



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1092350  
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: \_\_\_\_\_

1092350

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
--	---

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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**#1 Simon 13CD**  
982' FSL & 2240' FEL  
8' N & 70' E of NW SW SE Section 13-27S-24W  
Ford County, Kansas  
API# 15-057-20803-0000  
Elevation: 2447' GL, 2458' KB

Sample Tops			Ref. Well
Anhydrite	1463'	+995	+5
B/Anhydrite	1504'	+954	+4
Stotler	3484'	-1026	-4
Heebner	4151'	-1693	-9
Lansing	4270'	-1812	-6
Muncie	4448'	-1990	-2
Stark Shale	4576'	-2018	-1
Hush	4624'	-2166	-4
BKC	4655'	-2197	-1
Marmaton	4712'	-2254	-3
Altamont	4730'	-2272	flat
Pawnee	4786'	-2328	+4
Cherokee Shale	4840'	-2382	-2
Huck	4920'	-2462	+6
Atoka Shale	4933'	-2475	+5
Mississippian	4968'	-2510	+16
RTD	5110'	-2652	



# ALLIED OIL & GAS SERVICES, LLC 054076

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Geest Bend  
Medicine Lodge

DATE <u>5-8-12</u>	SEC. <u>13</u>	TWP. <u>27S</u>	RANGE <u>24W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Simmons</u> WELL # <u>13-CD1</u> LOCATION <u>At Dodge to Rd 117, 2 S, E 1/4</u>				COUNTY <u>Franklin</u>	STATE <u>Ks</u>		
OLD OR NEW? (Circle one)							

CONTRACTOR Murfin 22  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 354  
 CASING SIZE 9 5/8 DEPTH 338.33  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT 20'  
 CEMENT LEFT IN CSG. 20'  
 PERFS.  
 DISPLACEMENT 21.25

OWNER Ritchie Exploration  
 CEMENT AMOUNT ORDERED 200sx A + 3% cement gel  
 COMMON Class A 200 @ 16.25 3,250.00  
 POZMIX @  
 GEL 4 @ 21.25 85.00  
 CHLORIDE 7 @ 58.20 407.40  
 ASC @  
 HANDLING 211 @ 2.25 474.75  
 MILEAGE 211 x .11 x 40 928.40  
 TOTAL 5,145.55

EQUIPMENT  
 PUMP TRUCK CEMENTER Ron G  
 # 366 HELPER Kenny R.  
 BULK TRUCK  
 # 878 DRIVER Kevin E. } G.B.  
 BULK TRUCK  
 # DRIVER

REMARKS:  
Pipe on Bottom Break Circulation  
Pump 3bbls Ahead  
Pump 200sx A + 3% cement gel  
start Displacement Wash  
Up Truck Shut in  
Cement did Circulate

CHARGE TO: Ritchie Exploration  
 STREET  
 CITY STATE ZIP

SERVICE  
 DEPTH OF JOB 354'  
 PUMP TRUCK CHARGE 1,125.00  
 EXTRA FOOTAGE 54 @ .95 51.30  
 MILEAGE 40 @ 7.00 280.00  
 MANIFOLD @  
 Light Veh 40 @ 4.00 160  
 TOTAL 1616.30

PLUG & FLOAT EQUIPMENT  
 None @  
 @  
 @  
 @  
 @  
 TOTAL

To: Allied Oil & Gas Services, 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 Kelly Wilson  
 SIGNATURE Kelly Wilson

SALES TAX (if Any)  
 TOTAL CHARGES 16,761.85  
 DISCOUNT IF PAID IN 30 DAYS

*Simon 13051*

# ALLIED OIL & GAS SERVICES, LLC 053609

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

*61 east bentley 105  
5-17-12*

DATE <i>5-16-12</i>	SEC. <i>13</i>	TWP. <i>27S</i>	RANGE <i>24W</i>	CALLED OUT	ON LOCATION	JOB START <i>1:00 AM</i>	JOB FINISH <i>2:30 AM</i>
LEASE <i>Simon 13051</i>	WELL# <i>1</i>	LOCATION <i>Hwy 400 + rd 117 45</i>		COUNTY <i>Ford</i>	STATE <i>Kan 6765</i>		
OLD OR NEW (Circle one)			<i>2 E into</i>				

CONTRACTOR *Murfin Drilling Rig # 22* OWNER

TYPE OF JOB <i>Rotary Plug</i>	T.D.
HOLE SIZE <i>12 1/4</i>	DEPTH
CASING SIZE <i>4 5/8</i>	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE <i>4 1/2</i>	DEPTH <i>1500</i>
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <i>A11</i>	
PERFS.	
DISPLACEMENT <i>Freshwater</i>	
EQUIPMENT	

CEMENT  
AMOUNT ORDERED *250 yds 60% class A  
40 yds 2 4 1/2 gel 1/4 Flu-seal*

COMMON <i>150</i>	@ <i>16.25</i>	<i>2,437.50</i>
POZMIX <i>100</i>	@ <i>8.50</i>	<i>850.00</i>
GEL <i>8</i>	@ <i>21.25</i>	<i>170.00</i>
CHLORIDE	@	
ASC	@	
<i>Flu-seal 62</i>	@ <i>2.70</i>	<i>167.40</i>
	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING <i>286.46</i>	@ <i>2.10</i>	<i>563.76</i>
MILEAGE <i>11.21 x 40</i>	@ <i>2.35</i>	<i>1053.79</i>
		TOTAL <i>5,242.40</i>

PUMP TRUCK CEMENTER <i>Dustin C</i>	
# <i>393</i>	HELPER <i>Kelly R</i>
BULK TRUCK	
# <i>344/170</i>	DRIVER <i>Kevin W</i>
BULK TRUCK	
#	DRIVER

REMARKS:

<i>Pipe on bottom fill hole with Rig mud</i>	
<i>1 1/2 1500 50 yds</i>	
<i>2 MD 930 40 yds</i>	
<i>3 1/2 380 50 yds</i>	
<i>4 1/2 60 20 yds</i>	
<i>RH 30 yds</i>	
<i>1 1/2 20 yds</i>	
<i>Plug down 2 1/2 AL</i>	

SERVICE

DEPTH OF JOB <i>1500</i>	
PUMP TRUCK CHARGE	<i>1,250.00</i>
EXTRA FOOTAGE	@
MILEAGE <i>HUM 40</i>	@ <i>7.00</i> <i>280.00</i>
MANIFOLD	@
<i>hum 40</i>	@ <i>4.00</i> <i>160.00</i>
	@

TOTAL *1690.00*

CHARGE TO: *Ritchie Exploration, INC.*  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL \_\_\_\_\_

To: Allied Oil & Gas Services, 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.

SALES TAX (If Any)	
TOTAL CHARGES <i>6,932.40</i>	
<i>75%</i> DISCOUNT <i>1,733.10</i>	
	TOTAL <i>5,199.30</i>

PRINTED NAME *X Kelly Wilson*  
SIGNATURE *X Kelly Wilson*  
*Thank You!!*



## DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Incorporated**

PO Box 783188  
8011 East 22ND Street North  
#700

ATTN: Mike Engelbrecht

**Simon 13CD #1**

**13/27S/24W/Ford**

Start Date: 2012.05.13 @ 13:45:00

End Date: 2012.05.13 @ 21:31:30

Job Ticket #: 17638                      DST #: 1

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

Printed: 2012.05.13 @ 22:02:53



# DRILL STEM TEST REPORT

Ritchie Exploration Incorporated

13/27S/24W/Ford

PO Box 783188  
8011 East 22ND Street North  
#700  
ATTN: Mike Engelbrecht

Simon 13CD #1

Job Ticket: 17638

DST#: 1

Test Start: 2012.05.13 @ 13:45:00

## GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:08:30

Time Test Ended: 21:31:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend

Interval: **4778.00 ft (KB) To 4810.00 ft (KB) (TVD)**

Reference Elevations: 2458.00 ft (KB)

Total Depth: 4810.00 ft (KB) (TVD)

2447.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: **8400**

Inside

Press @ Run Depth: 246.03 psia @ 4806.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.05.13

End Date: 2012.05.13

Last Calib.: 2012.05.13

Start Time: 13:45:00

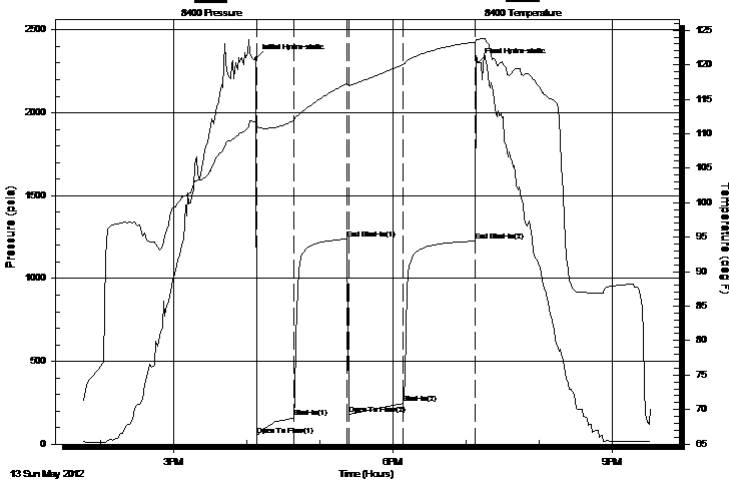
End Time: 21:31:30

Time On Btm: 2012.05.13 @ 16:07:30

Time Off Btm: 2012.05.13 @ 19:09:30

TEST COMMENT: 1ST Open 30 Minutes/Good blow /Blow to bottom of bucket in 13 1/2 minutes  
1ST Shut In 45 Minutes/Blow back built to 5 inches  
2ND Open 45 Minutes/Good blow /Blow to bottom of bucket in 14 1/2 minutes  
2ND Shut In 60 Minutes/Blow back built to bottom of bucket in 23 minutes

## PRESSURE SUMMARY



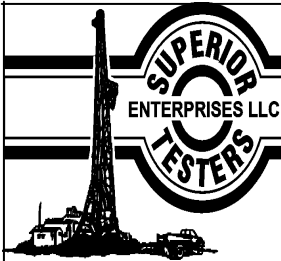
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2327.23	111.70	Initial Hydro-static
1	53.36	110.99	Open To Flow (1)
31	160.27	111.99	Shut-In(1)
75	1239.43	117.29	End Shut-In(1)
76	177.52	116.97	Open To Flow (2)
121	246.03	120.09	Shut-In(2)
180	1225.92	123.29	End Shut-In(2)
183	2304.29	123.65	Final Hydro-static

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
0.00	Gas in pipe/ Gas 100%	0.00
75.00	Slightly Gassy Muddy Watery Oil	0.37
0.00	Gas 5% Mud 25% Water 25% Oil 45%	0.00
360.00	Slightly oil cut Muddy Water	3.66
0.00	Oil 2% Mud 10% Water 88%	0.00
0.00	Recovery Chlorides 105,000 ppm	0.00

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



# DRILL STEM TEST REPORT

Ritchie Exploration Incorporated

**13/27S/24W/Ford**

PO Box 783188  
8011 East 22ND Street North  
#700  
ATTN: Mike Engelbrecht

**Simon 13CD #1**

Job Ticket: 17638

**DST#: 1**

Test Start: 2012.05.13 @ 13:45:00

## GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:08:30

Time Test Ended: 21:31:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend

**Interval: 4778.00 ft (KB) To 4810.00 ft (KB) (TVD)**

Reference Elevations: 2458.00 ft (KB)

Total Depth: 4810.00 ft (KB) (TVD)

2447.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 8405 Outside**

Press @ Run Depth: 1224.89 psia @ 4807.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.05.13

End Date: 2012.05.13

Last Calib.: 2012.05.13

Start Time: 13:45:00

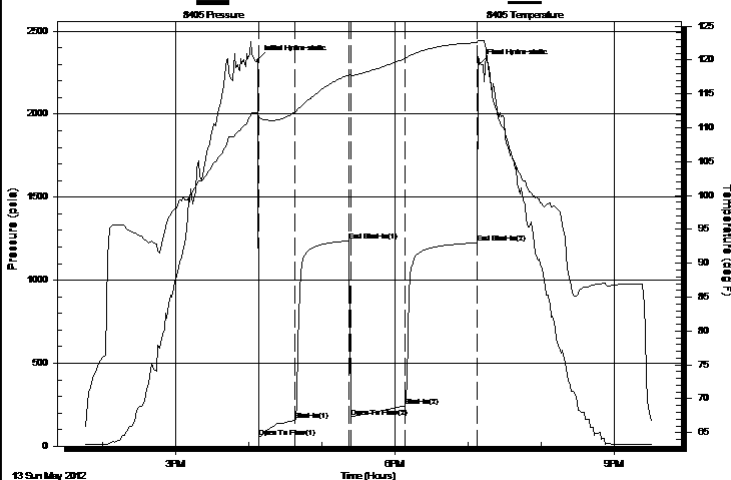
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1ST Shut In 45 Minutes/Blow back built to 5 inches  
2ND Open 45 Minutes/Good blow /Blow to bottom of bucket in 14 1/2 minutes  
2ND Shut In 60 Minutes/Blow back built to bottom of bucket in 23 minutes

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2325.57	112.23	Initial Hydro-static
1	51.14	111.50	Open To Flow (1)
31	157.57	112.34	Shut-In(1)
75	1237.89	117.83	End Shut-In(1)
76	174.06	117.65	Open To Flow (2)
121	242.72	120.23	Shut-In(2)
180	1224.89	122.54	End Shut-In(2)
182	2302.66	122.84	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	Gas in pipe/ Gas 100%	0.00
75.00	Slightly Gassy Muddy Watery Oil	0.37
0.00	Gas 5% Mud 25% Water 25% Oil 45%	0.00
360.00	Slightly oil cut Muddy Water	3.66
0.00	Oil 2% Mud 10% Water 88%	0.00
0.00	Recovery Chlorides 105,000 ppm	0.00

## Gas Rates

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





# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Ritchie Exploration Incorporated

**13/27S/24W/Ford**

PO Box 783188  
 8011 East 22ND Street North  
 #700  
 ATTN: Mike Engelbrecht

**Simon 13CD #1**

Job Ticket: 17638

**DST#: 1**

Test Start: 2012.05.13 @ 13:45:00

**Tool Information**

Drill Pipe:	Length: 4542.00 ft	Diameter: 3.88 inches	Volume: 66.42 bbl	Tool Weight:	2000.00 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: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 67.60 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	75000.00 lb
Depth to Top Packer:	4778.00 ft			Final	77000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	59.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			4756.00	
Hydraulic Tool	5.00			4761.00	
Jars	5.00			4766.00	
Safety Joint	2.00			4768.00	
Packer	5.00			4773.00	27.00 Bottom Of Top Packer
Packer	5.00			4778.00	
Anchor	27.00			4805.00	
Recorder	1.00	8400	Inside	4806.00	
Recorder	1.00	8405	Outside	4807.00	
Bullnose	3.00			4810.00	32.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>59.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Ritchie Exploration Incorporated

**13/27S/24W/Ford**

PO Box 783188  
 8011 East 22ND Street North  
 #700  
 A TTN: Mike Engelbrecht

**Simon 13CD #1**

Job Ticket: 17638

**DST#: 1**

Test Start: 2012.05.13 @ 13:45:00

### Mud and Cushion Information

Mud Type: Gel Chem  
 Mud Weight: 9.00 lb/gal  
 Viscosity: 52.00 sec/qt  
 Water Loss: 9.59 in<sup>3</sup>  
 Resistivity: ohm.m  
 Salinity: 7700.00 ppm  
 Filter Cake: 1.00 inches

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

Oil API: deg API  
 Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	Gas in pipe/ Gas 100%	0.000
75.00	Slightly Gassy Muddy Watery Oil	0.369
0.00	Gas 5% Mud 25% Water 25% Oil 45%	0.000
360.00	Slightly oil cut Muddy Water	3.663
0.00	Oil 2% Mud 10% Water 88%	0.000
0.00	Recovery Chlorides 105,000 ppm	0.000
0.00	Rec. Resist. .1 ohms @ 78 degrees	0.000

Total Length: 435.00 ft      Total Volume: 4.032 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

Serial #: 8400

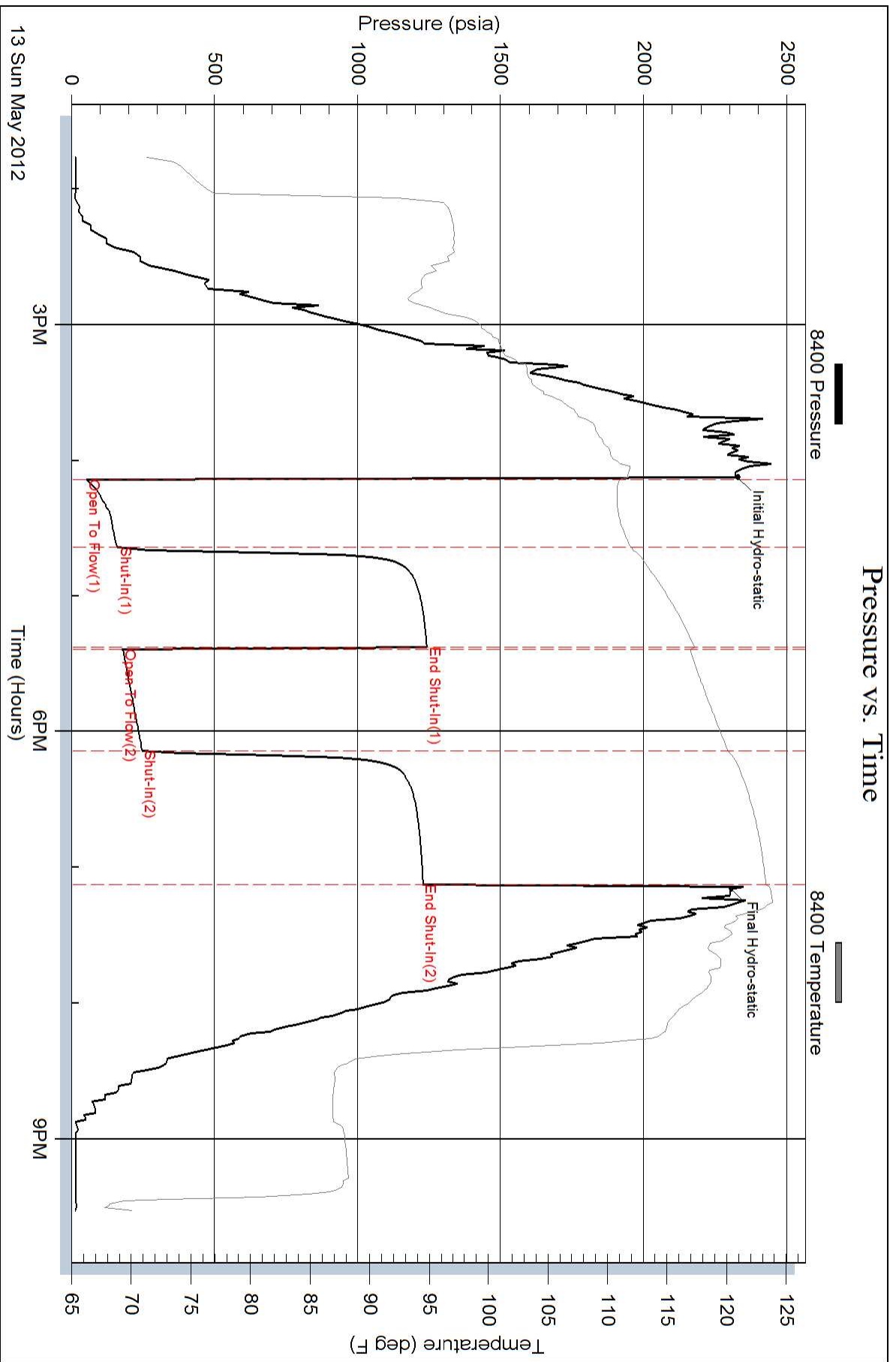
Inside

Richie Exploration Incorporated

Simon 13CD #1

DST Test Number: 1

### Pressure vs. Time



Superior Testers Enterprises LLC

Ref. No: 17638

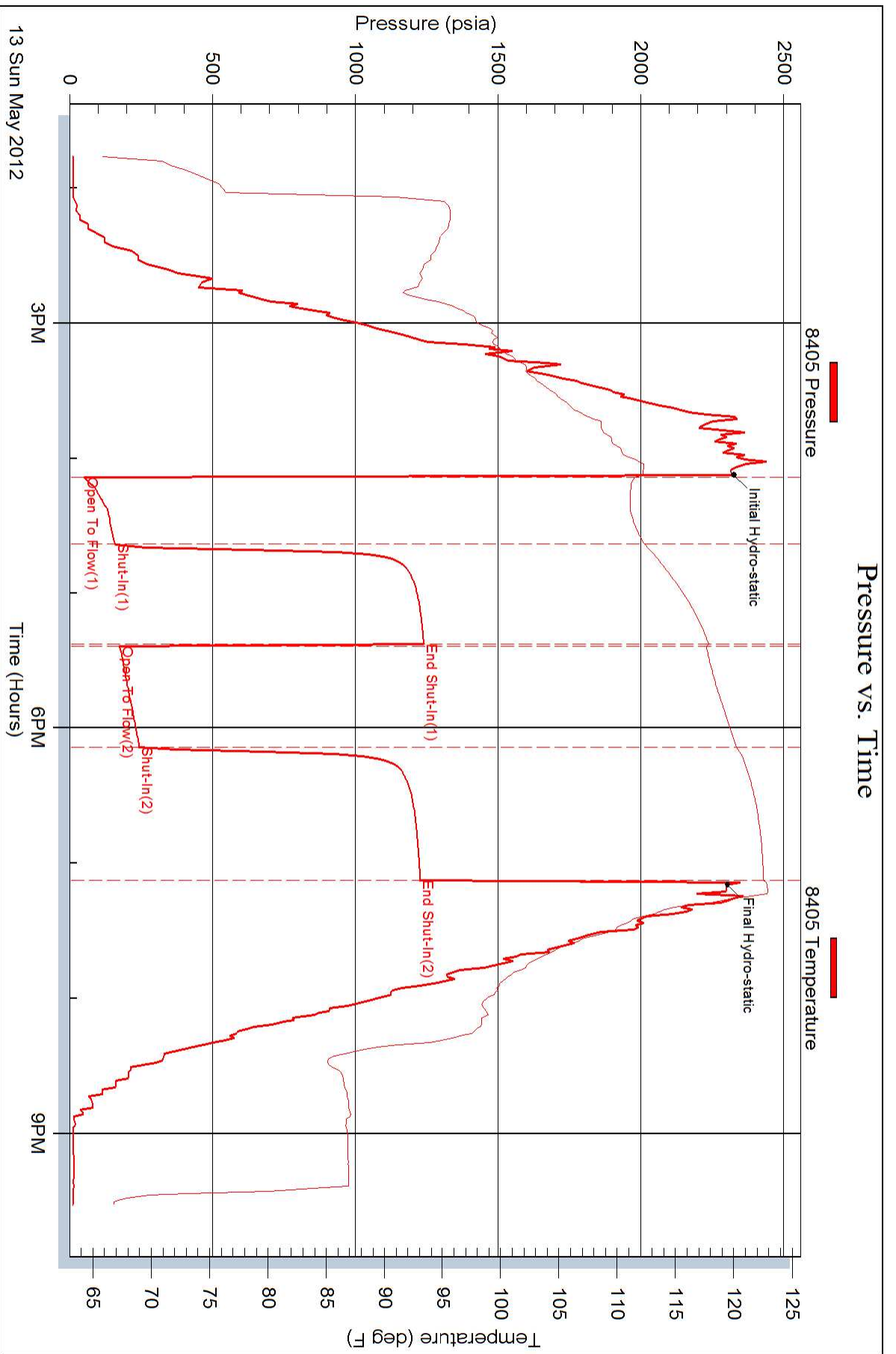
Printed: 2012.05.13 @ 22:02:53

Serial #: 8405

Outside Ritchie Exploration Incorporated

Simon 13CD #1

DST Test Number: 1



Superior Testers Enterprises LLC

Ref. No: 17638

Printed: 2012.05.13 @ 22:02:54

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

August 30, 2012

John Niernberger  
Ritchie Exploration, Inc.  
8100 E 22ND ST N # 700  
BOX 783188  
WICHITA, KS 67278-3188

Re: ACO1  
API 15-057-20803-00-00  
Simon 13CD 1  
SE/4 Sec.13-27S-24W  
Ford County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
John Niernberger

