

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**

OPERATOR: License # 32278  
Name: Tengasco, Inc.  
Address 1: PO Box 458  
Address 2: 1327 MooseRd  
City: Hays State: KS Zip: 67601 + 9744  
Contact Person: Gary Wagner  
Phone: ( 785 ) 625-6374  
CONTRACTOR: License # 33793  
Name: H2 Drilling LLC  
Wellsite Geologist: Mike Bair  
Purchaser: NCRA

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  
 Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_

3-7-12	3-14-12	4-19-12
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 195-22752-00-00

Spot Description: \_\_\_\_\_  
NE SW NW NW Sec. 23 Twp. 15 S. R. 25  East  West  
775 Feet from  North /  South Line of Section  
520 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE  NW  SE  SW

County: Trego

Lease Name: Albers Well #: 4

Field Name: Good Science NE

Producing Formation: Mississippi

Elevation: Ground: 2485 Kelly Bushing: 2494

Total Depth: 4640 Plug Back Total Depth: 4595

Amount of Surface Pipe Set and Cemented at: 267 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: 1960' Feet

If Alternate II completion, cement circulated from: 1960'

feet depth to: surface w/ 200 sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: 49000 ppm Fluid volume: 150 bbls

Dewatering method used: Hauled to SWD

Location of fluid disposal if hauled offsite:

Operator Name: Tengasco, Inc.

Lease Name: Albers License #: 32278

Quarter NW Sec. 23 Twp. 15 S. R. 25  East  West

County: Trego Permit #: D-30,584

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**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 apply. 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: Gary Wagner  
Title: Production Manager Date: 5-14-12

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Dlg Date: 5/22/12

Operator Name: Tengasco, Inc. Lease Name: Albers Well #: 4  
 Sec. 23 Twp. 15 S. R. 25  East  West County: Trego

**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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>Array Comp Resistivity, Micro, Spectral Density, Sonic</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Anhydrite</td> <td>1940</td> <td>+554</td> </tr> <tr> <td>Heebner</td> <td>3808</td> <td>-1314</td> </tr> <tr> <td>Lansing</td> <td>3847</td> <td>-1353</td> </tr> <tr> <td>BKC</td> <td>4144</td> <td>-1650</td> </tr> <tr> <td>Ft Scott</td> <td>4348</td> <td>-1854</td> </tr> <tr> <td>Cherokee</td> <td>4372</td> <td>-1878</td> </tr> <tr> <td>Miss Dolo</td> <td>4440</td> <td>-1946</td> </tr> </table>	Name	Top	Datum	Anhydrite	1940	+554	Heebner	3808	-1314	Lansing	3847	-1353	BKC	4144	-1650	Ft Scott	4348	-1854	Cherokee	4372	-1878	Miss Dolo	4440	-1946
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Ft Scott	4348	-1854																							
Cherokee	4372	-1878																							
Miss Dolo	4440	-1946																							

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#	267'	Com	170	3% CC 2% Gel
Production	7-7/8"	5-1/2"	14#	4638'	ASC	150	10% Salt 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 checked="" type="checkbox"/> Plug Back TD <input checked="" type="checkbox"/> Plug Off Zone	4440-46'	Com	50	

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
6	4440-46'	300 gal 15% MA, 50 sx Com cmt	
6	4440-46'	1000 gal 15% NeFe	

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TUBING RECORD: Size: <u>2-7/8"</u> Set At: <u>4573'</u> Packer At: <u>N/A</u> Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No											
Date of First, Resumed Production, SWD or ENHR. <u>4-25-12</u>	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	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%;">Oil Bbbs.</td> <td style="width:15%;">Gas Mcf</td> <td style="width:15%;">Water Bbbs.</td> <td style="width:15%;">Gas-Oil Ratio</td> <td style="width:15%;">Gravity</td> </tr> <tr> <td style="text-align: center;">29</td> <td></td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> </table>	Oil Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity	29		0		
Oil Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity							
29		0									

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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>Mississippi 4440-46'</u>
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# ALLIED OIL & GAS SERVICES, LLC 056351

TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

Russell Ks.

DATE <u>3-7-2012</u>	SEC. <u>23</u>	TWP. <u>15</u>	RANGE <u>25</u>	CALLED OUT	ON LOCATION	JOB START <u>4:30 PM</u>	JOB FINISH <u>5:00 PM</u>
LEASE <u>ALBERS</u>	WELL# <u>4</u>	LOCATION <u>Wakeeney Ks. 20 S 9 W</u>			COUNTY <u>Trego</u>	STATE <u>KANSAS</u>	
OLD OR <u>NEW</u> (Circle one)		<u>1 N 3/4 W 1/4 S</u>					

CONTRACTOR <u>H2 Dalg. Rig #3</u>	OWNER
TYPE OF JOB <u>Cement Surface</u>	CEMENT
HOLE SIZE <u>12 1/4</u>	T.D. <u>270'</u>
CASING SIZE <u>8 5/8 New</u>	DEPTH <u>267'</u>
TUBING SIZE <u>2 1/2" CSG.</u>	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX <u>300#</u>	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS.	
DISPLACEMENT <u>16 1/4 BBL</u>	
EQUIPMENT	
PUMP TRUCK CEMENTER <u>Coleen</u>	
# <u>417</u> HELPER <u>Woody - ROBERT</u>	
BULK TRUCK	
# <u>481</u> DRIVER <u>Ron</u>	
BULK TRUCK	
#	
HANDLING <u>179 Total sx @ 2.25</u>	<u>402.75</u>
MILEAGE <u>88 Ton Mile @ 114</u>	<u>1732.72</u>
TOTAL	<u>5310.92</u>

REMARKS:

Ran 6 New ITS of 8 5/8 2 1/2" CSG.  
Set @ 267', Received Circulation  
Cement w/ 170 sx Conn 3% acc. 2% gel  
Displaced 16 1/4 BBL/H<sub>2</sub>O + Shut  
IN @ 300#  
Cement DID CIRCULATE  
TO SURFACE

SERVICE

DEPTH OF JOB <u>0-300'</u>	
PUMP TRUCK CHARGE	<u>1125.00</u>
EXTRA FOOTAGE @	
MILEAGE <u>88 HV MT @ 7.00</u>	<u>616.00</u>
MANIFOLD @	
<u>88 LV MT @ 4.00</u>	<u>352.00</u>
TOTAL	<u>2093.00</u>

CHARGE TO: TENGASCO Inc.  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL		<u>0</u>

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) <u>215.93</u>	
TOTAL CHARGES <u>7403.92</u>	
DISCOUNT <u>20/70</u>	IF PAID IN 30 DAYS
<u>2831.14</u>	

PRINTED NAME KEITH KARLIN  
SIGNATURE Keith Karlin

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# ALLIED OIL & GAS SERVICES, LLC 056925

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

SERVICE POINT: Russell K3

DATE <u>5-15-12</u>	SEC <u>2B</u>	TWP <u>15s</u>	RANGE <u>25w</u>	CALLED OUT	ON LOCATION	JOB START <u>2:30</u>	JOB FINISH <u>3:30</u>
LEASE <u>Allegiance</u>	WELL # <u>H</u>	LOCATION <u>Walceney, 20s, 9w</u>			COUNTY <u>Trego</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>				<u>1st 3/4 w 2.125</u>			

CONTRACTOR <u>H2 Drilling Rig #3</u>	OWNER
TYPE OF JOB <u>PTC Port Cellar</u>	
HOLE SIZE <u>T.D. 4640</u>	CEMENT
CASING SIZE <u>DEPTH 4641.17</u>	AMOUNT ORDERED <u>182.2k ASC</u>
TUBING SIZE <u>DEPTH</u>	
DRILL PIPE <u>DEPTH</u>	
TOOL <u>PTC 4640</u>	
PRES. MAX <u>MINIMUM</u>	
MEAS. LINE <u>SHOE JOINT 42.41</u>	
CEMENT LEFT IN CSG. <u>42.41</u>	
PERFS.	
DISPLACEMENT <u>112.21 w1</u>	
EQUIPMENT	
PUMP TRUCK CEMENTER <u>Ted, Bob</u>	
# <u>419</u> HELPER <u>Tracy</u>	
BULK TRUCK	
# <u>473</u> DRIVER <u>Chris</u>	
BULK TRUCK	
# DRIVER	

COMMON	<u>180</u>	@	<u>16.25</u>	<u>2925.00</u>
POZMIX		@		
GEL	<u>4</u>	@	<u>21.25</u>	<u>85.00</u>
CHLORIDE		@		
ASC		@		
Salt	<u>20</u>	@	<u>23.95</u>	<u>479.00</u>
GYP	<u>21</u>	@	<u>34.20</u>	<u>718.20</u>
Super Chlor	<u>502 gal</u>	@	<u>1.27</u>	<u>635.54</u>
HANDLING	<u>225</u>	@	<u>2.25</u>	<u>506.25</u>
MILEAGE	<u>225 x 2.25 x .11</u>			<u>551.25</u>
TOTAL				<u>7526.25</u>

REMARKS:  
run 111 minutes, circulate 1 Hr, mixed  
500 gal mud loss, 20 gal in Port Cellar  
150 gal mixed, washed clean  
Dis placed 113 gal in 1100'  
released plug  
plug landed @ 300'

SERVICE				
DEPTH OF JOB	<u>4638'</u>			
PUMP TRUCK CHARGE				<u>2,405.00</u>
EXTRA FOOTAGE		@		
MILEAGE MTRV BB	<u>700</u>	@	<u>7.00</u>	<u>4900.00</u>
MANIFOLD		@		
<u>MILV BB</u>	<u>400</u>	@	<u>4.00</u>	<u>1600.00</u>
TOTAL				<u>3,373.00</u>

CHARGE TO: Tengasco Inc  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

<u>Dr. Centralizers</u>	<u>6</u>	@	<u>34.00</u>	<u>204.00</u>
<u>pk Bucket</u>	<u>3</u>	@	<u>236.00</u>	<u>708.00</u>
<u>pk Portcellar</u>		@		<u>1820.00</u>
<u>sk Guide Stick</u>		@	<u>16.00</u>	<u>16.00</u>
<u>sk AFD Insult</u>		@	<u>284.00</u>	<u>284.00</u>
<u>sk 1st ndry Plug</u>	<u>31</u>			<u>31.00</u>
TOTAL				<u>3,235.00</u>

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 KEITH KARLIN  
 SIGNATURE Keith Karlin

SALES TAX (If Any) 549.24  
 TOTAL CHARGES 14,134.45  
 DISCOUNT 20/70 4399.89 IF PAID IN 30 DAYS

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# ALLIED OIL & GAS SERVICES, LLC 056371

TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Russell Ks,

DATE <u>3-29-2012</u>	SEC. <u>23</u>	TWP. <u>15</u>	RANGE <u>25</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30 AM</u>	JOB FINISH <u>12:00 PM</u>
LEASE <u>ALBERS</u>		WELL # <u>4</u>	LOCATION <u>Wakeaway Ks, 20 S 9w 1N 34w</u>		COUNTY <u>Trego</u>	STATE <u>KANSAS</u>	
OLD OR (NEW) (Circle one)							

CONTRACTOR Fisher Well Service (Francis) OWNER

TYPE OF JOB Squeeze Pack (Cement Retainer)

HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_ CEMENT  
AMOUNT ORDERED 50 SX Comm.

CASING SIZE 5 1/2 DEPTH \_\_\_\_\_  
TUBING SIZE 2 7/8 DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH Clark G.  
TOOL X-Part Oil Tools DEPTH 4433 Cement Retainer

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_ COMMON 50 @ 16.25 812.50

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_ POZMIX \_\_\_\_\_ @ \_\_\_\_\_

CEMENT LEFT IN CSG. 7' GEL \_\_\_\_\_ @ \_\_\_\_\_

PERFS. @ 4440' CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_

DISPLACEMENT T=25.70 C.17 ASC \_\_\_\_\_ @ \_\_\_\_\_

EQUIPMENT

PUMP TRUCK CEMENTER Gleason

# 412 HELPER Woody O. Robert Y.

BULK TRUCK DRIVER Ron B.

BULK TRUCK DRIVER \_\_\_\_\_

HANDLING <u>50 Ton SX</u>	@ <u>2.25</u>	<u>344.00</u>
MILEAGE <u>88 Ton Mile</u>	@ <u>11¢</u>	<u>484.00</u>
		TOTAL <u>1640.50</u>

REMARKS:

Cement  
Set Retainer @ 4433' (perf @ 4440')  
Test tools to 2000# (held) string into  
Retainer & take Injection Rate of 2 BPM/1000#  
Shut Backside in @ 500# mixed 50 SX Comm.  
& Displaced a total of 240 BBL (1 BBL)  
left in tubing. Pull out of Retainer,  
flush clean short way (36 RBV),  
had 1200# pressure when wire pulled out  
of Retainer } THANKS

SERVICE

DEPTH OF JOB <u>4433</u>		
PUMP TRUCK CHARGE		<u>2405.00</u>
EXTRA FOOTAGE	@	
MILEAGE <u>88 HV MI</u>	@ <u>2.00</u>	<u>616.00</u>
MANIFOLD <u>YES</u>	@ <u>250.00</u>	<u>NC-</u>
<u>88 LV/MI</u>	@ <u>4.00</u>	<u>352.00</u>
		TOTAL <u>3373.00</u>

CHARGE TO: Tengasco Inc.  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

~~2300~~  
~~1000~~  
~~1000~~  
~~1000~~  
~~1000~~  
TOTAL 3373.00  
PLUG & FLOAT EQUIPMENT

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 \_\_\_\_\_

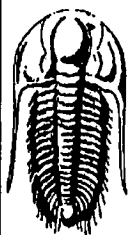
SIGNATURE Sandy Wagner

TOTAL \_\_\_\_\_  
SALES TAX (if Any) 55.25  
TOTAL CHARGES 5013.50

DISCOUNT 20/70 1728.70 IF PAID IN 30 DAYS

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**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Tengasco inc.  
1327 Noose rd.  
PO Box 458  
Hays, Ks. 67601  
ATTN: Mike Bair

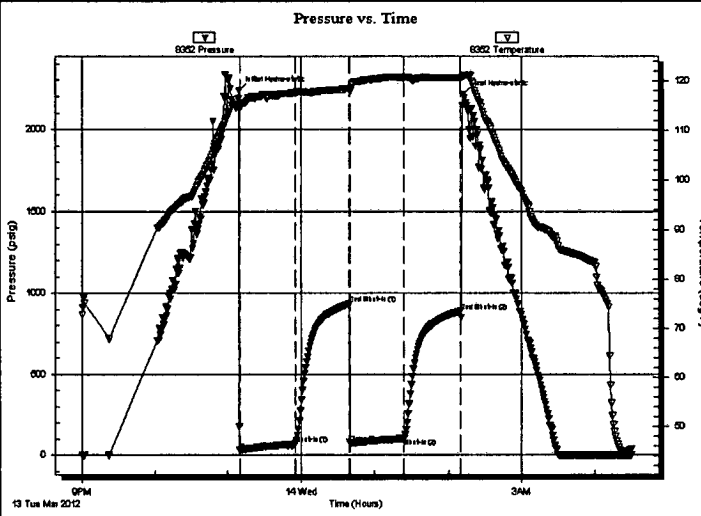
**23-15s-25w Trego**  
**Albers #4**  
Job Ticket: 46812      **DST#: 3**  
Test Start: 2012.03.13 @ 21:00:05

## GENERAL INFORMATION:

Formation: **Mississippi**  
Deviated: No Whipstock:      ft (KB)  
Time Tool Opened: 23:09:50  
Time Test Ended: 04:29:59  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Andy Carreira  
Unit No: 39  
Interval: **4412.00 ft (KB) To 4466.00 ft (KB) (TVD)**  
Reference Elevations: 2494.00 ft (KB)  
Total Depth: 4466.00 ft (KB) (TVD)  
2485.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Poor      KB to GR/CF: 9.00 ft

**Serial #: 8352      Outside**  
Press@RunDepth: 101.96 psig @ 4416.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2012.03.13      End Date: 2012.03.14      Last Calib.: 2012.03.14  
Start Time: 21:00:05      End Time: 04:29:59      Time On Btm: 2012.03.13 @ 23:09:10  
Time Off Btm: 2012.03.14 @ 02:12:09

**TEST COMMENT:** IF:(45min) 1" Blow  
ISl:(45min) No Return  
FF:(45min) Surface Blow  
FSl:(45min) No Return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2236.42	115.52	Initial Hydro-static
1	27.97	114.85	Open To Flow (1)
46	68.60	117.66	Shut-In(1)
91	933.07	118.44	End Shut-In(1)
91	75.89	118.14	Open To Flow (2)
135	101.96	120.76	Shut-In(2)
181	888.42	120.69	End Shut-In(2)
183	2211.66	120.95	Final Hydro-static

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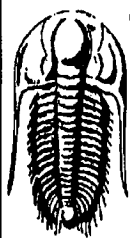
## Recovery

Length (ft)	Description	Volume (bbl)
100.00	OCGM g=10% o=10% m=80%	0.49
90.00	GO g=10% o=90%	0.44
0.00	GIP=110ft	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Tengasco inc.  
1327 Noose rd.  
PO Box 458  
Hays, Ks. 67601  
ATTN: Mike Bair

**23-15s-25w Trego**  
**Albers #4**  
Job Ticket: 46812      **DST#: 3**  
Test Start: 2012.03.13 @ 21:00:05

### 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: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.60 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	OCGM g=10% o=10% m=80%	0.492
90.00	GO g=10% o=90%	0.443
0.00	GIP=110ft	0.000

Total Length: 190.00 ft      Total Volume: 0.935 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

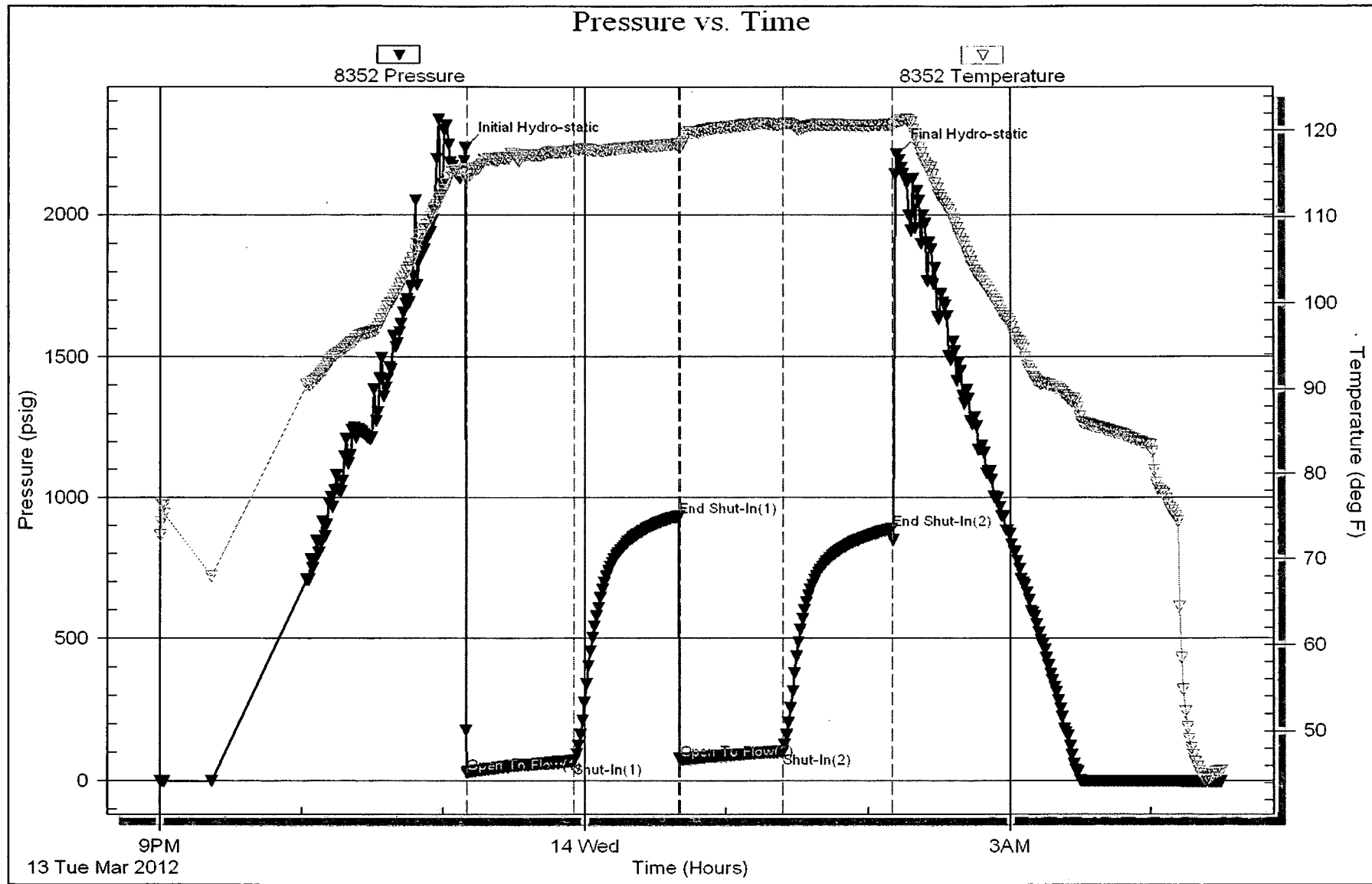
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:









**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Tengasco inc.

**23-15s-25w Trego**

1327 Noose rd.  
PO Box 458  
Hays, Ks. 67601  
ATTN: Mike Bair

**Albers #4**

Job Ticket: 46811

**DST#: 2**

Test Start: 2012.03.13 @ 15:56:05

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 58.00 sec/qt

Water Loss: 5.59 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 2500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
320.00	Drilling Mud	1.664

Total Length: 320.00 ft      Total Volume: 1.664 bbl

Num Fluid Samples: 0

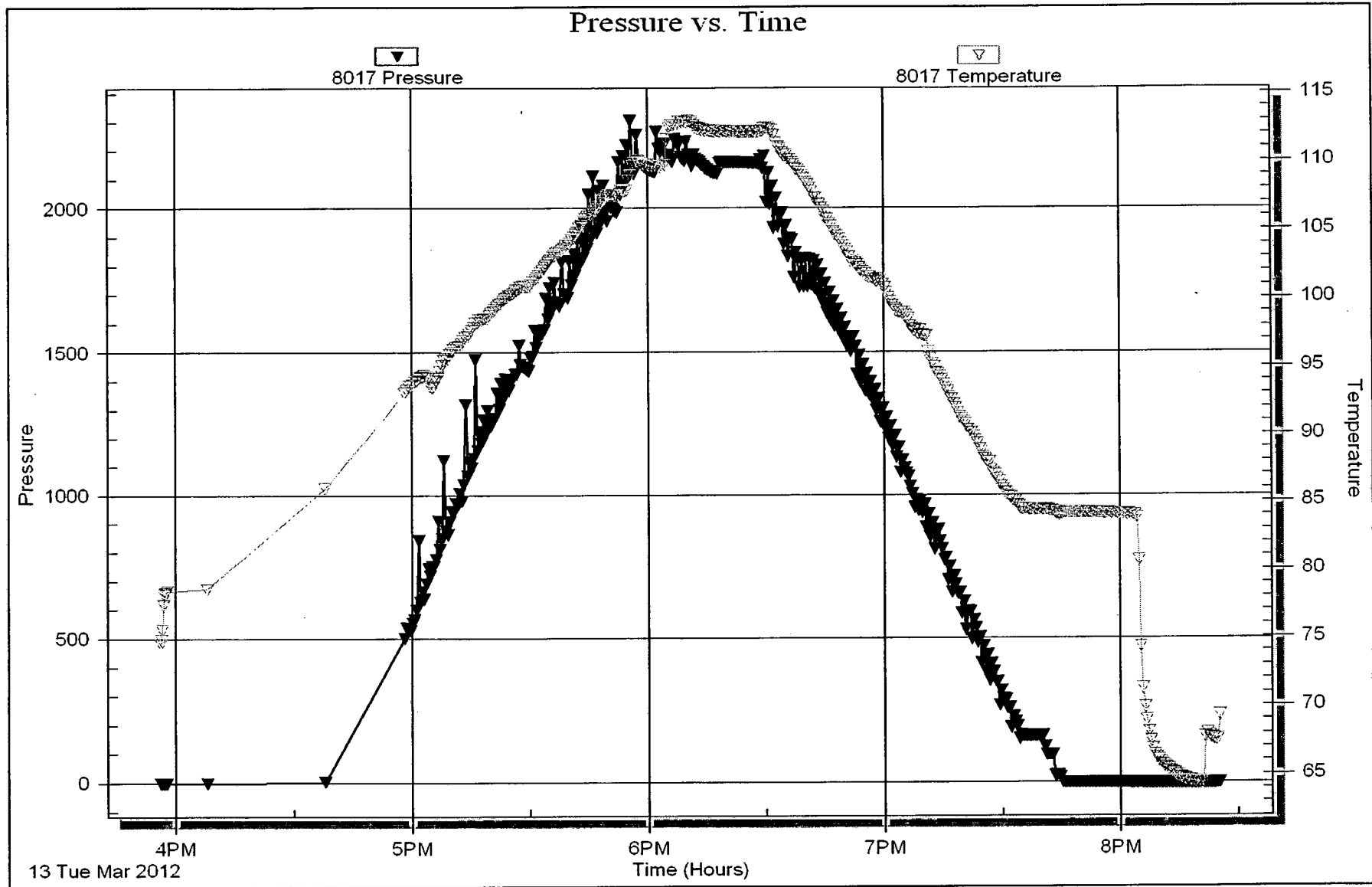
Num Gas Bombs: 0

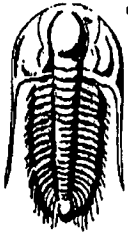
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Misrun. Packer Failure





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Tengasco inc.

**23-15s-25w Trego**

1327 Noose rd.  
PO Box 458  
Hays, Ks. 67601  
ATTN: Mike Bair

**Albers #4**

Job Ticket: 46810

**DST#: 1**

Test Start: 2012.03.13 @ 01:42:05

### GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:48:00

Time Test Ended: 09:06:29

Test Type: Conventional Bottom Hole (Initial)

Tester: Andy Carreira

Unit No: 39

Interval: **4412.00 ft (KB) To 4456.00 ft (KB) (TVD)**

Reference Elevations: 2494.00 ft (KB)

Total Depth: 4456.00 ft (KB) (TVD)

2485.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

**Serial #: 8352**

**Outside**

Press@RunDepth: 48.71 psig @ 4419.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.13

End Date: 2012.03.13

Last Calib.: 2012.03.13

Start Time: 01:42:05

End Time: 09:06:29

Time On Btm: 2012.03.13 @ 04:47:30

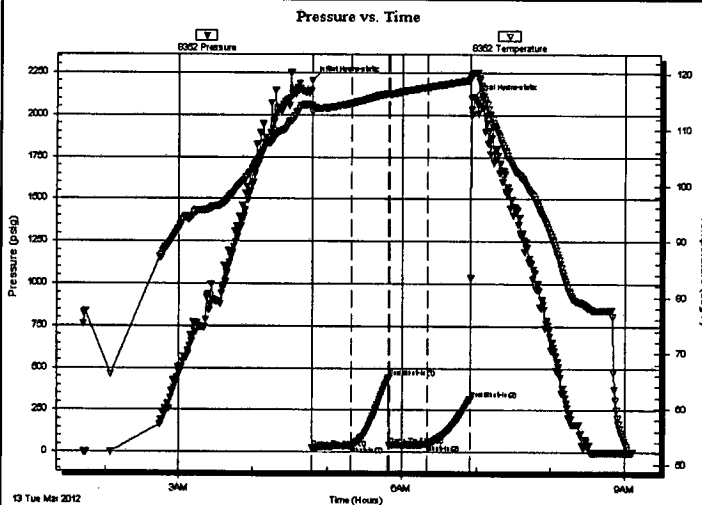
Time Off Btm: 2012.03.13 @ 06:55:29

**TEST COMMENT:** IF:(30min) Blow died in 15 min.

ISl:(30min) No Return

FF:(30min) No Blow

FSI:(30min) No Return



### PRESSURE SUMMARY

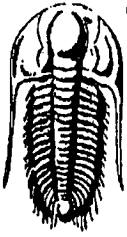
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2201.19	114.36	Initial Hydro-static
1	22.50	113.25	Open To Flow (1)
32	39.30	114.73	Shut-In(1)
62	444.91	116.53	End Shut-In(1)
63	41.96	116.37	Open To Flow (2)
93	48.71	117.59	Shut-In(2)
127	314.26	118.90	End Shut-In(2)
128	2098.56	119.46	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
59.00	OCM $\alpha=20\%$ $m=80\%$	0.29
1.00	CO	0.00

### Gas Rates

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



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## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Tengasco inc.

**23-15s-25w Trego**

1327 Noose rd.  
PO Box 458  
Hays, Ks. 67601  
ATTN: Mike Bair

**Albers #4**

Job Ticket: 46810

**DST#: 1**

Test Start: 2012.03.13 @ 01:42:05

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 6.80 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 2300.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
59.00	OCM o=20% m=80%	0.290
1.00	CO	0.005

Total Length: 60.00 ft      Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

