



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1234478  
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: \_\_\_\_\_

1234478

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> _____ <input type="checkbox"/> Commingled <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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## DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating Inc**

PO Box 86  
Plainville KS 67663-0086

ATTN: Marc Downing

### **Malsam #27-1**

#### **27-8s-25w Graham,KS**

Start Date: 2014.12.05 @ 12:45:20

End Date: 2014.12.05 @ 19:00:14

Job Ticket #: 61130                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.12.10 @ 10:45:33



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

H&C Oil Operating Inc  
 PO Box 86  
 Plainville KS 67663-0086  
 ATTN: Marc Downing

**27-8s-25w Graham,KS**  
**Malsam #27-1**  
 Job Ticket: 61130 **DST#: 1**  
 Test Start: 2014.12.05 @ 12:45:20

## GENERAL INFORMATION:

Formation: **LKC I-K**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 14:36:15  
 Time Test Ended: 19:00:14  
 Interval: **3916.00 ft (KB) To 3975.00 ft (KB) (TVD)**  
 Total Depth: 3975.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ray Schwager  
 Unit No: 70  
 Reference Elevations: 2460.00 ft (KB)  
 2453.00 ft (CF)  
 KB to GR/CF: 7.00 ft

## Serial #: 8018

Inside

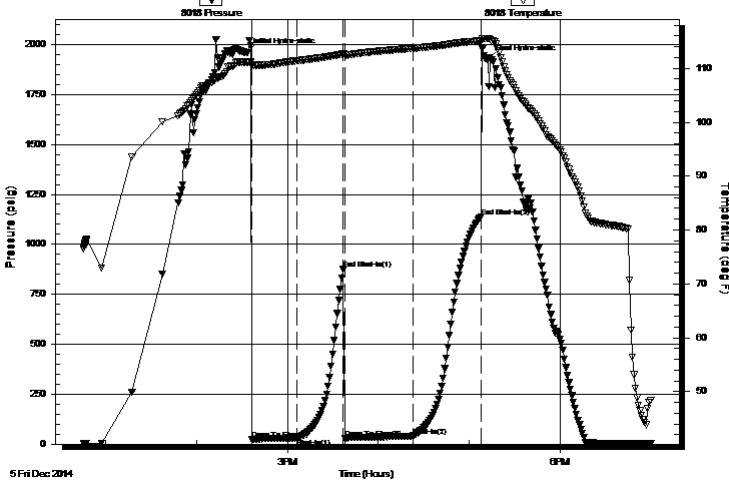
Press@RunDepth: 41.74 psig @ 3953.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.12.05 End Date: 2014.12.05 Last Calib.: 2014.12.05  
 Start Time: 12:45:20 End Time: 19:00:14 Time On Btm: 2014.12.05 @ 14:33:15  
 Time Off Btm: 2014.12.05 @ 17:12:14

TEST COMMENT: 30-IFP-w k bl thru-out 1/4" to 1" bl  
 30-ISIP-no bl  
 45-FFP-w k to a fr bl 2" to 4 1/2" bl  
 45-FSIP-no bl

## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1958.33	111.10	Initial Hydro-static
3	22.42	110.57	Open To Flow (1)
33	31.68	111.39	Shut-In(1)
64	877.95	112.66	End Shut-In(1)
65	28.70	112.45	Open To Flow (2)
110	41.74	113.71	Shut-In(2)
155	1138.69	115.08	End Shut-In(2)
159	1923.46	115.55	Final Hydro-static

Pressure vs. Time



## Recovery

Length (ft)	Description	Volume (bbl)
0.00	205' GIP	0.00
45.00	HO&GCM 5%G40%O55%M	0.36
2.00	CO	0.03

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H&C Oil Operating Inc  
PO Box 86  
Plainville KS 67663-0086  
ATTN: Marc Downing

**27-8s-25w Graham,KS**  
**Malsam #27-1**  
Job Ticket: 61130 **DST#: 1**  
Test Start: 2014.12.05 @ 12:45:20

**Tool Information**

Drill Pipe:	Length: 3890.00 ft	Diameter: 3.80 inches	Volume: 54.57 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 54.72 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3916.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	59.00 ft				
Tool Length:	80.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

**Tool Description**

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3896.00	
Shut In Tool	5.00			3901.00	
Hydraulic tool	5.00			3906.00	
Packer	5.00			3911.00	21.00 Bottom Of Top Packer
Packer	5.00			3916.00	
Stubb	1.00			3917.00	
Perforations	3.00			3920.00	
Blank Spacing	33.00			3953.00	
Recorder	0.00	8018	Inside	3953.00	
Recorder	0.00	8700	Outside	3953.00	
Perforations	19.00			3972.00	
Bullnose	3.00			3975.00	59.00 Bottom Packers & Anchor

**Total Tool Length: 80.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H&C Oil Operating Inc  
PO Box 86  
Plainville KS 67663-0086  
ATTN: Marc Downing

**27-8s-25w Graham,KS**  
**Malsam #27-1**  
Job Ticket: 61130      **DST#: 1**  
Test Start: 2014.12.05 @ 12:45:20

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 900.00 ppm			
Filter Cake: 1.00 inches			

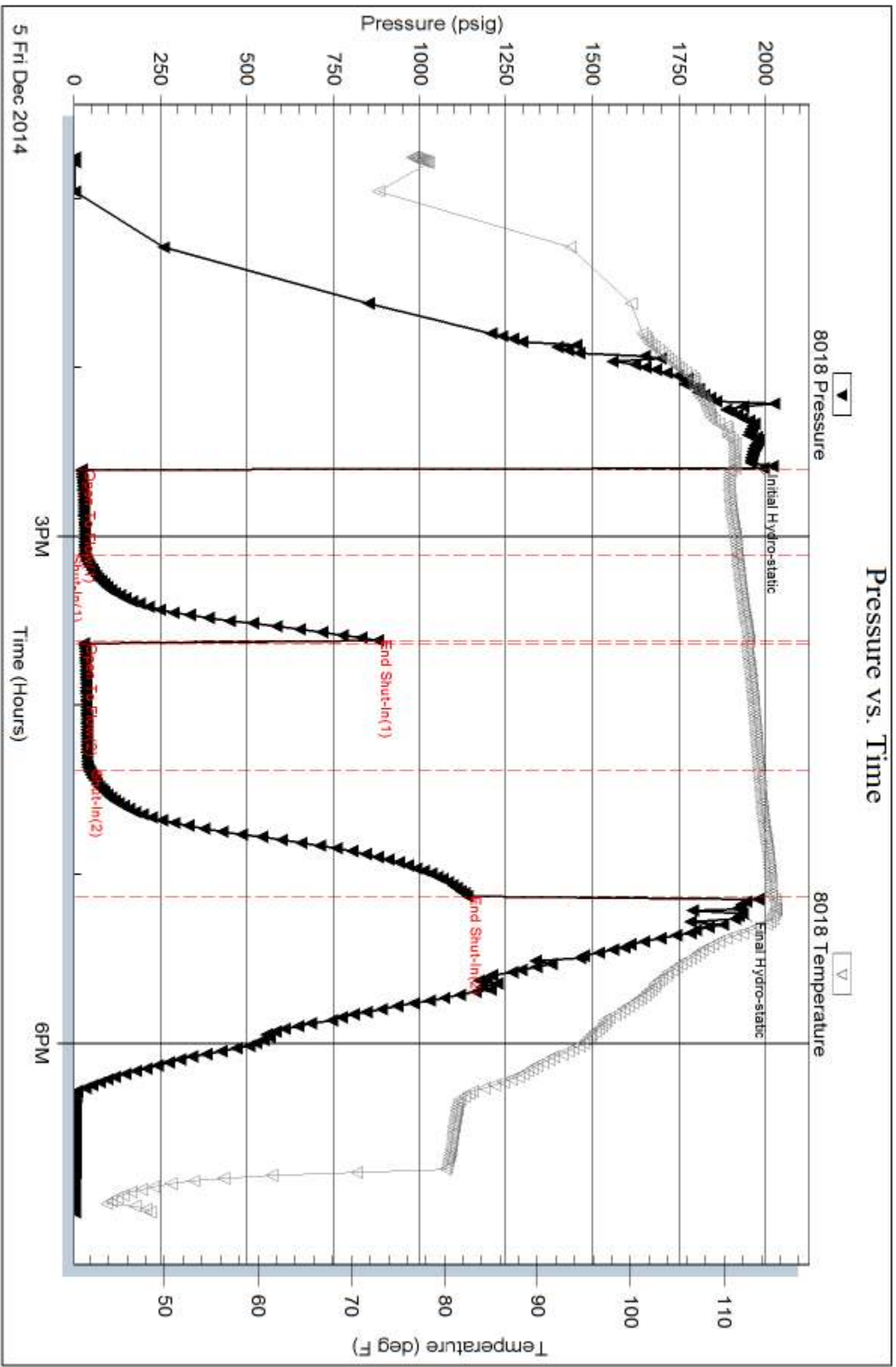
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	205' GIP	0.000
45.00	HO&GCM 5%G40%O55%M	0.358
2.00	CO	0.028

Total Length: 47.00 ft      Total Volume: 0.386 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



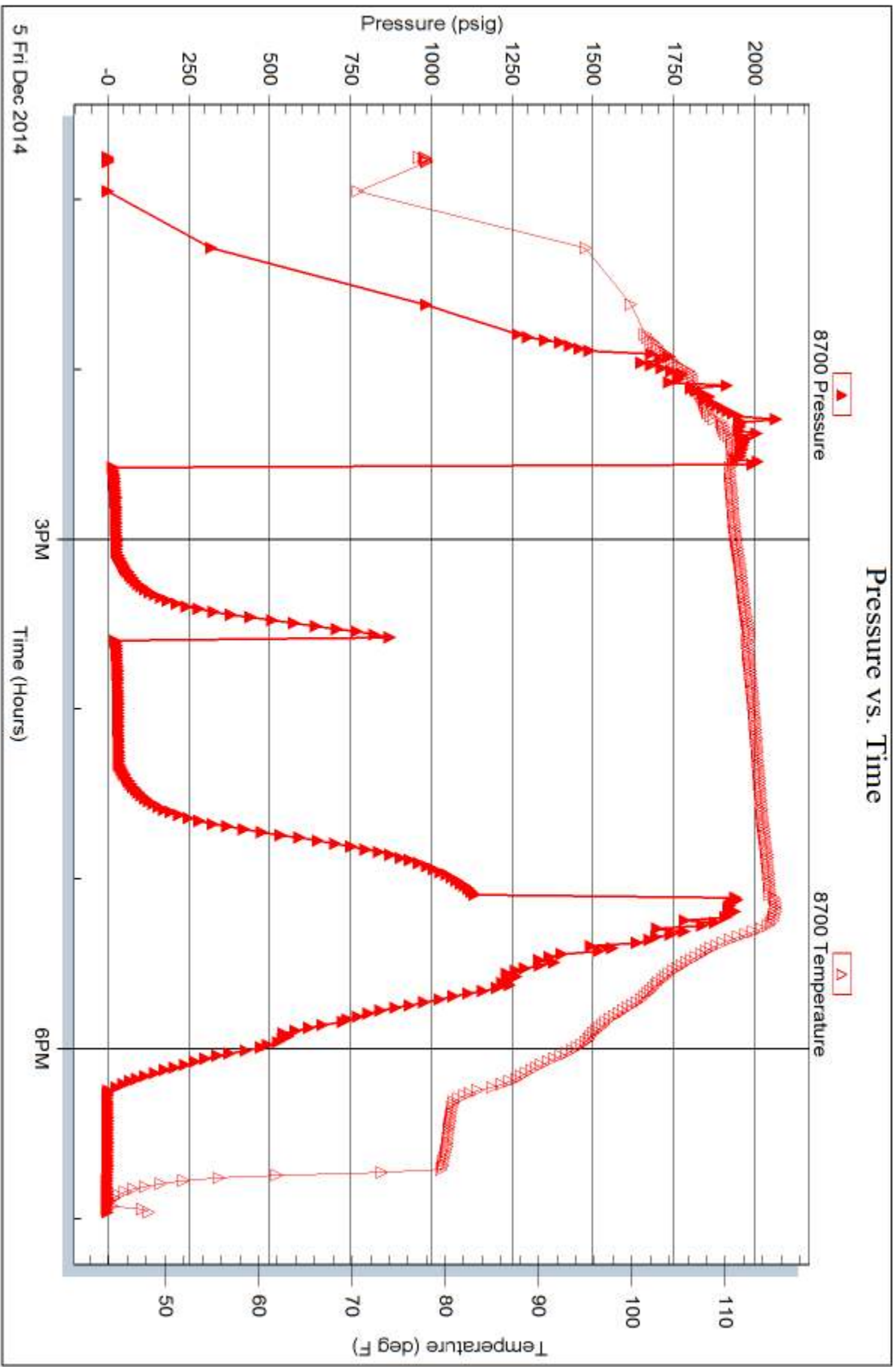


Serial #: 8700

Outside H&C Oil Operating Inc

Malsam #27-1

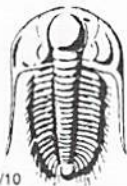
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 61130

Printed: 2014.12.10 @ 10:45:35



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 61130

Well Name & No. MALSAM 27-1 Test No. 1 Date 12-5-14  
 Company H+C OIL OPERATING, INC Elevation 2460 KB 2453 GL  
 Address PO Box 86 PLAINVILLE, Ks 67663-0086  
 Co. Rep / Geo. MARC Downing Rig Am Eagle rig 2  
 Location: Sec. 27 Twp. 8<sup>s</sup> Rge. 25<sup>w</sup> Co. GRAHAM State Ks

Interval Tested 3916-3975 Zone Tested LKC I-K  
 Anchor Length 59 Drill Pipe Run 3890 Mud Wt. 9.8  
 Top Packer Depth 3911 Drill Collars Run 30 Vis 56  
 Bottom Packer Depth 3916 Wt. Pipe Run - WL 7.8  
 Total Depth 3975 Chlorides 900 ppm System LCM TR

Blow Description I FP - WEAK Blow thru-out 1/4" To 1" Blow  
ISIP - NO Blow  
FFP - WEAK To A FAIR Blow 2" To 4 1/2" Blow  
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>205</u>	<u>GIP</u>				
<u>2</u>	<u>CO</u>				
<u>45</u>	<u>HO+6 CM</u>	<u>5</u>	<u>40</u>		<u>55</u>

Rec Total 47 BHT 115 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1958  Test 1150 T-On Location 1210  
 (B) First Initial Flow 22  Jars \_\_\_\_\_ T-Started 1245  
 (C) First Final Flow 31  Safety Joint \_\_\_\_\_ T-Open 1435  
 (D) Initial Shut-In 877  Circ Sub \_\_\_\_\_ T-Pulled 1705  
 (E) Second Initial Flow 28  Hourly Standby \_\_\_\_\_ T-Out 1900  
 (F) Second Final Flow 41  Mileage 150 RT 232.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 1138  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1923  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Day Standby \_\_\_\_\_ Total 1382.50  
 Final Flow 45  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 45 Sub Total 1382.50

Approved By \_\_\_\_\_ Our Representative Ray Schwager *Thank you*

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.



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

1361

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

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

No.

Date	12-6-14	Sec.	27	Twp.	8	Range	25	County	Graham	State	KS	On Location	Finish
Lease	Malsam	Well No. 27-1											
Contractor	American Eagle	Location Moreland, 2 1/2 S, W 2											

Owner  
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.

Type Job Plug  
Hole Size 7 7/8  
Csg. T.D.  
Tbg. Size Depth  
Tool Depth  
Cement Left in Csg. Shoe Joint

Meas Line Displace  
The above was done to satisfaction and supervision of owner agent or contractor.  
Cement Amount Ordered 240 sx 60/40, 4% gel, 1/4 Flt

EQUIPMENT	
Pumptrk 17	No. Cementer Helper <i>Lannie W.</i>
Bulktrk 9	No. Driver <i>Tyson</i>
Bulktrk Ph	No. Driver <i>Travis</i>

**JOB SERVICES & REMARKS**

Remarks:  
Rat Hole  
Mouse Hole  
Centralizers  
Baskets  
DN or Port Collar  
50sx at 2210  
100sx at 1300  
50sx at 315  
10sx at 40 with Plug  
30x Rat  
Common 144  
Poz. Mix 96  
Gel. 9  
Calcium  
Hulls  
Salt  
Flowseal 60 #  
Kol-Seal  
Mud CLR 48  
CFL-117 or CD110 CAF 38  
Sand  
Handling 249  
Mileage  
Guide Shoe  
Centralizer  
Baskets  
AFU inserts  
Float Shoe  
Latch Down  
1 wood plug  
Pumptrk Charge  
Mileage 24

X Signature *[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. 1003

Date	11-29-2014	27	8	25	GRAHAM	KANSAS	On Location	10:30 PM
Lease	MALSAM	Well No.	27-1	Location MORELAND KS. 1 S 24th S INTO				
Contractor	AMERICAN EAGLE RIG #2 'ROAD'							
Type Job	CEMENT SURFACE							
Hole Size	12 1/4	T.D.	263'	Charge To H I C OIL OPERATING INC.				
Csg.	8 5/8 23#	Depth	262'	Street				
Tbg. Size		Depth		City				
Tool		Depth		State				
Cement Left in Csg.	15'	Shoe Joint	15 3/4	The above was done to satisfaction and supervision of owner agent or contractor.				
Meas Line		Displace		Cement Amount Ordered 3% CC 160 SX Com				
EQUIPMENT								
Pumptrk	17	No. Cementer		Common 160				
		Helper		Poz. Mix				
Bulktrk	21	No. Driver		Gel. 3				
		Driver		Calcium 5				
Bulktrk		No. Driver		Hulls				
		Driver		Salt				
JOB SERVICES & REMARKS								
Remarks:								
Rat Hole								
Mouse Hole								
Centralizers								
Baskets								
DW or Port Collar								
GET 8 5/8 SURFACE @ 262'								
CEMENT w/ 160 SX Com. 3% C								
DISPLACE a TOTAL OF 15 3/4 BRIN								
SHUT IN @ 250 #								
CEMENT DID CIRCULATE								
TO SURFACE								
PUMPTRK CHARGE SURFACE								
MILEAGE 23								
TAX								
DISCOUNT								
TOTAL CHARGE								

X Signature 