



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1200955  
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: \_\_\_\_\_

1200955

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: <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> _____
---	--

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Trek AEC, LLC
Well Name	Goby 1
Doc ID	1200955

Tops

Name	Top	Datum
Anhydrite	1458	+609
Oread	3216	-1149
Heebner	3270	-1203
Toronto	3290	-1223
Lansing	3312	-1245
Muncie Creek	3432	-1365
Stark Shale	3500	-1433
Base/KC	3537	-1470
Arbuckle	3666	-1599

Federal Tax I.D.# 20-5975804

316-263-1851

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

SERVICE POINT:

Russell KS

DATE 4-1-14	SEC 30	TWP 10	RANGE 18	CALLED OUT	ON LOCATION	JOB START 9:30 AM	JOB FINISH 10:00 PM
LEASE Gaby	WELL# 1	LOCATION Hays KS 18N 4W 14S			COUNTY Rooks	STATE KS	
OLD OR (NEW) (Circle one)		Winfo					

CONTRACTOR Mallard Drilling  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 ID. 259  
 CASING SIZE 8 5/8 23" DEPTH 259  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT 15  
 CEMENT LEFT IN CSG. 15  
 PERFS.  
 DISPLACEMENT 15.5661

OWNER

CEMENT AMOUNT ORDERED 175 com 35 sac 29 gal

COMMON 175 @ 17.90 3132.50  
 POZMIX @  
 GEL 330\* @ .24 79.20  
 CHLORIDE 495\* @ .80 396.00  
 ASC @

EQUIPMENT  
 PUMP TRUCK CEMENTER Robert Y  
 # 409 HELPER Nathan D  
 BULK TRUCK  
 # 481 DRIVER Kevin R  
 BULK TRUCK  
 # DRIVER

HANDLING 175 sts @ 2.48 434.00  
 MILEAGE 206 1/m @ 2.60 536.25  
 TOTAL 4577.95

REMARKS:

see log

Cement did circulate

Thank you!!!

CHARGE TO: Trak AEC LLC

STREET  
 CITY STATE ZIP

SERVICE

DEPTH OF JOB 259  
 PUMP TRUCK CHARGE 1512.25  
 EXTRA FOOTAGE @  
 MILEAGE 25 HVMI @ 4.40 110.00  
 MANIFOLD @  
50 HVMI @ 7.70 385.00

TOTAL 2607.25

PLUG & FLOAT EQUIPMENT

@  
 @  
 @  
 @  
 @

TOTAL

SALES TAX (If Any)

TOTAL CHARGES 6585.20

DISCOUNT 1646.30 IF PAID IN 30 DAYS

net 4938.90

PRINTED NAME Frank Symank

SIGNATURE Frank Symank

*Mending  
 This just  
 Cement in.  
 I think it's  
 the one you  
 called about.  
 Judy*



# ALLIED OIL & GAS SERVICES, LLC 055186

Federal Tax I.D.# 20-5975804

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

*Mindy*  
316-263-1851

SERVICE POINT

*Russell Ks*

DATE <i>7.8.14</i>	SEC <i>30</i>	TWP <i>10</i>	RANGE <i>18</i>	CALLED OUT	ON LOCATION	JOB START <i>2:00</i>	JOB FINISH <i>2:30 pm</i>
LEASE <i>Gobyn</i>	WELL# <i>1</i>	LOCATION <i>Days, Ks</i>			COUNTY <i>Wood</i>	STATE <i>Ks</i>	
OLD OR NEW (Circle one)		<i>N to CCR 4w 45 -</i>					

CONTRACTOR *Mallard Drilling* OWNER

TYPE OF JOB *PTA*

HOLE SIZE *7 7/8* T.D. CEMENT

CASING SIZE DEPTH AMOUNT ORDERED *270 SK*

TUBING SIZE DEPTH

DRILL PIPE *4 1/2* DEPTH *3646'* *6040 + 41 gal*

TOOL DEPTH

PRES. MAX MINIMUM COMMON *270 SK @ 15.3 \$4,131.00*

MEAS. LINE SHOE JOINT POZMIX @

CEMENT LEFT IN CSG. GEL @

PERFS. CHLORIDE @

DISPLACEMENT ASC @

### EQUIPMENT

PUMP TRUCK CEMENTER *Arny Stenhardt*

# *477* HELPER *Denny S*

BULK TRUCK

# *473* DRIVER *Joe C*

BULK TRUCK

# DRIVER

HANDLING *270 #13 @ 2.48 \$669.60*

MILEAGE *291.25 TIM 2.60 \$757.25*

*1389.46 @ 25%*

TOTAL *\$5,557.85*

### REMARKS:

*See Cementing Job Log*

### SERVICE

DEPTH OF JOB *3646'*

PUMP TRUCK CHARGE *\$2,558.75*

EXTRA FOOTAGE @

MILEAGE *Heavy 50 @ 7.7 \$385.00*

MANIFOLD *light 25 @ 4.4 \$110.00*

@

@

CHARGE TO: *TREK AEC LLC*

*763.44 @ 25%*

TOTAL *\$3,053.75*

STREET

CITY STATE ZIP

### PLUG & FLOAT EQUIPMENT

*1x 8 #3 wooden / 4 @ - \$110.00*

@

@

@

@

TOTAL *\$110.00*

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 *\$8,721.60*

PRINTED NAME *Mark D. Elser*

DISCOUNT *\$2,152.90* IF PAID IN 30 DAYS

SIGNATURE *Mark D. Elser*

*Net 6568.70*



**DRILLING REPORT**

**GOBY #1**

**AFE # AEC023**

**SURFACE CASING: 8 5/8", 23# set @259'**

**PROSPECT: Ordway West**

**LOCATION: NE NE SW**  
Section 30-T10S-R18W

**COUNTY: Rooks**

**API: 15-163-24164-00-00**

**CONTRACTOR: Mallard JV, Inc.**

**GEOLOGIST: Aaron Young**

**LANDOWNER: John & Barbara Couse**  
Steve Beckley, Goby Energy

**NOTIFY: TrekAEC, LLC**

Dianne Y. DeGood Family Trust

Peter J. Coakley

M-J IV

Arnold S. Hess Family Trust

Bryan K. Hess Family Trust

Dick Hess Family Trust #2

Chas A. Neal & Company

Margaret Thrasher - Mail Reports

Gar Oil Corp. - Fax Reports: 918-686-5334

Cambron Investments - Fax Reports: 785-798-3938

**PRODUCTION CASING:**

**Est. RTD: 3700'**

**G.L.: 2056' K.B.: 2067'**

**SPUD DATE: 04/01/14**

**COMPLETION DATE:**

**REFERENCE WELLS:**

#1: Trek AEC - Dauwe A #1 - NE NE NE - Section 30-T10S-R18W

#2: Trek AEC - Dauwe B #3 - NE SE SE - Section 30-T10S-R18W

FORMATION: SAMPLE LOG:	REF. WELL COMPARISSON		ELECTRIC LOG TOPS:		REF. WELL COMPARISON		
	#1	#2	#1	#2	#1	#2	
	Dauwe A #1	Dauwe B #3	Dauwe A #1	Dauwe B #3	Dauwe A #1	Dauwe B #3	
ANHYDRITE	1458+609	-20	-9	1458	+609	-40	-9
OREAD	3215 -1144	-9	-3	3216	-1149	-10	-4
HEEBNER	3272 -1205	-5	-4	3270	-1203	-4	-3
TORNOTO	3387 -1220	+1	-4	3290	-1223	-2	-7
LANSING	3314-1247	-6	-7	3312	-1245	-4	-5
MUNCIE CREEK	3431 -1365	-6	-8	3432	-1365	-7	-9
STARK SHALE	3499 -1432	-8	-8	3500	-1433	-9	-9
BASE/KC	3536 -1469	-6	-4	3537	-1470	-7	-5
ARBUCKLE	3666 -1599	-NA	-NA	3666	-1599	-NA	-NA
RTD	3725						
LTD	3727						

4/01/14 MIRU - Mallard JV, Inc. rotary tools. Spud well at 3:35 PM and cut 259' - 12 1/4" hole. CTCH, TOH. Ran in 6 jts 8 5/8" 23#, 252' surface casing set @ 259'. Cemented with 175 sx Common 2% gel, 3% CC. Cement did circulate. Plug down at 9:00 PM. Cementing by Allied - ticket #055206.

04/02/14 At 274' and drilling ahead.

04/03/14 Drilling ahead @ 2053' , Geologist will be on well at 2800'.

04/04/14 Drilling ahead @ 2794'.

04/05/14 CFS @ 3356, Will test the D & E zones, Oread, Toronoto, Lansing A & C were tight with very light shows, D & E zones had fr to gd shows oil, cut & flur. Fair drilling break fr porosity. Preparing to run DST #1 over the Lansing D & E zones.

04/06/14 Tripping back in hole after DST # 2: 3375-3394 (Lansing "F") zone.

Result of DST 1: 3364-3384 (Lansing D & E), Times: 30-30-30-30, 1<sup>st</sup> op surface blow dead in 15", 2<sup>nd</sup> blow surface died in 3 minutes. No blow backs Rec 5'M,  
IFP: 24-24  
ISIP: 799  
IHP: 1668  
FFP: 24-25  
FSIP: 95  
FHP: 1623  
Temp: 98

Results DST #2: 3375 - 3394 (Lansing "F" Zone: 1<sup>st</sup> op weak blow, built to 4', noblow back. 2<sup>nd</sup> open weak blow built to 5", no blow back. Times: 30-60-45-75. Recovered: 100' MW (70% W 30% M).  
IFP: 30-36  
ISIP: 718  
IHP: 1652  
FFP: 41-54  
FSIP 697  
FHP:1602,  
Temp: 99

04/07/14 At 3498 and Circulating the Lansing "K" zone

Results DST #3: 3480 - 3498 (Lansing "J") Zone: Times: 30-30-30-30. 1st op weak surface blow, died in 6 minutes. Recovered: 1' Mud.  
IFP: 27-26  
ISIP: 26  
IHP: 1707  
FFP: 27-27  
FSIP: 27  
FHP: 1676

04/08/14 At 3725' and in the process of plugging the well. Pioneer logged the well, ran the following set of logs: Micro Resistivity, Dual Induction, Dual Compensated Porosity, Computer Interpretation.

RTD: 3725  
LTD: 3727

Plugging Information as follows:  
50 sx @ 20' above the Arbuckle - 3646'  
25 sx @ 1475'  
100 sx @ 825'  
40 sx @ 300'  
10 sx @ 40'  
30 sx in Rathole  
15 sx in Mousehole  
Total of 270 sx - 60/40 poz with 4% gel.  
Allied Cementing Ticket #055186.

**Mallard Drilling - Rig released at 1:30 p.m.**





**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Trek AEC, LLC  
 155 N. Market  
 Ste. 710  
 Wichita, KS 67202  
 ATTN: Aaron Young

**30-10S-18W Rooks, KS**  
**Goby #1**  
 Job Ticket: 58751      DST#: 1  
 Test Start: 2014.04.05 @ 13:37:18

**GENERAL INFORMATION:**

Formation: **LKC "D&E"**  
 Deviated: No Whipstock:      ft (KB)  
 Time Tool Opened: 17:01:18  
 Time Test Ended: 20:14:48  
**Interval: 3352.00 ft (KB) To 3384.00 ft (KB) (TVD)**  
 Total Depth: 3384.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brian L  
 Unit No: 48  
 Reference Elevations: 2067.00 ft (KB)  
                                   2062.00 ft (CF)  
                                   KB to GR/CF: 5.00 ft

**Serial #: 8372**

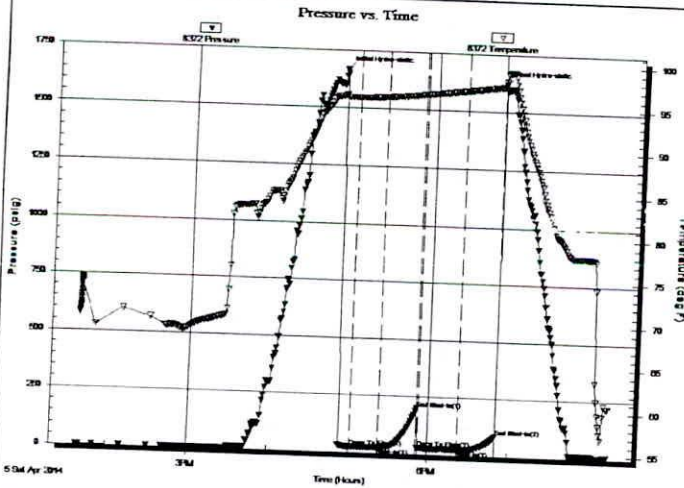
**Inside**

Press@RunDepth: 24.96 psig @ 3353.00 ft (KB)  
 Start Date: 2014.04.05      End Date:  
 Start Time: 13:37:19      End Time:

2014.04.05  
 20:14:48

Capacity: 8000.00 psig  
 Last Calib.: 2014.04.05  
 Time On Btm: 2014.04.05 @ 16:51:18  
 Time Off Btm: 2014.04.05 @ 18:50:48

**TEST COMMENT:** 30- IF- Very weak surface blow died in 8mins  
 30- IS- No blow  
 30- FF- No blow  
 30- FS- No blow



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1668.41	96.14	Initial Hydro-static
10	24.31	95.85	Open To Flow (1)
31	24.17	95.94	Shut-In(1)
60	24.97	96.37	End Shut-In(1)
61	28.89	96.35	Open To Flow (2)
91	24.96	96.93	Shut-In(2)
119	85.05	97.47	End Shut-In(2)
120	1623.24	98.10	Final Hydro-static

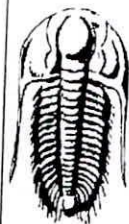
**Recovery**

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

**Gas Rates**

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Trek AEC, LLC

155 N. Market  
Ste. 710  
Wichita, KS 67202  
ATTN: Aaron Young

30-10S-18W Rooks, KS

Goby #1

Job Ticket: 58751

DST#: 1

Test Start: 2014.04.05 @ 13:37:18

## GENERAL INFORMATION:

Formation: LKC "D&E"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:01:18

Time Test Ended: 20:14:48

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan L

Unit No: 48

Interval: 3352.00 ft (KB) To 3384.00 ft (KB) (TVD)

Total Depth: 3384.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2067.00 ft (KB)

2062.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8321

Outside

Press@RunDepth: psig @ 3353.00 ft (KB)

Start Date: 2014.04.05

End Date:

2014.04.05

Capacity: 8000.00 psig

Start Time: 13:36:33

End Time:

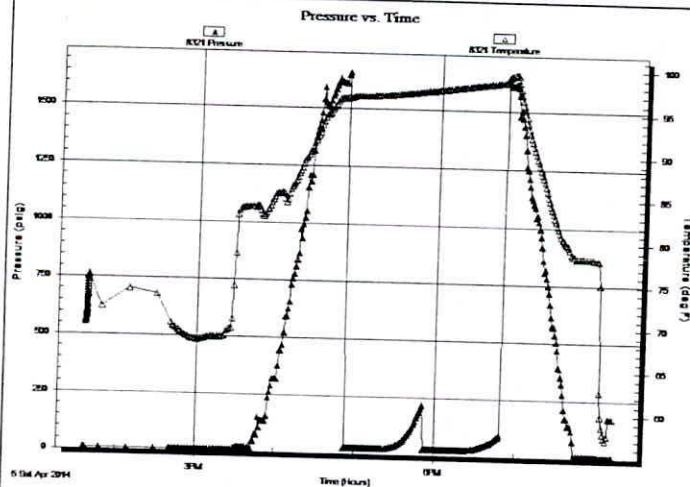
20:14:02

Last Calib.: 2014.04.05

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF- Very weak surface blow died in 8mins  
30- IS- No blow  
30- FF- No blow  
30- FS- No blow



## PRESSURE SUMMARY

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

## Recovery

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

## Gas Rates

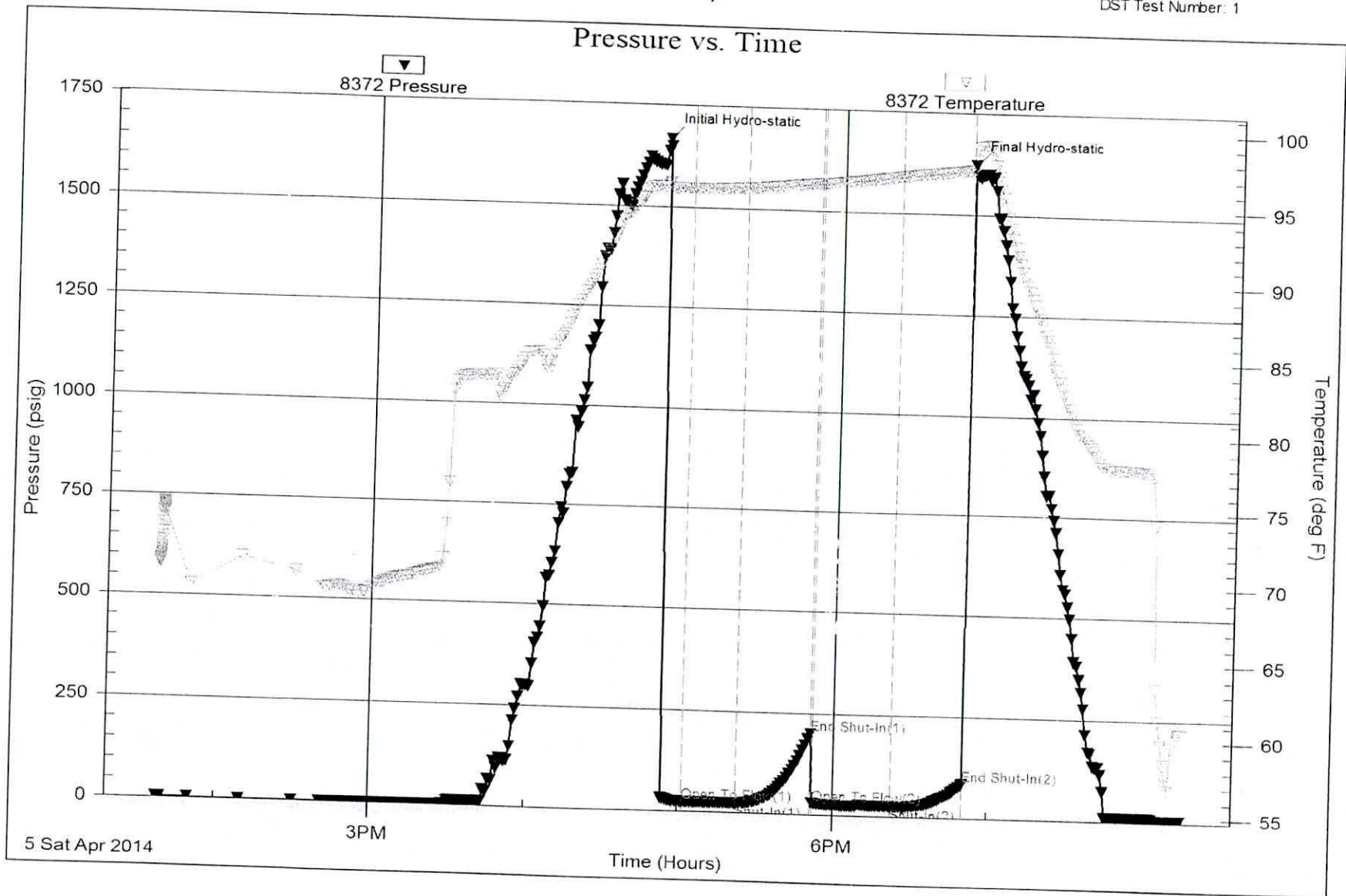
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Serial #: 8372

Inside Trek AEC, LLC

Goby #1

DST Test Number: 1

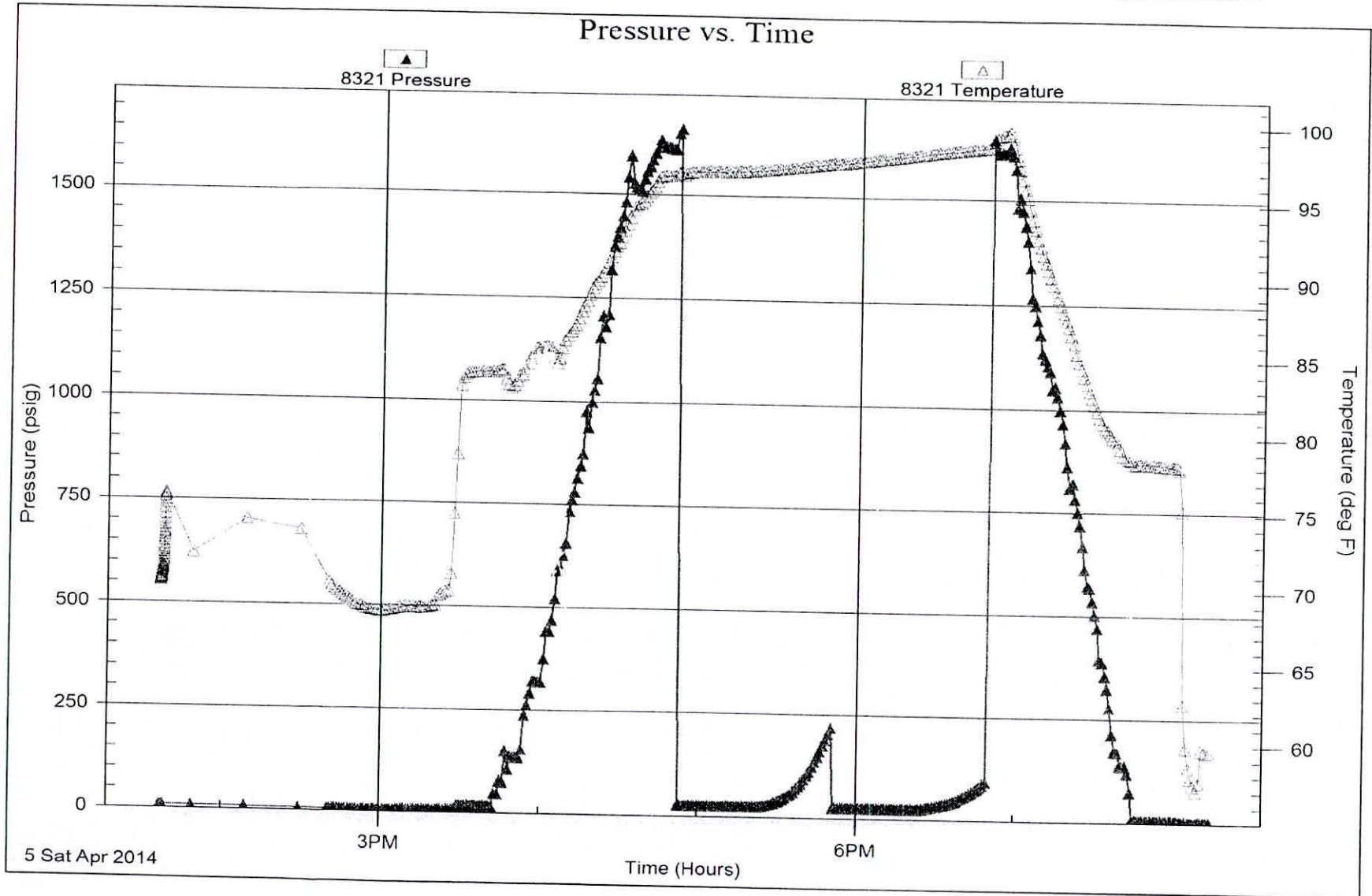


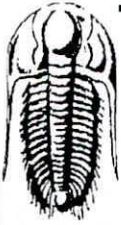
Serial #: 8321

Outside Trek AEC, LLC

Goby #1

DST Test Number: 1





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Trek AEC, LLC  
155 N. Market  
Ste. 710  
Wichita, KS 67202  
ATTN: Aaron Young

**30-10S-18W Rooks, KS**  
**Goby #1**  
Job Ticket: 58752      **DST#: 2**  
Test Start: 2014.04.06 @ 02:11:25

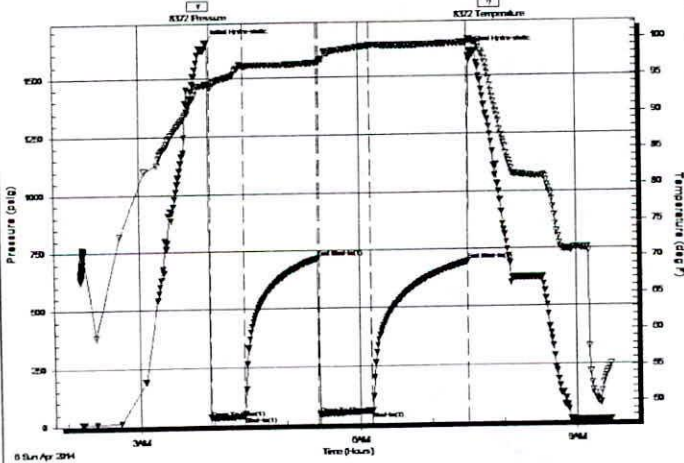
## GENERAL INFORMATION:

Formation: **LKC "F"**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 03:57:25  
Time Test Ended: 09:28:25  
Interval: **3375.00 ft (KB) To 3394.00 ft (KB) (TVD)**  
Total Depth: **3394.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Brannan L  
Unit No: 48  
Reference Elevations: 2067.00 ft (KB)  
2062.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8372**      Inside  
Press@RunDepth: 54.03 psig @ 3376.00 ft (KB)  
Start Date: 2014.04.06      End Date: 2014.04.06  
Start Time: 02:11:26      End Time: 09:28:25  
Capacity: 8000.00 psig  
Last Calib.: 2014.04.06  
Time On Btm: 2014.04.06 @ 03:54:25  
Time Off Btm: 2014.04.06 @ 07:32:25

TEST COMMENT: 30- IF- Built very slowly to 2"  
60- IS- No blow  
45- FF- Built very slowly to 1"  
75- FS- No blow

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1651.79	94.03	Initial Hydro-static
3	29.75	93.61	Open To Flow (1)
31	36.14	96.33	Shut-In(1)
92	717.75	96.83	End Shut-In(1)
93	41.39	97.00	Open To Flow (2)
136	54.03	99.13	Shut-In(2)
216	696.57	99.39	End Shut-In(2)
218	1604.44	99.75	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
100.00	MW, 30%M 70%W	0.49

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Trek AEC, LLC  
155 N. Market  
Ste. 710  
Wichita, KS 67202  
ATTN: Aaron Young

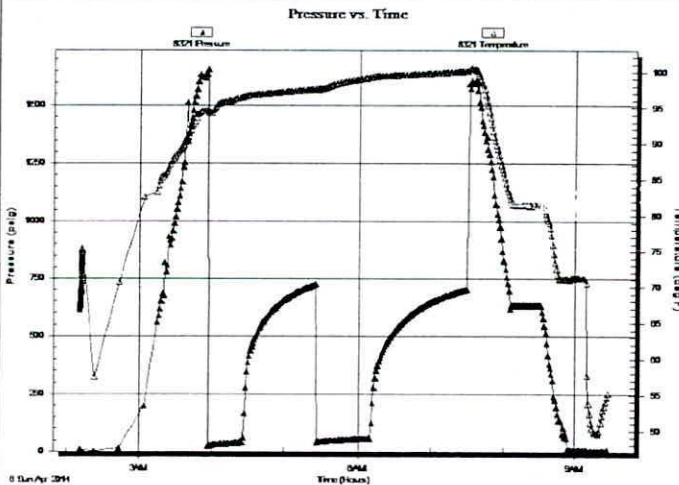
**30-10S-18W Rooks, KS**  
**Goby #1**  
Job Ticket: 58752      DST#: 2  
Test Start: 2014.04.06 @ 02:11:25

**GENERAL INFORMATION:**

Formation: LKC "F"  
Deviated: No Whipstock: ft (KB)      Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 03:57:25      Tester: Brannan L  
Time Test Ended: 09:28:25      Unit No: 48  
Interval: 3375.00 ft (KB) To 3394.00 ft (KB) (TVD)      Reference Elevations: 2067.00 ft (KB)  
Total Depth: 3394.00 ft (KB) (TVD)      2062.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair      KB to GR/CF: 5.00 ft

Serial #: 8321      Outside  
Press@RunDepth:      psig @ 3376.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.04.06      End Date: 2014.04.06      Last Calib.: 2014.04.06  
Start Time: 02:11:02      End Time: 09:28:01      Time On Btm:  
Time Off Btm:

TEST COMMENT: 30- IF- Built very slowly to 2"  
60- IS- No blow  
45- FF- Built very slowly to 1"  
75- FS- No blow



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
100.00	MW. 30%M 70%W	0.49

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Trek AEC, LLC

**30-10S-18W Rooks, KS**

155 N. Market  
Ste. 710  
Wichita, KS 67202  
ATTN: Aaron Young

**Goby #1**  
Job Ticket: 58752      **DST#: 2**  
Test Start: 2014.04.06 @ 02:11:25

**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:	57000 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

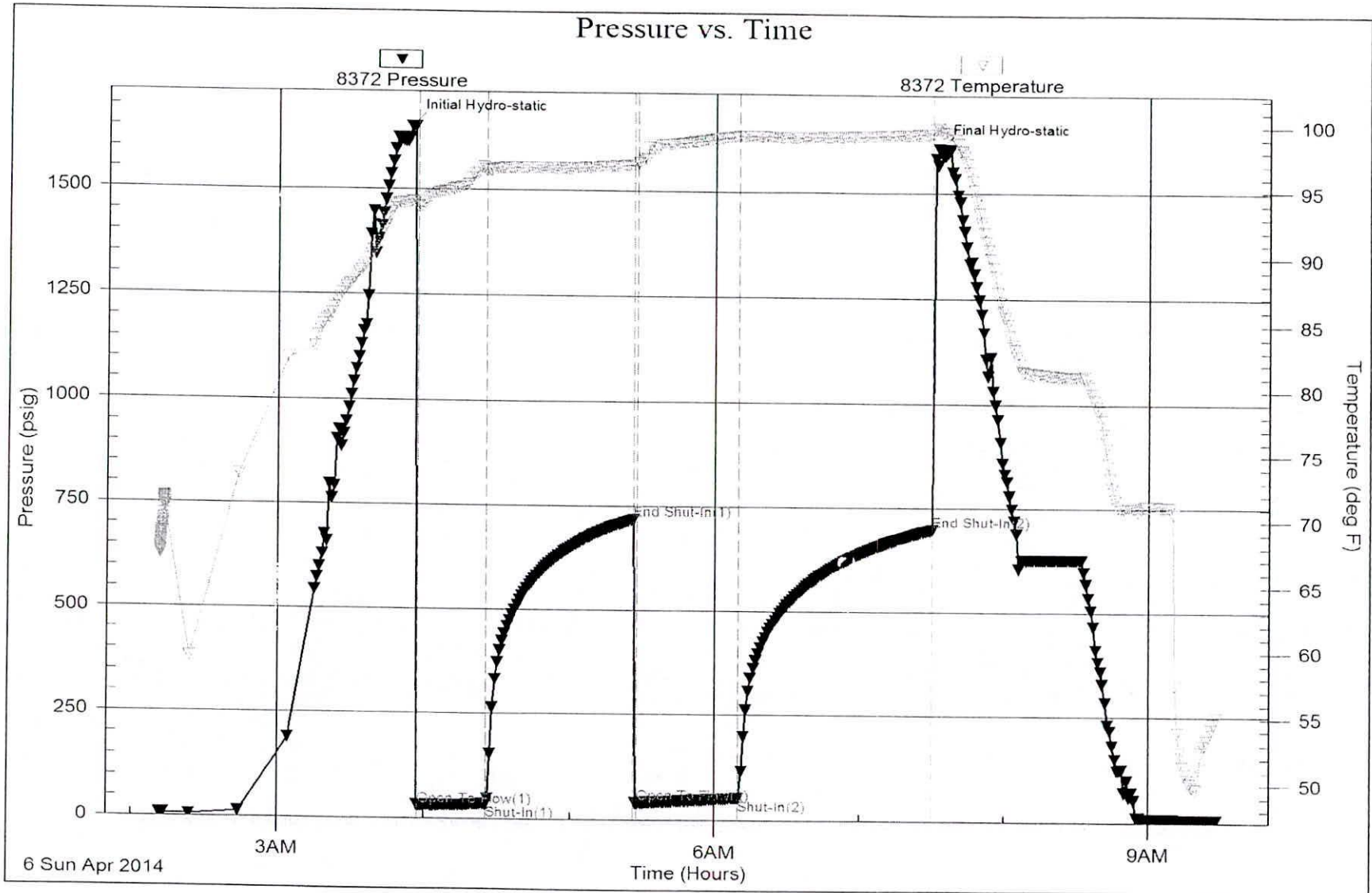
Length ft	Description	Volume bbl
100.00	MW, 30%M 70%W	0.492

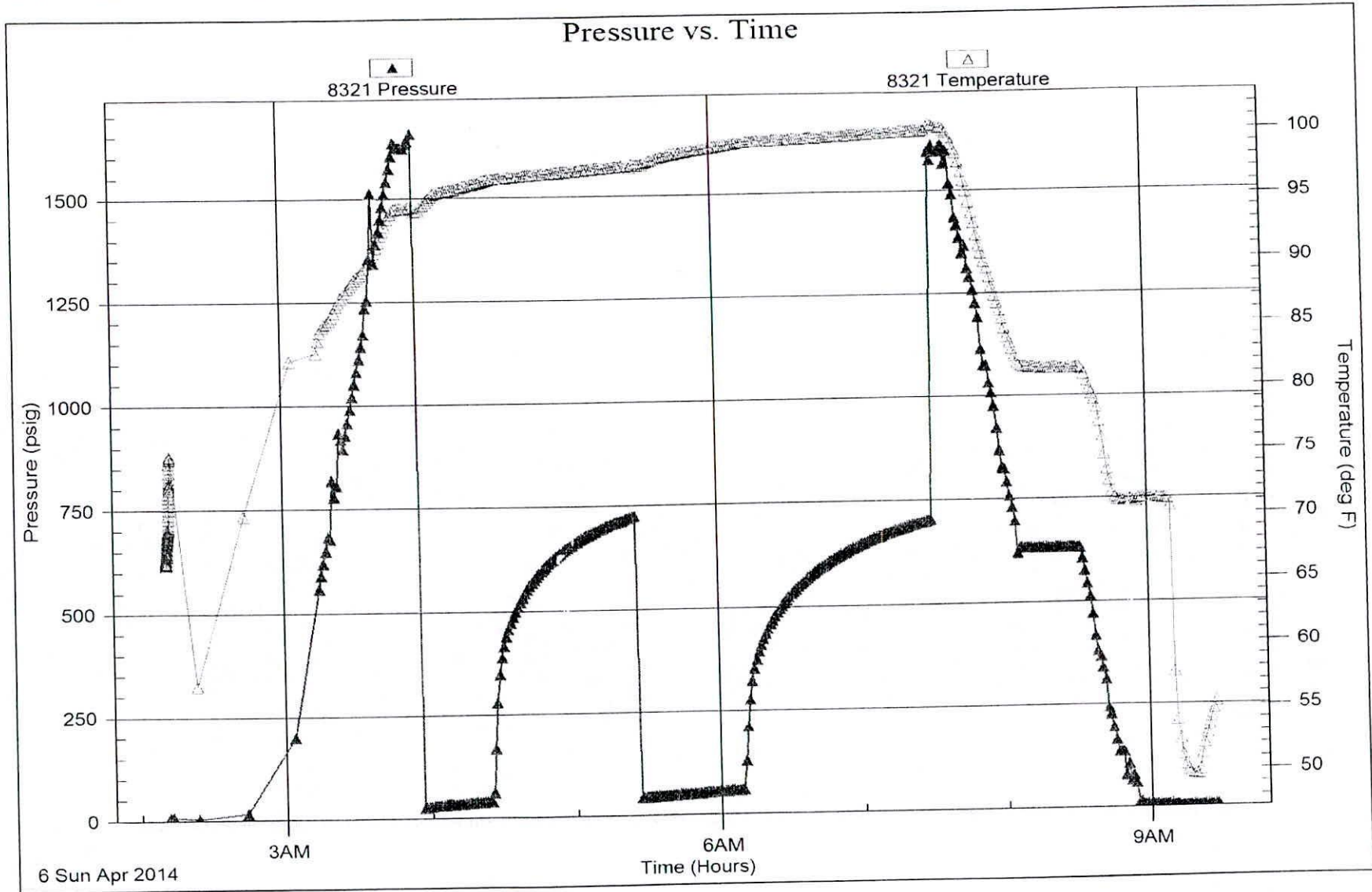
Total Length: 100.00 ft      Total Volume: 0.492 bbl

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

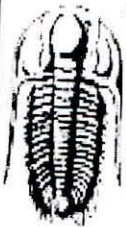
Laboratory Name:      Laboratory Location:

Recovery Comments:









**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Trek AEC, LLC  
 155 N. Market  
 Ste. 710  
 Wichita, KS 67202  
 ATTN: Aaron Young

**30-10S-18W Rooks, KS**

**Goby #1**

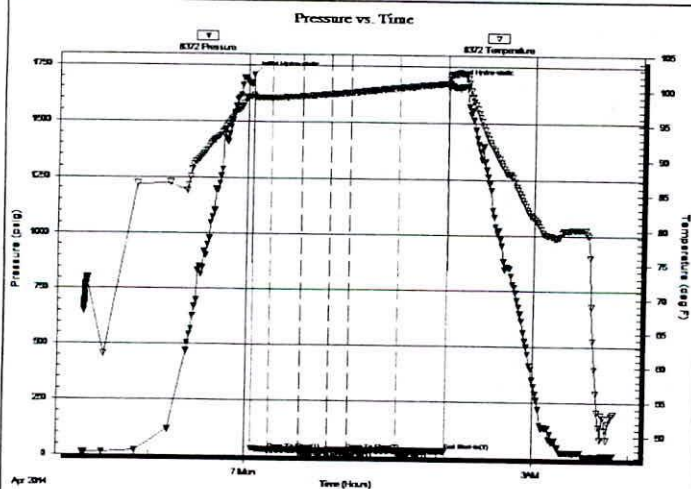
Job Ticket: 58753      **DST#: 3**  
 Test Start: 2014.04.06 @ 22:18:44

## GENERAL INFORMATION:

Formation: **LKC "J"**  
 Deviated: No Whipstock:      ft (KB)  
 Time Tool Opened: 00:14:44  
 Time Test Ended: 03:50:44  
 Interval: **3480.00 ft (KB) To 3498.00 ft (KB) (TVD)**  
 Total Depth: 3498.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brannan L  
 Unit No: 48  
 Reference Elevations: 2067.00 ft (KB)  
 2062.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8372      Inside**  
 Press@RunDepth: 26.73 psig @ 3481.00 ft (KB)  
 Start Date: 2014.04.06      End Date: 2014.04.07  
 Start Time: 22:18:45      End Time: 03:50:44  
 Capacity: 8000.00 psig  
 Last Calib.: 2014.04.07  
 Time On Btm: 2014.04.07 @ 00:03:14  
 Time Off Btm: 2014.04.07 @ 02:05:44

TEST COMMENT: 30- IF- Weak surface blow died in 60 mins  
 30- IS- No blow  
 30- FF- No blow  
 30- FS- No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1706.83	99.12	Initial Hydro-static
12	26.70	98.70	Open To Flow (1)
31	26.42	98.94	Shut-In(1)
49	25.95	99.28	End Shut-In(1)
61	26.86	99.54	Open To Flow (2)
91	26.73	100.25	Shut-In(2)
122	26.89	100.95	End Shut-In(2)
123	1675.67	101.94	Final Hydro-static

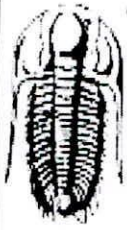
## Recovery

Length (ft)	Description	Volume (bbl)
1.00	M	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

Trek AEC, LLC

30-10S-18W Rooks, KS

155 N. Market  
Ste. 710  
Wichita, KS 67202  
ATTN: Aaron Young

**Goby #1**

Job Ticket: 58753

DST#: 3

Test Start: 2014.04.06 @ 22:18:44

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 5.99 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 1200.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	M	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

