

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

5/10/12

OPERATOR: License # 8914  
Name: H & C Oil Operating, Inc.  
Address 1: P.O. Box 86  
Address 2: \_\_\_\_\_  
City: Plainville State: KS Zip: 67663 + \_\_\_\_\_  
Contact Person: Charles Ramsay  
Phone: (785) 434-7434  
CONTRACTOR: License # 33793  
Name: H2 DrillingLLC  
Wellsite Geologist: Keith Reavis  
Purchaser: \_\_\_\_\_

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SLOW  
 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 #: \_\_\_\_\_

04/08/2011    04/20/2011  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 069-20343-0000  
Spot Description: \_\_\_\_\_  
NW SE SW SE Sec. 36 Twp. 26 S. R. 28  East  West  
370 Feet from  North /  South Line of Section  
1,890 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Gray  
Lease Name: Strawn Well #: 1-36  
Field Name: Wildcat  
Producing Formation: \_\_\_\_\_  
Elevation: Ground: 2680 Kelly Bushing: 2692  
Total Depth: 5221 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 907 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: RECEIVED bbls  
Dewatering method used: \_\_\_\_\_ MAY 23 2011  
Location of fluid disposal if hauled offsite: KCC WICHITA  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

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MAY 12 2012

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: Charles R Ramsay  
Title: President Date: 05/10/2011

KCC Office Use ONLY  
 Letter of Confidentiality Received  
Date: 5/10/11 - 5/10/12  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: NJ Date: 6-27-11

Operator Name: H & C Oil Operating, Inc. Lease Name: Strawn Well #: 1-36  
 Sec. 36 Twp. 26 S. R. 28  East  West County: Gray

**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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: Compensated sonic, array induction, compensated neutron, microresistivity	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/> Log</td> <td>Formation (Top), Depth and Datum</td> <td><input type="checkbox"/> Sample</td> </tr> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>Heebner</td> <td>4127</td> <td>-1435</td> </tr> <tr> <td>Lansing</td> <td>4232</td> <td>-1540</td> </tr> <tr> <td>Stark</td> <td>4550</td> <td>-1858</td> </tr> <tr> <td>Marmaton</td> <td>4703</td> <td>-2011</td> </tr> <tr> <td>Pawnee</td> <td>4784</td> <td>-2092</td> </tr> <tr> <td>Cherokee</td> <td>4824</td> <td>-2132</td> </tr> <tr> <td>Morrow/Mississippi</td> <td>4954/4977</td> <td>-2262/-2285</td> </tr> </table>	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample	Name	Top	Datum	Heebner	4127	-1435	Lansing	4232	-1540	Stark	4550	-1858	Marmaton	4703	-2011	Pawnee	4784	-2092	Cherokee	4824	-2132	Morrow/Mississippi	4954/4977	-2262/-2285
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Cherokee	4824	-2132																										
Morrow/Mississippi	4954/4977	-2262/-2285																										

CASING RECORD <input checked="" 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
Surface	12 1/4"	8 5/8"	23	907	Lite 65/35	300	6% gel, 3% cc
					Class A	150	3% cc, 2% gel

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				

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

RECEIVED  
MAY 23 2011  
KCC WICHITA

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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 (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> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: MAY 12 2012 <b>KCC</b>
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# ALLIED CEMENTING CO., LLC. 036633

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

SERVICE POINT: LIBERAL Ks

DATE <u>4/10/11</u>	SEC <u>15</u>	TWP. <u>29S</u>	RANGE <u>34W</u>	CALLED OUT	ON LOCATION	JOB START <u>12:00pm</u>	JOB FINISH <u>1:00am</u>
LEASE <u>STAWN</u>		WELL # <u>1-36</u>	LOCATION <u>Camden Ks 45</u>		COUNTY <u>GOVAY</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one)			<u>to M S H E Note</u>				

CONTRACTOR <u>H-2 #1</u>	OWNER <u>SAME</u>
TYPE OF JOB <u>8 1/2 SURFACE</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>907</u>
CASING SIZE <u>8 1/2</u>	DEPTH <u>907</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX <u>550</u>	MINIMUM <u>Ø</u>
MEAS. LINE	SHOE JOINT <u>40.57'</u>
CEMENT LEFT IN CSG. <u>40.57'</u>	
PERFS.	
DISPLACEMENT <u>560.3 BBL</u>	EQUIPMENT
PUMP TRUCK CEMENTER <u>BOB</u>	
# <u>372</u>	HELPER <u>CEASAR</u>
BULK TRUCK <u>HELPER</u>	
# <u>457/251</u>	DREYER <u>LOW MEDICINE LODGE</u>
BULK TRUCK	
#	DRIVER

CEMENT		
AMOUNT ORDERED	<u>300SK 165/35 666K</u>	
	<u>3% CC 4" # 10.98K</u>	
	<u>150 SK "A" 3% CC 2% GEL</u>	
COMMON	<u>150SK "A" @ 16.25</u>	<u>2437.50</u>
POZMIX	@	
GEL	<u>3 SK @ 21.25</u>	<u>63.75</u>
CHLORIDE	<u>CC 15SK @ 5.80</u>	<u>87.00</u>
ASC	@	
	<u>CITE weight 300SK @ 15.00</u>	<u>4500.00</u>
	@	
	<u>RASEAL 75CB @ 2.70</u>	<u>202.50</u>
	@	
	@	
	@	
	@	
	@	
HANDLING	<u>471 @ 2.25</u>	<u>1057.75</u>
MILEAGE	<u>54mi @ 11</u>	<u>594.00</u>
		TOTAL <u>13022.25</u>

REMARKS:

THANK YOU

SERVICE

DEPTH OF JOB	<u>907'</u>	
PUMP TRUCK CHARGE		<u>1125.00</u>
EXTRA FOOTAGE	<u>607' @ .95</u>	<u>576.65</u>
MILEAGE	<u>150mi @ 7.00</u>	<u>1050.00</u>
MANIFOLD + HEAD	@ <u>200</u>	<u>200.00</u>
ET UTK mi	<u>150mi @ 4.00</u>	<u>600.00</u>
		TOTAL <u>3551.65</u>

PLUG & FLOAT EQUIPMENT

<u>8 1/2</u>		
1- GUIDE SHAPE	@ <u>404</u>	<u>404.00</u>
3- CENTRALIZER	@ <u>67</u>	<u>201.00</u>
1- 125501 FLOAT	@ <u>200</u>	<u>200.00</u>
1- BASKET	@ <u>314</u>	<u>314.00</u>
1- SW Tap Plug	@ <u>115</u>	<u>115.00</u>
		TOTAL <u>1234.00</u>

CHARGE TO: Sunflower Energy  
Harco

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

To Allied Cementing Co., LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Carlos Fabela

SIGNATURE \_\_\_\_\_

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGE 13022.25  
DISCOUNT MAY 1 2 2012 IF PAID IN 30 DAYS

KCC

RECEIVED

JUN 13 2011

KCC WICHITA

# ALLIED CEMENTING CO., LLC. 037189

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

SERVICE POINT:  
Great Bend, KS

DATE <u>4-19-2011</u>	SEC. <u>36</u>	TWP. <u>26S</u>	RANGE <u>28W</u>	CALLED OUT	ON LOCATION	JOB START <u>4:00 AM</u>	JOB FINISH <u>4:30 AM</u>
LEASE <u>STRAWN</u> WELL # <u>1-36</u>		LOCATION <u>Cimarron KS, 5S,</u>		COUNTY <u>Gray</u>		STATE <u>KS,</u>	
OLD OR <u>NEW</u> (Circle one)			<u>1/2 E N/120</u>				

CONTRACTOR H2 #1 OWNER SUNFLOWER ENERGY

TYPE OF JOB <u>Plug</u>	
HOLE SIZE <u>2 7/8</u>	T.D. <u>1820 FT</u>
CASING SIZE	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE <u>4 1/2</u>	DEPTH <u>1820 FT</u>
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT <u>Freshwater Mud</u>	
EQUIPMENT	

CEMENT  
AMOUNT ORDERED 220sx 60:40:4%  
Gel + 1/4# Flo-seal

PUMP TRUCK # <u>366</u>	CEMENTER <u>David W.</u>
BULK TRUCK # <u>344/170</u>	HELPER <u>Greg R.</u>
BULK TRUCK #	DRIVER <u>Kevin W.</u>
BULK TRUCK #	DRIVER

COMMON	<u>132</u>	@ <u>16.25</u>	<u>2,145.00</u>
POZMIX	<u>88</u>	@ <u>8.50</u>	<u>748.00</u>
GEL	<u>8</u>	@ <u>21.25</u>	<u>170.00</u>
CHLORIDE		@	
ASC		@	
<u>Flo seal</u>	<u>55</u>	@ <u>2.70</u>	<u>148.50</u>
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>230</u>	@ <u>2.25</u>	<u>517.50</u>
MILEAGE	<u>230x75x.11</u>		<u>1,897.50</u>
			<b>TOTAL</b> <u>5,626.50</u>

**REMARKS:**

- 1st Plug 1820 FT - 50sx Cement
- 2nd Plug 930 FT - 50sx Cement
- 3rd Plug 360 FT - 50sx Cement
- 4th Plug 60 FT - 20sx Cement
- 20sx in Mouse 30sx in Rat

**SERVICE**

DEPTH OF JOB	<u>1820 FT</u>
PUMP TRUCK CHARGE	<u>1250.00</u>
EXTRA FOOTAGE	@
MILEAGE	<u>150</u> @ <u>7.00</u> <u>1050.00</u>
MANIFOLD	@
<u>light truck</u>	<u>150</u> @ <u>4.00</u> <u>600.00</u>
	@
<b>TOTAL</b> <u>2900.00</u>	

CHARGE TO: SUNFLOWER ENERGY  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

	@	
	@	
	@	
	@	
	@	

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MAY 12 2012

TOTAL KCC

To Allied Cementing Co., LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME ISAAC GALICIA

SIGNATURE ISAAC GALICIA

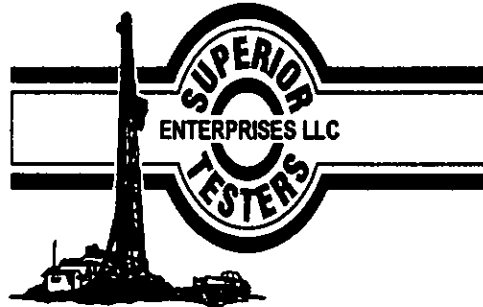
Thank you!

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES [scribble]

DISCOUNT [scribble]

**RECEIVED**  
IF PAID IN 30 DAYS  
**JUN 13 2011**  
**KCC WICHITA**



## DRILL STEM TEST REPORT

Prepared For: **H & C OIL OPERATING INC**  
PO BOX 86 PLAINVILLE KS67663+0086

ATTN: KEITH REEVIS

**36-26S-28W GRAY**

**STRAWN #1-36**

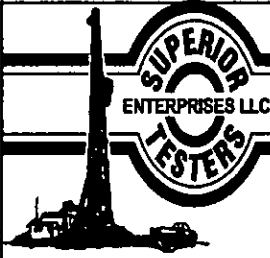
Start Date: 2011.04.17 @ 20:10:00  
End Date: 2011.04.18 @ 02:41:00  
Job Ticket #: 16478                      DST #: 3

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

**CONFIDENTIAL**  
**MAY 12 2012**  
**KCC**

Printed: 2011.04.18 @ 02:59:43

H & C OIL OPERATING INC    STRAWN #1-36    36-26S-28W GRAY    DST # 3    BASAL PENN/ MORROW    2011.04.17



# DRILL STEM TEST REPORT

H & C OIL OPERATING INC  
 PO BOX 86 PLAINVILLE KS67663+0086  
 ATTN: KETH REEVIS

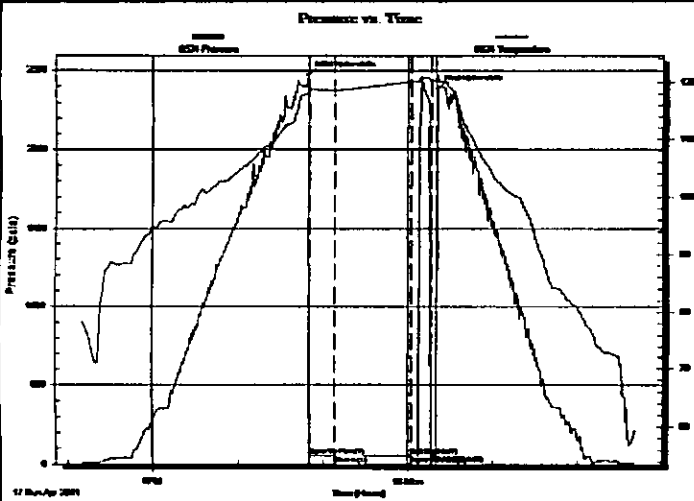
STRAWN #1-36  
 36-26S-28W GRAY  
 Job Ticket: 16478      DST#: 3  
 Test Start: 2011.04.17 @ 20:10:00

## GENERAL INFORMATION:

Formation: **BASAL PENN MORROW**  
 Deviated: No Whipstock      ft (KB)  
 Time Tool Opened: 22:50:30  
 Time Test Ended: 02:41:00  
 Interval: **4943.00 ft (KB) To 4993.00 ft (KB) (TVD)**  
 Total Depth: **4993.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: JARED SCHECK  
 Unit No: 3325-210-GB  
 Reference Elevations: 2692.00 ft (KB)  
 2680.00 ft (CF)  
 KB to GR/CF: 12.00 ft

Serial #: **8524**      Inside  
 Press@RunDepth: **57.80 psia @ 4989.00 ft (KB)**      Capacity: 5000.00 psia  
 Start Date: 2011.04.17      End Date: 2011.04.18      Last Calib.: 2011.04.18  
 Start Time: 20:10:00      End Time: 02:41:00      Time On Btm: 2011.04.17 @ 22:49:30  
 Time Off Btm: 2011.04.18 @ 00:20:30

TEST COMMENT: 15/INITIAL OPEN:VERY WEAK SURFACE BLOW STAYED STEADY THROUGHOUT OPEN  
 60/INITIAL SHUT IN:NO BLOW BACK  
 10/FINAL OPEN:VERY WEAK SURGE DID NOT BUILD FLUSHED TOOL WEAK SURGE DID NOT BUILD  
 10/FINAL SHUT IN:NO BLOW BACK



## PRESSURE SUMMARY

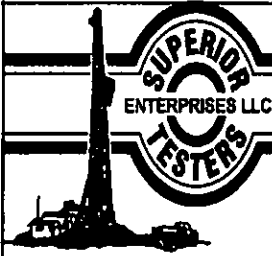
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2471.50	118.14	Initial Hydro-static
1	52.21	118.57	Open To Flow (1)
19	52.74	118.59	Shut-In(1)
73	55.27	120.03	End Shut-In(1)
73	54.66	120.04	Open To Flow (2)
87	57.80	120.09	Shut-In(2)
91	57.72	120.23	End Shut-In(2)
91	2385.68	121.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD	0.02

## Gas Rates

	Choke (Inches)	Pressure (psia)	Gas Rate (Mcf/d)



# DRILL STEM TEST REPORT

FLUID SUMMARY

H & C OIL OPERATING INC  
PO BOX 86 PLAINVILLE KS67663+0086  
ATTN: KEITH REEVIS

STRAWN #1-36  
36-26S-28W GRAY  
Job Ticket: 16478      DST#: 3  
Test Start: 2011.04.17 @ 20:10:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Satinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.80 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 2600.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

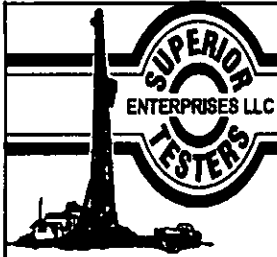
Length ft	Description	Volume bbl
5.00	MUD	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:



# DRILL STEM TEST REPORT

TOOL DIAGRAM

H & C OIL OPERATING INC  
 PO BOX 86 PLAINVILLE KS67663+0086  
 ATTN: KETH REEVIS

STRAWN #1-36  
 36-26S-28W GRAY  
 Job Ticket: 16478      DST#: 3  
 Test Start: 2011.04.17 @ 20:10:00

**Tool Information**

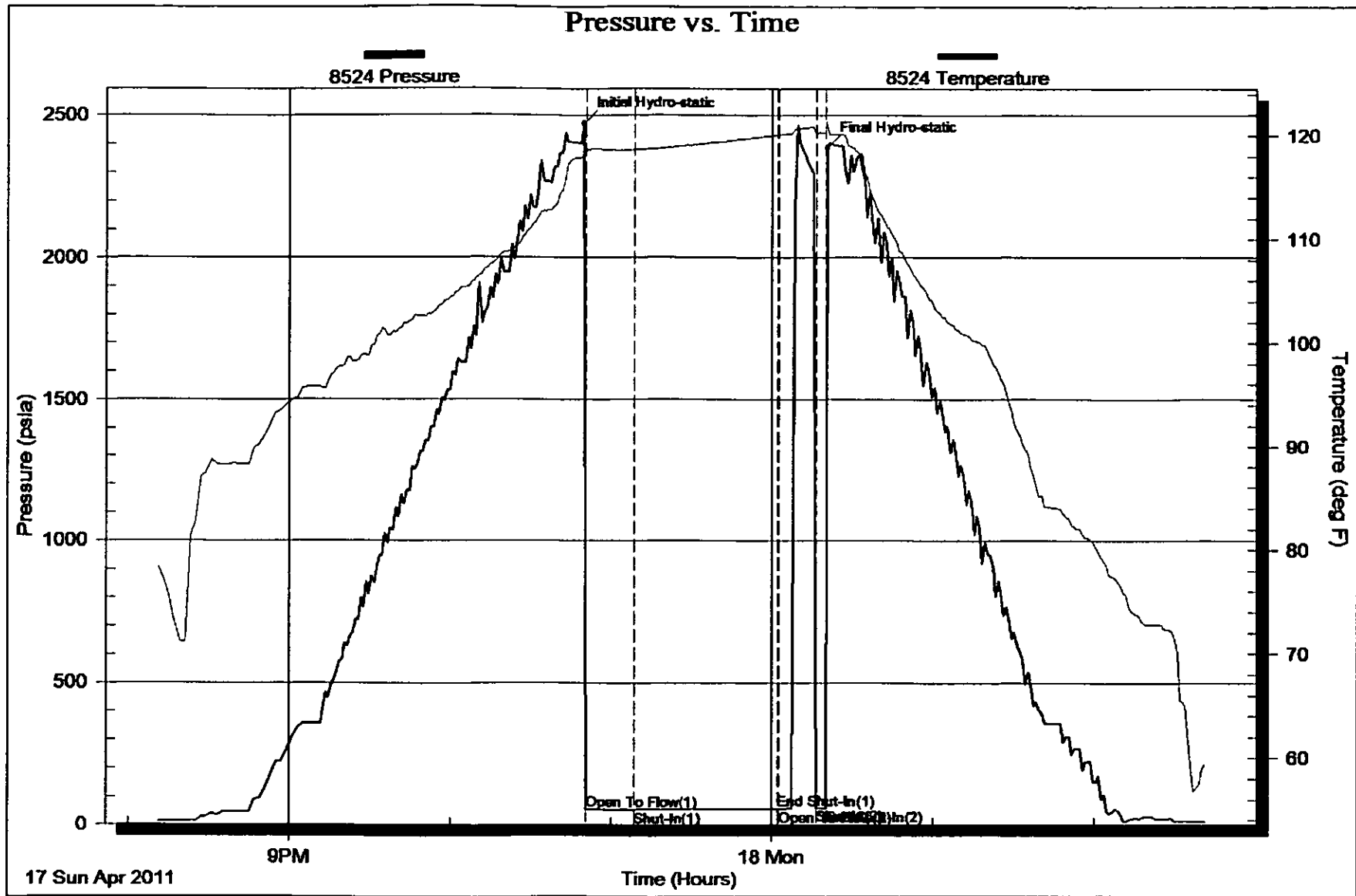
Drill Pipe:	Length: 4234.00 ft	Diameter: 3.80 inches	Volume: 59.39 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 690.00 ft	Diameter: 2.25 inches	Volume: 3.39 bbl	Weight to Pull Loose: 120000.0 lb
			<u>Total Volume: 62.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 98000.00 lb
Depth to Top Packer:	4943.00 ft			Final 98000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

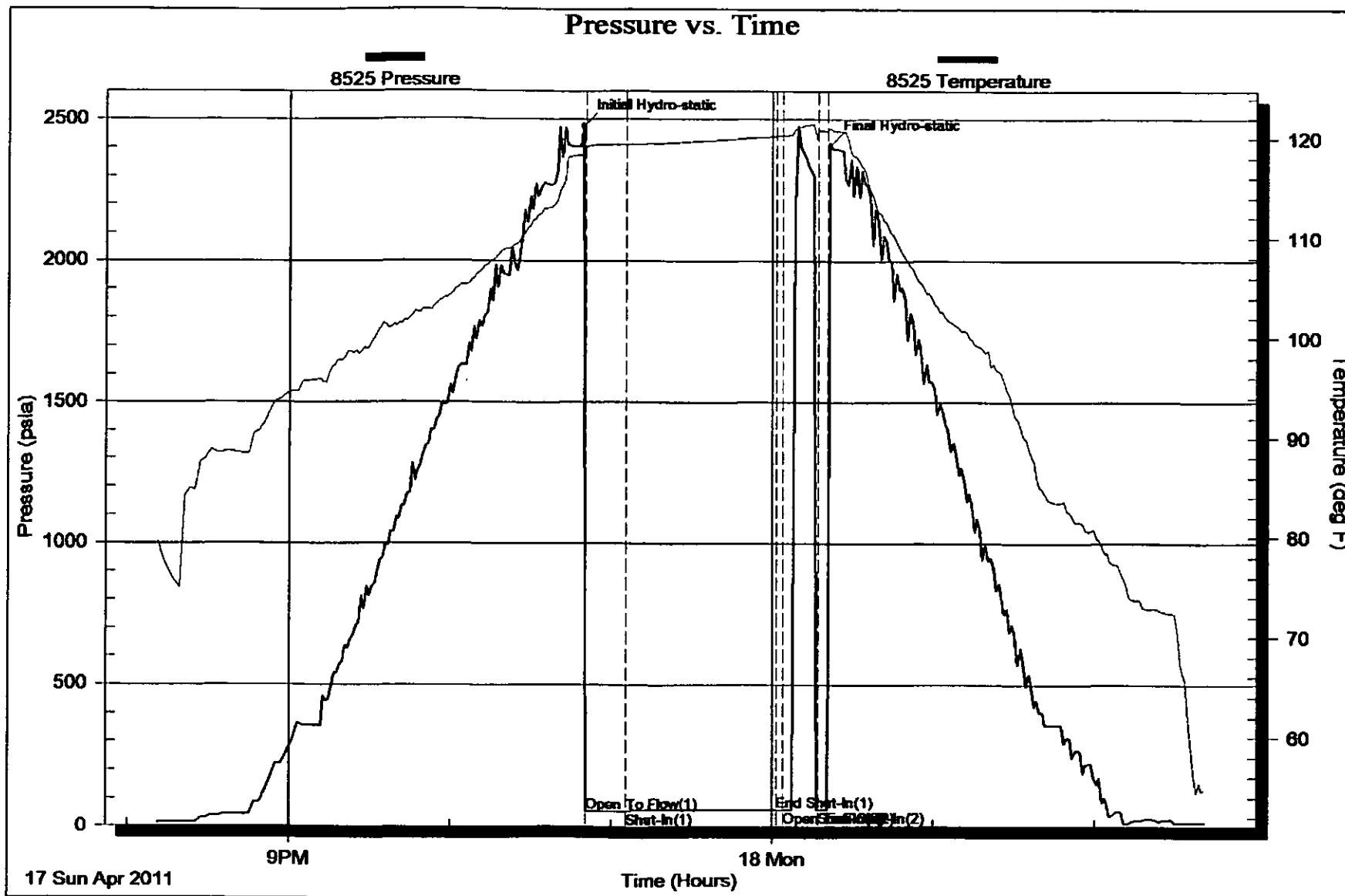
Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4915.00	
Shut-In Tool	5.00			4920.00	
Hydraulic Tool	5.00			4925.00	
Jars	6.00			4931.00	
Safety Joint	2.00			4933.00	
Packer	5.00			4938.00	29.00      Bottom Of Top Packer
Packer	5.00			4943.00	
Change Over Sub	0.75			4943.75	
Drill Pipe	32.50			4976.25	
Change Over Sub	0.75			4977.00	
Perforations	11.00			4988.00	
Recorder	1.00	8524	Inside	4989.00	
Recorder	1.00	8525	Outside	4990.00	
Bullnose	3.00			4993.00	50.00      Bottom Packers & Anchor

**Total Tool Length: 79.00**









## DRILL STEM TEST REPORT

Prepared For: **H & C OIL OPERATING INC**  
PO BOX 86 PLAINVILLE KS67663+0086

ATTN: KEITH REEVIS

**36-26S-28W GRAY**

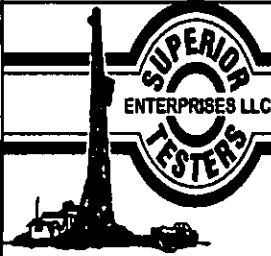
**STRAWN #1-36**

Start Date: 2011.04.16 @ 13:40:00  
End Date: 2011.04.16 @ 19:55:30  
Job Ticket #: 16477                      DST #: 2

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2011.04.16 @ 20:11:16

H & C OIL OPERATING INC  
STRAWN #1-36  
36-26S-28W GRAY  
DST # 2  
PAWNEE  
2011.04.16



# DRILL STEM TEST REPORT

H & C OIL OPERATING INC  
 PO BOX 86 PLAINVILLE KS67663+0086  
 ATTN: KETH REEVIS

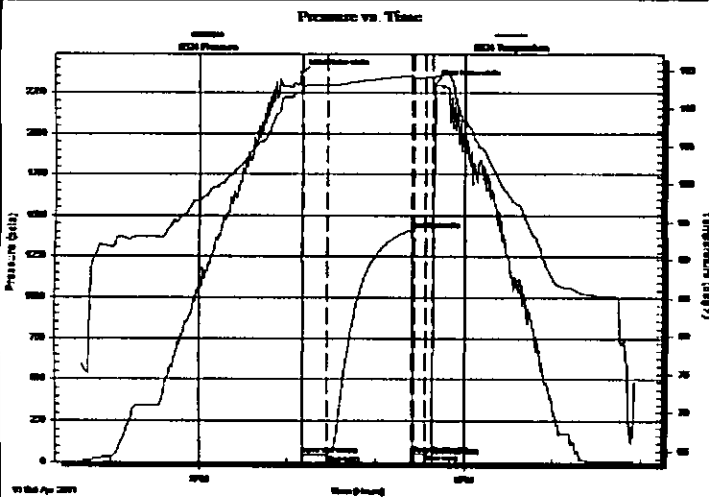
STRAWN #1-36  
 36-26S-28W GRAY  
 Job Ticket: 16477      DST#: 2  
 Test Start: 2011.04.16 @ 13:40:00

## GENERAL INFORMATION:

Formation: **PAWNEE**  
 Deviated: No Whipstock      ft (KB)  
 Time Tool Opened: 16:10:30  
 Time Test Ended: 19:55:30  
 Interval: **4778.00 ft (KB) To 4810.00 ft (KB) (TVD)**  
 Total Depth: **4810.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: JARED SCHECK  
 Unit No: 3325-GB-210  
 Reference Elevations: 2692.00 ft (KB)  
 2680.00 ft (CF)  
 KB to GR/CF: 12.00 ft

Serial #: **8524**      Inside  
 Press@RunDepth: 51.61 psia @ 4806.00 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2011.04.16      End Date: 2011.04.16      Last Calib.: 2011.04.16  
 Start Time: 13:40:00      End Time: 19:55:30      Time On Btrr: 2011.04.16 @ 16:09:30  
 Time Off Btrr: 2011.04.16 @ 17:39:30

TEST COMMENT: 15/INITIAL OPEN:VERY WEAK SURFACE BLOW STAYED STEADY THROUGHOUT OPEN  
 60/INITIAL SHUT IN:NO BLOW BACK  
 10/FINAL OPEN:VERY WEAK SURFACE BLOW DIED OFF FLUSHED TOOL WEAK SURGE DID NOT BUILD  
 5/FINAL SHUT IN:NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2369.05	112.14	Initial Hydro-static
1	44.50	112.80	Open To Flow (1)
18	46.04	113.07	Shut-in(1)
75	1411.26	114.31	End Shut-in(1)
76	49.55	113.95	Open To Flow (2)
85	51.61	114.02	Shut-in(2)
89	92.61	114.13	End Shut-in(2)
90	2301.91	114.11	Final Hydro-static

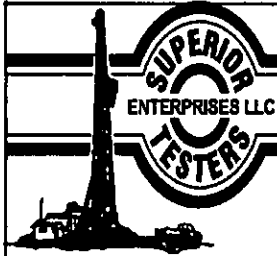
## Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD	0.02

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mc/d)





# DRILL STEM TEST REPORT

TOOL DIAGRAM

H & C OIL OPERATING INC  
 PO BOX 86 PLAINVILLE KS67663+0086  
 ATTN: KETH REEVIS

STRAWN #1-36  
 36-26S-28W GRAY  
 Job Ticket: 16477      DST#: 2  
 Test Start: 2011.04.16 @ 13:40:00

**Tool Information**

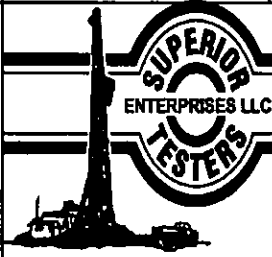
Drill Pipe:	Length: 4079.00 ft	Diameter: 3.80 inches	Volume: 57.22 bbl	Tool Weight: 1000.00 lb
Heavy WM. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 690.00 ft	Diameter: 2.25 inches	Volume: 3.39 bbl	Weight to Pull Loose: 150000.0 lb
			<u>Total Volume: 60.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 92000.00 lb
Depth to Top Packer:	4778.00 ft			Final 92000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter:	6.75 inches	

Tool Comments: RUINED PACKER

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4750.00	
Shut-In Tool	5.00			4755.00	
Hydraulic Tool	5.00			4760.00	
Jars	6.00			4766.00	
Safety Joint	2.00			4768.00	
Packer	5.00			4773.00	29.00      Bottom Of Top Packer
Packer	5.00			4778.00	
Perforations	27.00			4805.00	
Recorder	1.00	8524	Inside	4806.00	
Recorder	1.00	8525	Outside	4807.00	
Bullnose	3.00			4810.00	32.00      Bottom Packers & Anchor

**Total Tool Length: 61.00**



# DRILL STEM TEST REPORT

FLUID SUMMARY

H & C OIL OPERATING INC  
PO BOX 86 PLAINVILLE KS67663+0086  
ATTN: KEITH REEVIS

STRAWN #1-36  
36-26S-28W GRAY  
Job Ticket: 16477      DST#: 2  
Test Start: 2011.04.16 @ 13:40:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Satinity:	ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.80 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 1900.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

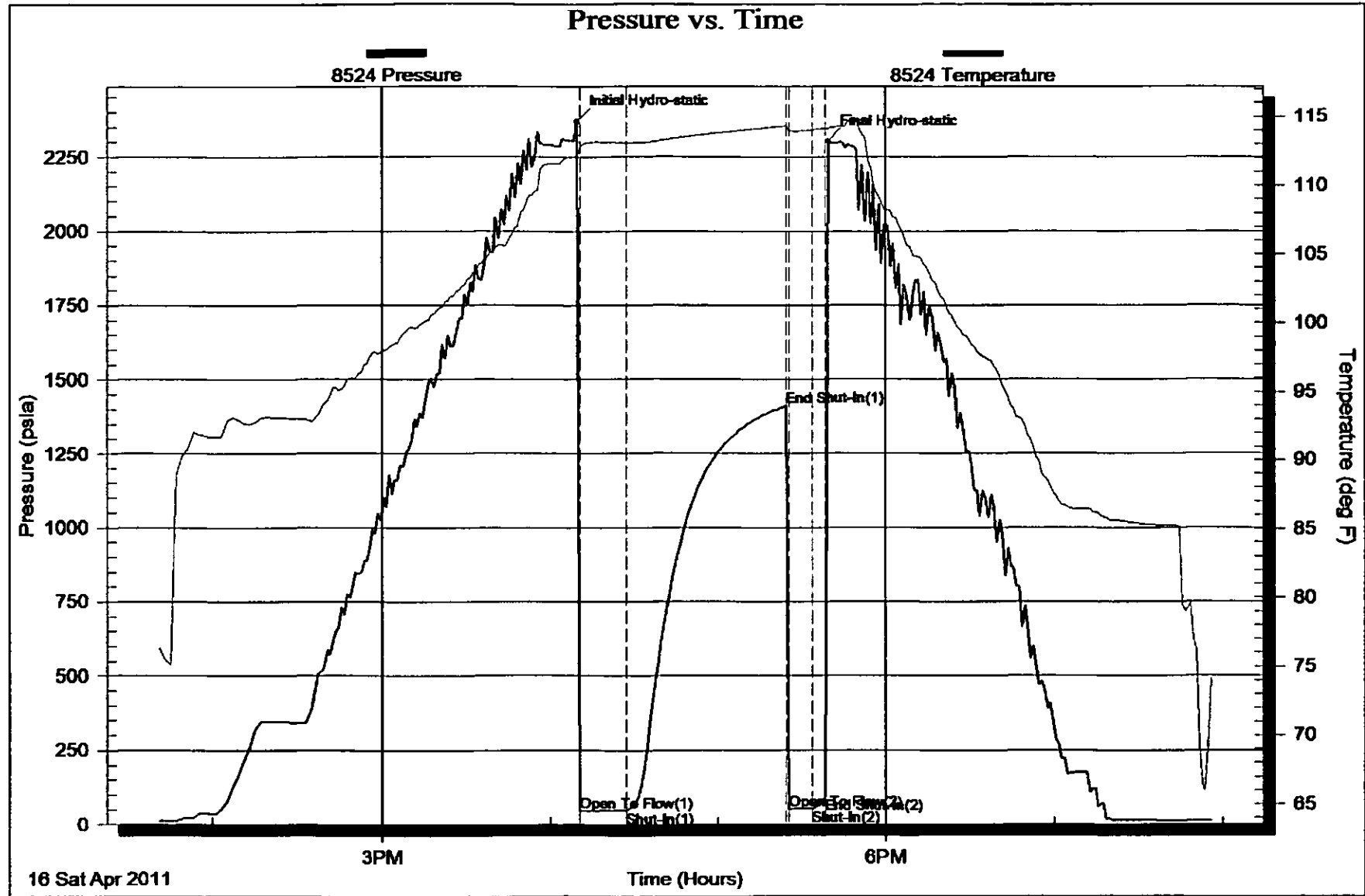
Length ft	Description	Volume bbl
5.00	MUD	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

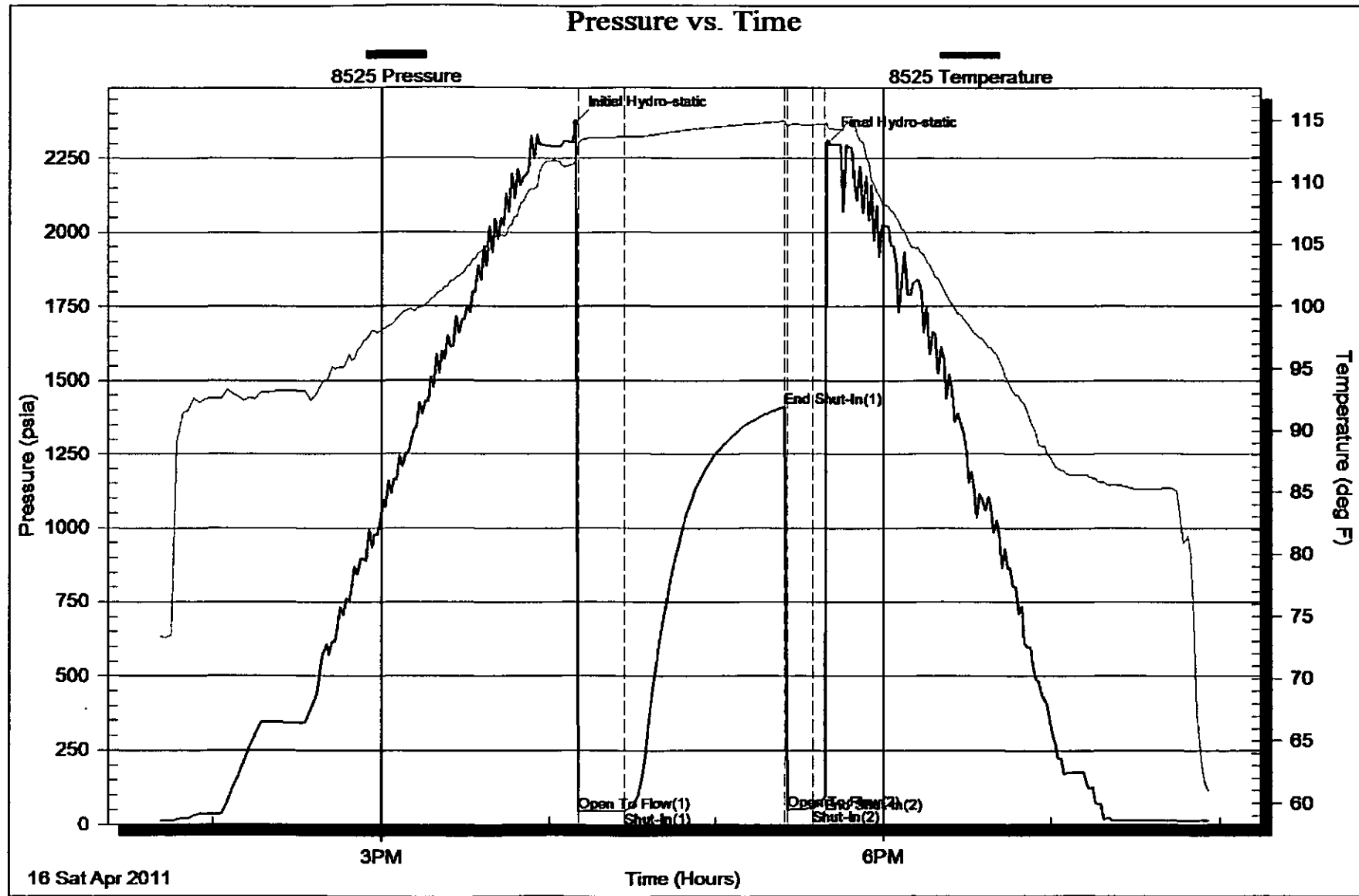
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

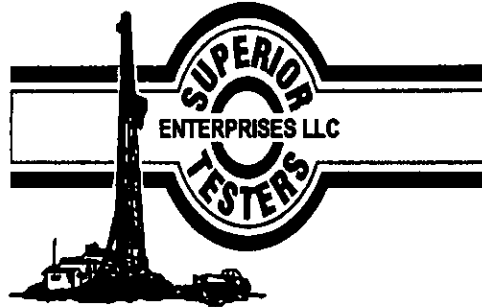
Recovery Comments: RUINED PACKER







16 Sat Apr 2011



## DRILL STEM TEST REPORT

Prepared For: **H & C OIL OPERATING INC**  
PO BOX 86 PLAINVILLE KS67663+0086

ATTN: KEITH REEVIS

**36-26S-28W GRAY**

**STRAWN #1-36**

Start Date: 2011.04.14 @ 10:00:00  
End Date: 2011.04.14 @ 17:56:00  
Job Ticket #: 16476                      DST #: 1

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

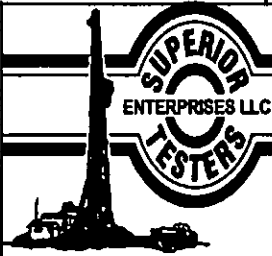
Printed: 2011.04.14 @ 18:14:09

RECEIVED

JUN 13 2011

KCC WICHITA

H & C OIL OPERATING INC  
STRAWN #1-36  
36-26S-28W GRAY  
DST # 1  
LANSING A  
2011.04.14



# DRILL STEM TEST REPORT

H & C OIL OPERATING INC  
 PO BOX 86 PLAINVILLE KS67663+0086  
 ATTN: KETH REEVIS

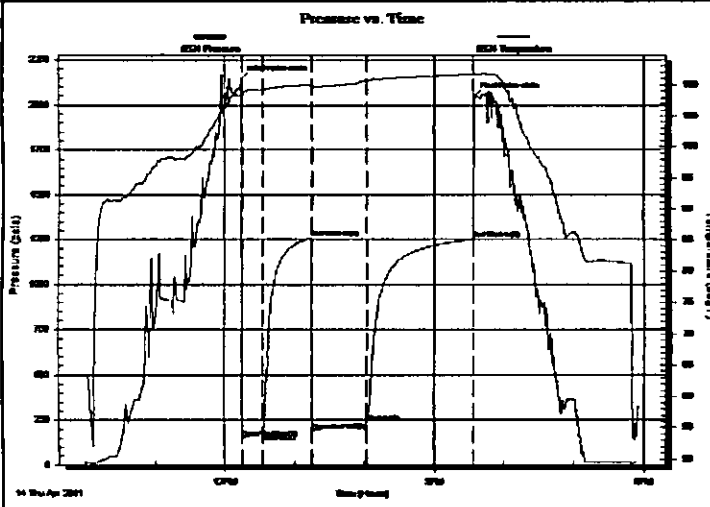
STRAWN #1-36  
 36-26S-28W GRAY  
 Job Ticket: 16476      DST#: 1  
 Test Start: 2011.04.14 @ 10:00:00

## GENERAL INFORMATION:

Formation: **LANSING A**  
 Deviated: No Whipstock      ft (KB)  
 Time Tool Opened: 12:15:00  
 Time Test Ended: 17:56:00  
 Interval: **4202.00 ft (KB) To 4262.00 ft (KB) (TVD)**  
 Total Depth: 4262.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: JARED SCHECK  
 Unit No: 33020-GB-  
 Reference Elevations: 2692.00 ft (KB)  
 2680.00 ft (CF)  
 KB to GR/CF: 12.00 ft

Serial #: 8524      Inside  
 Press@RunDepth: 237.59 psia @ 4258.00 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2011.04.14      End Date: 2011.04.14      Last Calib.: 2011.04.14  
 Start Time: 10:00:00      End Time: 17:56:00      Time On Btm: 2011.04.14 @ 12:14:30  
 Time Off Btm: 2011.04.14 @ 15:34:30

TEST COMMENT: 15/INITIAL OPEN:WEAK BUILDING BLOW BUILT 3 INCHES INTO WATER IN 15 MINUTES  
 45/INITIAL SHUT IN:NO BLOW BACK  
 45/FINAL OPEN:WEAK BUT BUILDING BLOW BUILT 2 INCHES INTO WATER IN 45 MINUTES  
 90/FINAL SHUT IN:NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2143.99	108.31	Initial Hydro-static
1	148.76	107.62	Open To Flow (1)
18	178.68	109.22	Shut-in(1)
60	1258.01	110.01	End Shut-in(1)
61	188.35	109.72	Open To Flow (2)
108	237.59	110.73	Shut-in(2)
199	1249.52	111.70	End Shut-in(2)
200	2044.96	111.85	Final Hydro-static

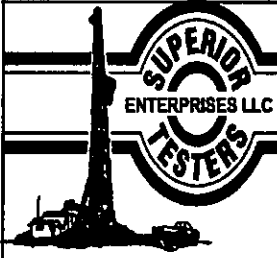
## Recovery

Length (ft)	Description	Volume (bbl)
380.00	MUD	1.87

## Gas Rates

Choke (Inches)	Pressure (psia)	Gas Rate (Mcf/d)





# DRILL STEM TEST REPORT

TOOL DIAGRAM

H & C OIL OPERATING INC  
 PO BOX 86 PLAINVILLE KS67663+0086  
 A T T N : K E I T H R E E V I S

STRAWN #1-36  
 36-26S-28W GRAY  
 Job Ticket: 16476      DST#: 1  
 Test Start: 2011.04.14 @ 10:00:00

### Tool Information

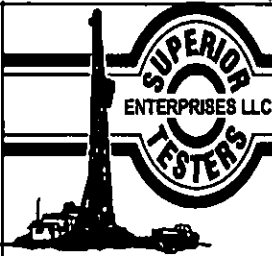
Drill Pipe:	Length: 3513.00 ft	Diameter: 3.80 inches	Volume: 49.28 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 690.00 ft	Diameter: 2.25 inches	Volume: 3.39 bbl	Weight to Pull Loose: 150000.0 lb
			<u>Total Volume: 52.67 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 90000.00 lb
Depth to Top Packer:	4202.00 ft			Final 90000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	89.00 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			4174.00	
Shut-In Tool	5.00			4179.00	
Hydraulic Tool	5.00			4184.00	
Jars	6.00			4190.00	
Safety Joint	2.00			4192.00	
Packer	5.00			4197.00	29.00      Bottom Of Top Packer
Packer	5.00			4202.00	
Change Over Sub	0.75			4202.75	
Drill Pipe	31.50			4234.25	
Change Over Sub	0.75			4235.00	
Perforations	22.00			4257.00	
Recorder	1.00	8524	Inside	4258.00	
Recorder	1.00	8525	Outside	4259.00	
Bullnose	3.00			4262.00	60.00      Bottom Packers & Anchor

**Total Tool Length: 89.00**



# DRILL STEM TEST REPORT

FLUID SUMMARY

H & C OIL OPERATING INC  
PO BOX 86 PLAINVILLE KS67663+0086  
ATTN: KEITH REEVIS

STRAWN #1-36  
36-26S-28W GRAY  
Job Ticket: 16476      DST#: 1  
Test Start: 2011.04.14 @ 10:00:00

## 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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3300.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
380.00	MUD	1.869

Total Length: 380.00 ft      Total Volume: 1.869 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

