



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1182912  
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: \_\_\_\_\_

1182912

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Phone 785-483-2025  
Cell 785-324-1041

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

No. 4917

Date	Sec	Twp.	Range	County	State	On Location	Finish
5-19-11	3	15	10	Ellsworth	Ks		17:00 AM
Lease	Well No.		Location				
Ziglanek	31-1		Wilson Ks - 3 to RAN, 1E, 1N,				
Contractor	Rig #		Owner				
Royal William	2		W + N to Rd				
Type Job	T.D.		To Quality Oilwell Cementing, Inc.				
Surf	234'		You are hereby requested to rent cementing equipment and furnish				
Hole Size	Depth		cementor and helper to assist owner or contractor to do work as listed.				
8 1/2"	233'		Charges To				
Csg	Depth		Bennett & Shultz Oil				
Tbg. Size	Depth		Street				
Ton	Depth		City				
Cement Left in Csg	Shoe Joint		State				
15'	15'		The above was done to satisfaction and supervision of owner agent or contractor				
Mess Line	Displace		Cement Amount Ordered				
	13 3/4 Bbl		150 Common 3% CC				

EQUIPMENT			
Pumptrk	No.	Operator	2% Gel
1		Cliff	Common
Bulktrk	No.	Driver	Poz. Mix
8		Ricky	Gel
Bulktrk	No.	Driver	Calum
2		Rick	Huls

JOB SERVICES & REMARKS	
Remarks:	Cement did Circulate
Rat Hole	Bat
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
CVL or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handing
	Mileage

FLOAT EQUIPMENT	
	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge
	Mileage

Signature	Tax
Doug Budig	Discount
	Total Charge

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

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

No. 5018

Date	5/23/11	Sec.	31	Twp.	15	Range	10	County	Ellsworth	State	KS	On Location		Finish	11:00 PM
Lease	ZVOLANEK		Well No.	31-1		Location Wilcox, Stone Rd, 1E, 1W, W+N into									
Contractor	Royal Drilling Rig #2										Owner				
Type Job	Production String										To Quality Drilling 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	7 7/8		TD		3300'		Charges To								
Csg.	5/8 11#		Depth		3300'		Benetto-Smully Oil Co.								
Tbg. Size											Street				
Tool	Port Collar										City				
Depth	601'										State				
Demant Left in Csg.	19.75'		Shoe Joint		19.75'		The above was done to satisfaction and supervision of owner agent or contractor								
Mass Line			Displace		30 Bbls.		Cement Amount Ordered 2255x Can 10% Salt 5% Gibrite								

EQUIPMENT

Pumptrk	9	No.		Cementar	Port		Common
Buldrk	2	No.		Driver	Brandon		Poz. Mix
Buldrk	PU	No.		Driver	Rocky		Gal.

JOB SERVICES & REMARKS

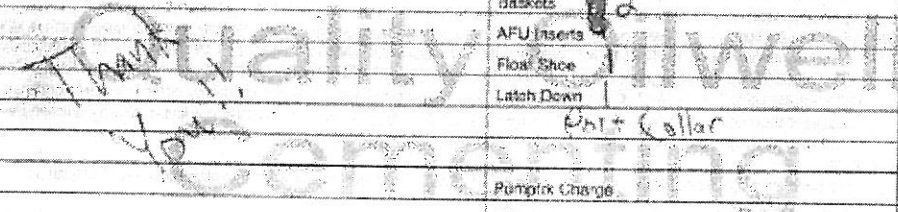
Remarks:		Calcium
Rat Hole	30'x	Hulls
Mouse Hole	<del>20'x</del> 20'x	Salt
Centralizers	1, 2, 3, 6, 3	Flowseal
Baskets	1, 6, 4	Kol-Seal
D/V or Port Collar	601'	Mud CLR 48
Pump	500 gal Mud Clear 48	300 gal
Mix	170' down 5/8"	CFL-117 or CD110 CAF 38
Displace		Sand
Last King		Handling
Float Valve		Mileage

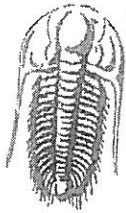
FLOAT EQUIPMENT

Guide Shoe	
Centralizer	4
Baskets	12
AFU Inserts	
Float Shoe	
Latch Down	

Port Collar	
Pumptrk Charge	
Mileage	
Tax	
Discount	
Total Charge	

Signature: *[Handwritten Signature]*





TRILOBITE  
TESTING, INC.

### DRILL STEM TEST REPORT

Prepared For: Bennett & Shulte Oil Company

140 W. Wichita Avenue  
Russell, KS 67665

ATTN: Frank Shulte

31-15-10Ellsworth,KS

Zvolanek 31-1

Start Date: 2011.05.23 @ 10:55:07

End Date: 2011.05.23 @ 15:54:37

Job Ticket #: 42393                      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Bennett & Shulte Oil Company

Zvolanek 31-1

31-15-10Ellsworth,KS

DST # 1

Arbuckle

2011.05.23



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

TOOL DIAGRAM

Bennett & Shulte Oil Company

Zvolanek 31-1

140 W. Wichita Avenue  
Russell, KS 67665

31-15-10Ellsworth, KS

Job Ticket: 42393

DST#: 1

ATTN: Frank Shulte

Test Start: 2011.05.23 @ 10:55:07

**Tool Information**

Drill Pipe:	Length: 3233.00 ft	Diameter: 3.80 inches	Volume: 45.35 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
			<b>Total Volume: 45.35 bbl</b>	Tool Chased:	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial:	50000.00 lb
Depth to Top Packer:	3255.00 ft			Final:	53000.00 lb
Depth to Bottom Packer:	3261.00 ft				
Interval between Packers:	6.00 ft				
Tool Length:	73.00 ft				
Number of Packers:	3	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3228.00	
Shut In Tool	5.00			3233.00	
Hydraulic tool	5.00			3238.00	
Jars	5.00			3243.00	
Safety Joint	2.00			3245.00	
Packer	5.00			3250.00	28.00 Bottom Of Top Packer
Packer	5.00			3255.00	
Stub	1.00			3256.00	
Perforations	1.00			3257.00	
Recorder	0.00	8673	Inside	3257.00	
Recorder	0.00	6668	Outside	3257.00	
Blank Off Sub	1.00			3258.00	
Blank Spacing	3.00			3261.00	6.00 Tool Interval
Packer	1.00			3262.00	
Recorder	0.00	6755	Below	3262.00	
Change Over Sub	1.00			3263.00	
Blank Spacing	31.00			3294.00	
Change Over Sub	1.00			3295.00	
Perforations	2.00			3297.00	
Anchor	3.00			3300.00	39.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>73.00</b>				



**TRILOBITE  
TESTING, INC**

### DRILL STEM TEST REPORT

FLUID SUMMARY

Bennett & Shulte Oil Company

Zvolanek 31-1

140 W Wichita Avenue  
Russell, KS 67665

31-15-10 Ellsworth, KS

Job Ticket: 42393

DST#: 1

ATTN: Frank Shulte

Test Start: 2011.05.23 @ 10:55:07

#### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 8.79 in<sup>3</sup>

Resistivity: ohmm

Salinity: 4000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbbl

psig

Oil AF:

Water Salinity:

36 deg AF

16000 ppm

#### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
780.00	M/W/Oil Scum	10.941
180.00	OCMV-20%O-75%V-5%M	2.525
135.00	Free Oil	1.894

Total Length: 1095.00 ft      Total Volume: 15.360 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



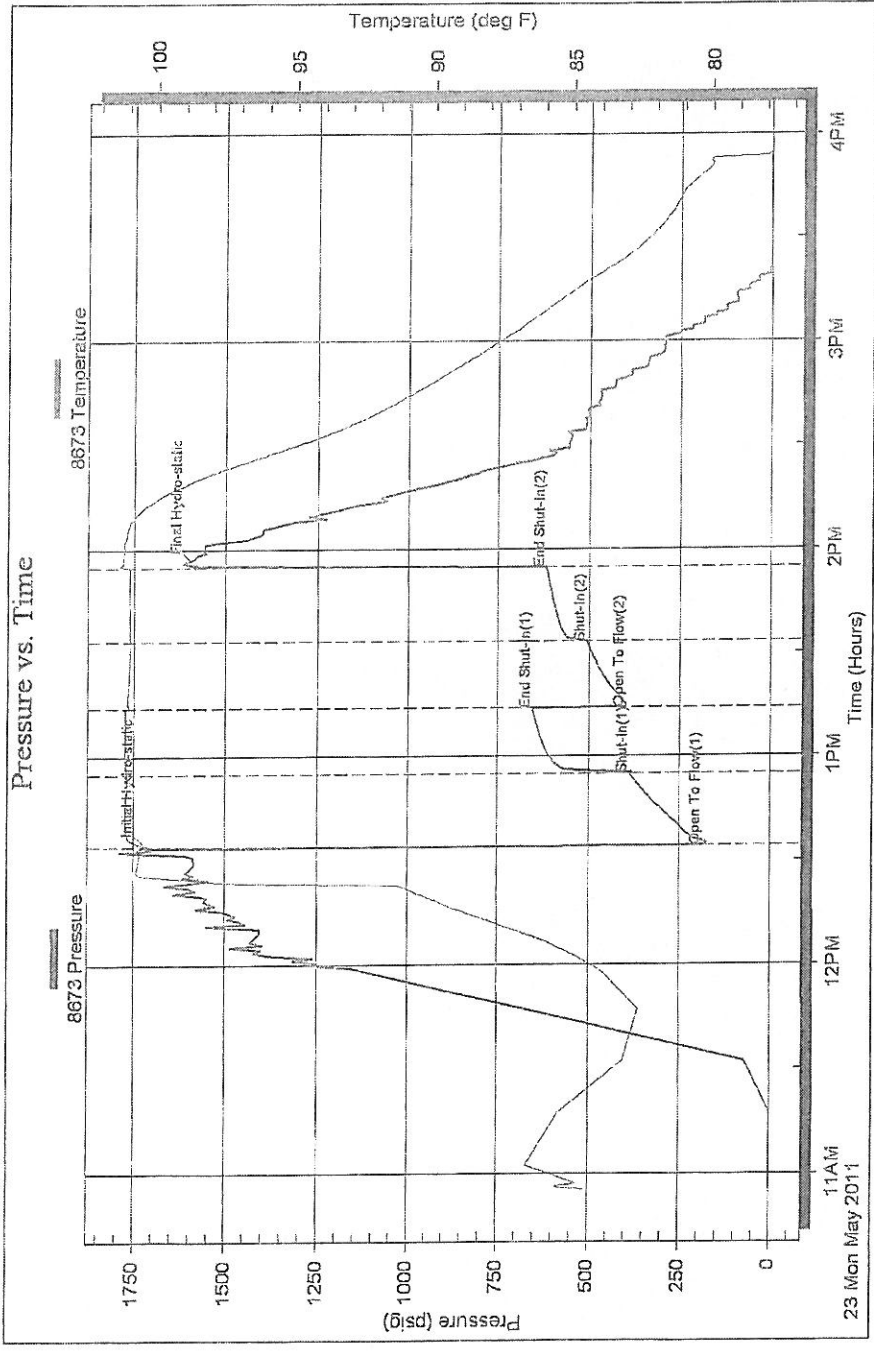
Serial #: 8673

Inside

Bennett & Shulte Oil Company

31-15-10Elsworth,KS

CST Test Number: 1





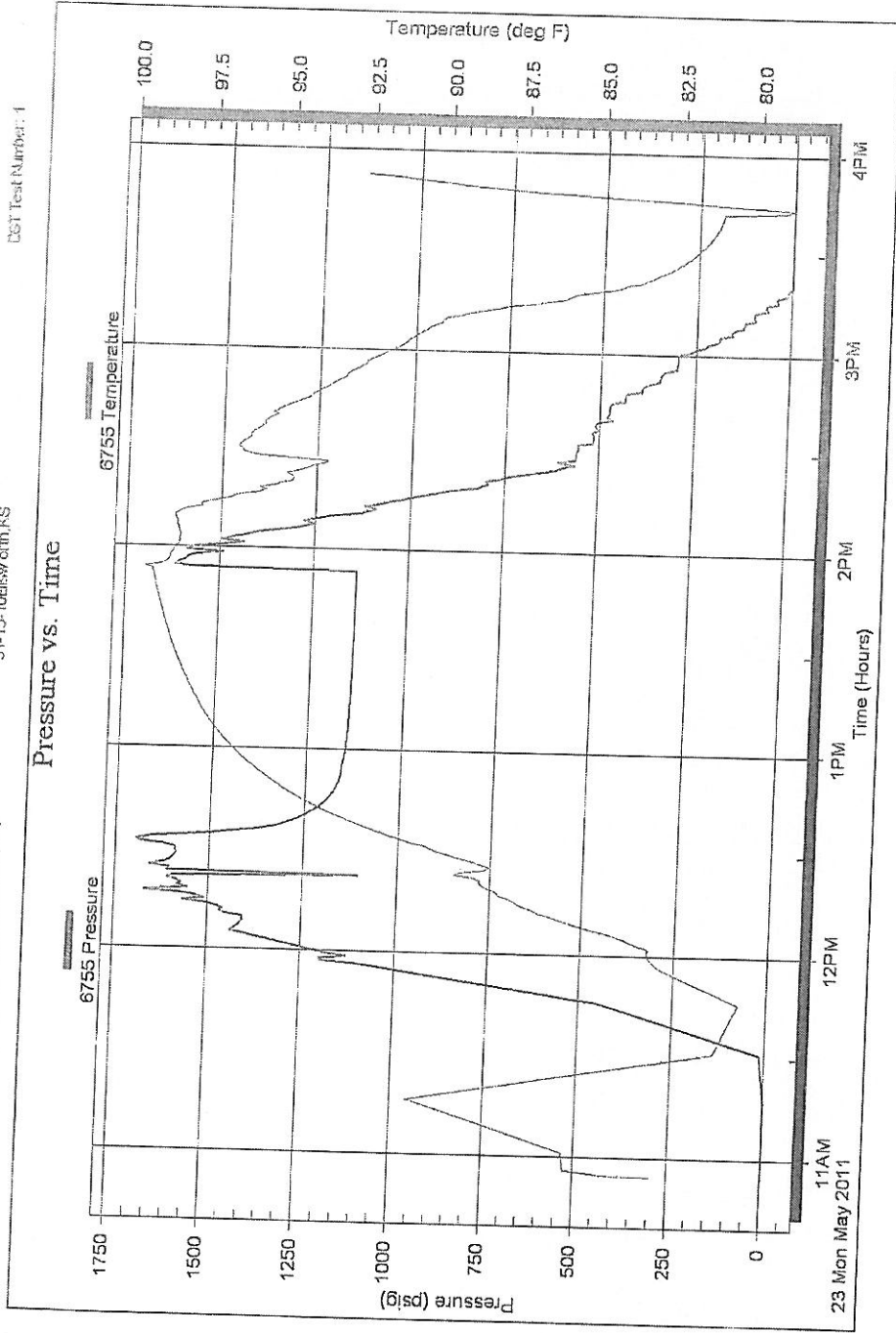
Serial #: 6755

Eslow (Stratbight & Shutte Oil Company

31-15-10B15w orth KS

DOT Test Number: 1

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 42393





**TENOLOBITE  
TESTING, INC.**

### DRILL STEM TEST REPORT

Bennett & Shulte Oil Company  
140 W Wichita Avenue  
Russell, KS 67665  
ATTN: Frank Shulte

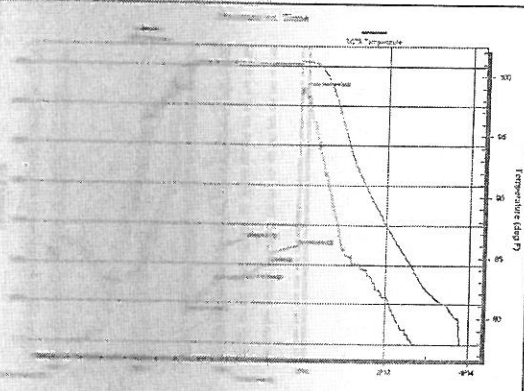
Well Name: [Blank]  
Well No: [Blank]  
Well Type: [Blank]  
Well Status: [Blank]

**GENERAL INFORMATION:**

Location: [Blank]  
Well: [Blank] Whipstock: [Blank] ft (KB)  
Well Depth: [Blank] ft  
Well Type: [Blank]  
Well Status: [Blank]  
Interval: [Blank] To 3261.00 ft (KB) (TVD)  
Total Depth: 3261.00 ft (KB) (TVD)  
Well Condition: 7.50 inches Hole Condition: Good  
Well Type: [Blank] 1750.00 ft (KB)  
Well Status: [Blank] 1750.00 ft (CF)  
Well Depth: [Blank] 7.00 ft

Section No: [Blank] Inside  
Pressure: 605.89 psig @ 3257.00 ft (KB)  
Start Date: 2011.05.23 End Date: 2011.05.23  
Start Time: 10:55:09 End Time: 15:54:37  
Capacity: 3000.00 psig  
Leak Date: 2011.05.23  
Time On Site: 2011.05.23 @ 12:59:37  
Time Off Site: 2011.05.23 @ 14:55:07

Test Results: [Blank] Strong BOB in 1-1/2 Min.  
[Blank] [Blank]  
[Blank] Strong BOB in 2-1/2 Min.  
[Blank] [Blank]



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Remarks
0	1711.52	100.50	Start Pressure - static
1	187.31	100.10	Open To Flow (1)
22	387.47	100.20	Shut-in (1)
41	654.22	101.10	End Shut-in (1)
41	396.60	100.80	Open To Flow (2)
60	505.89	100.50	Shut-in (2)
81	616.91	100.90	End Shut-in (2)
82	1582.14	101.20	Final Pressure - static

Pressure	Volume (bbt)
1711.52	10.94
187.31	2.52
1582.14	1.89

Gas Rates		
Time (Min)	Pressure (psig)	Gas Rate (Mcf/d)