



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1183528  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

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
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

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

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

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

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

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

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

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

Total Vertical 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

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

1183528

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

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

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Castelli Exploration, Inc.
Well Name	Whiteside Hales 2-6
Doc ID	1183528

All Electric Logs Run

DIL
MEL
PE
LAS





**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET

1718 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <i>12-27-13</i> DISTRICT <i>PRATT KS</i>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER <i>WILLIAMS-SHAW</i>		LEASE <i>WHITFIELD-WALKER 2-C</i> WELL NO.							
ADDRESS		COUNTY <i>HODGSON</i>		STATE <i>KS</i>					
CITY STATE		SERVICE CREW <i>Scott, Gary, Eric</i>							
AUTHORIZED BY		JOB TYPE: <i>COW 8 1/2" casing</i>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	LAMP	TIME
<i>1989-2092</i>	<i>11</i>						<i>12-27-13</i>	<i>PM</i>	<i>11:00</i>
<i>26959-15714</i>	<i>11</i>					ARRIVED AT JOB		<i>AM</i>	<i>5:15</i>
<i>32500</i>						START OPERATION		<i>AM</i>	<i>6:00</i>
						FINISH OPERATION		<i>AM</i>	<i>1:30</i>
						RELEASED		<i>PM</i>	<i>7:00</i>
						MILES FROM STATION TO WELL	<i>120</i>		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *[Signature]*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
<i>CP 103</i>	<i>6" pipe cement</i>	<i>SK</i>	<i>325</i>		<i>2,700.00</i>
<i>CP 102</i>	<i>cellulose</i>	<i>lb</i>	<i>57</i>		<i>57.00</i>
<i>CP 107</i>	<i>CALCIUM CHLORIDE</i>	<i>lb</i>	<i>582</i>		<i>611.40</i>
<i>CI 153</i>	<i>wooden plug</i>	<i>50'</i>	<i>1</i>		<i>16.00</i>
<i>E 100</i>	<i>putty</i>	<i>can</i>	<i>100</i>		<i>20.00</i>
<i>E 101</i>	<i>Heavy Gel</i>	<i>me</i>	<i>200</i>		<i>1,000.00</i>
<i>E 113</i>	<i>wick string</i>	<i>mm</i>	<i>970</i>		<i>1,940.00</i>
<i>E 200</i>	<i>Depth Gauge 0-500'</i>	<i>50'</i>	<i>1</i>		<i>1,200.00</i>
<i>E 201</i>	<i>Shovel</i>	<i>sh</i>	<i>325</i>		<i>162.50</i>
<i>E 202</i>	<i>Hydraulic Hose</i>	<i>50'</i>	<i>1</i>		<i>200.00</i>
<i>E 203</i>	<i>Shovel</i>	<i>sh</i>	<i>1</i>		<i>120.00</i>

SUB TOTAL *6,579.25*

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		<i>6,579.25</i>

SERVICE REPRESENTATIVE: *[Signature]* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *[Signature]*  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. \_\_\_\_\_

Customer <i>CASTELLI - Exploration</i>		Lease No.		Date <i>12-27-13</i>	
Lease <i>Whiteside Hales</i>		Well # <i>2-C</i>			
Field Order # <i>9688</i>	Station <i>PRATT KS</i>	Casing <i>8 5/8</i>	Depth <i>306'</i>	County <i>HOWARD</i>	State <i>KS</i>
Type Job <i>NEW 8 5/8 Surface</i>			Formation	Legal Description <i>C-24-22</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>8 5/8</i>				Pre Pad	Max		5 Min.	
Depth <i>306</i>	Depth	From	To	Pad	Min		10 Min.	
Volume <i>18 1/2</i>	Volume	From	To	Frac	Avg		15 Min.	
Max Press <i>300</i>	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection <i>P.C.</i>	Annulus Vol.	From	To	Flush	Gas Volume		Total Load	
Plug Depth <i>291</i>	Packer Depth	From	To					

Customer Representative			Station Manager <i>DAVE SCOTT</i>			Treater <i>Robert J. [Signature]</i>		
Service Units	<i>37900</i>	<i>19959</i>	<i>20920</i>	<i>PAT</i>	<i>ROSEN</i>			
Driver Names	<i>Sullivan</i>	<i>GRAVER</i>	<i>70957</i>	<i>19918</i>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>2:15</i>					<i>on bc soft, med</i>
					<i>run 7 JTS 8 1/2 csg.</i>
<i>5:45</i>					<i>CASIDE on Bottom</i>
<i>5:55</i>					<i>Hook Rig Circ.</i>
<i>6:00</i>			<i>3</i>	<i>3.5</i>	<i>SI SPACER</i>
			<i>48</i>	<i>4.5</i>	<i>mix cmt 275 of 60/40 per 3% cc</i>
					<i>cmt mixed (st + dux)</i>
					<i>Release Plug</i>
				<i>4</i>	<i>st Disp</i>
<i>6:30</i>			<i>18 1/2</i>		<i>plug down</i>
					<i>1 circ 12 BBC cmt Pit</i>
					<i>JOB complete</i>
					<i>Thank you</i>



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET  
1718 09697 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <u>01-07-14</u> DISTRICT <u>Pratt KS</u>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER <u>CASTELLI - EXPLORATION</u>		LEASE <u>WHITESIDE HALFS 2-6</u> WELL NO.							
ADDRESS		COUNTY <u>Hodgeman</u> STATE <u>KS</u>							
CITY STATE		SERVICE CREW <u>Sullivan, Graves, Phye</u>							
AUTHORIZED BY		JOB TYPE: <u>CPW 5 1/2 Logging</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>33702-20920</u>	<u>55</u>						<u>01-07-14</u>	PM	<u>4:00</u>
<u>70957-19918</u>	<u>55</u>					ARRIVED AT JOB		AM	<u>7:00</u>
<u>37900</u>						START OPERATION		AM	<u>12:05</u>
						FINISH OPERATION		AM	<u>1:00</u>
						RELEASED		AM	<u>1:45</u>
						MILES FROM STATION TO WELL			<u>100</u>

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: [Signature]  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 107	Screw Bond cement	SK	125		2,187.50
CP 103	60/40 P02 cement	SK	50		600.00
CC 105	C-41 Infocement	LB	27		108.00
CC 117	Friction Reducer	LB	32		192.00
CC 129	Fluic Logs	LB	32		240.00
CF 481	Part collar	SA	1		3,500.00
PF 607	Latch Down Plug & Baffle 5 1/2	SH	1		400.00
CF 1251	Anti Fil shoe	SA	1		360.00
CF 1651	Turbidizer	SA	7		770.00
CF 1501	BASKET	SA	2		580.00
C 704	CLAYMAX	ML	1		35.00
CL 151	MUD FLUIC	ML	500		430.00
E 100	packed iron	mi	100		425.00
E 101	Hydroy Equat	m	200		1,400.00
E 113	Bull Bit	mm	740		1,184.00
CE 205	North choker 4000-5000	CD	1		2,520.00
CE 240	Blending - mixing	SK	175		245.00
CE 504	Plug Contactor - Rental	SH	1		250.00
5003	Service Supervision	SH	1		175.00

SUB TOTAL 16 10,921.05

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$

TOTAL [Signature]

SERVICE REPRESENTATIVE <u>Robert [Signature]</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>[Signature]</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO. \_\_\_\_\_

Customer <b>CASTELLI - EXPLORATION</b>		Lease No.		Date	
Lease <b>WHITESIDE H/WLS</b>		Well # <b>2-6</b>		<b>01-07-14</b>	
Field Order # <b>9697</b>	Station <b>PRATT KS</b>	Casing <b>5 1/2</b>	Depth	County <b>HOOGEMAN</b>	State <b>KS</b>
Type Job <b>CNW 5 1/2 long string</b>			Formation	Legal Description <b>6-24-22</b>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
<b>5 1/2</b>				Pre Pad		Max		5 Min.
Depth <b>4745</b>	Depth	From	To	Pad		Min		10 Min.
Volume <b>112</b>	Volume	From	To	Frac		Avg		15 Min.
Max Press <b>2000</b>	Max Press	From	To			HHP Used		Annulus Pressure
Well Connection <b>P.C</b>	Annulus Vol.	From	To	Flush		Gas Volume		Total Load
Plug Depth <b>4103</b>	Packer Depth	From	To					

Customer Representative	Station Manager <b>DAVE SCOTT</b>	Treater <b>Robert J. Hill</b>
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Service Units	<b>37900</b>	<b>33708</b>	<b>20920</b>	<b>70959</b>	<b>19918</b>				
Driver Names	<b>Sullivan</b>	<b>GRANES</b>	<b>Phye</b>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>2:00 Am</b>					on loc soft, meeting
					port collar @ 1452'
					RW 5 1/2 15.5 csp. 113 STS
<b>11:15</b>					(CASING on Bottom)
<b>11:20</b>					Hook Rig circ.
<b>12:05</b>			<b>20</b>	<b>3.5</b>	St KCL 2% 4" spacer
			<b>12</b>		11" mud fluid
			<b>3</b>		SPACER
			<b>32</b>	<b>4.5</b>	mix cmt 125 sk ECONOROND cmt 13.8 ppv.
					cmt mix @ shut down wash, pump back
					Release Plug
				<b>6</b>	St Disp
					Lift PS,
				<b>3.5</b>	Slow Rate
<b>1:00</b>	<b>1450</b>		<b>111 1/2</b>		Plug down
			<b>7</b>	<b>2</b>	plug RH w/ 30
			<b>4</b>		plug mth w/ 20
					JOB complete
					Thank you





## DRILL STEM TEST REPORT

Prepared For: **Castelli Exploration Inc**

6908 NW 112th  
Oklahoma City OK 73162

ATTN: Rick Popp

### **Whiteside Hales #2-6**

### **6-24s-22w Hodgeman,KS**

Start Date: 2014.01.04 @ 20:30:00

End Date: 2014.01.05 @ 07:28:15

Job Ticket #: 55374                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.08 @ 13:51:42



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Castelli Exploration Inc  
6908 NW 112th  
Oklahoma City OK 73162  
ATTN: Rick Popp

**6-24s-22w Hodgeman,KS**  
**Whiteside Hales #2-6**  
Job Ticket: 55374 **DST#: 1**  
Test Start: 2014.01.04 @ 20:30:00

## GENERAL INFORMATION:

Formation: **Mississippi**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 02:47:45  
Time Test Ended: 07:28:15  
Interval: **4595.00 ft (KB) To 4617.00 ft (KB) (TVD)**  
Total Depth: 4617.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Cody Bloedorn  
Unit No: 73  
Reference Elevations: 2276.00 ft (KB)  
2268.00 ft (CF)  
KB to GR/CF: 8.00 ft

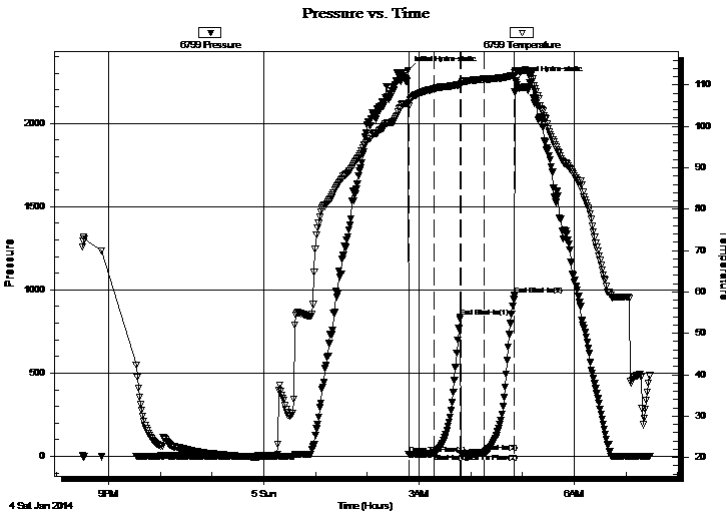
## Serial #: 6799

Inside

Press@RunDepth: 22.49 psig @ 4596.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.01.04 End Date: 2014.01.05 Last Calib.: 2014.01.05  
Start Time: 20:30:05 End Time: 07:28:15 Time On Btm: 2014.01.05 @ 02:47:30  
Time Off Btm: 2014.01.05 @ 04:51:45

TEST COMMENT: 30 - IF- 4 1/2" blow  
30 - IS- No return  
30 - FF- 1 1/4" blow  
30 - FS- No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2316.88	105.58	Initial Hydro-static
1	13.01	104.86	Open To Flow (1)
30	16.63	109.11	Shut-In(1)
61	835.88	110.12	End Shut-In(1)
62	16.04	110.37	Open To Flow (2)
89	22.49	111.41	Shut-In(2)
124	969.38	112.34	End Shut-In(2)
125	2256.14	113.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	HOCM, 50%M, 50%O	0.63
5.00	Free oil, 100%O	0.07

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Castelli Exploration Inc  
6908 NW 112th  
Oklahoma City OK 73162  
ATTN: Rick Popp

**6-24s-22w Hodgeman,KS**  
**Whiteside Hales #2-6**  
Job Ticket: 55374 **DST#: 1**  
Test Start: 2014.01.04 @ 20:30:00

## Tool Information

Drill Pipe:	Length: 4598.00 ft	Diameter: 3.80 inches	Volume: 64.50 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 64.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4595.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	51.00 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			4567.00	
Shut In Tool	5.00			4572.00	
Hydraulic tool	5.00			4577.00	
Jars	5.00			4582.00	
Safety Joint	3.00			4585.00	
Packer	5.00			4590.00	29.00 Bottom Of Top Packer
Packer	5.00			4595.00	
Stubb	1.00			4596.00	
Recorder	0.00	6799	Inside	4596.00	
Recorder	0.00	8648	Outside	4596.00	
Perforations	18.00			4614.00	
Bullnose	3.00			4617.00	22.00 Bottom Packers & Anchor

**Total Tool Length: 51.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Castelli Exploration Inc  
6908 NW 112th  
Oklahoma City OK 73162  
ATTN: Rick Popp

**6-24s-22w Hodgeman,KS**  
**Whiteside Hales #2-6**  
Job Ticket: 55374      **DST#: 1**  
Test Start: 2014.01.04 @ 20:30:00

## 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: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7500.00 ppm			
Filter Cake: inches			

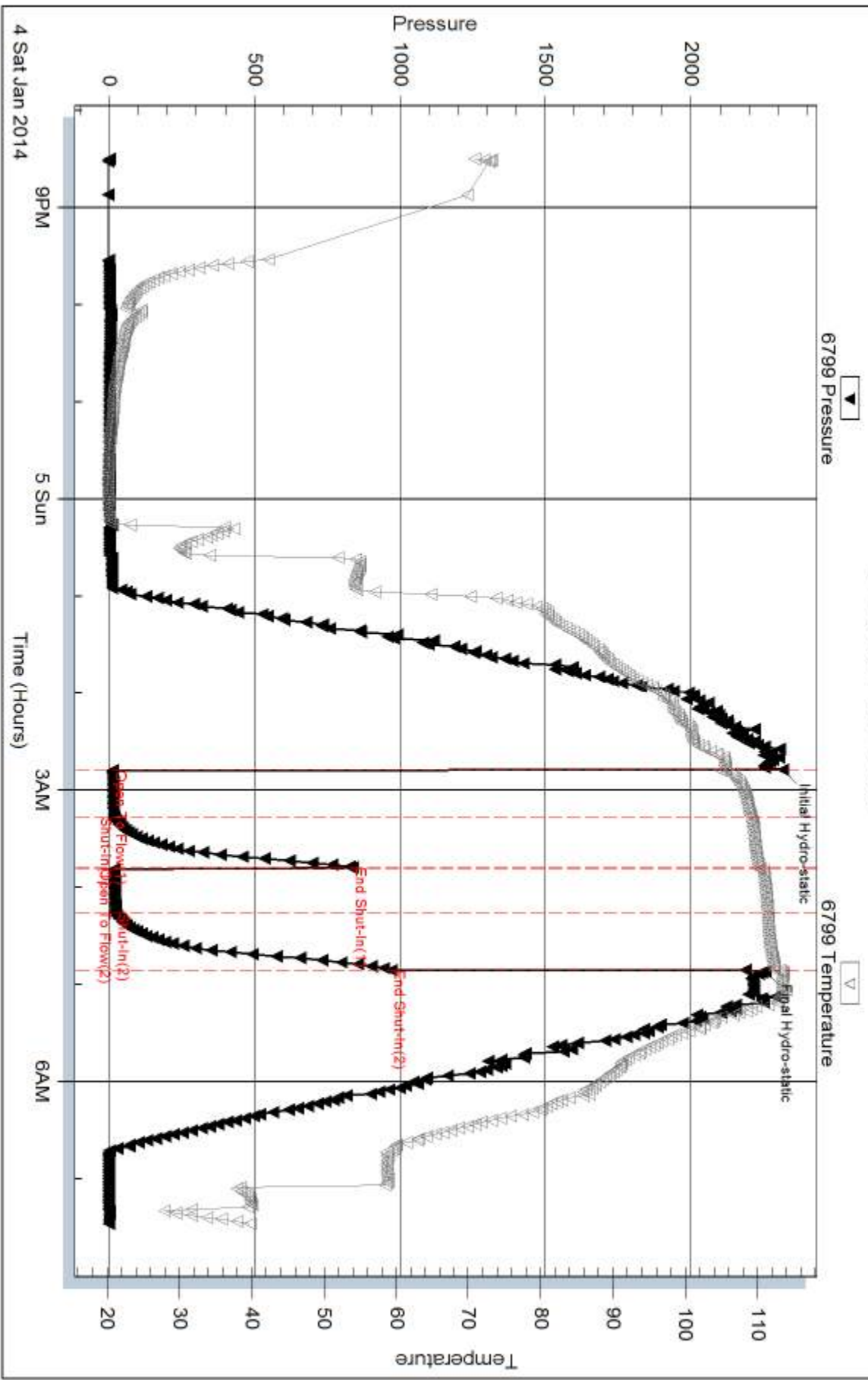
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	HOCM, 50%M, 50%O	0.631
5.00	Free oil, 100%O	0.070

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

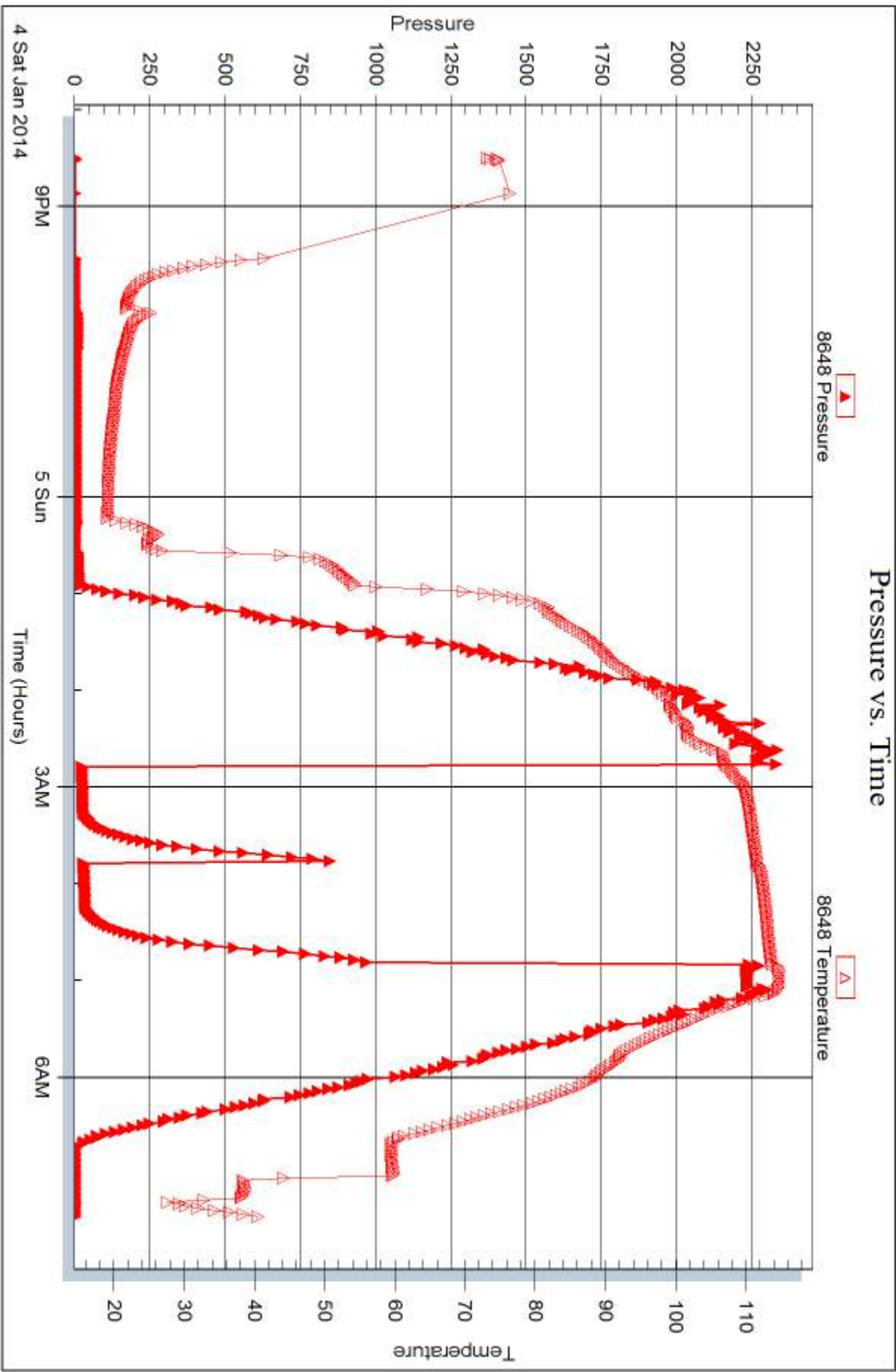


Serial #: 8648

Outside Castell Exploration Inc

Whiteside Hales #2-6

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 55374

Printed: 2014.01.08 @ 13:51:45



## DRILL STEM TEST REPORT

Prepared For: **Castelli Exploration Inc**

6908 NW 112th  
Oklahoma City OK 73162

ATTN: Rick Popp

### **Whiteside Hales #2-6**

#### **6-24s-22w Hodgeman,KS**

Start Date: 2014.01.05 @ 16:44:00

End Date: 2014.01.06 @ 03:14:15

Job Ticket #: 55375                      DST #: 2

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

Printed: 2014.01.08 @ 13:51:14





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Castelli Exploration Inc  
6908 NW 112th  
Oklahoma City OK 73162  
ATTN: Rick Popp

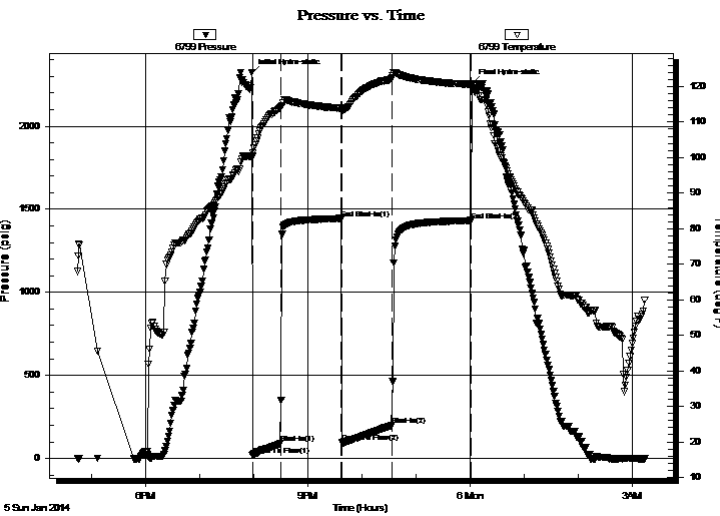
**6-24s-22w Hodgeman,KS**  
**Whiteside Hales #2-6**  
Job Ticket: 55375 **DST#: 2**  
Test Start: 2014.01.05 @ 16:44:00

## GENERAL INFORMATION:

Formation: **Mississippi**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 19:58:15  
Time Test Ended: 03:14:15  
Interval: **4595.00 ft (KB) To 4630.00 ft (KB) (TVD)**  
Total Depth: 4630.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 2276.00 ft (KB)  
2268.00 ft (CF)  
KB to GR/CF: 8.00 ft  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Cody Bloedorn  
Unit No: 73

**Serial #: 6799 Inside**  
Press@RunDepth: 197.84 psig @ 4596.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.01.05 End Date: 2014.01.06 Last Calib.: 2014.01.06  
Start Time: 16:44:05 End Time: 03:14:15 Time On Btm: 2014.01.05 @ 19:57:45  
Time Off Btm: 2014.01.06 @ 00:02:30

TEST COMMENT: 30 - IF- 9" blow  
60 - IS- Surface return  
60 - FF- B.O.B. in 43 minutes  
90 - FS- 1/2" return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2318.95	100.36	Initial Hydro-static
1	20.45	100.39	Open To Flow (1)
32	88.98	114.04	Shut-In(1)
100	1444.01	113.93	End Shut-In(1)
100	97.26	113.39	Open To Flow (2)
156	197.84	122.44	Shut-In(2)
244	1432.34	120.53	End Shut-In(2)
245	2256.37	120.75	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
248.00	MW, 50%M, 50%W	3.48
186.00	OCMW, 20%O, 40%W, 40%M	2.61
15.00	HOCM, 30%O, 70%M	0.21
30.00	Free oil	0.42

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Castelli Exploration Inc  
6908 NW 112th  
Oklahoma City OK 73162  
ATTN: Rick Popp

**6-24s-22w Hodgeman,KS**  
**Whiteside Hales #2-6**  
Job Ticket: 55375 **DST#: 2**  
Test Start: 2014.01.05 @ 16:44:00

## Tool Information

Drill Pipe:	Length: 4598.00 ft	Diameter: 3.80 inches	Volume: 64.50 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 64.50 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4595.00 ft			Final	71000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	35.00 ft				
Tool Length:	64.00 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			4567.00	
Shut In Tool	5.00			4572.00	
Hydraulic tool	5.00			4577.00	
Jars	5.00			4582.00	
Safety Joint	3.00			4585.00	
Packer	5.00			4590.00	29.00 Bottom Of Top Packer
Packer	5.00			4595.00	
Stubb	1.00			4596.00	
Recorder	0.00	6799	Inside	4596.00	
Recorder	0.00	8648	Outside	4596.00	
Perforations	31.00			4627.00	
Bullnose	3.00			4630.00	35.00 Bottom Packers & Anchor

**Total Tool Length: 64.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Castelli Exploration Inc  
6908 NW 112th  
Oklahoma City OK 73162  
ATTN: Rick Popp

**6-24s-22w Hodgeman,KS**  
**Whiteside Hales #2-6**  
Job Ticket: 55375      **DST#: 2**  
Test Start: 2014.01.05 @ 16:44:00

## Mud and Cushion Information

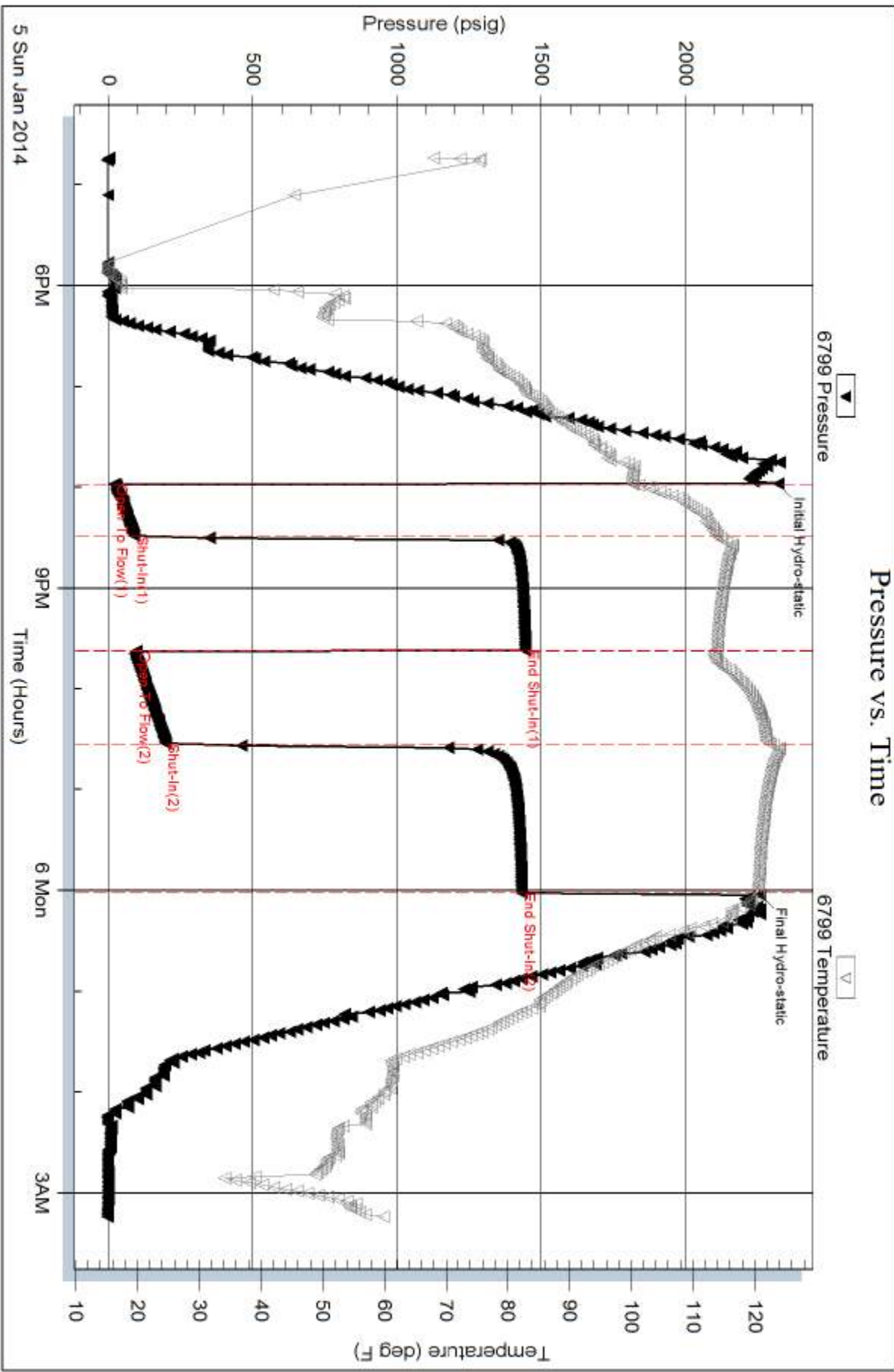
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 63.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7900.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	MW, 50%M, 50%W	3.479
186.00	OCMW, 20%O, 40%W, 40%M	2.609
15.00	HOCM, 30%O, 70%M	0.210
30.00	Free oil	0.421

Total Length: 479.00 ft      Total Volume: 6.719 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



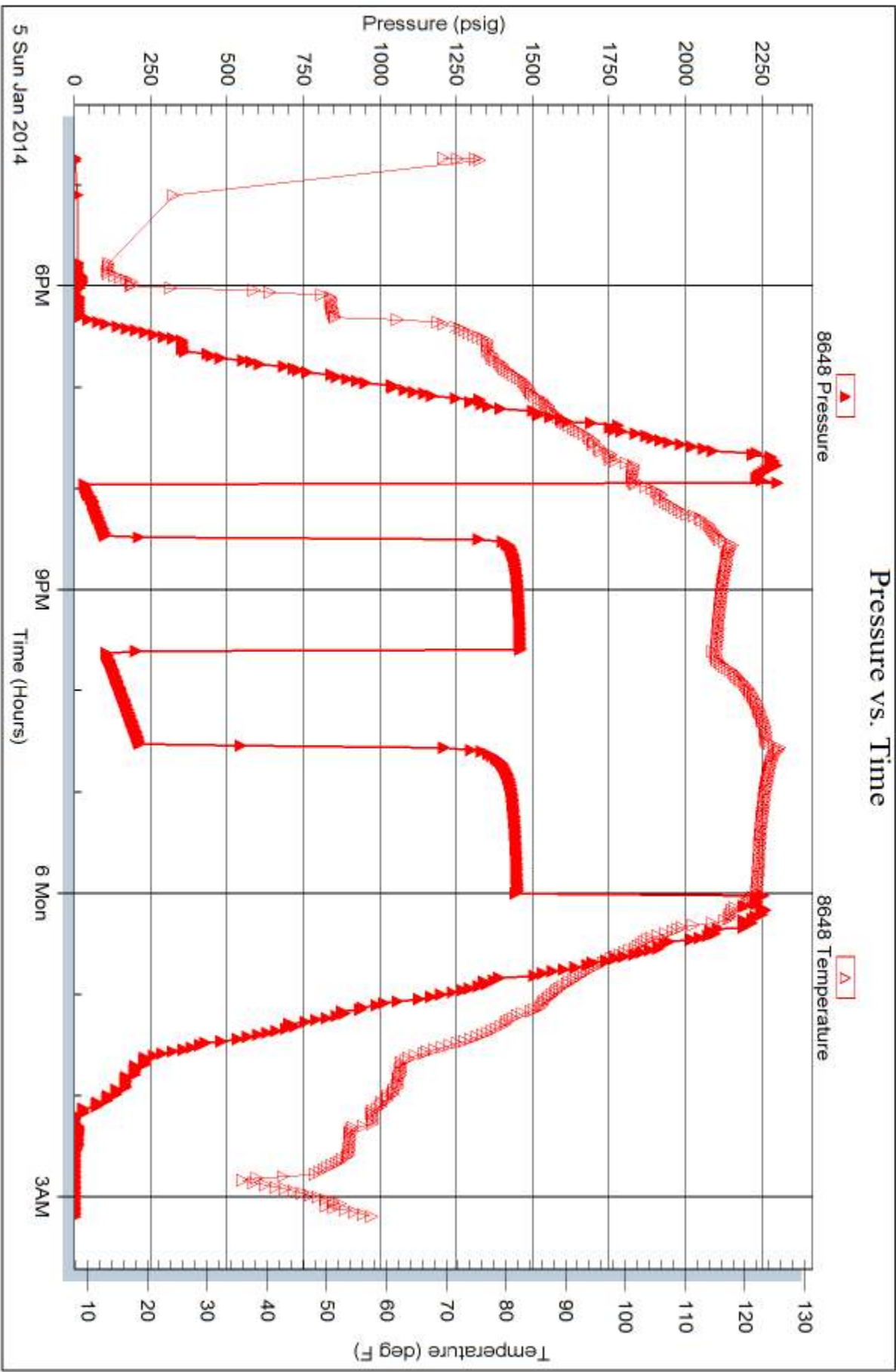
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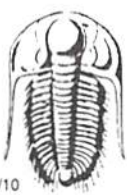
Outside

Castell Exploration Inc

Whiteside Hales #2-6

DST Test Number: 2





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **55374**

4/10

Well Name & No. Whiteside Hales 2-6 Test No. 1 Date 1-4-14  
 Company Castelli Exploration INC Elevation 2276 KB 2268 GL  
 Address 6908 NW 112th, Oklahoma City OK, 73162  
 Co. Rep / Geo. Rick Pope Rig Duke #2  
 Location: Sec. 6 Twp. 24S Rge. 22W Co. Hodgeman State KS

Interval Tested 4595 - 4617 Zone Tested Mississippi  
 Anchor Length 22' Drill Pipe Run 4598' Mud Wt. 9.4  
 Top Packer Depth 4590 Drill Collars Run - Vis 46  
 Bottom Packer Depth 4595 Wt. Pipe Run - WL 9.2  
 Total Depth 4617 Chlorides 7,500 ppm System LCM -

Blow Description IF- 4 1/2" blow  
ISI- No return  
FF- 1 1/4" blow  
FSI- No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>HOCM</u>	<u>50</u>	<u>50</u>	<u>50</u>	<u>50</u>
<u>5</u>	<u>Free oil</u>	<u>100</u>	<u>100</u>		

Rec Total 50' BHT 112° Gravity - API RW - @ - °F Chlorides - ppm

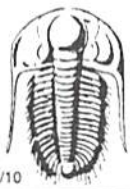
(A) Initial Hydrostatic 2316  Test 1250 T-On Location 1949  
 (B) First Initial Flow 13  Jars 250 T-Started 2030 8:30pm  
 (C) First Final Flow 16  Safety Joint 75 T-Open 0248  
 (D) Initial Shut-In 835  Circ Sub \_\_\_\_\_ T-Pulled 0448  
 (E) Second Initial Flow 16  Hourly Standby 1h 100 T-Out 0723  
 (F) Second Final Flow 22  Mileage 173RT 268.15 Comments \_\_\_\_\_  
 (G) Final Shut-In 969  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2256  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 30  Day Standby \_\_\_\_\_ Total 1943.15  
 Final Shut-In 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1943.15

Approved By \_\_\_\_\_ Our Representative Cody Bleh

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.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **55375**

Well Name & No. Whiteside Hales 2-6 Test No. 2 Date 1-5-14  
 Company Castelli Exploration Inc Elevation 2276 KB 2268 GL  
 Address 6908 NW 112th, Oklahoma City, OK 73162  
 Co. Rep / Geo. Rick Pope Rig Duke #2  
 Location: Sec. 6 Twp. 24s Rge. 22w Co. Hodgeman State KS

Interval Tested 4595 - 4630 Zone Tested Mississippi  
 Anchor Length 35' Drill Pipe Run 4598 Mud Wt. 9.4  
 Top Packer Depth 4590 Drill Collars Run — Vis 63  
 Bottom Packer Depth 4595 Wt. Pipe Run — WL 8.8  
 Total Depth 4630 Chlorides 7,900 ppm System LCM —

Blow Description ±F - 9" blow  
ISI - Surface return  
FF - B.O.B. in 43 minutes  
FSI - 1/2" return

Rec	Feet of	%gas	%oil	%water	%mud
<del>300</del>	<del>—</del>				
248	MW			50	50
186	OCMW	20	40	40	
15	HO CM	30		70	
30	Free oil	100			

Rec Total 479' BHT 120° Gravity — API RW .3 @ 50° F Chlorides 32,000 ppm

(A) Initial Hydrostatic 2318  Test 1250 T-On Location 1551  
 (B) First Initial Flow 20  Jars 250 T-Started 1644 4:44pm  
 (C) First Final Flow 88  Safety Joint 75 T-Open 2000  
 (D) Initial Shut-In 1444  Circ Sub — T-Pulled 0000  
 (E) Second Initial Flow 97  Hourly Standby — T-Out 0307  
 (F) Second Final Flow 197  Mileage 173RT 268.15  
 (G) Final Shut-In 1432  Sampler —  
 (H) Final Hydrostatic 2256  Straddle —

Ruined Shale Packer —  
 Ruined Packer —  
 Extra Packer —  
 Extra Copies —  
 Initial Open 30  Extra Recorder — Sub Total 0  
 Initial Shut-In 60  Day Standby — Total 1843.15  
 Final Flow 60  Accessibility — MP/DST Disc't —  
 Final Shut-In 90 Sub Total 1843.15

Approved By — Our Representative Cody B...

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.