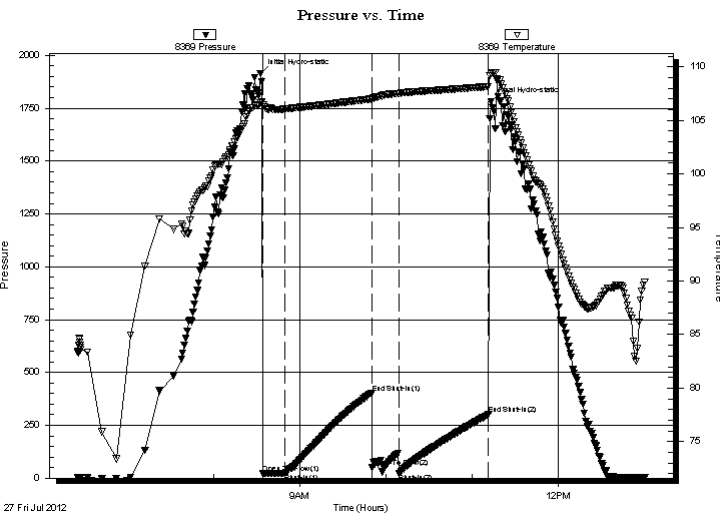
Last Calib.: 2012.07.27

Start Time: 06:25:05 End Time: 13:00:59

Time On Btm: 2012.07.27 @ 08:32:30

Time Off Btm: 2012.07.27 @ 11:13:30

**TEST COMMENT:** IF-3/4" blow  
ISI-No blow  
FF-No blow  
FSI-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1915.21	106.65	Initial Hydro-static
2	21.17	106.41	Open To Flow (1)
17	23.79	106.05	Shut-In(1)
78	400.56	106.99	End Shut-In(1)
78	50.76	107.01	Open To Flow (2)
97	23.46	107.50	Shut-In(2)
159	301.14	108.15	End Shut-In(2)
161	1780.74	109.35	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.07

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Anchor Bay Petroleum LLC

**19-10s-20w Rooks,KS**

2713 Ash St  
Hays KS 67601

**Romine SW #5**

Job Ticket: 47080

**DST#: 2**

ATTN: Ed Glassman

Test Start: 2012.07.27 @ 06:25:00

## Tool Information

Drill Pipe:	Length: 3657.00 ft	Diameter: 3.80 inches	Volume: 51.30 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 51.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3664.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	96.00 ft			
Tool Length:	117.00 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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Change Over Sub	1.00			3644.00	
Shut In Tool	5.00			3649.00	
Hydraulic tool	5.00			3654.00	
Packer	5.00			3659.00	21.00 Bottom Of Top Packer
Packer	5.00			3664.00	
Stubb	1.00			3665.00	
Recorder	0.00	8369	Inside	3665.00	
Recorder	0.00	8319	Outside	3665.00	
Perforations	27.00			3692.00	
Change Over Sub	1.00			3693.00	
Drill Pipe	63.00			3756.00	
Change Over Sub	1.00			3757.00	
Bullnose	3.00			3760.00	96.00 Bottom Packers & Anchor

**Total Tool Length: 117.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Anchor Bay Petroleum LLC

**19-10s-20w Rooks,KS**

2713 Ash St  
Hays KS 67601

**Romine SW #5**

Job Ticket: 47080

**DST#: 2**

ATTN: Ed Glassman

Test Start: 2012.07.27 @ 06:25:00

## 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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

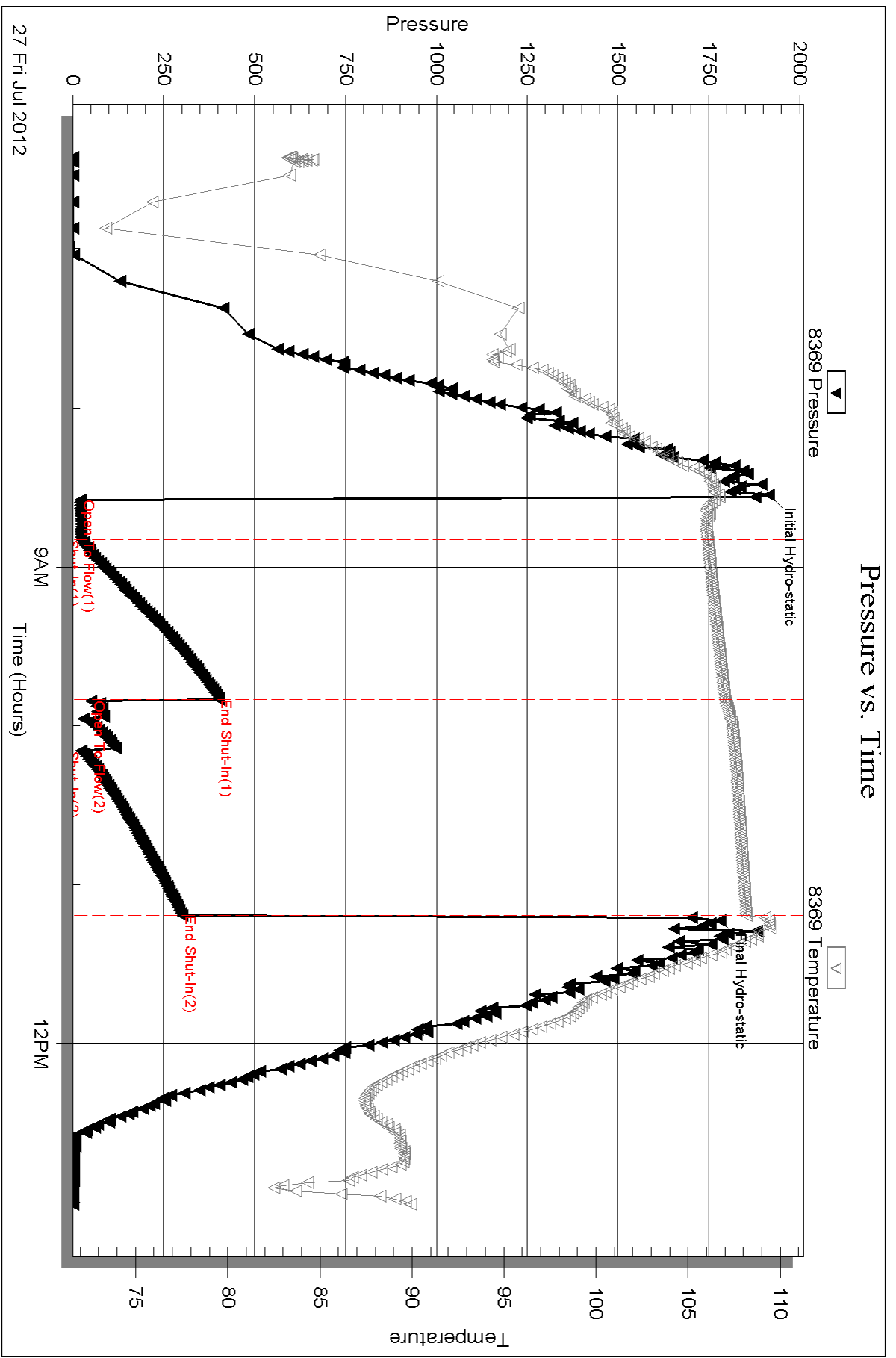
Serial #: 8369

Inside

Anchor Bay Petroleum LLC

Rorrine SW #5

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 47080

Printed: 2012.07.31 @ 11:41:09

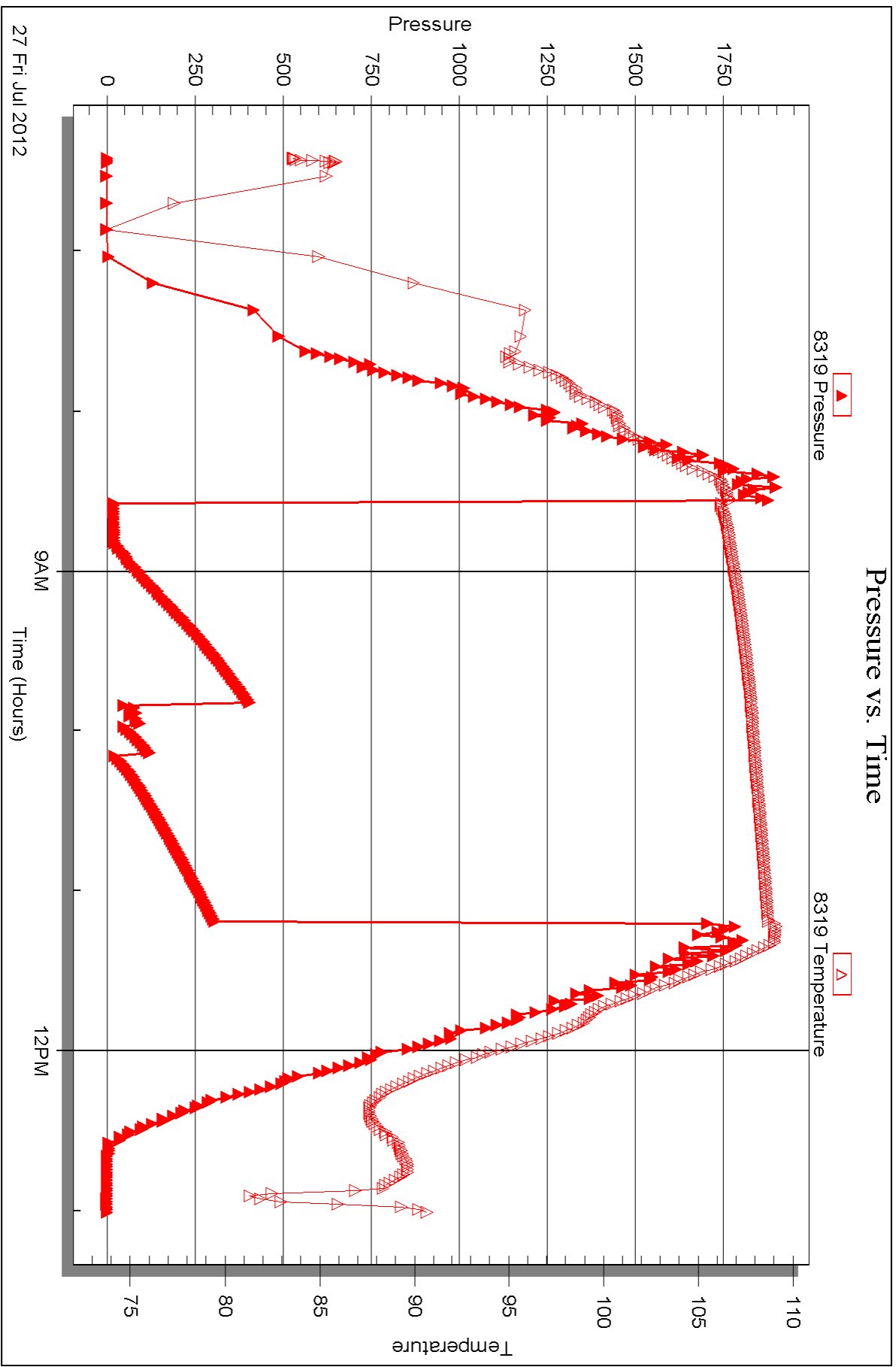


Serial #: 8319

Outside Anchor Bay Petroleum LLC

Rorime SW #5

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Anchor Bay Petroleum LLC**

2713 Ash St  
Hays KS 67601

ATTN: Ed Glassman

### **Romine SW #5**

#### **19-10s-20w Rooks,KS**

Start Date: 2012.07.27 @ 20:45:00

End Date: 2012.07.28 @ 01:50:00

Job Ticket #: 47081                      DST #: 3

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

Printed: 2012.07.31 @ 11:40:02



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Anchor Bay Petroleum LLC

**19-10s-20w Rooks,KS**

2713 Ash St  
Hays KS 67601

**Romine SW #5**

Job Ticket: 47081

**DST#: 3**

ATTN: Ed Glassman

Test Start: 2012.07.27 @ 20:45:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 01:50:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3758.00 ft (KB) To 3784.00 ft (KB) (TVD)**

Reference Elevations: 2172.00 ft (KB)

Total Depth: 3784.00 ft (KB) (TVD)

2163.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 8369 Inside**

Press @ Run Depth: psig @ 3759.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.27

End Date:

2012.07.28

Last Calib.: 1899.12.30

Start Time: 20:45:05

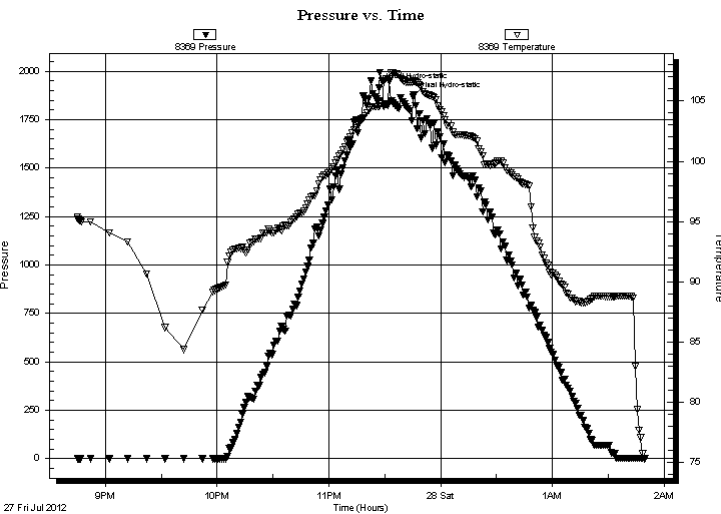
End Time:

01:49:59

Time On Btm: 2012.07.27 @ 23:27:00

Time Off Btm: 2012.07.27 @ 23:45:00

TEST COMMENT: IF-packer failure



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1913.66	104.58	Initial Hydro-static
18	1867.19	106.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	mud	1.68

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Anchor Bay Petroleum LLC

**19-10s-20w Rooks,KS**

2713 Ash St  
Hays KS 67601

**Romine SW #5**

Job Ticket: 47081

**DST#: 3**

ATTN: Ed Glassman

Test Start: 2012.07.27 @ 20:45:00

## Tool Information

Drill Pipe:	Length: 3745.00 ft	Diameter: 3.80 inches	Volume: 52.53 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	52000.00 lb
			<u>Total Volume: 52.53 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	51000.00 lb
Depth to Top Packer:	3758.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	26.00 ft				
Tool Length:	47.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3738.00	
Shut In Tool	5.00			3743.00	
Hydraulic tool	5.00			3748.00	
Packer	5.00			3753.00	21.00 Bottom Of Top Packer
Packer	5.00			3758.00	
Stubb	1.00			3759.00	
Recorder	0.00	8369	Inside	3759.00	
Recorder	0.00	8319	Outside	3759.00	
Perforations	22.00			3781.00	
Bullnose	3.00			3784.00	26.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>47.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Anchor Bay Petroleum LLC

**19-10s-20w Rooks,KS**

2713 Ash St  
Hays KS 67601

**Romine SW #5**

Job Ticket: 47081

**DST#: 3**

ATTN: Ed Glassman

Test Start: 2012.07.27 @ 20:45:00

## 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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	mud	1.683

Total Length: 120.00 ft      Total Volume: 1.683 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: paker failure

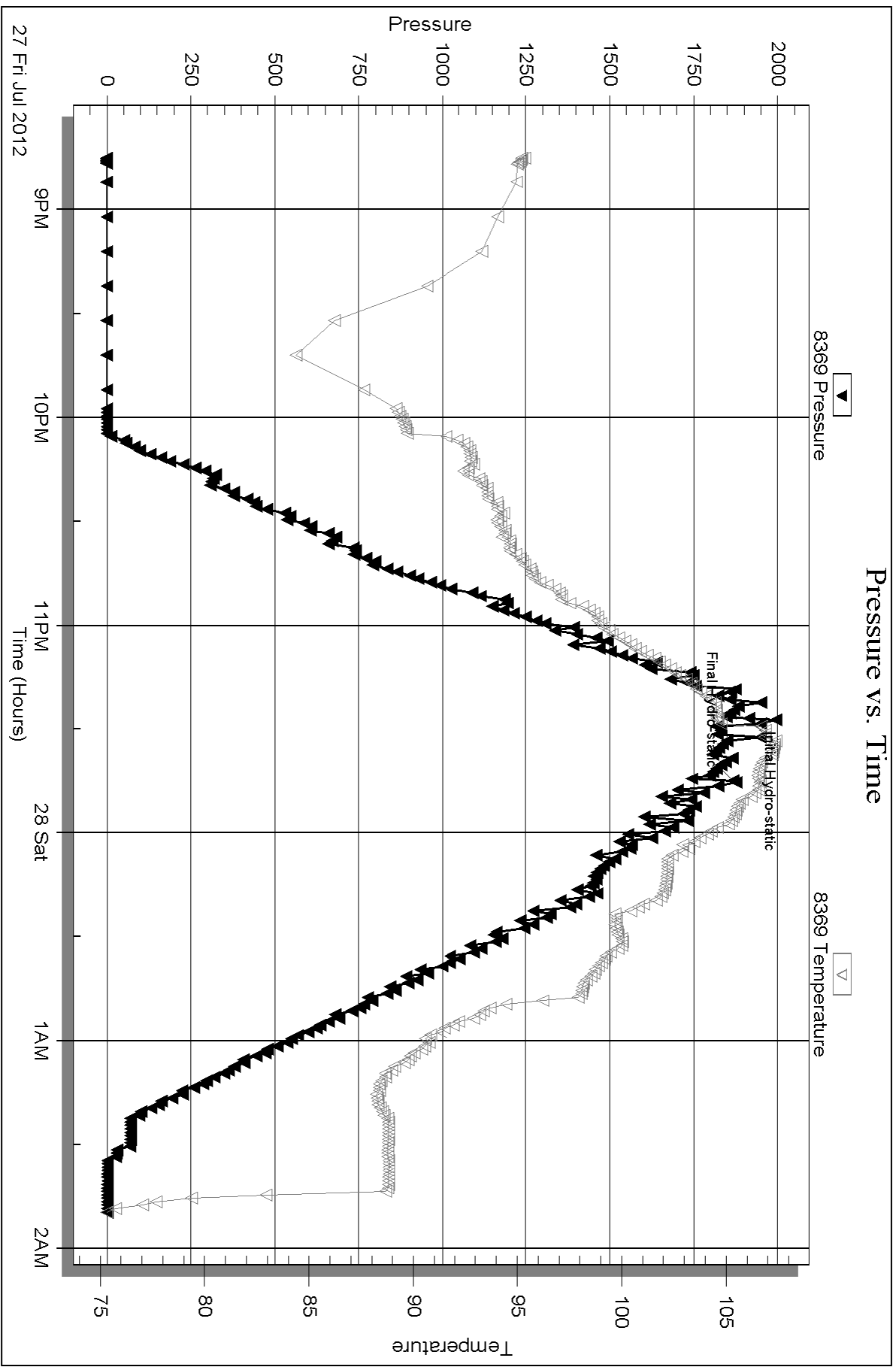
Serial #: 8369

Inside

Anchor Bay Petroleum LLC

Rorime SW #5

DST Test Number: 3

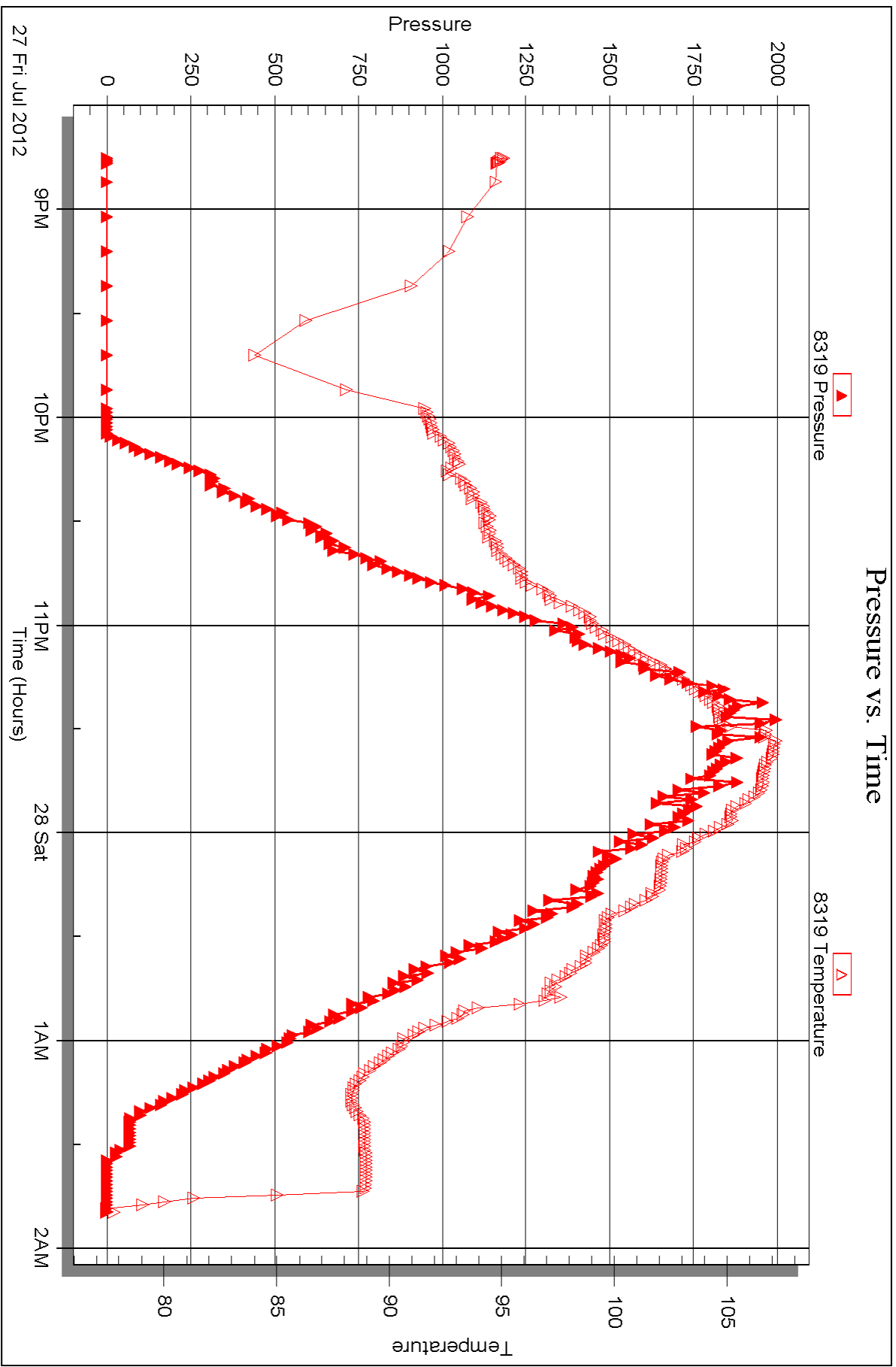


Serial #: 8319

Outside Anchor Bay Petroleum LLC

Rorime SW/#5

DST Test Number: 3







## DRILL STEM TEST REPORT

Prepared For: **Anchor Bay Petroleum LLC**

2713 Ash St  
Hays KS 67601

ATTN: Ed Glassman

### **Romine SW #5**

#### **19-10s-20w Rooks,KS**

Start Date: 2012.07.28 @ 02:10:00

End Date: 2012.07.28 @ 08:59:30

Job Ticket #: 47082                      DST #: 4

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

Printed: 2012.07.31 @ 11:38:41



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Anchor Bay Petroleum LLC

**19-10s-20w Rooks,KS**

2713 Ash St  
Hays KS 67601

**Romine SW #5**

Job Ticket: 47082

**DST#: 4**

ATTN: Ed Glassman

Test Start: 2012.07.28 @ 02:10:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:03:30

Time Test Ended: 08:59:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3664.00 ft (KB) To 3784.00 ft (KB) (TVD)**

Reference Elevations: 2172.00 ft (KB)

Total Depth: 3784.00 ft (KB) (TVD)

2163.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 8369**

**Inside**

Press @ Run Depth: 45.60 psig @ 3665.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.28

End Date:

2012.07.28

Last Calib.:

2012.07.28

Start Time: 02:10:05

End Time:

08:59:29

Time On Btm:

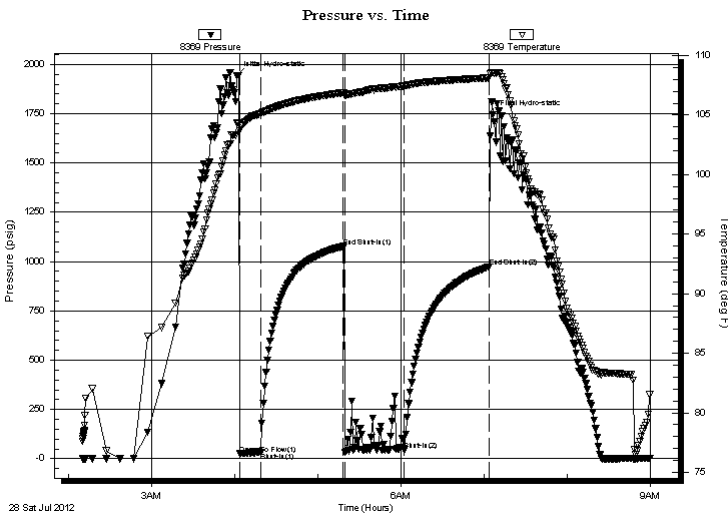
2012.07.28 @ 04:01:30

Time Off Btm:

2012.07.28 @ 07:06:30

**TEST COMMENT:** IF-2 1/4" blow  
ISI-No blow  
FF-1/4" blow  
FSI-No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1943.77	104.38	Initial Hydro-static
2	25.08	103.66	Open To Flow (1)
17	30.87	105.13	Shut-In(1)
77	1076.53	106.88	End Shut-In(1)
78	34.30	106.66	Open To Flow (2)
121	45.60	107.38	Shut-In(2)
182	974.06	108.13	End Shut-In(2)
185	1746.05	108.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
50.00	VSOCM 2%O 98%M	0.70

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Anchor Bay Petroleum LLC

**19-10s-20w Rooks,KS**

2713 Ash St  
Hays KS 67601

**Romine SW #5**

Job Ticket: 47082

**DST#: 4**

ATTN: Ed Glassman

Test Start: 2012.07.28 @ 02:10:00

## Tool Information

Drill Pipe:	Length: 3656.00 ft	Diameter: 3.80 inches	Volume: 51.28 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 51.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3664.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	120.00 ft			
Tool Length:	141.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3644.00	
Shut In Tool	5.00			3649.00	
Hydraulic tool	5.00			3654.00	
Packer	5.00			3659.00	21.00 Bottom Of Top Packer
Packer	5.00			3664.00	
Stubb	1.00			3665.00	
Recorder	0.00	8369	Inside	3665.00	
Recorder	0.00	8319	Outside	3665.00	
Perforations	3.00			3668.00	
Change Over Sub	1.00			3669.00	
Drill Pipe	95.00			3764.00	
Change Over Sub	1.00			3765.00	
Perforations	16.00			3781.00	
Bullnose	3.00			3784.00	120.00 Bottom Packers & Anchor

**Total Tool Length: 141.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Anchor Bay Petroleum LLC

**19-10s-20w Rooks,KS**

2713 Ash St  
Hays KS 67601

**Romine SW #5**

Job Ticket: 47082

**DST#: 4**

ATTN: Ed Glassman

Test Start: 2012.07.28 @ 02:10:00

## 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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	VSOCM 2%O 98%M	0.701

Total Length: 50.00 ft      Total Volume: 0.701 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

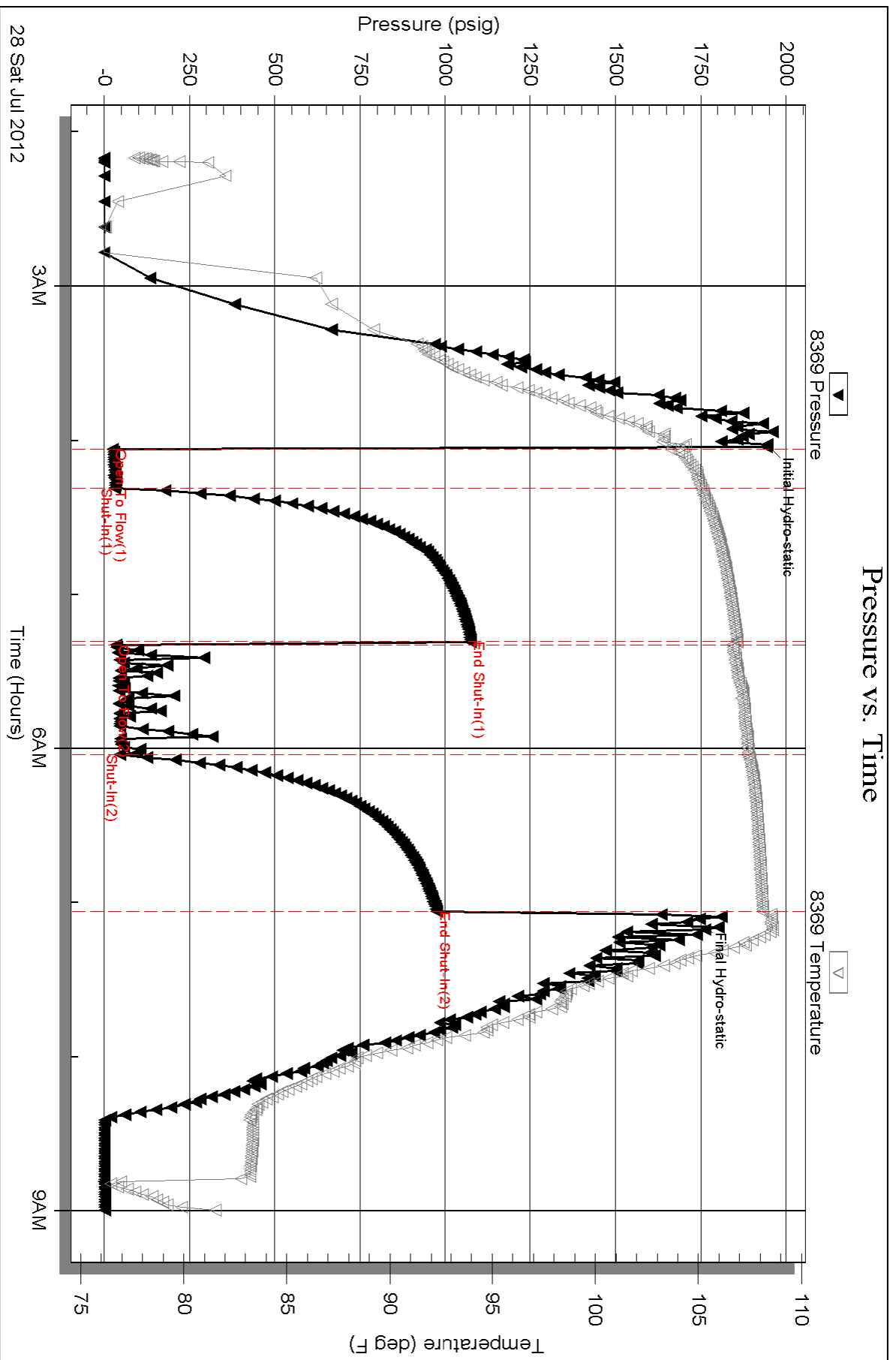
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time

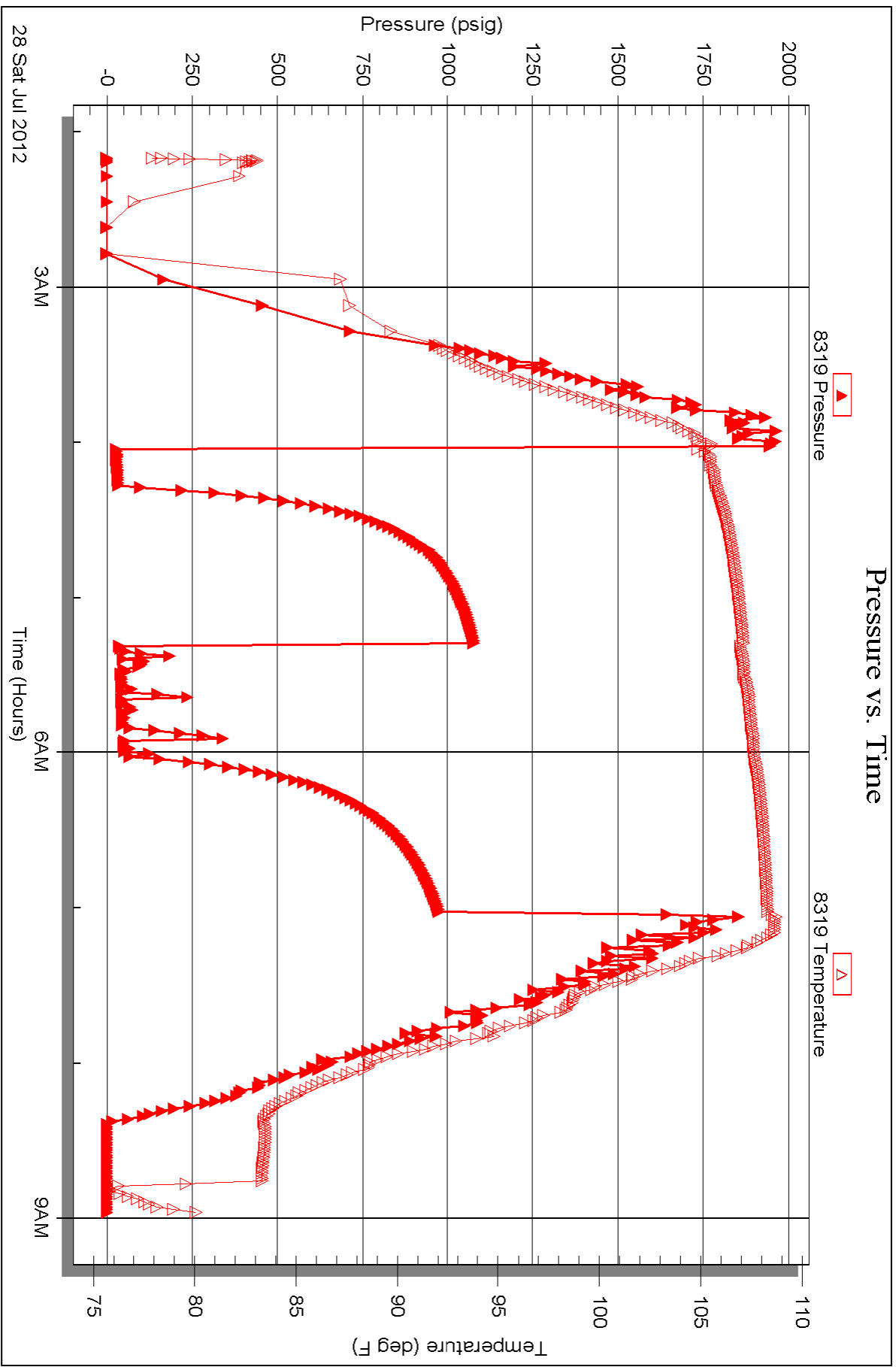


Serial #: 8319

Outside Anchor Bay Petroleum LLC

Rorine SW #5

DST Test Number: 4





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47079

4/10

Well Name & No. Romine SW #5 Test No. 1 Date 7/26/12  
 Company Anchor Bay Petroleum LLC Elevation 2172 KB 2163 GL  
 Address 2713 Ash ST Hays KS 67601  
 Co. Rep / Geo. Ed Glassman Rig Integrity #7  
 Location: Sec. 19 Twp. 10 Rge. 20 Co. Rooks State KS

Interval Tested 3591 - 3655 Zone Tested KC "H-K"  
 Anchor Length 64 Drill Pipe Run 3593 Mud Wt. 8.9  
 Top Packer Depth 3586 Drill Collars Run --- Vis 52  
 Bottom Packer Depth 3591 Wt. Pipe Run --- WL 8.8  
 Total Depth 3655 Chlorides 4,000 ppm System LCM  
 Blow Description IF - 1 1/4 in blow  
ISF - No blow  
FF - No blow  
FSF - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>VSOCM</u>	<u>10</u>		<u>90</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 108 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1819  Test 1150 T-On Location 7:40  
 (B) First Initial Flow 17  Jars \_\_\_\_\_ T-Started 8:25  
 (C) First Final Flow 23  Safety Joint \_\_\_\_\_ T-Open 11:45  
 (D) Initial Shut-In 1049  Circ Sub \_\_\_\_\_ T-Pulled 14:00  
 (E) Second Initial Flow 24  Hourly Standby \_\_\_\_\_ T-Out 16:15  
 (F) Second Final Flow 29  Mileage 73rt 113.15 Comments \_\_\_\_\_  
 (G) Final Shut-In 938  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1,729  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 45  Day Standby \_\_\_\_\_ Total 1263.15  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 30 Sub Total 1263.15

Approved By \_\_\_\_\_ Our Representative Bur D...

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47080

4/10

Well Name & No. Romine SW #5 Test No. 2 Date 7/27/12  
 Company Anchor Bay Petroleum LLC Elevation 2172 KB 2163 GL  
 Address 2713 Ash ST Hays KS 67601  
 Co. Rep / Geo. Ed Glassman Rig Integrity #7  
 Location: Sec. 19 Twp. 10 Rge. 20 Co. Rooks State KS

Interval Tested 3664-3760 Zone Tested Arbuckk  
 Anchor Length 96 Drill Pipe Run \_\_\_\_\_ Mud Wt. 8.9  
 Top Packer Depth 3659 Drill Collars Run — Vis 52  
 Bottom Packer Depth 3664 Wt. Pipe Run — WL 8.8  
 Total Depth 3760 Chlorides 4,000 ppm System LCM  
 Blow Description IF - 3/4 in blow  
ISF - No blow  
FF - No blow  
FSF - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 108 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1,915  Test 1150 T-On Location 6:10  
 (B) First Initial Flow 21  Jars \_\_\_\_\_ T-Started 6:25  
 (C) First Final Flow 24  Safety Joint \_\_\_\_\_ T-Open 8:30  
 (D) Initial Shut-In 401  Circ Sub \_\_\_\_\_ T-Pulled 13:00  
 (E) Second Initial Flow 51  Hourly Standby \_\_\_\_\_ T-Out \_\_\_\_\_  
 (F) Second Final Flow 23  Mileage 73-T 113.15 Comments \_\_\_\_\_  
 (G) Final Shut-In 301  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1,781  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 15  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 60  Day Standby \_\_\_\_\_ Total 1263.15  
 Final Flow 20  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60 Sub Total 1263.15

Approved By \_\_\_\_\_ Our Representative Butt D...

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47081

4/10

Well Name & No. Romine SW #5 Test No. 3 Date 7/27/12  
 Company Anchor Bay Petroleum LLC Elevation 2172 KB 2163 GL  
 Address 2713 Ash ST Hays KS 67601  
 Co. Rep / Geo. Ed Glassman Rig Integrity #7  
 Location: Sec. 19 Twp. 10 Rge. 20 Co. Rooks State KS

Interval Tested 3758 - 3784 Zone Tested Arb.  
 Anchor Length 26 Drill Pipe Run \_\_\_\_\_ Mud Wt. 8.9  
 Top Packer Depth 3753 Drill Collars Run — Vis 52  
 Bottom Packer Depth 3758 Wt. Pipe Run — WL 8.8  
 Total Depth 3784 Chlorides 4000 ppm System LCM  
 Blow Description IF - Packer failure  
ISL -

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>Mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 120 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic \_\_\_\_\_  Test 950 T-On Location 20:15  
 (B) First Initial Flow \_\_\_\_\_  Jars \_\_\_\_\_ T-Started 20:45  
 (C) First Final Flow \_\_\_\_\_  Safety Joint \_\_\_\_\_ T-Open 23:20  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub \_\_\_\_\_ T-Pulled \_\_\_\_\_  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 1:50  
 (F) Second Final Flow \_\_\_\_\_  Mileage 73RT 113.15 Comments \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic \_\_\_\_\_  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Open \_\_\_\_\_  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In \_\_\_\_\_  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow \_\_\_\_\_  Day Standby \_\_\_\_\_ Total 1063.15  
 Final Shut-In \_\_\_\_\_  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1063.15

Approved By \_\_\_\_\_ Our Representative Ben D...

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47082

4/10

Well Name & No. Rominc SW #5 Test No. 4 Date 7/28/12  
 Company Anchor bay Petroleum LLC Elevation 2172 KB 2163 GL  
 Address 2713 Ash ST Hays KS 67601  
 Co. Rep / Geo. Ed Glassman Rig Integrity #7  
 Location: Sec. 19 Twp. 10 Rge. 20 Co. Rooks State KS

Interval Tested 3664-3784 Zone Tested Arb  
 Anchor Length 120 Drill Pipe Run 3656 Mud Wt. 8.9  
 Top Packer Depth 3659 Drill Collars Run - Vis 52  
 Bottom Packer Depth 3664 Wt. Pipe Run - WL 8.8  
 Total Depth 3784 Chlorides 4,000 ppm System LCM  
 Blow Description IF - 2 1/4 in blow  
ISI - No blow  
FF - 1/4 in blow  
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>vsocm</u>		<u>2</u>		<u>98</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 50 BHT 108 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1,944  Test 1150 T-On Location \_\_\_\_\_  
 (B) First Initial Flow 25  Jars T-Started 2:10  
 (C) First Final Flow 31  Safety Joint T-Open 3:55  
 (D) Initial Shut-In 1,077  Circ Sub T-Pulled 6:55  
 (E) Second Initial Flow 34  Hourly Standby T-Out 8:58  
 (F) Second Final Flow 46  Mileage 73 RT x 2 226.30 Comments \_\_\_\_\_  
 (G) Final Shut-In 974  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1,746  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1376.30  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1376.30

Approved By \_\_\_\_\_ Our Representative Butt Dier

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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

Home Office P.O. Box 32 Russell, KS 67665

No. 763

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
7-29-12	19	10	20	Rocks	KS		10:15A.m

Lease	Well No.	Location
ROMIUE	SW #5	Palco's CED 2w Vinto

Contractor	Owner
Integrity	To Quality Oilwell Cementing, Inc.

Type Job	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.		
Hole Size	T.D.	Depth	Charge To
7 7/8	3830	3830	Anchor Bay

Csg.	Depth	Charge To
5 1/2	3830	Anchor Bay

Tbg. Size	Depth	Street

Tool	Depth	City	State
Port collar	1705		

Cement Left in Csg.	Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.
42.25	43.25	

Meas Line	Displace	Cement Amount Ordered
	90.143L	1800am 10% silt

**EQUIPMENT**

Pumptrk	No.	Cementor	500gal med clear
16		Helper	Common 180
Bulktrk	No.	Driver	Poz. Mix
		Driver	
Bulktrk	No.	Driver	Gel.
14		Driver	

**JOB SERVICES & REMARKS**

Remarks:	Calcium
Rat Hole	Hulls
305K	Salt 16
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48 500 gal
D/V or Port Collar	CFL-117 or CD110 CAF 38

5 1/2 set @ 3830 insert @ 3787.75  
 Est. Circulation Pump 500gal med clear 10BL spacer Plug Return  
 Cement 5 1/2 with 150SK Clear lines  
 Displace Plug Plug landed @ 1200# held Release Pressure 1/2"

Sand	Handling
	196
Mileage	

**FLOAT EQUIPMENT**

Guide Shoe	5 1/2
Centralizer	5
Baskets	2
AFU Inserts	Port collar
Float Shoe	1
Latch Down	1

Pumptrk Charge	prod long string
Mileage	42

X Signature *E. Gamm*

Tax
Discount
Total Charge

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 810

Date	7-21-12	Sec.	19	Twp.	10	Range	20	County	ROOKS	State	KANSAS	On Location		Finish	9:15pm
Lease	ROMINE SW			Well No.	#5			Location	PAVO STO CCRD - 3W - N/INTO						
Contractor	INTEGRITY RIG #7							Owner	ANCHOR BAY						
Type Job	SURFACE							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size	12 1/4'			T.D.	214'			Charge To	ANCHOR BAY						
Csg.	8 5/8'			Depth	214			Street	2713 ASH ST.						
Tbg. Size				Depth				City	HAYS			State	KS, 67601		
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.				Shoe Joint	15'			Cement Amount Ordered 165 com 3% sec. 2% GEL							
Meas Line				Displace	13 BLS										

**EQUIPMENT**

Pumptrk #15	No.	Cementer	LESCO	Helper		Common	165
Bulktrk #13	No.	Driver	LONNIE	Driver		Poz. Mix	
Bulktrk #11	No.	Driver	NICK	Driver		Gel.	3
						Calcium	6

**JOB SERVICES & REMARKS**

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling 174
	Mileage

CEMENT CIRCULATE!

**FLOAT EQUIPMENT**

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge Surface
	Mileage 42

THANK YOU!

*Don Morris*

X Signature

Tax	
Discount	
Total Charge	

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 835

Date	8-22-12	Sec.	19	Twp.	10	Range	20	County	ROOKS	State	KANSAS	On Location		Finish	2:00 PM
------	---------	------	----	------	----	-------	----	--------	-------	-------	--------	-------------	--	--------	---------

Lease	ROMINE SW	Well No.	#5	Location	
-------	-----------	----------	----	----------	--

Contractor	ULTIMATE WELL SERVICE	Owner	ANCHOR BAY
Type Job	AEB SQUEEZE	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Hole Size		T.D.	3784'
Csg. 5 1/2"		Depth	
Tbg. Size 2 3/8"		Depth	
Tool		City	State
Cement Left in Csg.		Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.
Meas Line		Displace	Cement Amount Ordered 150 com - USED 50 SKS

**EQUIPMENT**

Pumptrk #15	No.	Cementer Helper	NICK	Common	50
Bulktrk #8	No.	Driver	LONNIE	Poz. Mix	
Bulktrk D/U	No.	Driver	CISCO	Gel.	

**JOB SERVICES & REMARKS**

Remarks:	Calcium
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
T.D 3784	CFL-117 or CD110 CAF 38
PACKER @ 3675	Sand
TOP PERFS, 3759-3762	Handling 150
BOTTOM PERFS, 3776-3780	Mileage
T.V 14.2	<b>FLOAT EQUIPMENT</b>
C.V 2.0	Guide Shoe
DISP. 116.2	Centralizer
LOADED BACKSIDE @ 1 BLS PRESSURED TO 500 LBS, LOADED TURNING 6 BLS - ESTABLISHED RATE 2 1/2 BLS PER MIN. MIKED 50 SKS - DISPLACED + WASHED PUMP STAGED 1 1/2 HR PRESSURED TO 2000 LBS SQUEEZE HOLD - PULLED 6 JOINTS - REVERSED OUT - PRESSURED UP TO 600 LBS SHUT IN.	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge Squeez
	Mileage 42

THANK YOU.  
Signature [Handwritten Signature]

Tax	
Discount	
Total Charge	

# ALLIED OIL & GAS SERVICES, LLC

056199

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

Russell

DATE <u>8-27-12</u>	SEC. <u>19</u>	TWP. <u>10</u>	RANGE <u>26</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Romine</u>	WELL # <u>5</u>	LOCATION <u>Parker 9th &amp; K-10</u>			COUNTY <u>Rooks</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR <u>W</u>
TYPE OF JOB <u>SRVCS</u>
HOLE SIZE _____ T.D. _____
CASING SIZE <u>5 1/2</u> _____ DEPTH _____
TUBING SIZE <u>2</u> _____ DEPTH _____
DRILL PIPE _____ DEPTH _____
TOOL <u>6 1/2</u> _____ DEPTH <u>3675</u>
PRES. MAX _____ MINIMUM _____
MEAS. LINE _____ SHOE JOINT _____
CEMENT LEFT IN CSG. _____
PERFS. <u>3766-3770</u>
DISPLACEMENT _____

OWNER _____
CEMENT _____
AMOUNT ORDERED <u>1000 4.5A</u>
<u>2 1/2 2700 on side</u>
COMMON <u>75</u> @ <u>16.25</u> <u>1,218.75</u>
POZMIX _____ @ _____
GEL _____ @ _____
CHLORIDE _____ @ _____
ASC _____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
HANDLING <u>104.24</u> @ <u>2.10</u> <u>220.14</u>
MILEAGE <u>170.00</u> @ <u>2.35</u> <u>401.35</u>
TOTAL <u>1840.29</u>

### EQUIPMENT

PUMP TRUCK CEMENTER <u>Kay</u>
# <u>417</u> HELPER <u>Wandy</u>
BULK TRUCK _____
# <u>410</u> DRIVER <u>KAREN</u>
BULK TRUCK _____
# _____ DRIVER _____

### REMARKS:

set Parker @ 3675, loaded Bulk side  
 24 bbl to 500 ft, Injection rate  
 3 bbl @ 1000 ft, mixed 75% cement  
 washed lines clean, Displaced 15.25 bbl  
 to 2000 ft. Hold 45 min, wash clean shot  
 way 2000 ft. Called out. Pressure  
 up 3000 ft in.  
 Thanks!

CHARGE TO: Anchor bay

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

### SERVICE

DEPTH OF JOB _____
PUMP TRUCK CHARGE _____ <u>1050.00</u>
EXTRA FOOTAGE _____ @ _____
MILEAGE <u>MILV 35</u> @ <u>7.00</u> <u>245.00</u>
MANIFOLD _____ @ _____
<u>MILV 35</u> @ <u>4.00</u> <u>140.00</u>
TOTAL <u>1435.00</u>

### PLUG & FLOAT EQUIPMENT

_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____

To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment  
 and furnish water and helper(s) to assist cementing

LOG

COMPANY ANCHOR BAY PETROLEUM LLC

HAYS, KANSAS 67601

WELL Romine SW #5

FIELD COOPER

LOCATION 1705 FSL & 4651 FEL

SEC. 19 TWP. 10S RGE. 20W

COUNTY ROOKS

STATE KANSAS

API 15-163-24053-00-00

OPERATOR ANCHOR BAY PETROLEUM LLC

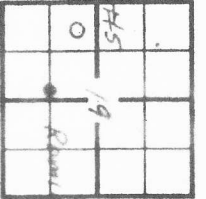
CONTRACTOR INTEGRITY DRILLING

COMM: 7-21-2012 COMP: CASING RECORD

SURF: 8 1/2 @ 213' PROD: 5 1/2 @ 3831

TOTAL DEPTH DRILLERS: 3830  
TOTAL DEPTH LOG 3832

Romine SW #5



PRODUCTION

ELEVATION KB 2166  
DF  
GL 2157

Drilling Measured From: KELLY BASHING

Samples Saved From 3100 To 7100

Drilling Time From 3000 To 7000

Samples Examined From: 3100 To T.D.

Geological Supervision From 3100 To Total Depth

Wellsite Geologist ED GINSBERG

Electrical Surveys DUAL INDUCTION

COMPENSATED DENSITY -

NEUTRON MICRO

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
STONE CORRAL	1642 (524)	1644	522	+15
R/STONE CORRAL	1681 (485)	1682	484	+13
TOPEKA	3201 (-1035)	3202	-1036	+10
HEEBNER	3408 (-1242)	3408	-1242	+7
LANSING	3446 (-1280)	3448	-1282	+7
B/KANSAS CITY	3664 (-1498)	3670	-1504	+3
CONGLOMERATE	3710 (-1544)	3718	-1552	---
SYMONSON	3740 (-1574)	3739	-1573	---
ARBuckle	3752 (-1586)	3759	-1593	-4

REFERENCE WELL FOR STRUCTURE

Poverty Oil Company  
Romine #1, 1340' FSL & 2755' FEL, SEC 19-10S-20W  
ROCK CD KS

FORMATION	INTERVAL	DESCRIPTION OF SHOW
7-22-2012	321	
7-23-2012	2022	
7-24-2012	2903	
7-25-2012	3313	
7-26-2012	3655	
7-27-2012	3760	
7-28-2012	3784	
7-29-2013	3830	

FORMATION	INTERVAL	DESCRIPTION OF SHOW
[Large X mark across the table]		





LOG 7710

DRILLING TIME IN MINUTES  
PER FOOT  
Rate of Penetration Decreases



5" 10" 15" 20" 25"

DEPTH

LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

1630

ANHYDRITE 10% (32%)

40

C 1650

60

70

C 80

BIFENNYDRITE 10% (48%)

90

C 3000

10

20

30

C

40

50

60

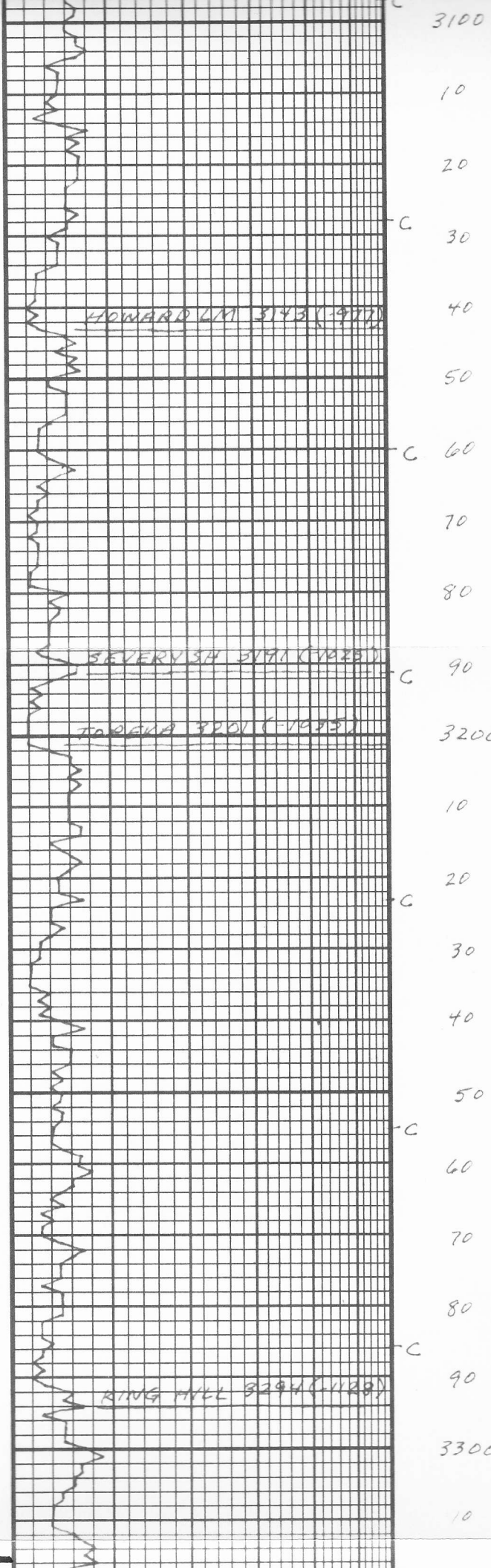
C

70

80

90

DISPLACE  
@ 3050  
CHANGE BIT  
PDC to B



HOWARD LM 3143 (-977)

BEVERLY SH 3171 (1923)

TARPEKA 3201 (-1935)

RING HILL 3294 (1928)

SH: gry, med, blk

LS: tan-lt gry, f-med xln, fos, inter xln-frag  $\phi$  NS

SH: mstly vari clrd

LS: lt tan-brn, sme lt gry, f-med xln, inter xln  $\phi$ , NS

SH: gry, med, pty, sme blu-grn, sme Fe & xls.

CONG: SH-gry-dk gry, f, med, dk, hvy show oil, string  $\phi$  or SS: cl, lt gry, well sort, f grn, poor cons, VSSFO, sme C grns, dk stn.

SH: gry, med, pty-blky.

SH: gry, med, pty.

LS: tan, lt gry, f-med xln, inter xln-frag  $\phi$ , fos, NS

LS: SAB

SH: gry

LS: tan, f-med xln, inter xln  $\phi$ , sli chky, SSFO, VSD, lt even stn.

SH: gry, med, pty-blky.

LS: lt gry, f-med xln, inter xln  $\phi$ , fos, NS.

SH: gry, med, pty.

LS: lt gry, motld, fos, inter xln-frag  $\phi$ , NS

LS: tan-lt gry, f-med xln, inter xln  $\phi$ , NS.

SH: blk, carb

SH: gry, sme vari clrd, med, pty-blky.

LS: tan f-med xln, inter xln  $\phi$ , NS

VIS 53  
wt 8.6

VIS 50  
wt 8.7

VIS 52  
WE 8.9  
FIL 8.8  
CL 4000  
pH 10.0  
LCM NIL

VIS 49  
wt 8.8

wt 8.8

20

LS: SAB

30

SH: gry

40

QUEEN HILL 3449 (1180)

C

50

SH: blk, carb

VIS 49

SH: gry

wt 8.8

60

LS: tan - lt brn, f-med xln, ool, inter xln-ool  
Ø NS

70

LS: tan, f-med xln, inter xln Ø, FSFO, VSD, lt spty stn.

C

80

LS: tan, f-med xln, inter xln Ø, NS.

VIS 49

90

SH: gry, f, spty.

wt 8.8

3400

MEEBNER 3408 (1242)

C

10

SH: blk, carb, blk.

20

SH: lt gry - lt blu-grn, f, med, spty.

VIS 49

TORONTO 3431C (1265)

30

LS: wt - lt tan, f-med xln, chky, inter xln Ø, NS.

wt 8.9

40

LANSHE 3446 (1280)

C

50

LS: tan, f-med xln, sli ool, chrt, inter xln-ool Ø, NS.

VIS 9.0

60

LS: tan, f-med xln, inter xln Ø, NS.

wt 52

70

LS: tan, f-med xln, inter xln Ø, NS.

C

80

SH: gry

90

LS: wt - lt tan, f-med xln, ool, inter xln-ool Ø, FSFO, VSD, lt drk spty stn.

3500

SH: gry

C

10

LS: wt - lt tan, f-med xln, inter xln Ø, SSFO, VSD, drk scrd-spty stn.

VIS 53

20

SH: gry

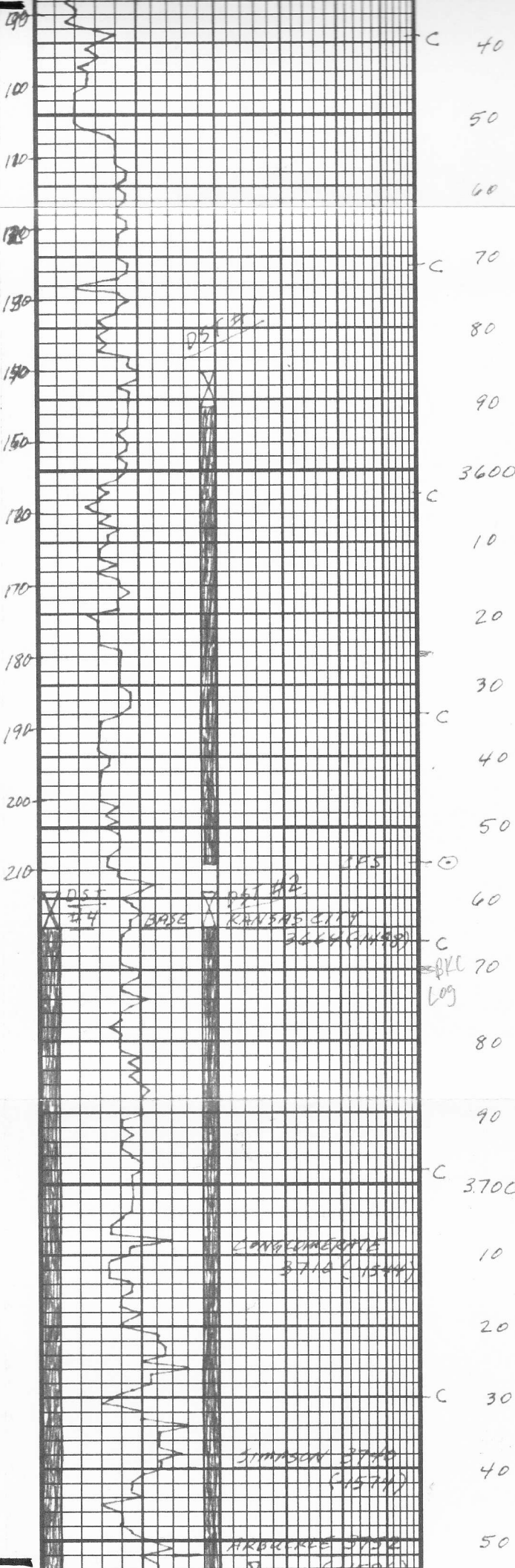
wt 9.0

30

LS: tan - lt brn, f-med xln, fos, inter xln-frao

PP 750

SPM 55



xln, fcs, inter xln - frag  
 Ø, FSFO, Gd odor, It  
 even str.

40  
 50  
 60  
 70  
 SH: blk, carb  
 SH: gry, med, blk, y.

80  
 90  
 LS: wt - lt tan, f-med xln,  
 chrty, inter xln Ø,  
 SSFO, VSO, It spty str.

3600  
 SH: gry, med, blk, y, sme  
 Fett

10  
 LS: tan, sme wt, f-med  
 xln, ool, inter xln - ool  
 Ø FSFO, VSO, It spty  
 str.

20  
 SH: gry, med, plty.

30  
 LS: wt - lt tan, med xln,  
 ool, inter xln - ool Ø,  
 FSFO, sli odor, It spty  
 str.

40  
 SH: blk, carb.

50  
 LS: wt - lt tan, f-med  
 xln, inter xln Ø, chrty,  
 sme Fett fiks, SSFO,  
 sme hvy oil, VSO, drk  
 spty str.

60  
 SH: gry, med, plty - blk, y.

70  
 Log

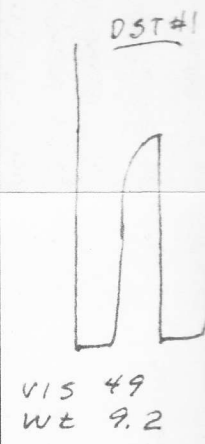
80  
 LS: tan, f-med xln, inter  
 xln Ø, chrty, NS.

90  
 SH: gry, sme vari clrd  
 plty - blk, y.

3700  
 LS: lt tan, f-med xln,  
 sndy, sme scrd clstrs,  
 inter xln - grnØ, NS.

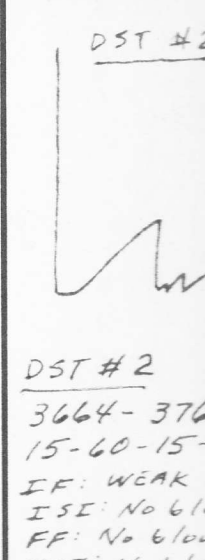
10  
 CONG: LS: wt - lt tan, sme  
 orns, gel chrty,  
 SS: clr, f grn, subang,  
 CHT: vari clrd sme  
 dead oil fiks, glauc,  
 SH: gry - drk gry.

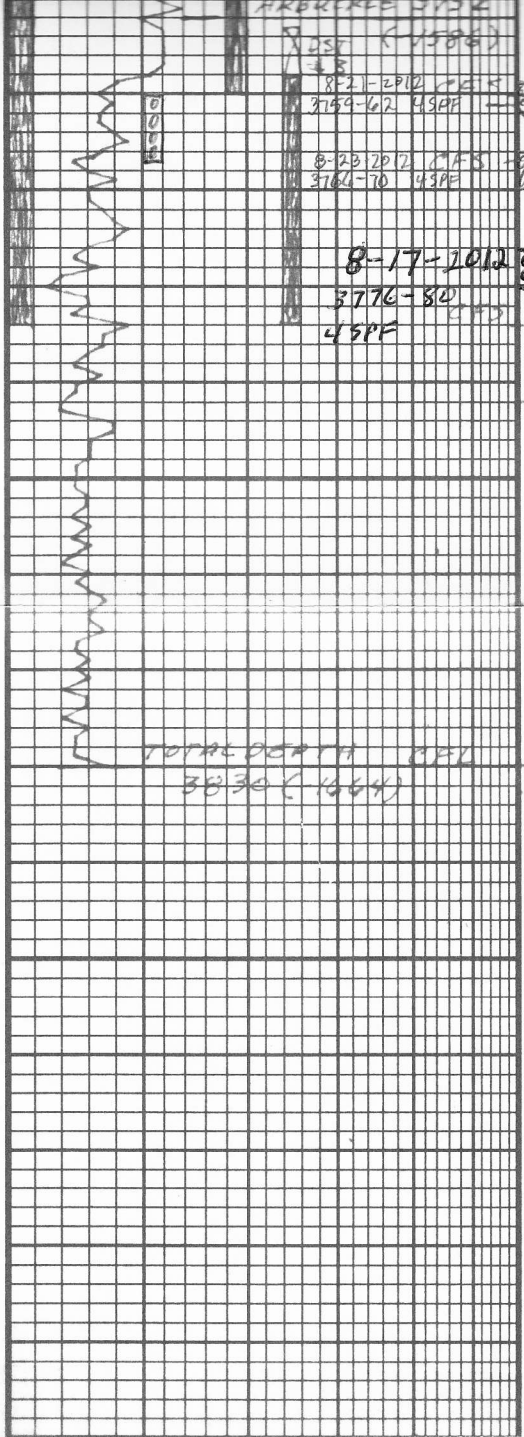
20  
 30  
 40  
 50  
 SS: clr, C grn, med sort,  
 sub rnd, fri, VSSFO,  
 sme hvy oil, Fr odor.  
 SH: lt blk, gry, Fett fiks



DST #1  
 3591 - 3600  
 30 - 45 -  
 IF: 1 1/4"  
 ISI: No 6  
 FF: No 6  
 FSI: No 6  
 SIP: 1049  
 FP: 23 -  
 RECOVERY  
 30' slight  
 cut  
 10%  
 90%

VIS 50  
 WT 9.2  
 FIL 9.6  
 CL 5000  
 pH 9.5  
 LCM Nil

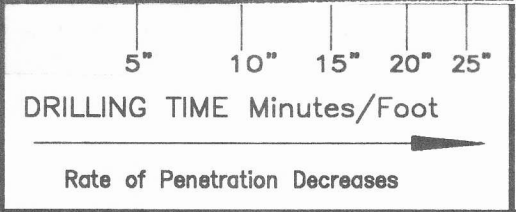




60  
 70  
 80  
 90  
 3800  
 10  
 20  
 30  
 TOTAL DEPTH 3830 (1464)

DOL: tan-lt brn, f xln, suc, inter xln @ 31; sectrd vugs, GSF, strong odor, lt even strn.  
 8-29-2012 3760-61 1/2, 45PF  
 DOL: tan-lt brn, f-med xln, suc, sme rhmbic xls, slight vuggy, GSF, strong odor, lt-ark even strn.  
 8-29-2012 3760-61 1/2, 45PF  
 DOL: tan-lt brn, f-med xln, vugip, rhmbic, inter xln-vuggy, GSF, strong odor, lt-ark even-3pt45 strn.  
 DOL: wt-lt tan, f-med xln, inter xln @, GSF, Gd odor, sectrd lt-ark strn.

FSI: No 6100  
 SIP: 401-30  
 FP: 24-23  
 RECOVERY:  
 VIS 57  
 WE 9.2  
 FIL 8.8  
 CL 8000  
 PH 9.5  
 LCM 1 1/2 #  
 DST #3  
 3758-378  
 MIS RUN  
 DST #4  
 3664-378  
 15-60-45-  
 IF: 2 1/4" 6  
 ISD: No 61  
 FF: 1/4" 61  
 FSI: No 6100  
 SIP: 1077-  
 FP: 31-46  
 RECOVERY:  
 270  
 9870  
 DST #



DEPTH

LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

CONTRACTOR INTEGRITY DRILLING  
 LEASE Romine SW IP  
 ELEVATION KB 2166 RTD 3830

LOCATION 1705' FSL & 4651' FEL  
 SEC 19 TWP 10S RNG 20  
 COUNTY ROOKS STATE KANSA.