



KANSAS CORPORATION COMMISSION 1084337
OIL & GAS CONSERVATION DIVISION

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: 1327 NOOSE RD
Address 2: PO BOX 458
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: Coffeyville Resources

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 #: _____

03/28/2012	04/04/2012	05/09/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-195-22760-00-00
Spot Description: _____
N2 SW SW SW Sec. 34 Twp. 12 S. R. 21 East West
640 Feet from North / South Line of Section
330 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Trego
Lease Name: Schoenthaler Well #: 5
Field Name: Ridgway South
Producing Formation: Arbuckle
Elevation: Ground: 2195 Kelly Bushing: 2204
Total Depth: 3936 Plug Back Total Depth: 3878
Amount of Surface Pipe Set and Cemented at: 265 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 1609 Feet
If Alternate II completion, cement circulated from: 1609
feet depth to: 0 w/ 220 sx cmt.

Drilling Fluid Management Plan

(Date must be collected from the Reserve Pit)

Chloride content: 48000 ppm Fluid volume: 160 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Tengasco, Inc.
Lease Name: Schoenthaler A License #: 32278
Quarter NW Sec. 3 Twp. 13 S. R. 21 East West
County: Trego Permit #: D-20551

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

- Letter of Confidentiality Received
Date: _____
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: Deanna Gantner Date: 08/18/2012



1084337

Operator Name: Tengasco, Inc. Lease Name: Schoenthaler Well #: 5
 Sec. 34 Twp. 12 S. R. 21 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 <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name Attached	Top Attached Datum Attached
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 <i>(If no, Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
List All E. Logs Run: Attached			

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	12.250	8.650	23	265	Com	170	3% CC, 2% gel
Production	7.875	5.50	14	3935	ASC	150	10% salt, 2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing	-			
___ Plug Back TD				
___ Plug Off Zone	-			

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	3846-51		

TUBING RECORD:	Size: <u>2.875</u>	Set At: <u>3854</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>05/09/2012</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls. <u>23</u>	Gas Mcf	Water Bbls. <u>290</u>	Gas-Oil Ratio Gravity

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: <u>Arb 3846-51'</u>
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Form	ACO1 - Well Completion
Operator	Tengasco, Inc.
Well Name	Schoenthaler 5
Doc ID	1084337

All Electric Logs Run

Dual Induction
Density Neutron/PE
Micro
CBL/GR

Form	ACO1 - Well Completion
Operator	Tengasco, Inc.
Well Name	Schoenthaler 5
Doc ID	1084337

Tops

Anhydrite	1572	+632
Topeka	3224	-1020
Heebner	3446	-1242
Toronto	3467	-1263
Lansing	3482	-1278
BKC	3720	-1516
Marmaton	3756	-1552
Marmaton Chert	3787	-1583
Arbuckle	3850	-1646

ALLIED OIL & GAS SERVICES, LLC 056369

TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Russell, Kan.

DATE <u>3-28-12</u>	SEC <u>34</u>	TWP. <u>12</u>	RANGE <u>21</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30 PM</u>	JOB FINISH <u>12:00 PM</u>
SCHEFFLER LEASE	WELL# <u>S</u>	LOCATION <u>Riga EXIT + I-70 34 S</u>			COUNTY <u>Trego</u>	STATE <u>KANSAS</u>	
OLD OR <u>NEW</u> (Circle one)				<u>4.2</u>			

CONTRACTOR DALG. Rig #3

TYPE OF JOB Cement SURFACE

HOLE SIZE 12 1/4 TD. 268'

CASING SIZE 8 5/8 DEPTH 265'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX. 300# MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 16.10 BBL

EQUIPMENT

PUMP TRUCK CEMENTER Gilman G

417 HELPER Woody O. Robert Jr

BULK TRUCK

410 DRIVER Ron B.

BULK TRUCK

DRIVER

OWNER

CEMENT

AMOUNT ORDERED 170 sx Comm.

3% CC

2% BBL

COMMON	<u>170</u>	@	<u>16.25</u>	<u>2762.50</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>6</u>	@	<u>56.20</u>	<u>337.20</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>179 Total SX</u>	@	<u>2.25</u>	<u>402.75</u>
MILEAGE	<u>45 Ten Mile</u>	@		<u>886.05</u>
TOTAL				<u>4464.25</u>

REMARKS:

Ron G New Joints of 8 5/8 23 # csg.
Set @ 268' Reviewed Circulation!
Cement w/ 170 sx Comm 3 + 2.
Displaced 16 BBL H₂O + SHUT-IN
@ 300 #. Cement Did
CIRCULATE TO SURFACE
THANKS

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE 1125.00

EXTRA FOOTAGE @

MILEAGE 45 HV ME @ 7.00 315.00

MANIFOLD @

45 LV ME @ 4.00 180.00

CHARGE TO: Tengasco Inc.

STREET

CITY STATE ZIP

TOTAL 1620.00

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) 215.93

TOTAL CHARGES 6084.25

DISCOUNT 20/70 1907.37 IF PAID IN 30 DAYS

PRINTED NAME

SIGNATURE Keith Karlin

ALLIED OIL & GAS SERVICES, LLC 056944

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

SERVICE POINT:
R24201

DATE <u>4.20.12</u>	SEC <u>34</u>	TWP <u>25</u>	RANGE <u>21</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30</u>	JOB FINISH <u>12:00</u>
LEASE <u>Schwendt</u>	WELL # <u>5</u>	LOCATION <u>Kys 24.5 E int'd</u>			COUNTY <u>Trego</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR WD

TYPE OF JOB Well Coffer

HOLE SIZE _____ T.D. _____

CASING SIZE _____ DEPTH _____

TUBING SIZE 2 3/8 DEPTH 11606

DRILL PIPE _____ DEPTH _____

TOOL Perk Coffer DEPTH 11609

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSO. _____

PERFS. _____

DISPLACEMENT 2 1/2

OWNER _____

CEMENT AMOUNT ORDERED 310 gal 60/46
42 gal 46 flow

EQUIPMENT

PUMP TRUCK CEMENTER John

409 HELPER Tom

BULK TRUCK # 473 DRIVER Wade

BULK TRUCK # _____ DRIVER Robert P.

COMMON	<u>160</u>	<u>172</u>	@	<u>16.25</u>	<u>2145.00</u>
POZMIX	<u>420</u>	<u>1880</u>	@	<u>8.96</u>	<u>3743.20</u>
GEL	<u>10</u>		@	<u>21.25</u>	<u>212.50</u>
CHLORIDE			@		
ASC	<u>46</u>		@	<u>2.70</u>	<u>124.20</u>
HANDLING	<u>313</u>		@	<u>2.25</u>	<u>704.25</u>
MILEAGE	<u>300</u>	<u>13,600</u>	@	<u>1.1</u>	<u>1721.50</u>
TOTAL					<u>5655.45</u>

REMARKS:

load of tubing per PL page 750 added
with 270 gal 60/46 & 42 gal 46 flow
per PL page 750
per 5/12, reverse side of PL, with 46 gal
Comment O/D circled to surface
Thanks!

SERVICE

DEPTH OF JOB	<u>11606'</u>	
PUMP TRUCK CHARGE		<u>1925.00</u>
EXTRA FOOTAGE	@	
MILEAGE MIAV	<u>300</u>	@ <u>7.00</u> <u>2100.00</u>
MANIFOLD	@	
<u>milk</u>	<u>300</u>	@ <u>4.00</u> <u>1200.00</u>
TOTAL <u>2475.00</u>		

CHARGE TO: _____

STREET Tengard

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) 219.61

TOTAL CHARGES 8130.45

DISCOUNT 2070 2761.84 IF PAID IN 30 DAYS

PRINTED NAME _____

SIGNATURE Handwritten Signature

ALLIED OIL & GAS SERVICES, LLC 056377

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

SERVICE POINT:

Russell Ks.

DATE <u>4-4-12</u>	SEC. <u>34</u>	TWP. <u>12</u>	RANGE <u>21</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30 PM</u>	JOB FINISH <u>12:00 AM</u>
LEASE <u>Schoonhoven</u>			WELL # <u>5</u>	LOCATION <u>Riga Exit @ I-90 3/4 S 1/4 E</u>		COUNTY <u>Trego</u>	STATE <u>KANSAS</u>
OLD OR (NEW) (Circle one)							

CONTRACTOR H2 DATA Riga #3

TYPES OF JOB Production Staging

HOLESIZE 7 7/8 R.T.D. 3935 LTD 3946

CASING SIZE 5 1/2 14" DEPTH 3935

TRAILING SIZE 8 3/8 DEPTH 265'

DRILL PIPE PORT COLLAR DEPTH 1611'

TOOL A FEU INSERT @ DEPTH 3895

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT 39.50

CEMENT LEFT IN CSG. 39.50

PERFS. _____

DISPLACEMENT 95.20 / BBL

EQUIPMENT _____

OWNER _____

CEMENT AMOUNT ORDERED 180 SX ASC.

500 GAL W/FRA mud flush

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC	@	<u>180</u>	<u>19.00</u> = <u>3420.00</u>
mud FLUSH	@	<u>500</u>	<u>1.27</u> = <u>635.00</u>
HANDLING	@	<u>180</u>	<u>2.25</u> = <u>405.00</u>
MILEAGE	@	<u>45 x 180 x .11</u>	<u>891.00</u>
			TOTAL <u>5351.00</u>

PUMP TRUCK CEMENTER Alan G.

417 HELPER Woody P.

BULK TRUCK

410 DRIVER Chris G.

BULK TRUCK

_____ DRIVER _____

REMARKS: PORT COLLAR ON #56

Run 94 New JOINTS OF 14 # 5 1/2 CSG.

Set @ 3935' Received Circulation

W/ Pump Flush. Cement w/ 150 SX ASC.

Clear-Line Release / TRP. +

Displace 95 VA BBL H2. / Land

plug @ 1500'. Release Pressure

W/ AFEU - FLOAT (HOLD)

30SX @ Rathole

Hank's

CHARGE TO: Tengasco Inc.

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<u>3935</u>		
PUMP TRUCK CHARGE			<u>2725.00</u>
EXTRA FOOTAGE	@		
MILEAGE	<u>45 H 45</u>	@ <u>7.00</u>	<u>315.00</u>
MANIFOLD Head	<u>1</u>	@ <u>300.00</u>	<u>300.00</u>
Ldv - M	<u>45</u>	@ <u>4.00</u>	<u>180.00</u>
			TOTAL <u>2720.00</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 _____

SIGNATURE Keith Karles

PLUG & FLOAT EQUIPMENT

W. 1 Guide Shoe		<u>240.00</u>
W. 1 AFEU INSERT	@	<u>286.00</u>
W. 5 Centralizers	@ <u>49.00</u>	<u>245.00</u>
W. 1 BASKET	@	<u>337.00</u>
IR. 1 - PORT COLLAR	@	<u>2600.00</u>
IR. 1 - T.R.P.	@	<u>73.00</u>
		TOTAL <u>3781.00</u>

SALES TAX (if Any) 275.74

TOTAL CHARGES 11852.00

DISCOUNT 10% 3063.40 IF PAID IN 30 DAYS

MUD LOG

WellSight Systems

Scale 1:240 (5"=100") Imperial
Measured Depth Log

Well Name: Schoenthaler #5
Location: N2 SW SW SW Sec34 T12S R21W
License Number:
Spud Date: 3/28/2012
Surface Coordinates: 1700' FSL & 1320' FEL

Region: Trego County, KS
Drilling Completed: 4/4/2012

Bottom Hole
Coordinates:
Ground Elevation (ft): 2195 K.B. Elevation (ft): 2204
Logged Interval (ft): 3100 To: TD Total Depth (ft): 3933
Formation: ARBUCKLE
Type of Drilling Fluid: Chemical

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: TENGASCO, INC.
Address: 1327 Noose Rd.
Hays, KS. 67601

GEOLOGIST

Name: Mike Bair
Company: Basin Resources L.L.C.
Address: Longmont, CO.

FORMATION TOPS

FORMATION	LOG	SAMPLE
Anhydrite	1572(+632)	1578(+626)
Base Anhy	1617(+587)	1617(+587)
TOPEKA	3224(-1020)	3223(-1019)
HEEBNER	3446(-1242)	3446(-1242)
TORONTO	3467(-1263)	3464(-1260)
LANSING	3482(-1278)	3480(-1276)
BKC	3720(-1516)	3717(-1513)
MARMATON	3756(-1552)	3748(-1544)
MARMATON Chert	3787(-1583)	3783(-1579)
ARBUCKLE	3850(-1646)	3845(-1641)
TD	3836(-1632)	3833(-1632)

DSTs

DST #1 3472-3525; 45-45-45-45; Hydro: 1660-1612 IFP: 38-192 ISIP: 695 FFP: 196-251 FSIP: 676; Rec: 120' GIP 2' oil 60' 50%o 50%m 30' 5%o 20%w 75%m 308' 95%w 5%m; Grav: 37 RW: .068@80F Chl- 115,000ppm; IF: BOB 19min ISI: surface dead in 17min FF: BOB 17min FSI: 1" dead in 35min

DST #2 3527-3558; 30-30-30-30; Hydro: 1668-1605 IFP: 16-18 ISIP: 186 FFP: 19-21 FSIP: 50; Rec: 3' oil spotted mud; IF: surface dead in 14min ISI: dead FF: dead FSI: dead

DST #3 3646-3671; 30-30-30-30; Hydro: 1732-1682; IFP: 15-15 ISIP: 47 FFP: 15-16 FSIP: 42; Rec: 1' mud; IF: surface dead in 2min ISI: dead FF: dead FSI: dead

DST #4 3846-3853; 45-45-45-45; Hydro: 1879-1806 IFP: 81-210 ISIP: 1169 FFP: 219-314 FSIP: 1169; Rec: 180' GIP 155' 95%o 5%m 500' reversed out oil 120' 10%g 45%o 45%m; Grav: 37; IF: BOB 7min ISI: 2 1/2" dead in 37min FF: BOB 8min FSI: dead

Comments

Production casing was run to further test the Arbuckle Formation.

ROCK TYPES

	Anhy		Clyst		Gyp		Mrlst		Shgy
	Bent		Coal		Igne		Salt		Sltst
	Brec		Congl		Lmst		Shale		Ss
	Cht		Dol		Meta		Shcol		Till

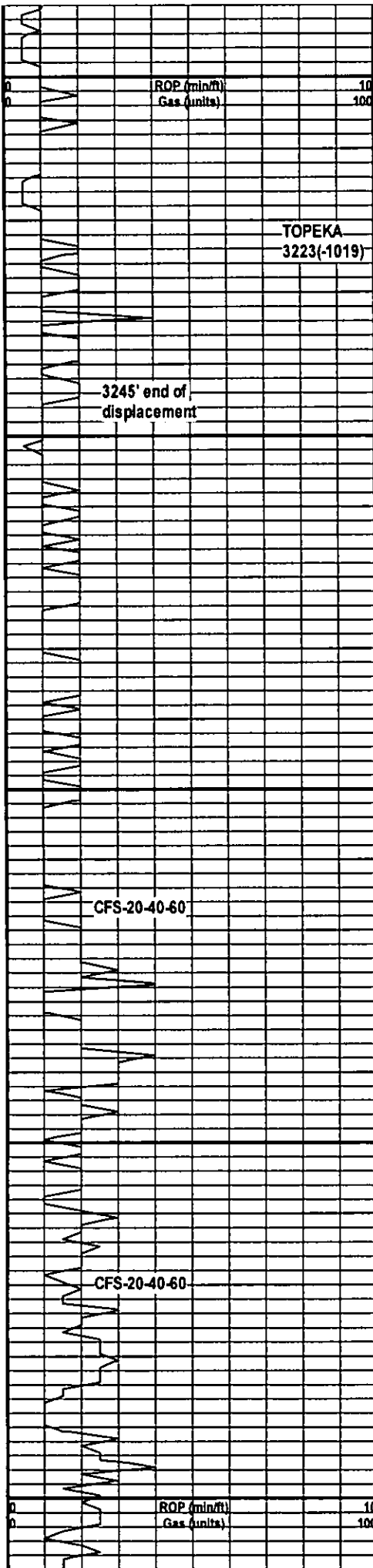
ACCESSORIES

MINERAL	<input type="checkbox"/>	Gyp	FOSSIL	<input type="checkbox"/>	Ostra	<input type="checkbox"/>	Sltstrg
<input type="checkbox"/>	Anhy	<input type="checkbox"/>	Hvymin	<input type="checkbox"/>	Pelec	<input type="checkbox"/>	Ssstrg
<input type="checkbox"/>	Arggrn	<input type="checkbox"/>	Kaol	<input type="checkbox"/>	Pellet	TEXTURE	
<input type="checkbox"/>	Arg	<input type="checkbox"/>	Marl	<input type="checkbox"/>	Pisolite	<input type="checkbox"/>	Boundst
<input type="checkbox"/>	Bent	<input type="checkbox"/>	Minxl	<input type="checkbox"/>	Plant	<input type="checkbox"/>	Chalky
<input type="checkbox"/>	Bit	<input type="checkbox"/>	Nodule	<input type="checkbox"/>	Strom	<input type="checkbox"/>	Cryxln
<input type="checkbox"/>	Brecfrag	<input type="checkbox"/>	Phos	STRINGER		<input type="checkbox"/>	Earthy
<input type="checkbox"/>	Calc	<input type="checkbox"/>	Pyr	<input type="checkbox"/>	Anhy	<input type="checkbox"/>	Finexln
<input type="checkbox"/>	Carb	<input type="checkbox"/>	Salt	<input type="checkbox"/>	Arg	<input type="checkbox"/>	Grainst
<input type="checkbox"/>	Chtdk	<input type="checkbox"/>	Sandy	<input type="checkbox"/>	Bent	<input type="checkbox"/>	Lithogr
<input type="checkbox"/>	Chtlt	<input type="checkbox"/>	Silt	<input type="checkbox"/>	Coal	<input type="checkbox"/>	Microxln
<input type="checkbox"/>	Dol	<input type="checkbox"/>	Sil	<input type="checkbox"/>	Dol	<input type="checkbox"/>	Mudst
<input type="checkbox"/>	Feldspar	<input type="checkbox"/>	Sulphur	<input type="checkbox"/>	Gyp	<input type="checkbox"/>	Packst
<input type="checkbox"/>	Ferrpel	<input type="checkbox"/>	Tuff	<input type="checkbox"/>	Ls	<input type="checkbox"/>	Wackest
<input type="checkbox"/>	Ferr			<input type="checkbox"/>	Mrst		
<input type="checkbox"/>	Glau						

OTHER SYMBOLS

POROSITY	<input type="checkbox"/>	Vuggy	ROUNDING	<input type="checkbox"/>	Spotted	EVENT		
<input type="checkbox"/>	Earthy	<input type="checkbox"/>	Rounded	<input type="checkbox"/>	Ques	<input type="checkbox"/>	Rft	
<input type="checkbox"/>	Fenest	SORTING	<input type="checkbox"/>	Subrnd	<input type="checkbox"/>	Dead	<input type="checkbox"/>	Sidewall
<input type="checkbox"/>	Fracture	<input type="checkbox"/>	Well	<input type="checkbox"/>	Subang			
<input type="checkbox"/>	Inter	<input type="checkbox"/>	Moderate	<input type="checkbox"/>	Angular			
<input type="checkbox"/>	Moldic	<input type="checkbox"/>	Poor	OIL SHOW				
<input type="checkbox"/>	Organic			<input type="checkbox"/>	Even			
<input type="checkbox"/>	Pinpoint			<input type="checkbox"/>				
				INTERVAL				
				<input type="checkbox"/>	Core			
				<input type="checkbox"/>	Dst			

Curve Track 1			Depth	Lithology	Geological Descriptions	Remarks	
ROP (min/ft)	Gas (units)					TG (Units)	
ROP (min/ft)	Gas (units)	100	30			1000	
			3050				
Anhydrite 1578(+626)							
Base Anhy 1617(+587)							
			3100				Vis: 29 Wt: 9.5 LCM-0
			3150				
				SH- grey, red/brwn w/ L.S.- crm, fn xtdn, md-wk stn, no vis por, no odor, no SFO			
				SH- grey			



3200

3250

3300

3350

3400



SH- grey, red/brwn w/ LS.- crm, sli sndy, fn xltln, md str, no vis por, no odor, no SFO

LS.- crm, fn xltln, wk-pk str, no vis por, no odor, no SFO w/SH- grey

LS.- crm, fn xltln, wk-pk str, no vis por, no odor, no SFO

LS.- crm-grey, md-pk str, no vis por, no odor, no SFO

LS.- crm, sli arg, fn xltln, wk str, pr int xltln por, fr odor, brwn sat oil stain, v pr SFO, sli chlky, rocks w. show are quite soft

as above fr odor, pr SFO w/ LS.- grey, fn xltln, wk-pk str, no vis por

as above

LS.- crm, fn xltln, pk-grn str, no vis por, fnt odor, no SFO

LS.- crm-tan, fn xltln, pk-grn str, no vis por, no odor, no SFO

LS.- crm-lt grey, fn xltln, pk-grn str, no vis por, no odor, no SFO, chlky

as above

SH- dk grey-grey

LS.- crm, freq mtd grey, pk str, no vis por, no odor, no SFO

LS.- crm-lt brwn, fn xltln, grn str, no vis por, no odor, no SFO

LS.- wht-crm, fn-micro xltln, ool grn str, pr int gran por, fnt odor, pr SFO, oil is v sticky, freq tarry-asph res, sli chlky

as above w/ com wht-crm chrt

LS.- crm, fn xltln, pk str, pr int xltln por, no odor, brwn oil stain, no SFO, chlky

LS.- wht-crm, fn xltln, grn str, no vis por, no odor, no SFO, sli chlky, freq crm chrt w/ SH- grey

LS.- crm-lt grey, fn xltln, wk-pk str, no vis por, no odor, no SFO w/ rare S.S.- wht, v fn grn, fr int gran por, no odor, sat oil stain, fr SFO on break

SH- blk w/ LS.- crm, fn xltln, grn str, pr int gran por, fr odor, pr SFO, chlky

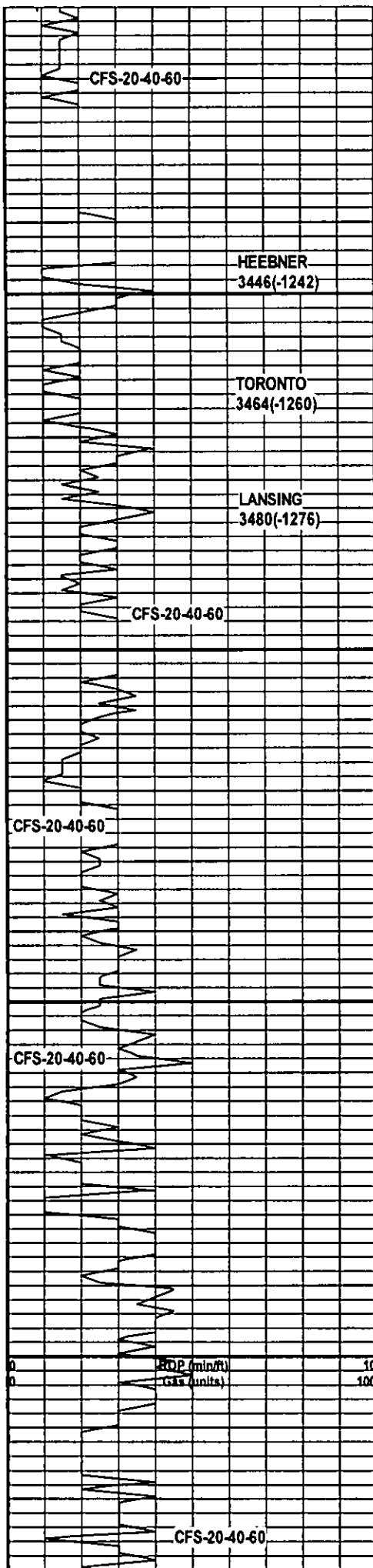
LS.- crm-tan, fn xltln, grn str, no vis por, fnt odor, no SFO, freq wht-grey-brwn chrt, scat pyrite, sli chlky w/ SH- grey, red/brwn

1000

Poor sample
quality until 3260'
sample

Vis: 56
Wt: 8.8
LCM: 1ppb

1000



3450

3500

3550

3600

L.S.- crm, fn xtn, grn stn, pr PP por, no odor, no SFO, sli chiky

L.S.- crm-tan, fn xtn, grn stn, poss int xtn por, no odor, no SFO

L.S.- crm-brwn, fn xtn, pk-grn stn, no vis por, no odor, no SFO

SH- blk, carb

○ L.S.- wht-crm, fn xtn, grn stn, pr PP por, no odor, rare sat brwn oil stain, no SFO, chiky

SH- lt grey-bl/green

L.S.- wht-crm, fn xtn, grn stn, poss int xtn por, no odor, no SFO, chiky

○ L.S.- wht-crm, fn-micro xtn, ool grn stn, scat v pr int xtn por, rare int gran por, lt brwn oil stain, no odor, no SFO

● L.S.- wht-crm, fn xtn, grn stn, pr int xtn-int gran por, fr odor, brwn sat oil stain, pr SFO, abnd wht-crm chrt, sli chiky

○ L.S.- crm, fn xtn, pk-grn stn, scat v pr int xtn por, no odor, rare brwn oil stain, no SFO w/ SH-grey-blk, red/brwn

● L.S.- wht-crm, fn xtn, grn stn, fr-gd int gran por, gd odor, brwn oil stain, pr SFO, sli chiky

● L.S.- crm, fn xtn, grn stn, fr int xtn por, gd odor, brwn sat oil stain, fr SFO

SH- grey, red

L.S.- crm, fn-micro xtn, grn stn, scat v pr int xtn por, no odor, rare blk oil stain, no SFO

● L.S.- crm, fn xtn, pk stn, fr int xtn por, fr odor, brwn sat stain, pr SFO, sli chiky

● L.S.- wht, fn xtn, grn stn, fr int gran por, frnt odor, lt brwn sat stain, v pr SFO

● L.S.- wht-crm, fn xtn, grn stn, pr-fr int gran por w/ fr int xtn por, frnt odor, fr SFO

○ L.S.- wht-crm, fn-micro xtn, grn stn, scat pr int xtn-int gran por, frnt odor, blk oil stain, no SFO w/ SH-grey-dk grey

○ L.S.- wht-crm, fn-micro xtn, grn stn, pr int xtn por, scat vugs, v frnt odor, freq asph res, rare tarry oil

○ L.S.- crm-wht, fn xtn, grn stn, pr oomoldic por, scat vugs, v frnt odor, lt brwn oil stain, pr SFO, sli chiky

L.S.- wht-crm, micro-fn xtn, grn stn, scat vugs, v frnt odor, lt brwn oil stain, rare SFO, mostly barren, sli chiky, scat wht chrt

SH- grey-blk

L.S.- crm, fn xtn, pk stn, pr int xtn por, v frnt odor, brwn oil stain, no SFO, abnd wht-brwn chrt

Drill time from 3440-3446 is not accurate, chart was changed as well as resetting the clock.

Mud check @ 3490'

Vis: 48

Wt: 9.0

LCM: 1ppb

DST #1 3472-3525

45-45-45-45

Hydro: 1660-1612

IFP: 38-192 ISIP: 695

FFP: 196-251 FSIP: 676

Rec: 120' GIP

2' oil

60' 50%o 50%w

30' 5%o 20%w 75%w

308' 95%w 5%w

Grav: 37 RW: .068@80F

Chl- 115,000ppm

IF: BOB 19min

ISI: surface dead in 17min

FF: BOB 17min

FSI: 1" dead in 35min

Pipe strap @ 3525'- 3' long

Dev: 1 3/4 deg

DST #2 3527-3558 30-30-30-

Hydro: 1668-1605

IFP: 16-18 ISIP: 186

FFP: 19-21 FSIP: 50

Rec: 3' oil spotted mud

IF: surface dead in 14min

ISI: dead

FF: dead FSI: dead

Mud Check @

3525'

Vis: 48

Wt: 9.0

LCM: 1ppb

WL: 7.2

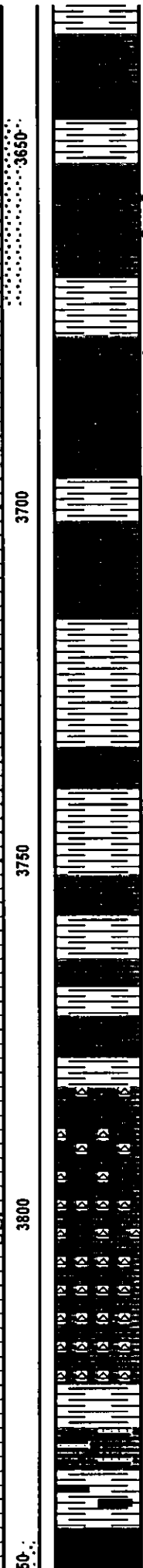
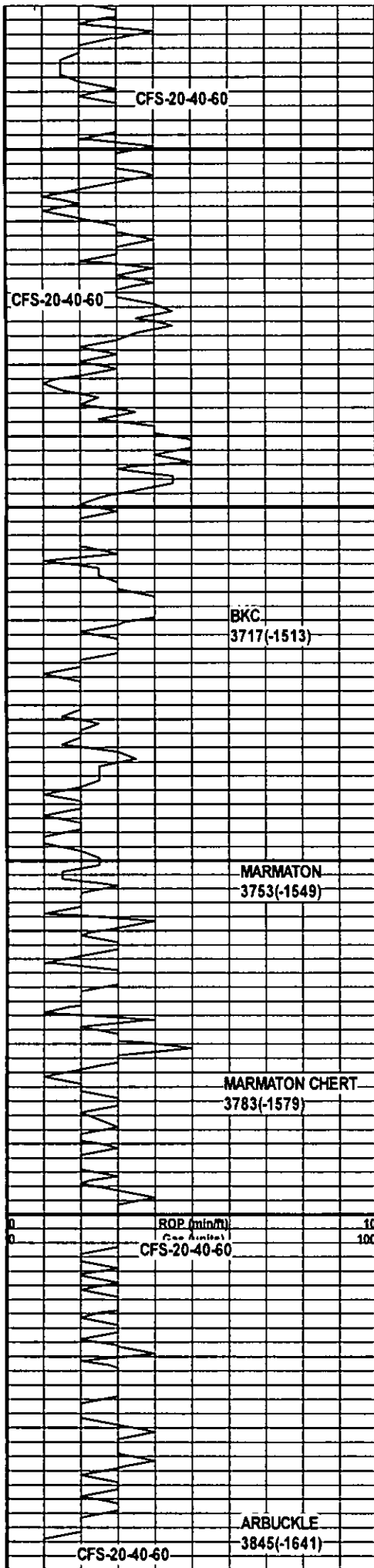
Vis: 44

Wt: 9.0

LCM: 2ppb

WL: 8.4

1000



DR grey

L.S.- wht-crm, fn-micro xtn, grn stn, pr int xtn por, scat vugs, v fnt odor, blk oil stain, rare SFO

L.S.- crm, fn xtn, grn stn, no vis por, no odor, no SFO, scat crm chrt w/ SH- grey-grey/green

L.S.- crm, fn xtn, grn stn, pr int gran por w/ pr-fr int xtn por, fnt odor, v pr SFO

L.S.- crm-wht, fn xtn, ool grn stn, pr oomoldic por w/ pr-fr int xtn por, fr odor, fr SFO w/ SH- dk grey-blk

L.S.- wht, v fn-fn xtn, v pr int gran por, v fnt odor, fr show of dk brwn sticky oil

L.S.- wht-tan, fn xtn, grn stn, v pr int gran por, fr odor, pr show of sticky dk brwn oil, freq tarry res, chlky
SH- grey-dk grey

L.S.- crm-brwn, fn xtn, pk-grn stn, no vis por, no odor, no SFO
as above

SH- grey-dk grey, red/brwn

SH- red/brwn

SH- vari-color

L.S.- crm, fn-micro xtn, pk-grn stn, no vis por, no odor, no SFO, sli chlky

SH- vari-color w/ L.S.- crm-lav, lav is arg, fn xtn, wk-pk stn, no vis por, no odor, no SFO

L.S.- wht-crm, fn-micro xtn, pk-grn stn, no vis por, no odor, no SFO, sli chlky
as above w/ com wht-orng chrt, no odor, rare dk brwn asph res

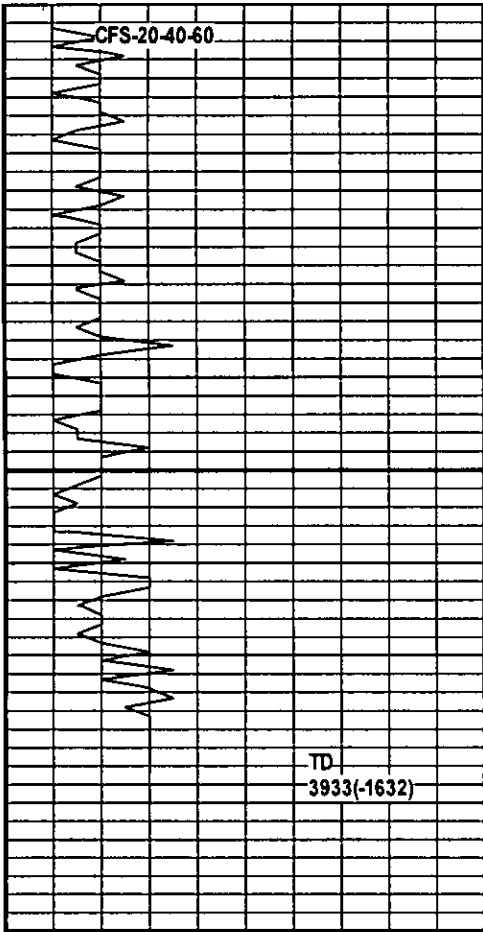
L.S.- wht-crm, chrt, fn xtn, fnly sucr, pr int xtn por, scat pr PP por in chrt, abnd wht-orng chrt, v fnt odor, v pr SFO, sli chlky
as above no odor, no SFO, barren

as above w/ SH- grey, red/brwn

L.S.- wht-v lt grey, sandy, fn xtn, no vis por, no odor, no SFO w/ SH-red/brwn, grey-grey/green w/ scat Dolo- tan, v fn xtn, pr int xtn por, no SFO, spty brwn oil stain

Dolo- wht-crm, fn-med xtn, fr int xtn por, gd odor, brwn sat stain, fr-gd SFO

DST #3 3646-3671 30-30-30-30	1000
Hydro: 1732-1682	
IFP: 15-15 ISIP: 47	
FFP: 15-16 FSIP: 42	
Rec: 1' mud	
IF: surface dead in 2min	
ISI: dead	
FF: dead FSI: dead	
Vis: 54	
Wt: 9.0	
LCM: 1ppb	
Vis: 54	
Wt: 9.2	
LCM: 1ppb	
WL: 7.2	
DST #4 3846-3853	



38
3900
50

• Dolo- wht- crm, fn-med xtln, fr int xtln por, scat vugs, gd odor, gd SFO

as above, str odor, gd SFO

as above, gd odor, gd SFO, rare asph res

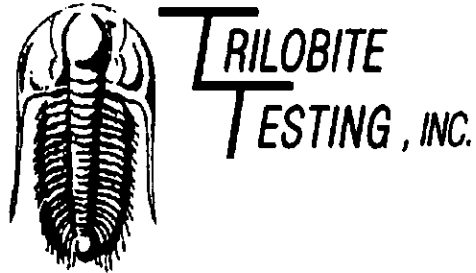
Dolo- wht, fn-med xtln, fr int xtln por, gd odor, fr SFO, freq asph res, sli chlky, com crm-ylw/orng chrt, increase in barren dolo

as above, gd odor, pr SFO, less chrt, mostly barren

Dolo- wht, fn-med xtln, fr int xtln por, fr odor, v pr SFO, com blk asph res, sli chlky, mostly barren

Dolo- wht- crm, fn xtln, pr int xtln por, frt odor, no SFO

45-45-45-45
Hydro: 1879-1806
IFP: 81-210 ISIP: 1169
FFP: 219-314 FSIP: 1169
Rec: 180' GIP
155' 95%o 5% m
500' reversed out oil
120' 10%g 45%o 45% m
Grav: 37
IF: BOB 7min ISI: 2 1/2" dead in 37min
FF: BOB 8min FSI: dead



DRILL STEM TEST REPORT

Prepared For: **Tengasco, Inc.**

PO Box 458
Hays, KS 67601

ATTN: Clayton Erickson

Schoenthaler #5

34-12s-21w Trego,KS

Start Date: 2012.04.01 @ 06:49:47

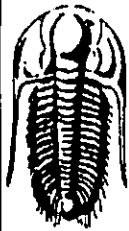
End Date: 2012.04.01 @ 13:52:17

Job Ticket #: 45701 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.04.05 @ 13:37:11

Tengasco, Inc. 34-12s-21w Trego,KS Schoenthaler #5 DST # 1 LKC "A-C" 2012.04.01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Tengasco, Inc.

34-12s-21w Trego, KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

Job Ticket: 45701

DST#: 1

ATTN: Clayton Erickson

Test Start: 2012.04.01 @ 06:49:47

GENERAL INFORMATION:

Formation: **LKC "A-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:50:17

Time Test Ended: 13:52:17

Test Type: Conventional Bottom Hole (Initial)

Tester: Brian Fairbank

Unit No: 41

Interval: **3472.00 ft (KB) To 3525.00 ft (KB) (TVD)**

Reference Elevations: 2204.00 ft (KB)

Total Depth: 3525.00 ft (KB) (TVD)

2195.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8734

Outside

Press@RunDepth: 250.90 psig @ 3475.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.01

End Date:

2012.04.01

2012.04.01

Start Time: 06:49:48

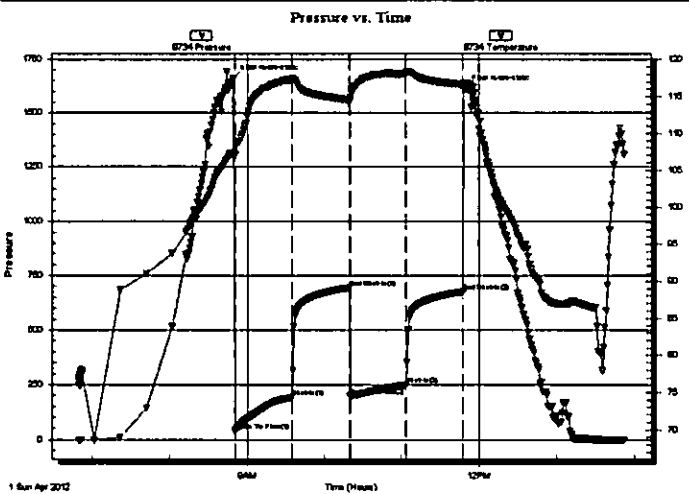
End Time:

13:52:17

Time On Btm: 2012.04.01 @ 08:49:17

Time Off Btm: 2012.04.01 @ 11:49:47

TEST COMMENT: IFF - BOB 19 min
ISI - sur blow back - died 17 min
FFP - BOB 17 min
FSI - 1" blow back - died 35 min



PRESSURE SUMMARY

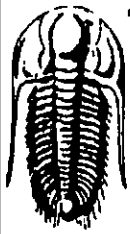
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1659.61	107.27	Initial Hydro-static
1	38.42	106.95	Open To Flow (1)
45	191.58	117.31	Shut-in(1)
90	694.64	114.56	End Shut-in(1)
91	196.14	114.45	Open To Flow (2)
134	250.90	118.13	Shut-in(2)
179	676.44	116.60	End Shut-in(2)
181	1612.30	116.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
308.00	MW 95%W, 5%M	1.51
30.00	VSOCWM 5%O, 20%W, 75%M	0.40
60.00	OCM 50%O, 50%M	0.84
2.00	FREE OIL 95%O, 5%M	0.03
0.00	120' GIP	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRIBOLITE
TESTING, INC.**

DRILL STEM TEST REPORT

Tengasco, Inc.

34-12s-21w Trego,KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

Job Ticket: 45701

DST#: 1

ATTN: Clayton Erickson

Test Start: 2012.04.01 @ 06:49:47

GENERAL INFORMATION:

Formation: **LKC "A-C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:50:17
Time Test Ended: 13:52:17

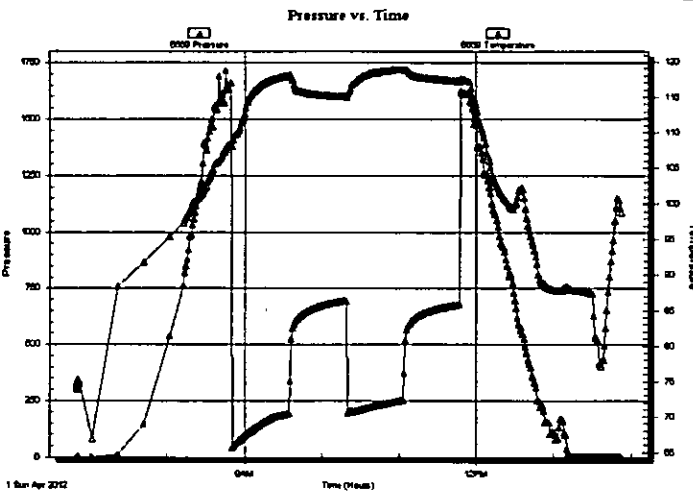
Test Type: Conventional Bottom Hole (Initial)
Tester: Brian Fairbank
Unit No: 41

Interval: **3472.00 ft (KB) To 3525.00 ft (KB) (TVD)**
Total Depth: 3525.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2204.00 ft (KB)
2195.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: **6669** Inside
Press@RunDepth: psig @ 3475.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.04.01 End Date: 2012.04.01 Last Calib.: 1899.12.30
Start Time: 06:49:42 End Time: 13:52:11 Time On Btm:
Time Off Btm:

TEST COMMENT: IFP - BOB 19 min
ISI - sur blow back - died 17 min
FFP - BOB 17 min
FSI - 1" blow back - died 35 min



PRESSURE SUMMARY

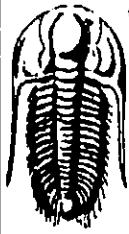
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
308.00	MW 95%W, 5%M	1.51
30.00	VSOCWM 5%O, 20%W, 75%M	0.40
60.00	OCM 50%O, 50%M	0.84
2.00	FREE OIL 95%O, 5%M	0.03
0.00	120' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco, Inc.

34-12s-21w Trego, KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

Job Ticket: 45701

DST#: 1

ATTN: Clayton Erickson

Test Start: 2012.04.01 @ 06:49:47

Tool Information

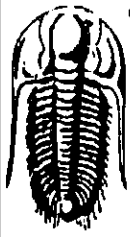
Drill Pipe:	Length: 3165.00 ft	Diameter: 3.80 inches	Volume: 44.40 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 310.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose: 90000.00 lb
			Total Volume: 45.92 bbl	Tool Chased 2.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3472.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	80.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			3450.00	
Hydraulic tool	5.00			3455.00	
Jars	5.00			3460.00	
Safety Joint	2.00			3462.00	
Packer	5.00			3467.00	27.00 Bottom Of Top Packer
Packer	5.00			3472.00	
Stubb	1.00			3473.00	
Perforations	1.00			3474.00	
Change Over Sub	1.00			3475.00	
Recorder	0.00	6669	Inside	3475.00	
Recorder	0.00	8734	Outside	3475.00	
Blank Spacing	31.00			3506.00	
Change Over Sub	1.00			3507.00	
Perforations	15.00			3522.00	
Bullnose	3.00			3525.00	53.00 Bottom Packers & Anchor

Total Tool Length: 80.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco, Inc.

34-12s-21w Trego, KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

Job Ticket: 45701

DST#: 1

ATTN: Clayton Erickson

Test Start: 2012.04.01 @ 06:49:47

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Satinity:

115000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
308.00	MW 95%W, 5%M	1.515
30.00	VSOCWM 5%O, 20%W, 75%M	0.403
60.00	OCM 50%O, 50%M	0.842
2.00	FREE OIL 95%O, 5%M	0.028
0.00	120' GIP	0.000

Total Length: 400.00 ft Total Volume: 2.788 bbl

Num Fluid Samples: 0

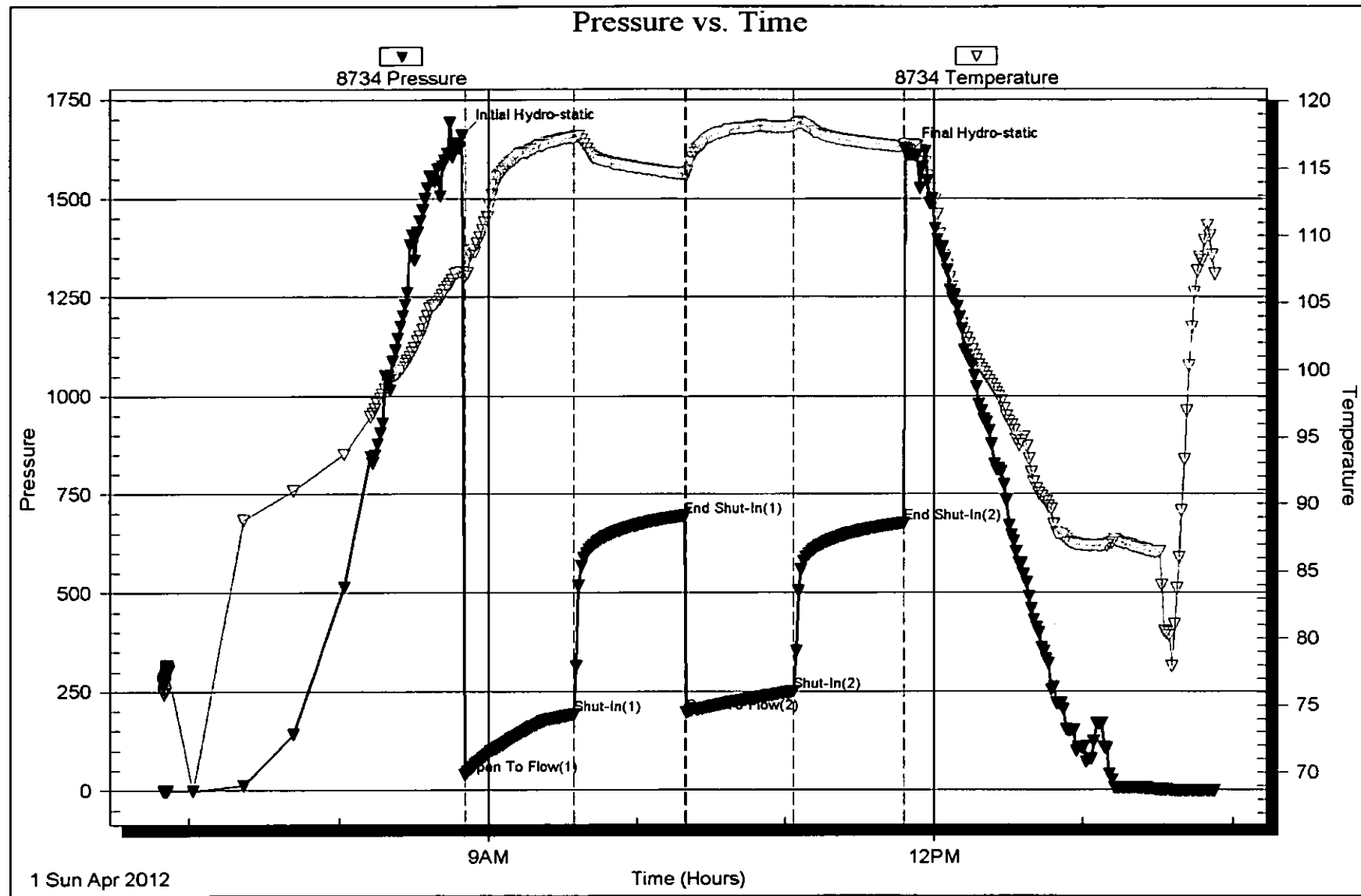
Num Gas Bombs: 0

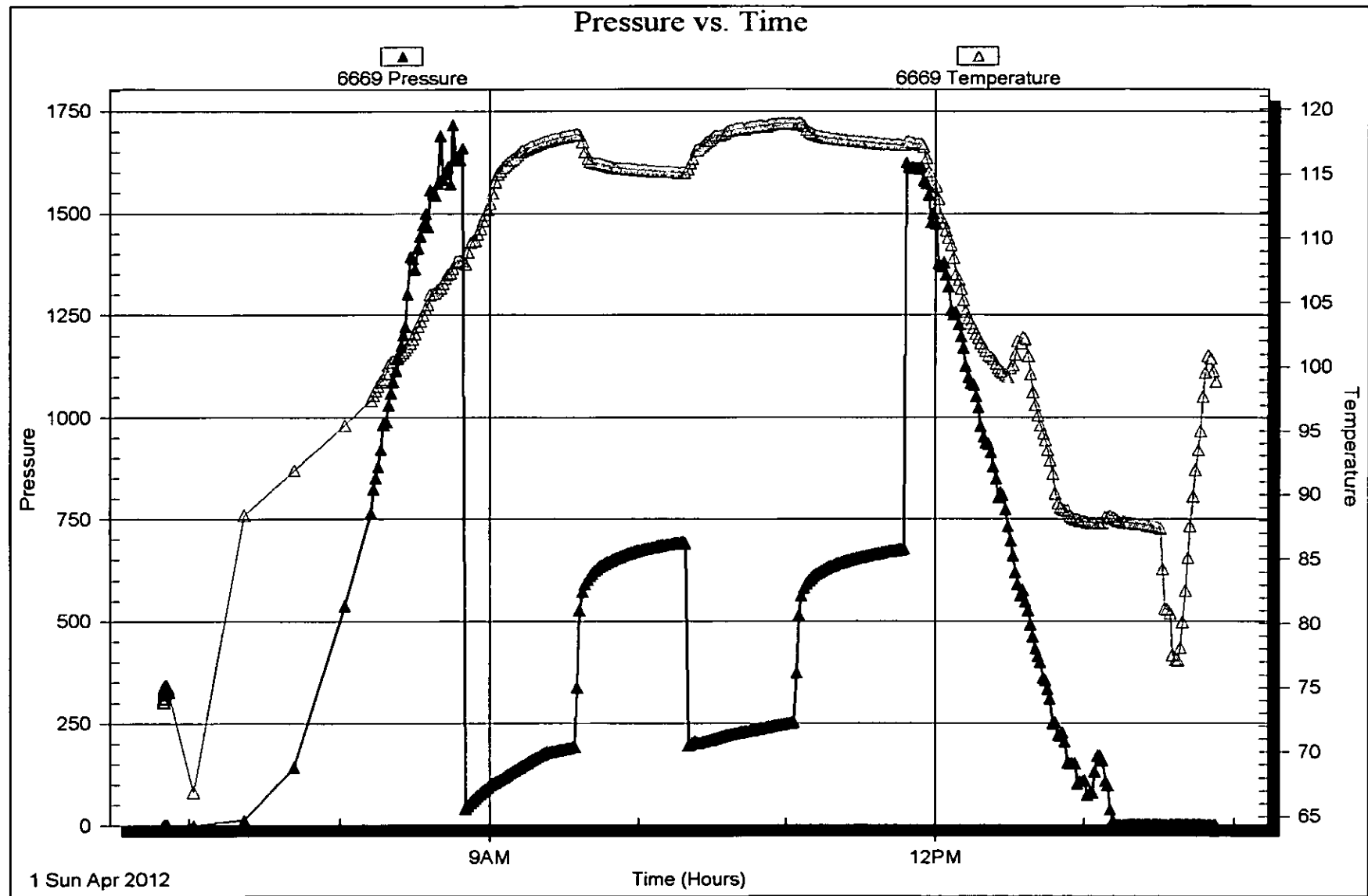
Serial #:

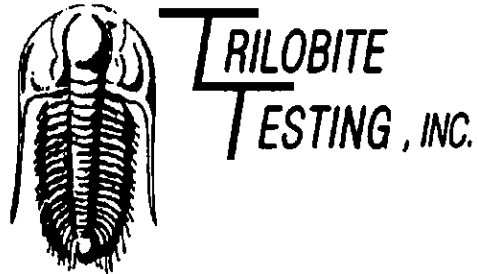
Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Tengasco, Inc.**

PO Box 458
Hays, KS 67601

ATTN: Clayton Erickson

Schoenthaler #5

34-12s-21w Trego,KS

Start Date: 2012.04.01 @ 19:54:52

End Date: 2012.04.02 @ 01:41:52

Job Ticket #: 45702 DST #: 2

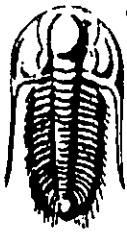
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.04.05 @ 13:36:19

Tengasco, Inc. 34-12s-21w Trego,KS Schoenthaler #5 DST # 2 LKC "D-E" 2012.04.01



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Tengasco, Inc.

34-12s-21w Trego, KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

Job Ticket: 45702

DST#: 2

ATTN: Clayton Erickson

Test Start: 2012.04.01 @ 19:54:52

GENERAL INFORMATION:

Formation: **LKC "D-E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:47:52

Time Test Ended: 01:41:52

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: 3527.00 ft (KB) To 3558.00 ft (KB) (TVD)

Reference Elevations: 2204.00 ft (KB)

Total Depth: 3558.00 ft (KB) (TVD)

2195.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8734

Outside

Press@RunDepth: 21.47 psig @ 3530.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.01 End Date:

2012.04.02

Last Calib.: 2012.04.02

Start Time: 19:54:53

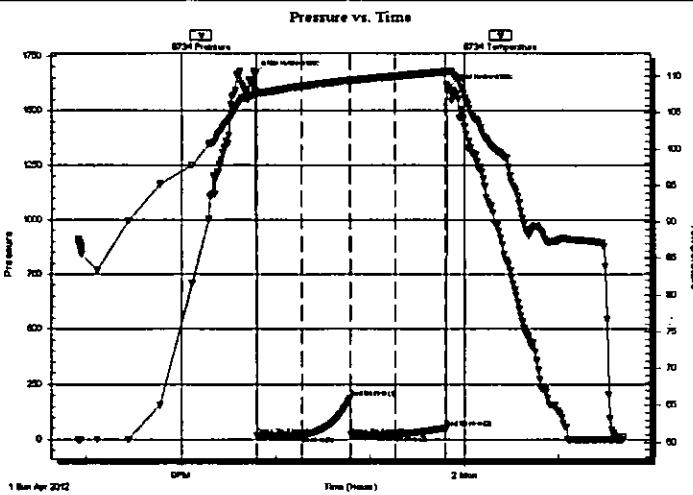
End Time:

01:41:52

Time On Btm: 2012.04.01 @ 21:46:52

Time Off Btm: 2012.04.01 @ 23:50:22

TEST COMMENT: IFP - weak sur blow - died 14 min
ISI - no blow back
FFP - no blow
FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1667.77	107.81	Initial Hydro-static
1	15.79	107.54	Open To Flow (1)
30	17.85	108.61	Shut-In(1)
61	185.57	109.43	End Shut-In(1)
61	18.92	109.39	Open To Flow (2)
89	21.47	109.99	Shut-In(2)
121	50.21	110.61	End Shut-In(2)
124	1604.98	110.70	Final Hydro-static

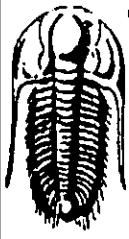
Recovery

Length (ft)	Description	Volume (bbl)
3.00	O spd MUD 100%	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILLOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Tengasco, Inc.

34-12s-21w Trego, KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

Job Ticket: 45702

DST#: 2

ATTN: Clayton Erickson

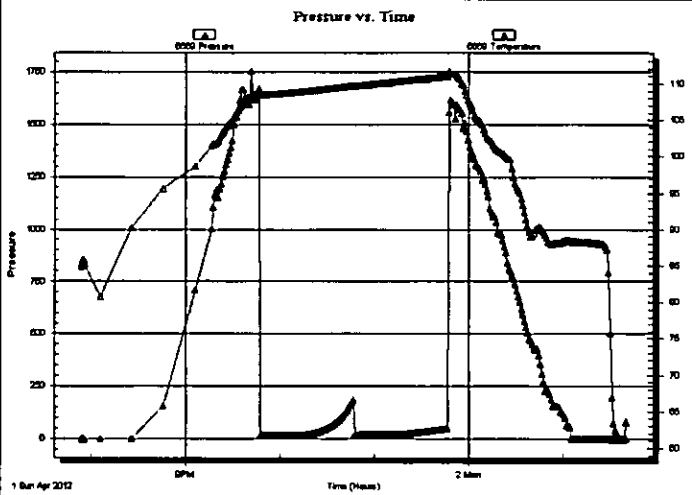
Test Start: 2012.04.01 @ 19:54:52

GENERAL INFORMATION:

Formation: **LKC "D-E"**
Deviated: **No Whipstock:** _____ **ft (KB)** Test Type: **Conventional Bottom Hole (Reset)**
Time Tool Opened: **21:47:52** Tester: **Brian Fairbank**
Time Test Ended: **01:41:52** Unit No: **41**
Interval: **3527.00 ft (KB) To 3558.00 ft (KB) (TVD)** Reference Elevations: **2204.00 ft (KB)**
Total Depth: **3558.00 ft (KB) (TVD)** **2195.00 ft (CF)**
Hole Diameter: **7.88 inches** Hole Condition: **Good** KB to GR/CF: **9.00 ft**

Serial #: **6669** Inside
Press@RunDepth: _____ **psig @ 3530.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2012.04.01** End Date: **2012.04.02** Last Calib.: **1899.12.30**
Start Time: **19:54:09** End Time: **01:41:08** Time On Btm:
Time Off Btm:

TEST COMMENT: IFP - weak sur blow - died 14 min
ISI - no blow back
FFP - no blow
FSI - no blow back



PRESSURE SUMMARY

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

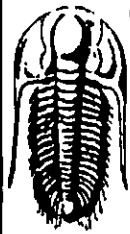
Recovery

Length (ft)	Description	Volume (bbl)
3.00	O spd MUD 100%	0.01

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco, Inc.

34-12s-21w Trego, KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

Job Ticket: 45702

DST#: 2

ATTN: Clayton Erickson

Test Start: 2012.04.01 @ 19:54:52

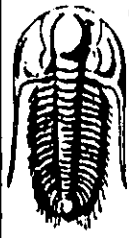
Tool Information

Drill Pipe:	Length: 3197.00 ft	Diameter: 3.80 inches	Volume: 44.85 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 310.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 46.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	3527.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3505.00	
Hydraulic tool	5.00			3510.00	
Jars	5.00			3515.00	
Safety Joint	2.00			3517.00	
Packer	5.00			3522.00	27.00 Bottom Of Top Packer
Packer	5.00			3527.00	
Stubb	1.00			3528.00	
Perforations	2.00			3530.00	
Recorder	0.00	6669	Inside	3530.00	
Recorder	0.00	8734	Outside	3530.00	
Perforations	25.00			3555.00	
Bullnose	3.00			3558.00	31.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco, Inc.

34-12s-21w Trego, KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

Job Ticket: 45702

DST#: 2

ATTN: Clayton Erickson

Test Start: 2012.04.01 @ 19:54:52

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	O spd MJD 100%	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

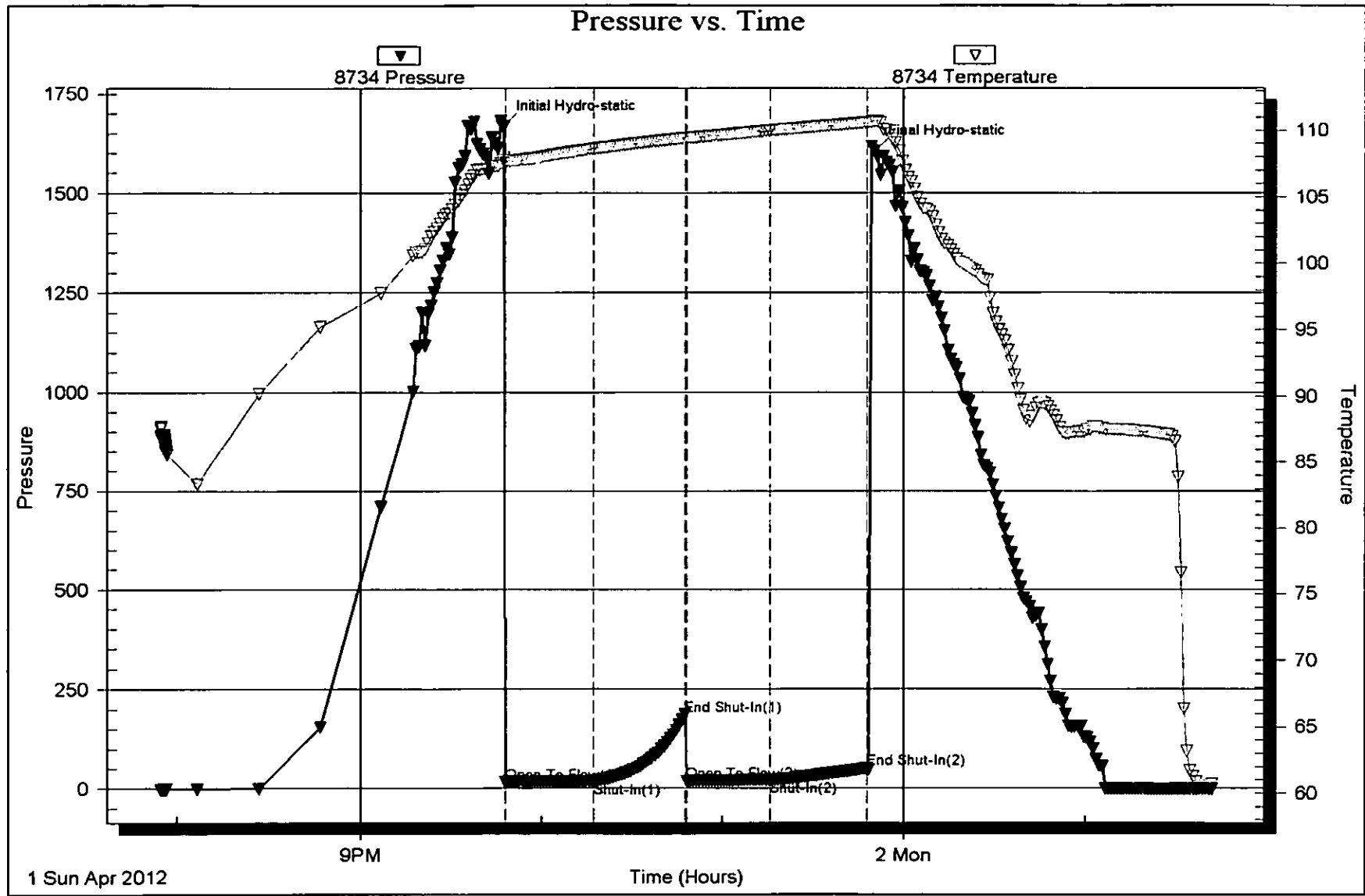
Num Gas Bombs: 0

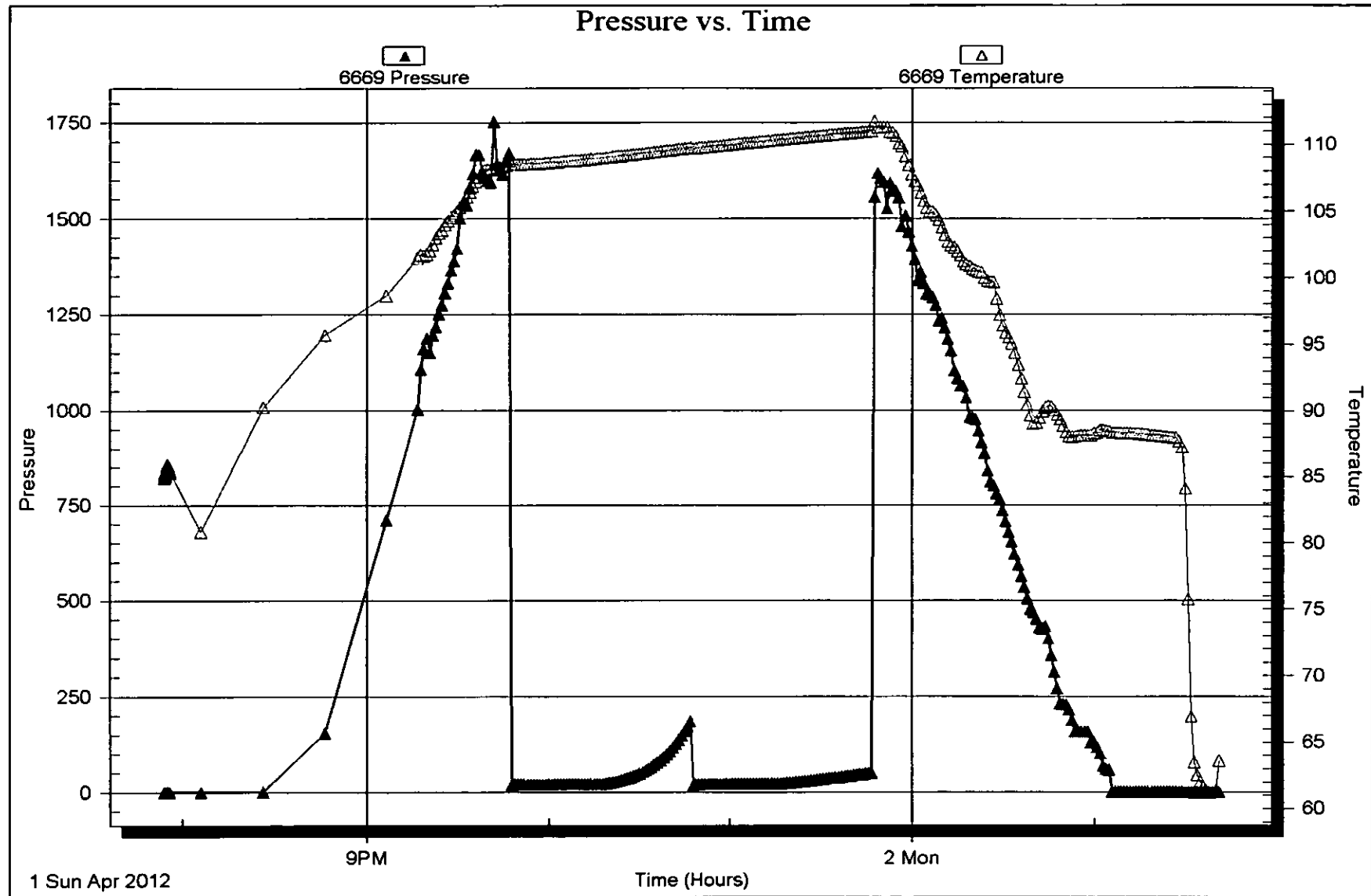
Serial #:

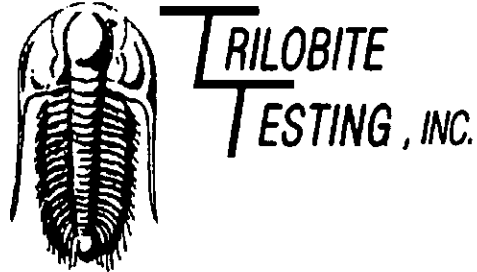
Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Tengasco, Inc.**

PO Box 458
Hays, KS 67601

ATTN: Clayton Erickson

Schoenthaler #5

34-12s-21w Trego,KS

Start Date: 2012.04.02 @ 15:13:07

End Date: 2012.04.02 @ 21:36:37

Job Ticket #: 45703 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.04.05 @ 13:35:37

Tengasco, Inc. 34-12s-21w Trego,KS Schoenthaler #5 DST # 3 LKC -J 2012.04.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Tengasco, Inc.

34-12s-21w Trego, KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

Job Ticket: 45703 DST#: 3

ATTN: Clayton Erickson

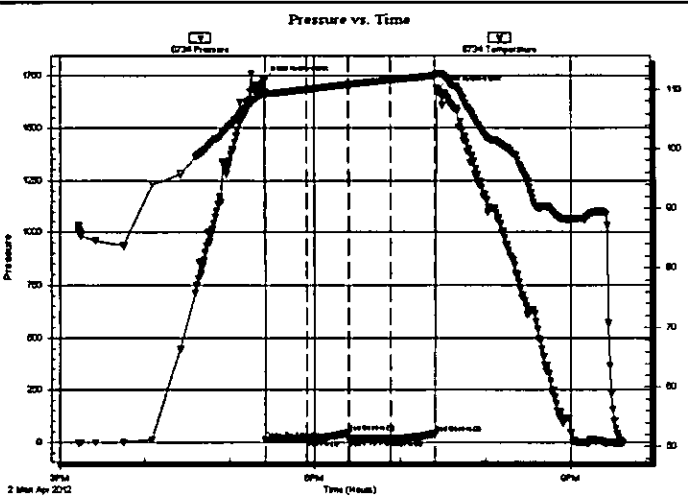
Test Start: 2012.04.02 @ 15:13:07

GENERAL INFORMATION:

Formation: **LKC "J"**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: **17:25:07**
 Time Test Ended: **21:36:37**
 Interval: **3646.00 ft (KB) To 3671.00 ft (KB) (TVD)**
 Total Depth: **3671.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole (Reset)**
 Tester: **Brian Fairbank**
 Unit No: **41**
 Reference Elevations: **2204.00 ft (KB)**
2195.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8734 **Outside**
 Press@RunDepth: **15.66 psig @ 3648.00 ft (KB)**
 Start Date: **2012.04.02** End Date: **2012.04.02**
 Start Time: **15:13:08** End Time: **21:36:37**
 Capacity: **8000.00 psig**
 Last Calib.: **2012.04.02**
 Time On Btm: **2012.04.02 @ 17:24:07**
 Time Off Btm: **2012.04.02 @ 19:26:37**

TEST COMMENT: IFF - sur blow - died 2 min
 ISI - no blow back
 FFP - no blow
 FSI - no blow back



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1732.26	109.55	Initial Hydro-static
1	15.01	109.21	Open To Flow (1)
30	15.41	110.00	Shut-In(1)
60	46.50	110.85	End Shut-In(1)
60	15.15	110.86	Open To Flow (2)
89	15.66	111.62	Shut-In(2)
121	41.58	112.36	End Shut-In(2)
123	1681.83	112.72	Final Hydro-static

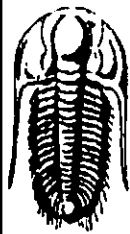
Recovery

Length (ft)	Description	Volume (bbl)
1.00	DRL MUD 100%	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Tengasco, Inc.

34-12s-21w Trego, KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

Job Ticket: 45703

DST#: 3

ATTN: Clayton Erickson

Test Start: 2012.04.02 @ 15:13:07

GENERAL INFORMATION:

Formation: LKC "J"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:25:07

Time Test Ended: 21:36:37

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: 3646.00 ft (KB) To 3671.00 ft (KB) (TVD)

Reference Elevations: 2204.00 ft (KB)

Total Depth: 3671.00 ft (KB) (TVD)

2195.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 6669

Inside

Press@RunDepth: psig @ 3648.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.02 End Date: 2012.04.02

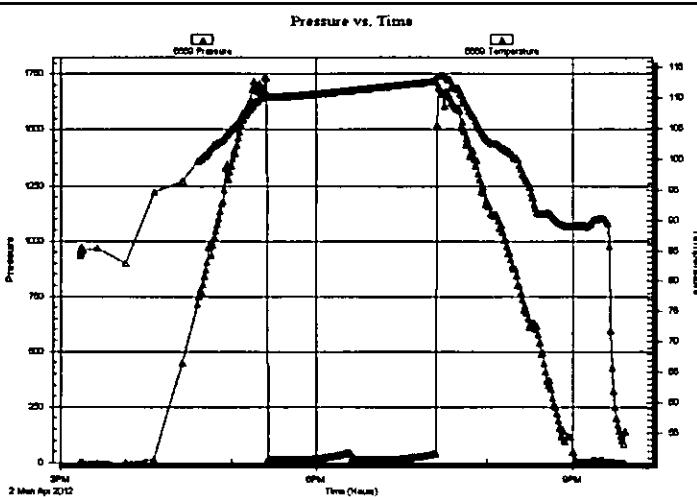
Last Calib.: 1899.12.30

Start Time: 15:13:20 End Time: 21:36:49

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP - sur blow - died 2 min
ISI - no blow back
FFP - no blow
FSI - no blow back



PRESSURE SUMMARY

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

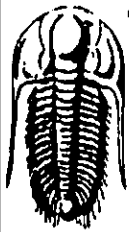
Recovery

Length (ft)	Description	Volume (bbl)
1.00	DRL MUD 100%	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco, Inc.

34-12s-21w Trego, KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

Job Ticket: 45703

DST#: 3

ATTN: Clayton Erickson

Test Start: 2012.04.02 @ 15:13:07

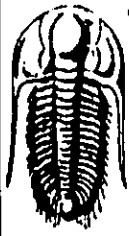
Tool Information

Drill Pipe:	Length: 3322.00 ft	Diameter: 3.80 inches	Volume: 46.60 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 310.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 48.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3646.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3624.00	
Hydraulic tool	5.00			3629.00	
Jars	5.00			3634.00	
Safety Joint	2.00			3636.00	
Packer	5.00			3641.00	27.00 Bottom Of Top Packer
Packer	5.00			3646.00	
Stubb	1.00			3647.00	
Perforations	1.00			3648.00	
Recorder	0.00	6669	inside	3648.00	
Recorder	0.00	8734	Outside	3648.00	
Perforations	20.00			3668.00	
Bullnose	3.00			3671.00	25.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco, Inc.

34-12s-21w Trego,KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

Job Ticket: 45703

DST#: 3

ATTN: Clayton Erickson

Test Start: 2012.04.02 @ 15:13:07

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: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	DRL MUD 100%	0.005

Total Length: 1.00 ft

Total Volume: 0.005 bbl

Num Fluid Samples: 0

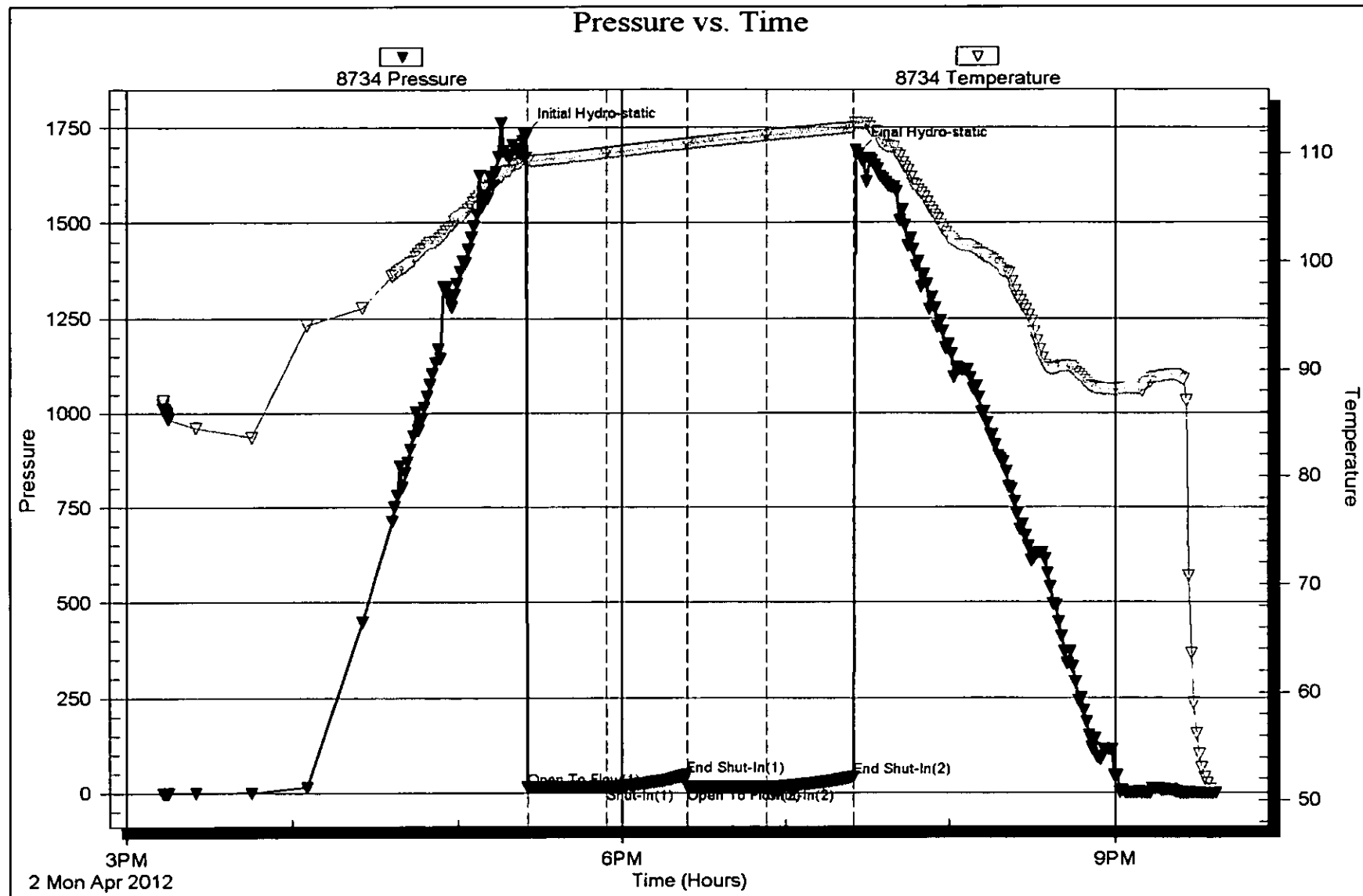
Num Gas Bombs: 0

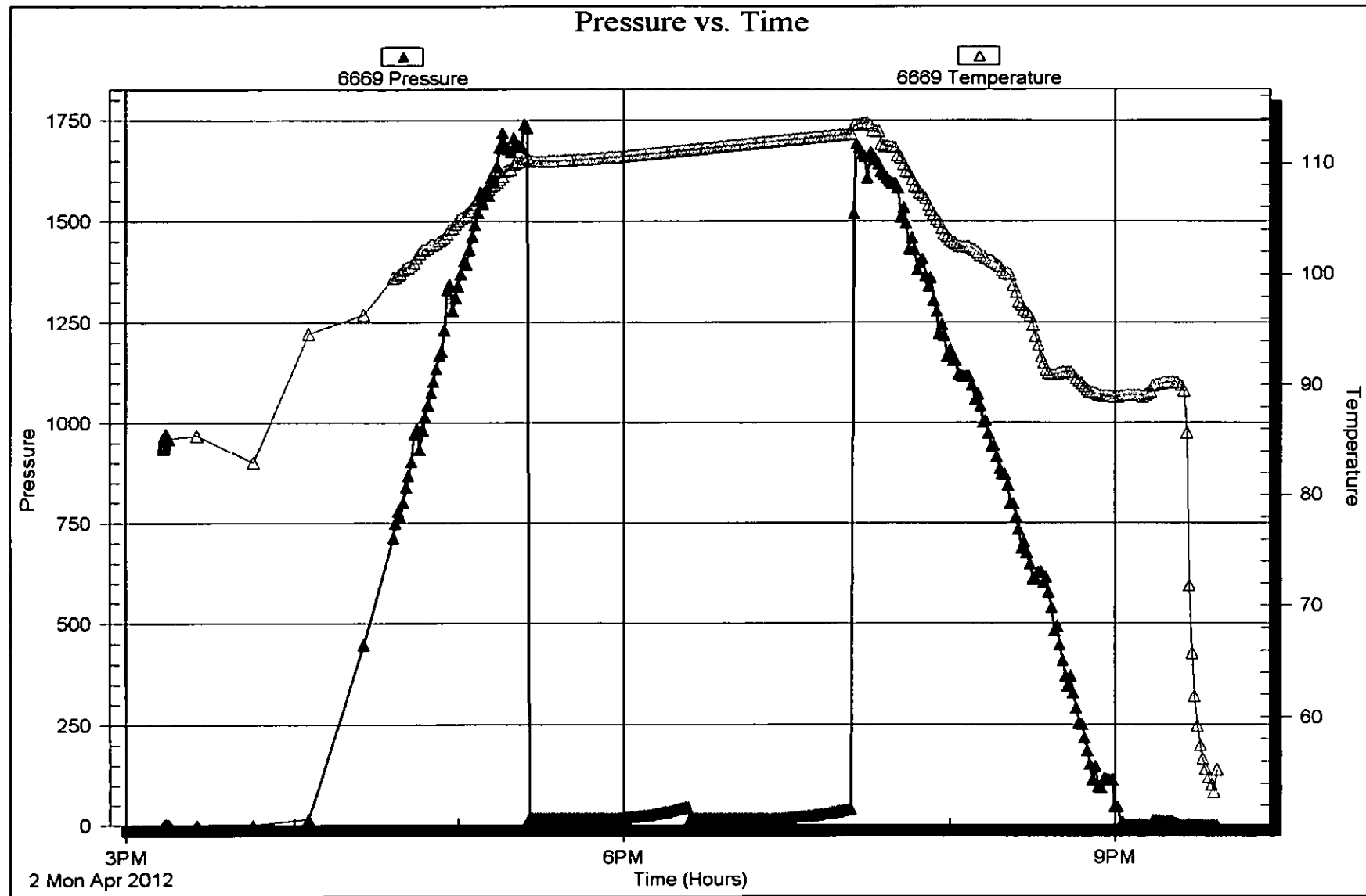
Serial #:

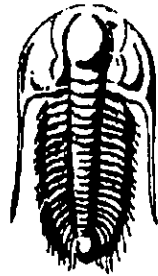
Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Tengasco, Inc.**

PO Box 458
Hays, KS 67601

ATTN: Clayton Erickson

Schoenthaler #5

34-12s-21w Trego,KS

Start Date: 2012.04.03 @ 14:32:00

End Date: 2012.04.03 @ 22:56:30

Job Ticket #: 45704 DST #: 4

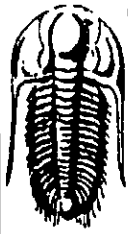
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.04.05 @ 13:33:35

Tengasco, Inc. 34-12s-21w Trego,KS Schoenthaler #5 DST # 4 Arbuckle 2012.04.03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Tengasco, Inc.

34-12s-21w Trego, KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

Job Ticket: 45704

DST#: 4

ATTN: Clayton Erickson

Test Start: 2012.04.03 @ 14:32:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 16:51:00

Time Test Ended: 22:56:30

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Brian Fairbank**

Unit No: **41**

Interval: **3846.00 ft (KB) To 3853.00 ft (KB) (TVD)**

Total Depth: **3853.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2204.00 ft (KB)**

2195.00 ft (CF)

KB to GR/CF: **9.00 ft**

Serial #: **8734**

Outside

Press@RunDepth: **313.98 psig @ 3847.00 ft (KB)**

Start Date: **2012.04.03**

End Date:

2012.04.03

Capacity: **8000.00 psig**

Last Calib.: **2012.04.03**

Start Time: **14:32:01**

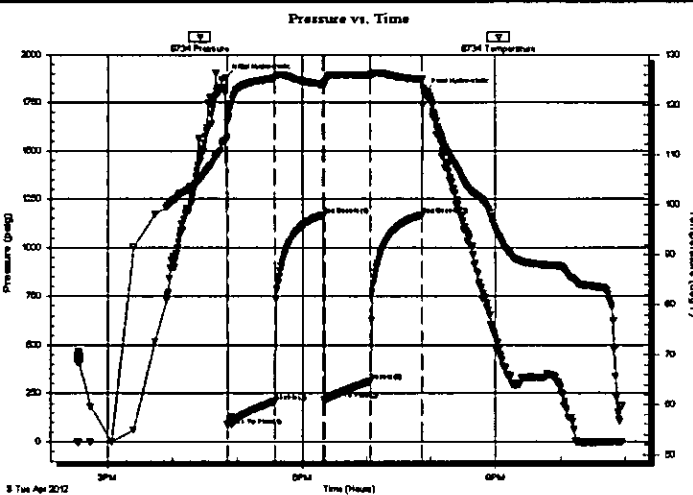
End Time:

22:56:30

Time On Btm: **2012.04.03 @ 16:49:30**

Time Off Btm: **2012.04.03 @ 19:54:30**

TEST COMMENT: IFP - BOB 7 min
ISI - 2 1/2" blow back - died 37 min
FFP - BOB 8 min
FSI - no blow back



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1879.01	112.88	Initial Hydro-static
2	81.04	116.58	Open To Flow (1)
45	209.63	125.42	Shut-In(1)
90	1168.83	124.12	End Shut-In(1)
91	218.83	123.86	Open To Flow (2)
135	313.98	125.93	Shut-In(2)
183	1169.41	125.08	End Shut-In(2)
185	1805.79	122.07	Final Hydro-static

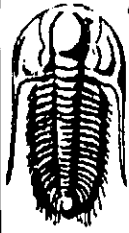
Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMCO 10%G, 45%O, 45%M	0.59
500.00	REVERSED OUT OIL	5.28
155.00	FREE OIL 95%O, 5%M	2.17
0.00	180' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco, Inc.

34-12s-21w Trego, KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

Job Ticket: 45704

DST#: 4

ATTN: Clayton Erickson

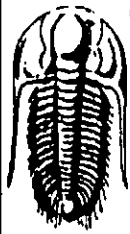
Test Start: 2012.04.03 @ 14:32:00

Tool Information

Drill Pipe:	Length: 3540.00 ft	Diameter: 3.80 inches	Volume: 49.66 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 310.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 51.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3846.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	34.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3824.00	
Hydraulic tool	5.00			3829.00	
Jars	5.00			3834.00	
Safety Joint	2.00			3836.00	
Packer	5.00			3841.00	27.00 Bottom Of Top Packer
Packer	5.00			3846.00	
Stubb	1.00			3847.00	
Recorder	0.00	6669	Inside	3847.00	
Recorder	0.00	8734	Outside	3847.00	
Perforations	3.00			3850.00	
Bullnose	3.00			3853.00	7.00 Bottom Packers & Anchor

Total Tool Length: 34.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco, Inc.

34-12s-21w Trego,KS

PO Box 458
Hays, KS 67601

Schoenthaler #5

Job Ticket: 45704

DST#: 4

ATTN: Clayton Erickson

Test Start: 2012.04.03 @ 14:32:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	GMCO 10%G, 45%O, 45%M	0.590
500.00	REVERSED OUT OIL	5.283
155.00	FREE OIL 95%O, 5%M	2.174
0.00	180' GIP	0.000

Total Length: 775.00 ft Total Volume: 8.047 bbl

Num Fluid Samples: 0

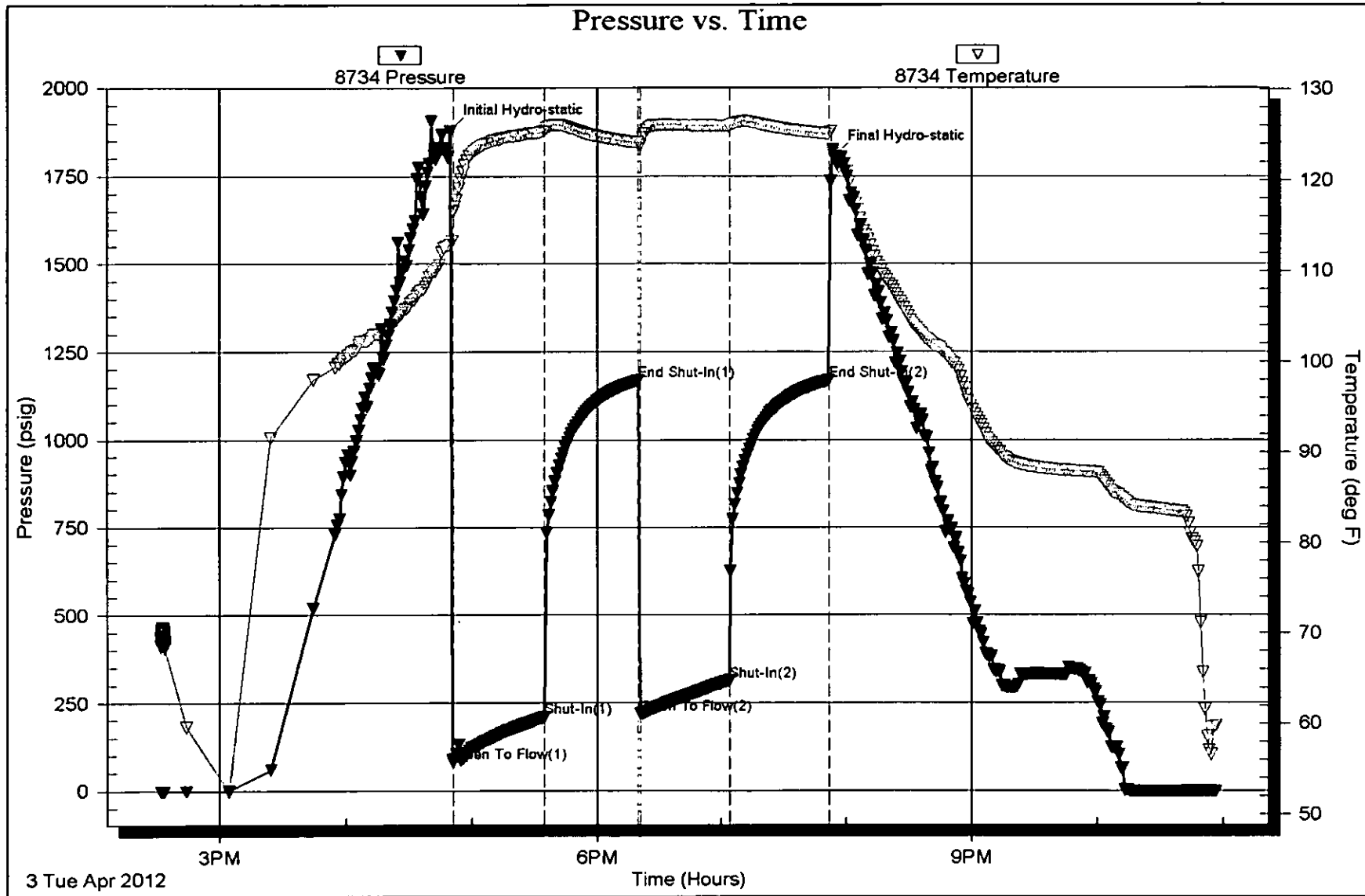
Num Gas Bombs: 0

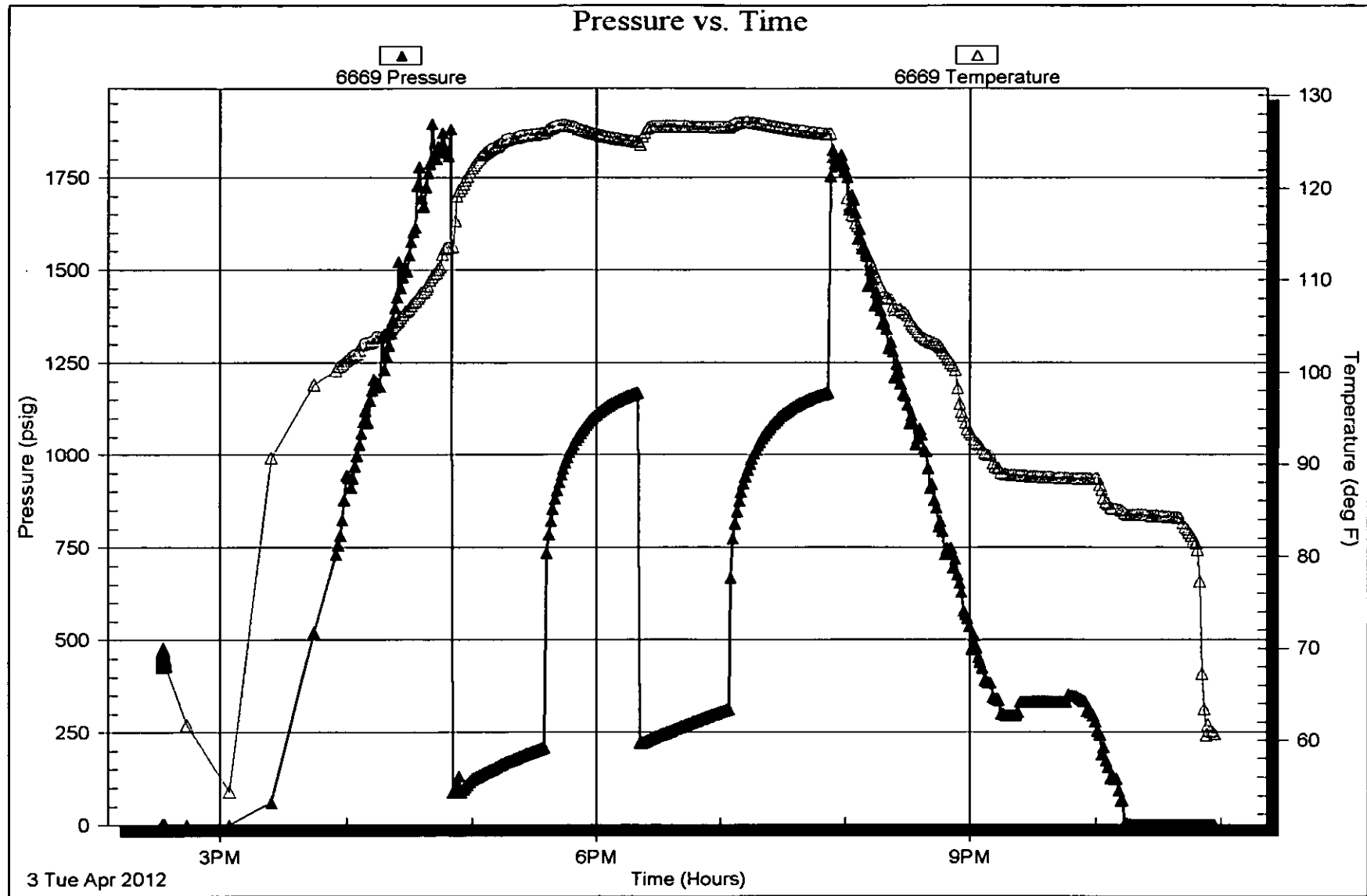
Serial #:

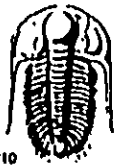
Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
APR 05 2012
BY: _____

Test Ticket

NO. 45701

Well Name & No. <u>Schoenthaler #5</u>	Test No. <u>1</u>	Date <u>4.1.12</u>
Company <u>Tengsico</u>	Elevation <u>2204</u>	KB <u>2195</u> GL
Address <u>1327 Morse Rd PO Box 4578 Hays, KS 67601</u>		
Co. Rep / Geo. <u>Clayton Erickson</u>	Rig <u>H2 3</u>	
Location: Sec. <u>34</u> Twp. <u>12</u> Rge. <u>21</u> Co. <u>Trego</u> State <u>Ks</u>		

Interval Tested <u>3472-3525</u>	Zone Tested <u>LKC "A-C"</u>	
Anchor Length <u>53</u>	Drill Pipe Run <u>3165</u>	Mud Wt. <u>9.0</u>
Top Packer Depth <u>3467</u>	Drill Collars Run <u>310</u>	Vis <u>48</u>
Bottom Packer Depth <u>3472</u>	Wt. Pipe Run _____	WL <u>7.2</u>
Total Depth <u>3525</u>	Chlorides <u>3000</u> ppm System	LCM _____

Blow Description FFP- BOB 19 min
FST- sur blow back - died 17 min
FFP- BOB 17 min
FST- 1" blow back - died 35 min

Roc	Foot of	%gas	%oil	%water	%mud
<u>120</u>	Foot of <u>GP</u>				
<u>2</u>	Foot of <u>Free oil</u>	<u>95%</u>		<u>5%</u>	
<u>60</u>	Foot of <u>MCO</u>	<u>50%</u>		<u>50%</u>	
<u>30</u>	Foot of <u>USOCWM</u>	<u>5%</u>	<u>20%</u>	<u>75%</u>	
<u>308</u>	Foot of <u>MW</u>		<u>95%</u>	<u>5%</u>	

Roc Total 400 BHT 117 Gravity 37 API RW .068 @ 80 °F Chlorides 115,000 ppm

(A) Initial Hydrostatic <u>1660</u>	<input checked="" type="checkbox"/> Test <u>1125</u>	T-On Location <u>0507</u>
(B) First Initial Flow <u>38</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0649</u>
(C) First Final Flow <u>192</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0849</u>
(D) Initial Shut-In <u>695</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1149</u>
(E) Second Initial Flow <u>196</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1352</u>
(F) Second Final Flow <u>251</u>	<input checked="" type="checkbox"/> Miteago <u>49 RT 6840</u>	Comments <u>2' fill on bottom</u>
(G) Final Shut-In <u>676</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1612</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open <u>45</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1518.60</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1518.60</u>	

Approved By _____ Our Representative Brian Farbak

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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APR 05 2012

Test Ticket

NO. 45702

BY: _____

Well Name & No. Schoenthaler #5 Test No. 2 Date 4-1-12
 Company Trepsco Elevation 2204 KB 2195 GL
 Address _____
 Co. Rep / Geo. Clyton Erickson Rig H2 3
 Location: Sec. 34 Twp. 12 Rge. 21 Co. Trepsco State KS

Interval Tested 3527-3558 Zone Tested LKC "D.E"
 Anchor Length 31 Drill Pipe Run 3197 Mud Wt. 9.0
 Top Packer Depth 3522 Drill Collars Run 310 Vis 48
 Bottom Packer Depth 3527 Wt. Pipe Run _____ WL 7.2
 Total Depth 3558 Chlorides 3000 ppm System LCM
 Blow Description IFP - weak sur blow - died 14 min
ISI - no blow back
FFP - no blow
FSI - no blow back

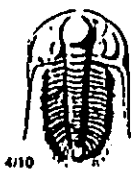
Rec	Foot of	%gas	%oil	%water	%mud
<u>3</u>	<u>2 1/2 ft med</u>			<u>100</u>	
Rec	Foot of	%gas	%oil	%water	%mud
Rec	Foot of	%gas	%oil	%water	%mud
Rec	Foot of	%gas	%oil	%water	%mud
Rec	Foot of	%gas	%oil	%water	%mud

Rec Total 3 BHT 110 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 166.8 Test 1125' T-On Location 1925
 (B) First Initial Flow 16 Jars 250' T-Started 1954
 (C) First Final Flow 18 Safety Joint 75' T-Open 2147
 (D) Initial Shut-In 186 Circ Sub _____ T-Pulled 2347
 (E) Second Initial Flow 19 Hourly Standby _____ T-Out 0141
 (F) Second Final Flow 21 Mileage 49 RT 68.60 Comments _____
 (G) Final Shut-In 50 Sampler _____
 (H) Final Hydrostatic 1605 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1518.60
 Final Flow 30 Accessibility _____ MP/DST Disc'd _____
 Final Shut-In 30 Sub Total 1518.60

Approved By _____ Our Representative Brian Fairbank

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Test Ticket

NO. 45703

Well Name & No. Schoenthaler #5 Test No. 3 Date 4-2-12
 Company Tengaco Elevation 2204 KB 2195 GL
 Address _____
 Co. Rep / Geo. Clyde Erickson Rig H2 3
 Location: Sec. 34 Twp. 12 Rge. 21 Co. Trego State Kc

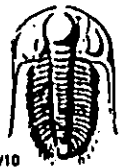
Interval Tested 3646-271 Zone Tested LRC "5"
 Anchor Length 25 Drill Pipe Run 3322 Mud Wt. 9.0
 Top Packer Depth 3641 Drill Collars Run 310 Vis 44
 Bottom Packer Depth 3646 Wt. Pipe Run _____ WL 8.4
 Total Depth 3671 Chlorides 6000 ppm System LCM _____
 Blow Description IFP - sur blow - dnd 2 min
IST - no blow back
FFP - no blow
FSI - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Dril med</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Roc Total 1 BHRT 112 Gravity _____ API RW _____ @ _____ F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1732</u>	<input checked="" type="checkbox"/> Test <u>1125'</u>	T-On Location <u>1450</u>
(B) First Initial Flow <u>15</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1513</u>
(C) First Final Flow <u>15</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>1725</u>
(D) Initial Shut-In <u>47</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1925</u>
(E) Second Initial Flow <u>15</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>2137</u>
(F) Second Final Flow <u>16</u>	<input checked="" type="checkbox"/> Mileage <u>49.07</u> <u>68.6</u>	Comments _____
(G) Final Shut-In <u>42</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1682</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1518.60</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1518.60</u>	

Approved By _____ Our Representative Brig Fenberk
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APR 05 2012

Test Ticket

NO. 45704

Well Name & No. Schoenthaler #5 Test No. 4 Date 4.3-12
 Company Tengasco Elevation 2204 KB 2195 GL
 Address _____
 Co. Rep / Geo. Clayton Erickson Rig H12 3
 Location: Soc. 34 Twp. 12 Rge. 21 Co. Trego State ks

Interval Tested 3846-3853 Zone Tested Archie 66
 Anchor Length 7 Drill Pipe Run 3540 Mud Wt. 9.2
 Top Packer Depth 3841 Drill Collars Run 310 Vis 54
 Bottom Packer Depth 3846 Wt. Pipe Run _____ WL 7.2
 Total Depth 3853 Chlorides 6000 ppm System LCM _____

Blow Description TFP- BOB 7 min
LSI- 2 1/2" blow back - died 37 min
FFP- BOB 8 min
FST- no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>GalP</u>				
<u>155</u>	<u>Free oil</u>		<u>95</u>		<u>5</u>
<u>500</u>	<u>reversed out oil</u>				
<u>120</u>	<u>G.MCO</u>	<u>10</u>	<u>45</u>		<u>45</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 775 BHT 125 Gravity 37 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1879 Test 1125 T-On Location 1344
 (B) First Initial Flow 81 Jars 250 T-Started 1432
 (C) First Final Flow 210 Safety Joint 75 T-Open 1651
 (D) Initial Shut-In 1169 Circ Sub 50 T-Pulled 1951
 (E) Second Initial Flow 219 Hourly Standby _____ T-Out 2258
 (F) Second Final Flow 314 Mileage 49 RT 608.60 Comments _____
 (G) Final Shut-In 1169 Sampler _____
 (H) Final Hydrostatic 1806 Straddle _____

Initial Open 45 Ruined Shale Packer _____
 Initial Shut-In 45 Ruined Packer _____
 Final Flow 45 Extra Packer _____
 Final Shut-In 45 Extra Recorder _____
 Sub Total 0
 Total 1568.60
 MP/DST Disc'd _____
 Sub Total 1568.60

Approved By _____ Our Representative Brian Farhart
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