

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Recompletion Date \_\_\_\_\_ Date Reached TD \_\_\_\_\_ Completion Date or Recompletion Date \_\_\_\_\_

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

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>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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JOB LOG

SWIFT Services, Inc.

DATE 1 MAR 17 PAGE NO.

CUSTOMER DK OPERATING WELL NO. LEASE ACE 1-14 JOB TYPE CEMENT 8 5/8 TICKET NO. 30215

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0130							ON LOCATION
								RIDE 225 SET @ 222 8 5/8 - 32#
	0400							CIRCULATE.
	0400	4	37		✓			MIX 150sx STD 3% CC, 2% GEL
		3	12 1/2		✓			DISPLACE CEMENT
	0420				✓		200	SHUT WELL IN
								CIRCULATE CEMENT TO SURFACE
	0425							WASH TRUCK
	0445							JOB COMPLETE
								THANKS #115
								JASON DAVE JOHN

JOB LOG

SWIFT Services, Inc.

DATE 15 MAR 17 PAGE NO. 1

CUSTOMER DK Operating WELL NO. #1 LEASE Ace JOB TYRE cement part collar TICKET NO. 38166

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175sk SMD cement w/ 1/4" floccle 2 7/8 x 5 1/2 part collar @ 1476'
	1230							on loc TRK 114
	1306					1000	1000	test to 1000 psi - held open part collar
	1314	3 1/2	2			350		inj rate 3 1/2 @ 350
	1318	3 1/2				250		mix SMD cement @ 11.2 ppg - circ fluid to surface - → cement to surface ← Displace w/ 1/2 D close part collar
		3 1/2	3			200		
		3 1/2	72			350		
			7 1/2					135sk mixed 15 top ft
	1343					1000	1000	test to 1000 psi - held
	1347							Run 5 joints
	1359		16					Reverse hole clean - 2 cement plugs wash truck Rack up job complete Thank Blain, Flint, & ISAAC

CUSTOMER D.K. Operating WELL NO. # 1-14 LEASE Acc JOB TYPE Cement 5 1/2" Longstring TICKET NO. 29889

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0615							on location 5 1/2" 17"
								RTD - 4361' LTD - N/A
								TP - 4364' SJ - #1 39.32
								P.C. - #70 1476 out #18, #107
								Centralizers - #1 #2 #3 #4 #71
								Baskets - #69 #70
	0645							Start 5 1/2" 17" casing in well
	0900							Drop Ball Circulate
	1000	6 1/2	12		✓	300		Pump 500 gal Mud Flush
		6 1/2	20		✓	300		Pump 20 bbl KCL Flush
			7- <del>0</del>					Plug RH - <del>1000</del> (30- <del>1000</del> )
	1015	4 1/2	<del>35</del> 35		✓	200		mix <sup>145</sup> <del>145</del> sks EA-2 @ 15.5 ppg
								Wash out Pump + Lines
								Release Latch Down Plug
	1030	6 1/2	0		✓	200		Start Displacement
		6 1/2	80		✓	400		Lift Pressure
		6 1/2	99		✓	800		Max lift Pressure
	1045	6 1/2	100		✓	1500		Land Latch Down Plug
								Release Pressure * Plug Hold *
								Wash up trucks
	1115							Job Complete

Thank You  
Dane Jason Isaac

## General Data

Well Data: DK Operating, Inc.  
Ace #1-14  
2485' FSL & 335' FEL  
Sec. 14 T20s R23w  
Ness County, Kansas  
API # 15-135-25940-0000

Drilling Contractor: Pickrell Drilling Rig #10

Geologist: Jason T Alm

Spud Date: February 28, 2017

Completion Date: March 8, 2017

Elevation: 2244' Ground Level  
2251' Kelly Bushing

Directions: Bazine KS, South 6 mi. to 70 Rd. West 7 mi. to W  
Rd. South 3 ½ mi. West into location.

Casing: 222' 8 5/8" surface casing  
4360' 5 1/2" production casing

Samples: 10' wet and dry, 3900' to RTD

Drilling Time: 3500' to RTD

Electric Logs: None

Drillstem Tests: One, Trilobite Testing, Inc. "Spencer Staab"

Problems: None

Remarks: None

## Formation Tops

	<b>DK Operating, Inc.</b>
	Ace #1-14
	Sec. 14 T20s R23w
	2485' FSL & 335' FEL
<b>Formation</b>	
Anhydrite	<b>1450' +801</b>
Base	<b>1487' +764</b>
Heebner	<b>3684' -1433</b>
Lansing	<b>3733' -1482</b>
BKC	<b>4054' -1803</b>
Pawnee	<b>4178' -1927</b>
Fort Scott	<b>4246' -1995</b>
Cherokee	<b>4269' -2018</b>
Mississippian	<b>4330' -2079</b>
Osage	<b>4346' -2095</b>
RTD	<b>4361' -2110</b>

## Sample Zone Descriptions

### **Fort Scott**

**(4246', -1995): Not Tested**

Ls – Fine crystalline with poor to fair inter-crystalline and inter-fossil porosity, light to fair oil stain and saturation, slight show of free oil when broken, light odor, fair yellow fluorescents.

### **Mississippian Osage (4346', -2095): Covered in DST #1**

Δ – Dolo – Weathered in part with scattered good vuggy porosity, heavy fine crystalline dolomite with fair inter-crystalline and vuggy porosity mottled with chert. Fair oil stain and saturation, fair show of free oil, good odor, good yellow fluorescents.



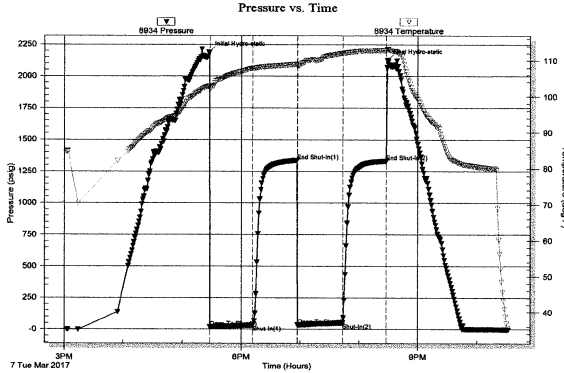
## Drill Stem Tests

Trilobite Testing, Inc.  
"Spencer Staab"

### DST #1      Mississippian Osage

Interval (4288' – 4357') Anchor Length 69'

IHP	– 2187 #	
IFP	– 45" – Built to 3 ¾ in.	18-33 #
ISI	– 45" – Dead	1336 #
FFP	– 45" – Built to 2 in.	34-51 #
FSI	– 45" – Dead	1330 #
FHP	– 2125 #	
BHT	– 113°F	



Recovery:      10' Clean Oil  
                   70' OCM      35% Oil

## Structural Comparison

	DK Operating, Inc. Ace #1-14 Sec. 14 T20s R23w 2485' FSL & 335' FEL	Pickrell Drilling Co. Strait #1 Sec. 14 T20s R23w 2310' FNL & 660' FEL		High Plains Petroleum Maranville B #2 Sec. 13 T20s R23w C NW SW
<b>Formation</b>				
Anhydrite	1450' +801	1450' +804	<b>(-3)</b>	NA
Base	1487' +764	NA	<b>NA</b>	NA
Heebner	3684' -1433	3690' -1436	<b>(+3)</b>	3675' -1441
Lansing	3733' -1482	3737' -1483	<b>(+1)</b>	3725' -1491
BKC	4054' -1803	4056' -1802	<b>(-1)</b>	NA
Pawnee	4178' -1927	4180' -1926	<b>(-1)</b>	NA
Fort Scott	4246' -1995	4252' -1998	<b>(+3)</b>	4239' -2005
Cherokee	4269' -2018	4276' -2022	<b>(+4)</b>	NA
Mississippian	4330' -2079	4342' -2088	<b>(+9)</b>	4330' -2096
Osage	4346' -2095	4365' -2111	<b>(+16)</b>	4339' -2105

## Summary

The location for the Ace #1-14 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. One Drill Stem Test was conducted which recovered commercial amounts of oil from the Mississippian Osage Formation. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Ace #1-14 well.

## Recommended Perforations

**Primary:**

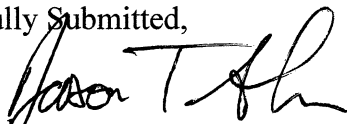
<b>Mississippian Osage</b>	<b>(4349' – 4359')</b>	<b>DST #1</b>
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**Before Abandonment:**

<b>Fort Scott</b>	<b>(4247' – 4250')</b>	<b>Not Tested</b>
	<b>(4262' – 4266')</b>	

Respectfully Submitted,



Jason T Allen  
Hard Rock Consulting, Inc.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63514

Well Name & No. Ace # 1-14 Test No. 1 Date 03/07/2017  
 Company DH Operating, Inc Elevation 2251' KB 2244' GL  
 Address 621 Benton St Jetmore Ks 67854  
 Co. Rep / Geo. Jason T Alm / Danny L King Rig Pickrell Drilling Rig #10  
 Location: Sec. 14 Twp. 20 N Rge. 23 W Co. Neosho State Ks

Interval Tested 4288' - 4357' Zone Tested Mississippi  
 Anchor Length 69' Drill Pipe Run 4280' Mud Wt. 9.45  
 Top Packer Depth 4283' Drill Collars Run - Vis 48  
 Bottom Packer Depth 4288' Wt. Pipe Run - WL 9.6  
 Total Depth 4357' Chlorides 8,100 ppm System LCM 1#

Blow Description 17 - Weak Blow thru-out; built from a surface blow to 3 in  
150 - No Blow Back  
77 - Weak Blow thru-out; built from a surface blow to 2 inches  
750 - No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>10'</u>	<u>Clean Oil</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>70'</u>	<u>OCM</u>	<u>35</u>	<u>0</u>	<u>65</u>	<u>0</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 80' BHT 113° Gravity 38° API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2187  
 (B) First Initial Flow 18  
 (C) First Final Flow 33  
 (D) Initial Shut-In 1336  
 (E) Second Initial Flow 34  
 (F) Second Final Flow 50  
 (G) Final Shut-In 1330  
 (H) Final Hydrostatic 2125

Test 1150  
 Jars 250  
 Safety Joint 75  
 Circ Sub  
 Hourly Standby  
 Mileage 138 RT 103.50  
 Sampler  
 Straddle  
 Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility  
 Sub Total 1578.50

T-On Location 13:05  
 T-Started 15:02  
 T-Open 17:26  
 T-Pulled 20:26  
 T-Out 22:30

Comments \_\_\_\_\_  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1578.50  
 MP/DST Disc't \_\_\_\_\_

Initial Open 45  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 45

Approved By \_\_\_\_\_ Our Representative Spencer J. Jacob Thank  
 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.

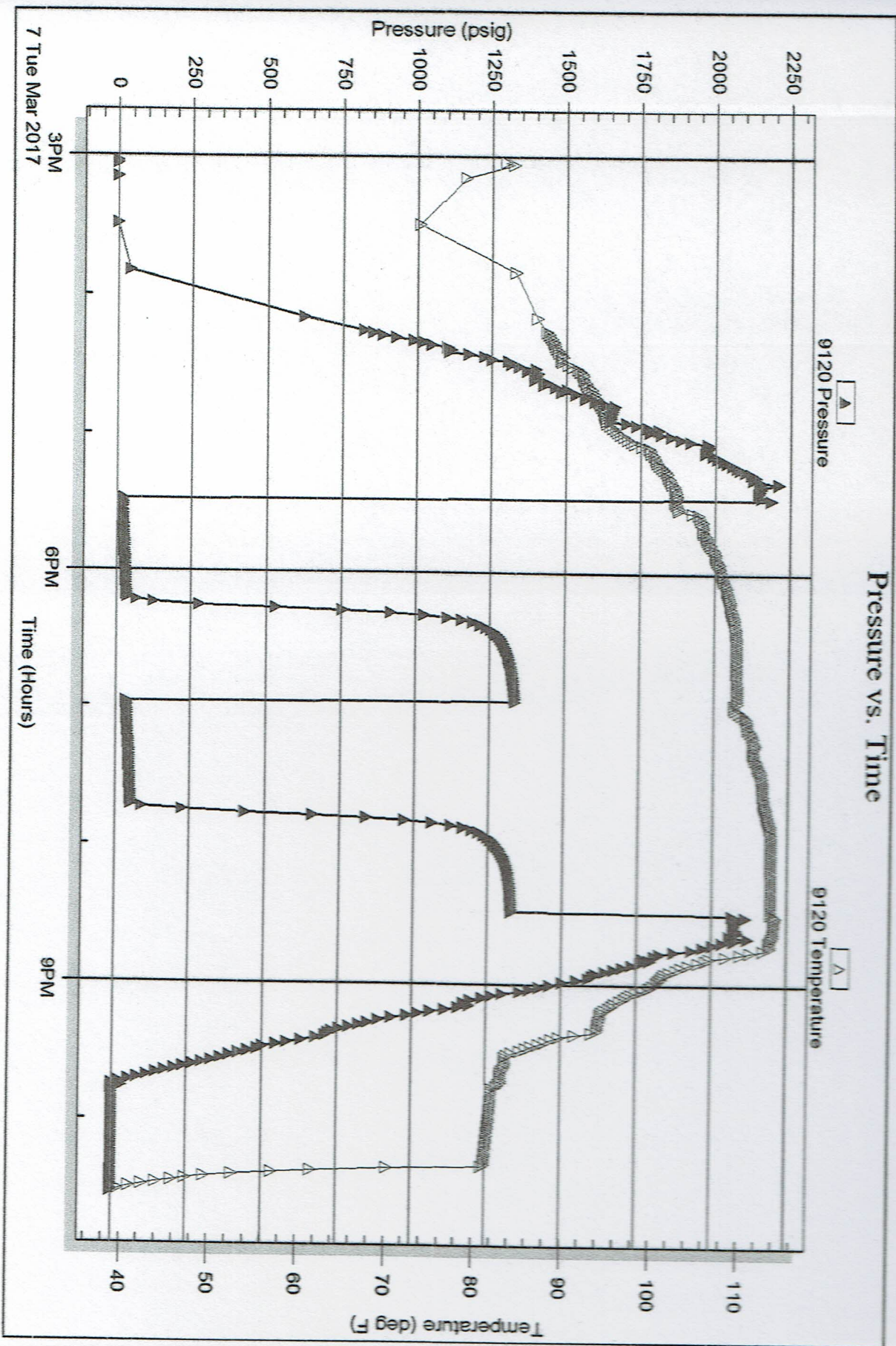
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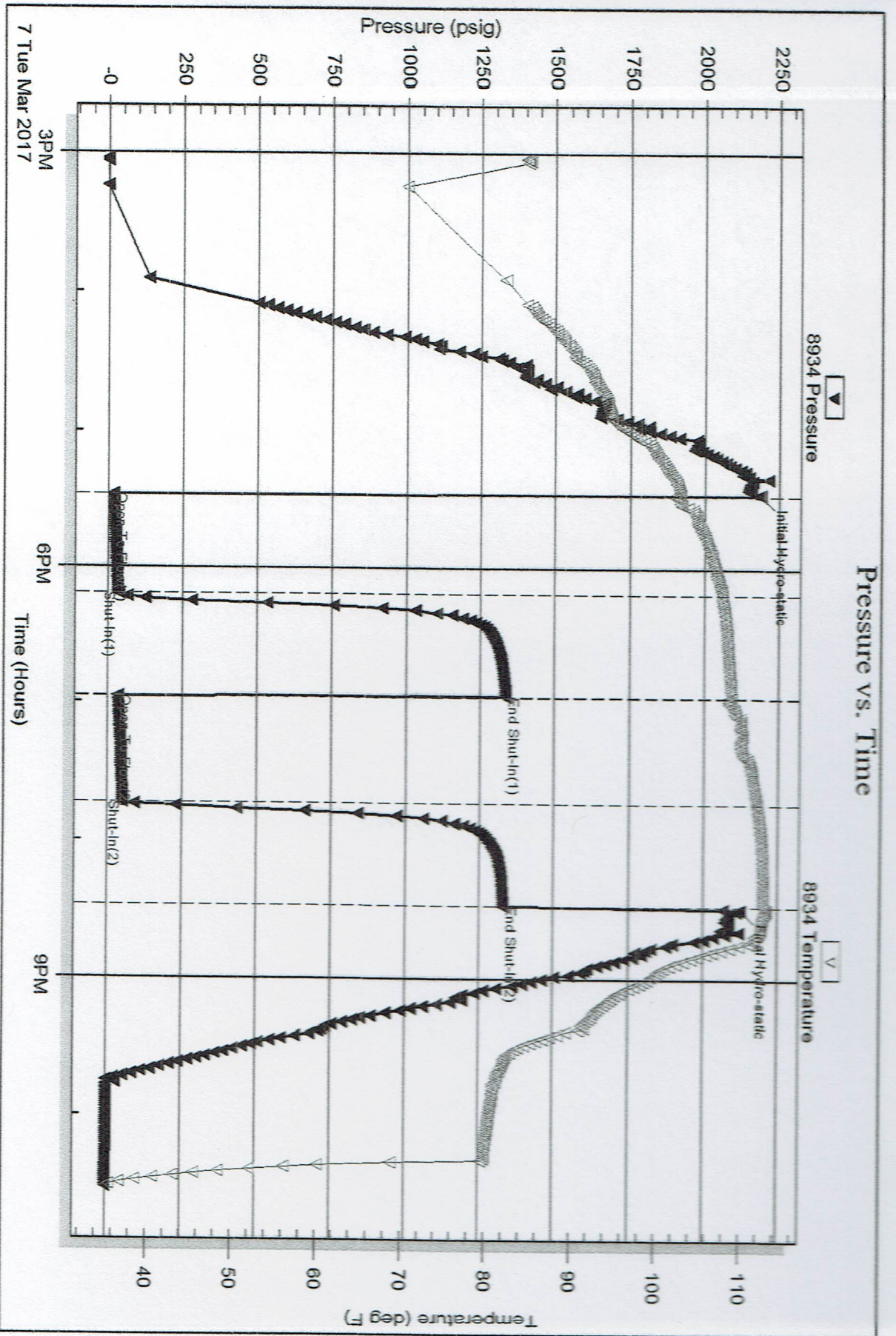
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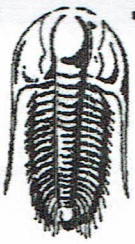
DK Operating, Inc

Acc #1-14

DST Test Number: 1







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

DK Operating, Inc

S14-20S-23W Ness,KS

621 Benton ST  
Jetmore KS, 67854

**Ace #1-14**

Job Ticket: 63514

DST#: 1

ATTN: Jason T. Alm/ Danny

Test Start: 2017.03.07 @ 15:02:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 48.00 sec/qt  
Water Loss: 9.59 in<sup>2</sup>  
Resistivity: ohm.m  
Salinity: 8100.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 38 deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

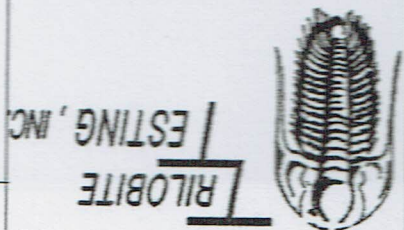
Length ft	Description	Volume bbl
10.00	Clean Oil 100% Oil	0.140
70.00	OCM 35% O 65% M	0.982

Total Length: 80.00 ft      Total Volume: 1.122 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: 1# LCM



# DRILL STEM TEST REPORT

## TOOL DIAGRAM

S14-20S-23W Ness, KS

Ace #1-14

Job Ticket: 63514

DST#:1

Test Start: 2017.03.07 @ 15:02:00

DK Operating, Inc

621 Benton ST

Jelmore KS, 67854

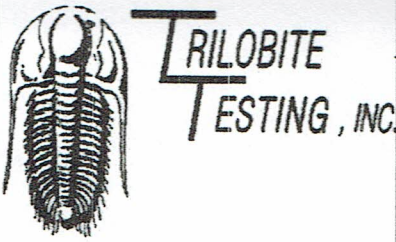
ATTN: Jason T. Almy Danny

### Tool Information

Drill Pipe:	Length: 4280.00 ft	Diameter: 3.80 inches	Volume: 60.04 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 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
Drill Pipe Above KB:		Total Volume: 60.04 bbl		Tool Chased
Depth to Top Packer:	4288.00 ft			String Weight: Initial 59000.00 lb
Depth to Bottom Packer:	ft			Final 59000.00 lb
Interval betw een Packers:	69.00 ft			
Tool Length:	97.00 ft			
Number of Packers:	1	Diameter:	6.75 inches	
Tool Comments:				

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

Change Over Sub	1.00			4261.00
Shut In Tool	5.00			4266.00
Hydraulic tool	5.00			4271.00
Jars	5.00			4276.00
Safety Joint	3.00			4279.00
Packer	5.00			4284.00
Bottom Of Top Packer	28.00			
Packer	4.00			4288.00
Stub	1.00			4289.00
Recorder	0.00	9120	Inside	4289.00
Recorder	0.00	8934	Inside	4289.00
Change Over Sub	1.00			4290.00
Perforations	62.00			4352.00
Change Over Sub	1.00			4353.00
Bullnose	4.00			4357.00
Total Tool Length: 97.00				
Bottom Packers & Anchor	69.00			



# DRILL STEM TEST REPORT

DK Operating, Inc

S14-20S-23W Ness,KS

621 Benton ST  
Jetmore KS, 67854

Ace #1-14

Job Ticket: 63514

DST#: 1

ATTN: Jason T. Alm/ Danny

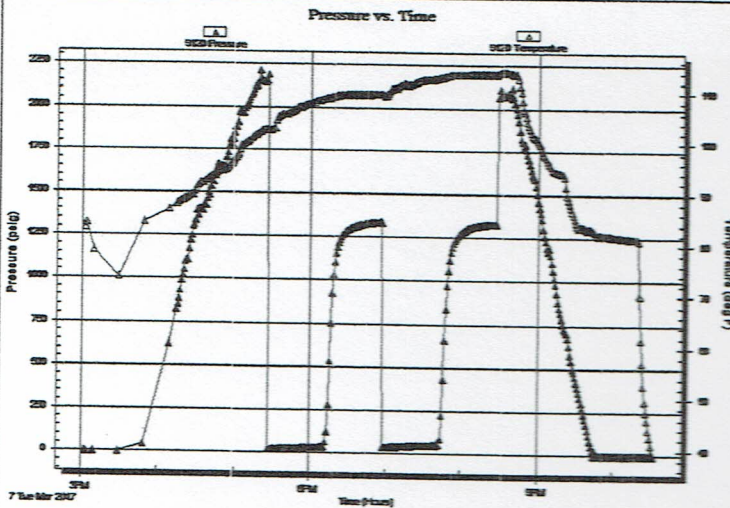
Test Start: 2017.03.07 @ 15:02:00

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 17:27:30 Tester: Spencer J. Staab  
 Time Test Ended: 22:32:30 Unit No: 84  
 Interval: 4288.00 ft (KB) To 4357.00 ft (KB) (TVD)  
 Total Depth: 4357.00 ft (KB) (TVD) Reference Elevations: 2251.00 ft (KB)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 2244.00 ft (CF)  
 7.00 ft

Serial #: **9120** Inside  
 Press@RunDepth: psig @ 4289.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.03.07 End Date: 2017.03.07 Last Calib.: 2017.03.07  
 Start Time: 15:02:15 End Time: 22:32:30 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 45-IF-Weak Blow Thru-out; Built from a surface blow to 3 and 3/4"  
 45-IS-No Blow Back  
 45-FF-Weak Blow Thru-out; Built from a surface blow to 2"  
 45-FS-No Blow Back



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Clean Oil 100% Oil	0.14
70.00	OCM 35% O 65% M	0.98

## Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (Mscf/d)







## DRILL STEM TEST REPORT

Prepared For: **DK Operating, Inc**

621 Benton ST  
Jetmore KS, 67854

ATTN: Jason T. Alm/ Danny

**Ace #1-14**

**S14-20S-23W Ness,KS**

Start Date: 2017.03.07 @ 15:02:00

End Date: 2017.03.07 @ 22:32:30

Job Ticket #: 63514                      DST #: 1

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