



KANSAS CORPORATION COMMISSION 1084999
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 # 33493
Name: American Eagle Drilling LLC
Wellsite Geologist: Mike Bair
Purchaser: Coffeyville Resources

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil WSW SWD SLOW
 Gas D&A ENHR SIGW
 OG GSW Temp. Abd.
 CM (Coal Bed Methane)
 Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:
Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

<u>03/31/2012</u>	<u>04/07/2012</u>	<u>04/18/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-163-24014-00-00

Spot Description: _____
W2_E2_E2_NE Sec. 21 Twp. 8 S. R. 19 East West
1320 Feet from North / South Line of Section
495 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Rooks

Lease Name: Zerger A Well #: 1

Field Name: Webster

Producing Formation: Arbuckle

Elevation: Ground: 1997 Kelly Bushing: 2004

Total Depth: 3532 Plug Back Total Depth: 3482

Amount of Surface Pipe Set and Cemented at: 262 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: 1446 Feet

If Alternate II completion, cement circulated from: 1446

feet depth to: 0 w/ 265 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 32000 ppm Fluid volume: 320 bbls

Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite: _____

Operator Name: Tengasco, Inc.

Lease Name: Mosher License #: 32278

Quarter SW Sec. 33 Twp. 8 S. R. 18 East West

County: Rooks Permit #: D-20839

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 Gerrico Date: 06/21/2012



1084999

Operator Name: Tengasco, Inc. Lease Name: Zerger A Well #: 1
 Sec. 21 Twp. 8 S. R. 19 East West County: Rooks

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	1435	+569
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Topeka	2938	-934
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner	3145	-1141
List All E. Logs Run:		Toronto	3169	-1165
<small>Dual Induction Density Neutron/PE Micro</small>		Lansing	3186	-1182
		BKC	3404	-1400
		Arbuckle	3430	-1426

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	12.25	8.625	23	262	Com	170	3% CC 2% gel
Production	7.875	5.5	14	3531	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 checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	0-1446	60/40	265	4% gel, 1/4# Flo Seal/ sx

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	3438-44		

TUBING RECORD:	Size: <u>2.875</u>	Set At: <u>3461</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>05/01/2012</u>			
Producing Method:	<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls. <u>15</u>	Gas Mcf	Water Bbls. <u>320</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> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>Arb 3438-44'</u>
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ALLIED CEMENTING CO., LLC. 034641

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

SERVICE POINT:
RUSSELL

DATE <u>3-31-12</u>	SEC. <u>21</u>	TWP. <u>8</u>	RANGE <u>19</u>	CALLED OUT	ON LOCATION	JOB START <u>9:30</u>	
LEASER <u>ZERGER</u>	WELL # <u>A#1</u>	LOCATION <u>ZURICH - 7.7' - W INTO</u>			COUNTY <u>ROCKS</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR <u>American Eagle #2</u>	OWNER
TYPE OF JOB <u>SURFACE</u>	
HOLE SIZE <u>12 1/4</u>	T.D.
CASING SIZE <u>8 1/8</u>	DEPTH <u>262.66</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15</u>	
PERFS.	
DISPLACEMENT <u>15.77</u>	

CEMENT		
AMOUNT ORDERED	<u>170 SKA 3% 2% 60L</u>	
COMMON	<u>170 @ 16.25</u>	<u>2762.5</u>
POZMIX	@	
GEL	<u>3 @ 21.25</u>	<u>63.75</u>
CHLORIDE	<u>6 @ 58.20</u>	<u>349.2</u>
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING	<u>179 @ 2.25</u>	<u>402.75</u>
MILEAGE	<u>60 x 179 x .11</u>	<u>1181.4</u>
		<u>TOTAL 4759.6</u>

EQUIPMENT

PUMP TRUCK	CEMENTER <u>B. SMITH</u>
# <u>409</u>	HELPER <u>TONY</u>
BULK TRUCK	
# <u>341</u>	DRIVER <u>Kevin Eddy (GB)</u>
BULK TRUCK	
#	DRIVER

REMARKS:

Pumped 170 SK
Pumped disp. 15.77 60L
CEMENT CALCULATED TO SURFACE
Shot in casing

SERVICE

DEPTH OF JOB	<u>262.66</u>	
PUMP TRUCK CHARGE		<u>1125.00</u>
EXTRA FOOTAGE	@	
MILEAGE	<u>60 @ 7.00</u>	<u>420.00</u>
MANIFOLD	@	
<u>60L m 60 @ 4.00</u>		<u>240.00</u>
	@	
		<u>TOTAL 1785.00</u>

CHARGE TO: TEN GASCO

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

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

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

SALES TAX (If Any) 200.05

TOTAL CHARGES 6544.60

DISCOUNT 20/50 1861.34 IF PAID IN 30 DAYS

PRINTED NAME _____

SIGNATURE Keith Karls

ALLIED OIL & GAS SERVICES, LLC 053503

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

SERVICE POINT:
Great Smo. ks
4-8-12

DATE <u>4-7-12</u>	SEC. <u>21</u>	TWP. <u>8E</u>	RANGE <u>19N</u>	CALLED OUT	ON LOCATION	JOB START <u>2:30 PM</u>	JOB FINISH <u>3:30 PM</u>
LEASE <u>Zenger 'A'</u>		WELL# <u>1</u>	LOCATION <u>Zurick, KS. 7 1/4</u>		COUNTY <u>Roos</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)			<u>North West info</u>				

CONTRACTOR <u>American Eagle #2</u>	OWNER <u>Tengasco</u>
TYPE OF JOB <u>Production Pipe</u>	
HOLE SIZE <u>7 7/8</u> T.D. <u>3570'</u>	CEMENT
CASING SIZE <u>5 1/2</u> DEPTH	AMOUNT ORDERED <u>180 SY ASC + 2% Gel</u>
TUBING SIZE <u>4.50</u> DEPTH <u>3522'</u>	<u>+ 10% ball</u>
DRILL PIPE DEPTH	<u>500 Gallon ASF</u>
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON _____ @ _____
MEAS. LINE SHOE JOINT	POZMIX _____ @ _____
CEMENT LEFT IN CSG. <u>92.62'</u>	GEL _____ @ _____
PERFS:	CHLORIDE _____ @ _____
DISPLACEMENT <u>76.25 Bbl.</u>	ASC <u>180</u> @ <u>19.00</u> <u>3420.00</u>

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Greg R</u>
# <u>398</u>	HELPER <u>Kerry R</u>
BULK TRUCK	
# <u>413</u>	DRIVER <u>Robert</u>
BULK TRUCK	
#	DRIVER

ASC	@		
ASF	@	<u>500</u>	<u>1.27</u> <u>635.00</u>
	@		
	@		
	@		
	@		
	@		
	@		
	@		
HANDLING	@	<u>2.10</u>	<u>451.50</u>
MILEAGE	@	<u>9.71 x 68 x 2.35</u>	<u>1.551.65</u>
			TOTAL <u>6058.15</u>

REMARKS:

See

EMPLED

See

CHARGE TO: Tengasco

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<u>3532</u>	
PUMP TRUCK CHARGE	<u>2,225.00</u>	
EXTRA FOOTAGE	@	
MILEAGE	<u>HUM 68</u>	@ <u>7.00</u> <u>476.00</u>
MANIFOLD	@	
	<u>lum 68</u>	@ <u>4.00</u> <u>272.00</u>
	@	
TOTAL <u>2973.00</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.

PLUG & FLOAT EQUIPMENT

<u>1/2" Centralizer</u>	@	<u>49.00</u>	<u>294.00</u>
<u>1" 5/8" basket</u>	@	<u>337.00</u>	<u>337.00</u>
<u>1" 5/8" port collar</u>	@	<u>2600.00</u>	<u>2600.00</u>
<u>3/4" jubert cradle plug</u>	@	<u>282.00</u>	<u>359.00</u>
<u>5/8" shoe</u>	@	<u>240.00</u>	<u>240.00</u>
			TOTAL <u>3880.00</u>

PRINTED NAME _____

SIGNATURE Keith Karls

SALES TAX (If Any) _____

TOTAL CHARGES 12,911.15

50% 20% 3,272.12

DISCOUNT _____ IF PAID IN 30 DAYS

9,639.03

ALLIED OIL & GAS SERVICES, LLC 056941

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

SERVICE POINT:
Kansas

DATE <u>4-17-12</u>	SEC <u>21</u>	TWP <u>B</u>	RANGE <u>19</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30</u>	JOB FINISH <u>1:30</u>
LEASE <u>2-2-12</u>	WELL # <u>A-1</u>	LOCATION <u>21/24 7-74 Wirtz</u>			COUNTY <u>ROCK</u>	STATE <u>KS</u>	
OLD OR (NEW) (Circle one)							

CONTRACTOR <u>YIP</u>		OWNER
TYPE OF JOB <u>Well LHW</u>		
HOLE SIZE <u>8K</u>	T.D. <u>7482</u>	CEMENT
CASING SIZE	DEPTH	AMOUNT ORDERED <u>7175 lb 60/100</u>
TUBING SIZE <u>2 7/8</u>	DEPTH <u>1446</u>	<u>4x 60 1/2 1/2 cement</u>
DRILL PIPE	DEPTH	
TOOL <u>API LHW</u>	DEPTH <u>1446</u>	
PRES. MAX	MINIMUM	
MEAS. LINE	SHOE JOINT	
CEMENT LEFT IN CSG.		
PERFS.		
DISPLACEMENT <u>6.5 BBL</u>		
EQUIPMENT		
PUMP TRUCK # <u>409</u>	CEMENTER <u>Felix, HAD 3.</u>	
	HELPER <u>Wesley</u>	
BULK TRUCK # <u>473</u>	DRIVER <u>Andy</u>	
BULK TRUCK #	DRIVER	

COMMON <u>159</u>	@ <u>16.25</u>	<u>2583.75</u>
POZMIX <u>- 186</u>	@ <u>8.50</u>	<u>961.50</u>
GEL <u>6</u>	@ <u>21.25</u>	<u>127.50</u>
CHLORIDE	@	
ASC	@	
<u>Clay - 320 1 (40)</u>	@ <u>2.70</u>	<u>270.00</u>
	@	<u>1.12.00</u>
	@	
	@	
	@	
	@	
	@	
HANDLING <u>2.70</u>	@ <u>2.25</u>	<u>607.50</u>
MILEAGE <u>272.4</u>	@ <u>62</u>	<u>16888.04</u>
TOTAL		<u>6252.09</u>

REMARKS:
Post job assigned to 750 Hld
marked area for check flow
initial 205 gal 60/100
displaced 6.5 BBL
check RL. 5000
check circulation mag 400 clean
Cement did to surface

SERVICE		
DEPTH OF JOB		<u>1446</u>
PUMP TRUCK CHARGE		<u>1926.00</u>
EXTRA FOOTAGE	@	
MILEAGE <u>141 HV 62</u>	@ <u>7.00</u>	<u>434.00</u>
MANIFOLD	@	
<u>141 HV 62</u>	@ <u>4.60</u>	<u>248.00</u>
	@	
TOTAL		<u>2607.00</u>

CHARGE TO: Tengasco
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT		
	@	
	@	
	@	
	@	
	@	
TOTAL		

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

SALES TAX (if Any) 238.45
 TOTAL CHARGES 8,859.09
 DISCOUNT 2050 2522.93 IF PAID IN 30 DAYS

PRINTED NAME _____
 SIGNATURE Harry Wagner

MUD LOG
WellSight Systems

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

Well Name: Zerger A-1
Location: W2 E2 E2 NE Sec 21 T8S R19W
License Number: 32278
Spud Date: 3/31/2012
Surface Coordinates: 1320' FNL & 495' FEL
Region: ROOKS County, KS
Drilling Completed: 4/7/2012
Bottom Hole Coordinates:
Ground Elevation (ft): 1997
K.B. Elevation (ft): 2004
Logged Interval (ft): 2800 To: TD
Total Depth (ft): 3530
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 Moose Rd.
Hays, KS. 67601

GEOLOGIST

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

FORMATION TOPS

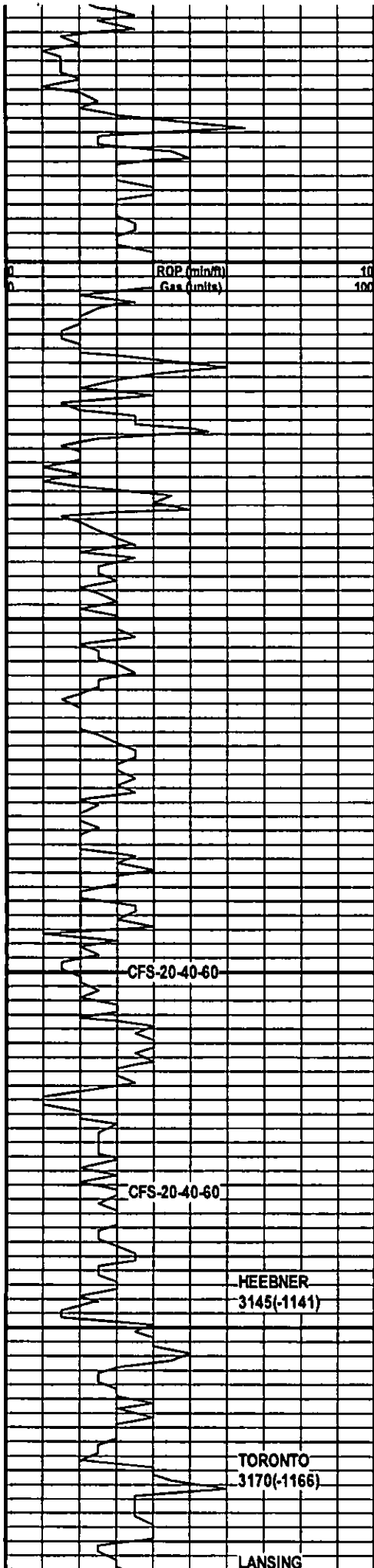
FORMATION	LOG	SAMPLE
Anhydrite		1435(+569)
Base Anhy		1468(+536)
TOPEKA	2938(-934)	2938(-934)
HEEBNER	3145(-1141)	3145(-1141)
TORONTO	3169(-1165)	3170(-1166)
LANSING	3186(-1182)	3184(-1180)
BKC	3404(-1400)	3404(-1400)
ARBUCKLE	3430(-1426)	3430(-1426)
TD	3532(-1528)	3530(-1526)

DSTs

DST #1 3210-3235; 45-45-45-45; Hydro: 1539-1498 IFF: 226-1044 ISIP: 1092 FFP: 1051-1098 FSIP: 1104; Rec: 1' oil 145' 2%o, 43%w 55%m 1984' reversed out 120' 95%w 5%m; Grav: 37 RW: .082@51F Chl: 160,000ppm; IF: BOB 30sec ISI: dead FF: BOB 1 1/2min FSI: dead

DST #2 3235-3267; 45-45-45-45; Hydro: 1464-1534 IFF: 39-131 ISIP: 1070 FFP: 137-219 FSIP: 1037; Rec: 590' GIP 185' 95%o 5%m 120' 60%o 40%m 60' 40%o 10%w 30%m 120' 90%w 10%m; Grav: 37 RW: .085@56F Chl: 130,000ppm; IF: BOB 5min ISI: 1 1/4" FF: BOB 6min FSI: BOB 18min

DST #3 3364-3410; 30-30-30-30; Hydro: 1686-1579 IFF: 18-22 ISIP: 1023 FFP: 23-23 FSIP: 953; Rec: 10' mud; IF: 1/2" ISI: dead FF: dead FSI: dead



3000

3050

3100

3150



LS.-crm, fn xtdn, wk str, no vis por, no odor, no SFO, chlky

as above w/ rare asph res, no odor, no SFO, sli chlky

LS.-grey, fn xtdn, md str, no vis por, no odor, no SFO w/ SH-grey

LS.-crm-tan, fn-micro xtdn, grn str, no vis por, no odor, no SFO, sli chlky

as above, chlky

as above w/SH-grey, red/brwn

LS.-crm-tan, fn xtdn, pk str, no vis por, no odor, no SFO, chlky

SH-red/brwn, grey

SH-grey, red/brwn w/ LS.-wht-tan, fn xtdn, grn str, no vis por, no odor, no SFO, chlky

LS.-crm-v lt grey, fn xtdn, md-wk str, poss int xtdn por, no odor, no SFO, sli chlky

LS.-wht-crm, fn xtdn, grn str, no vis por, no odor, no SFO

LS.-crm-grey, fn-micro xtdn, pk-grn str, no vis por, no odor, no SFO w/ SH-grey

LS.-crm, fn xtdn, grn str, no vis por, no odor, no SFO w/ LS.-lt grey/bl, sli arg, fn xtdn, md str, no vis por, no odor, no SFO

LS.-wht-tan, fn-micro xtdn, pk-grn str, no vis por, no odor, no SFO, sli chlky

LS.-wht-crm, fn xtdn, md-wk str, no vis por, no odor, no SFO, chlky

LS.-crm-lt brwn, mtd grey, fn-micro xtdn, grn str, pr int gran por, fr odor, pr-fr SFO, chlky

LS.-crm, fn xtdn, grn str, pr PP por, fnt odor, pr SFO, v chlky

LS.-wht-crm, fn xtdn, pk str, no vis por, no odor, no SFO, chlky

SH-blk, carb

LS.-crm-lt grey-tan, fn xtdn, wk-pk str, no vis por, no odor, no SFO

SH-red/brwn, lt grey-lt grey/bl

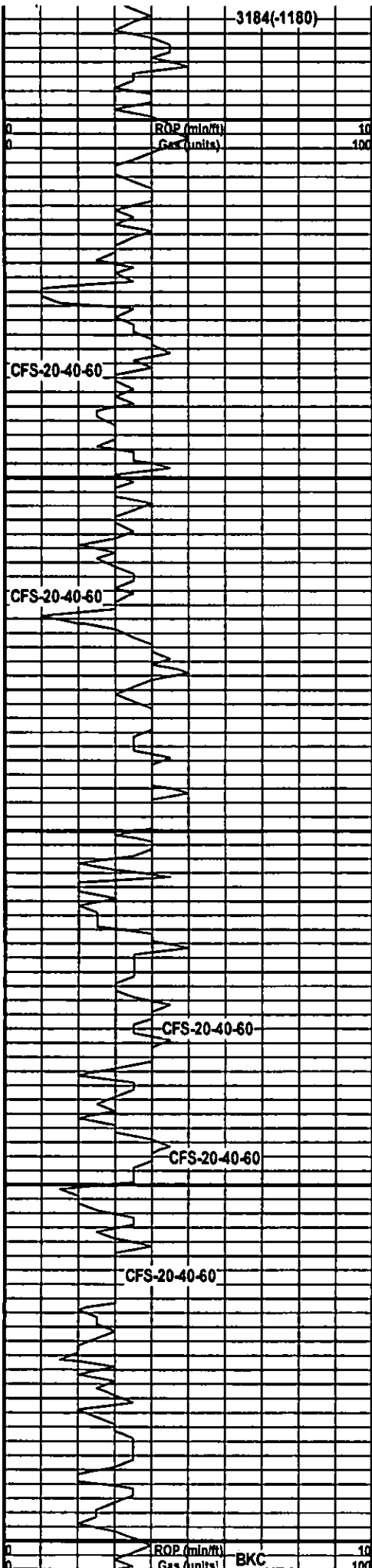
LS.-wht-crm, fn xtdn, grn str, pr int gran por, no odor, v pr SFO

as above w/ SH-grey

Vis: 40
Wt: 8.9
LCM: 2ppb
WL: 6.8

Vis: 53
Wt: 8.9
LCM: 3ppb

1000



3200

3250

3300

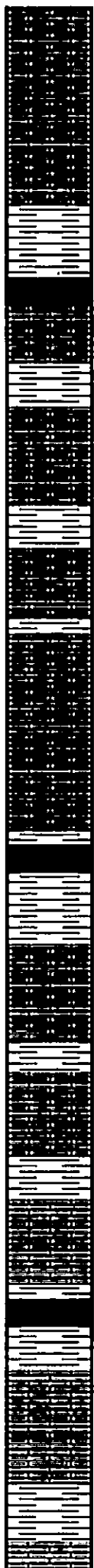
3350

3400

ROP (min/ft)
Gas (units)

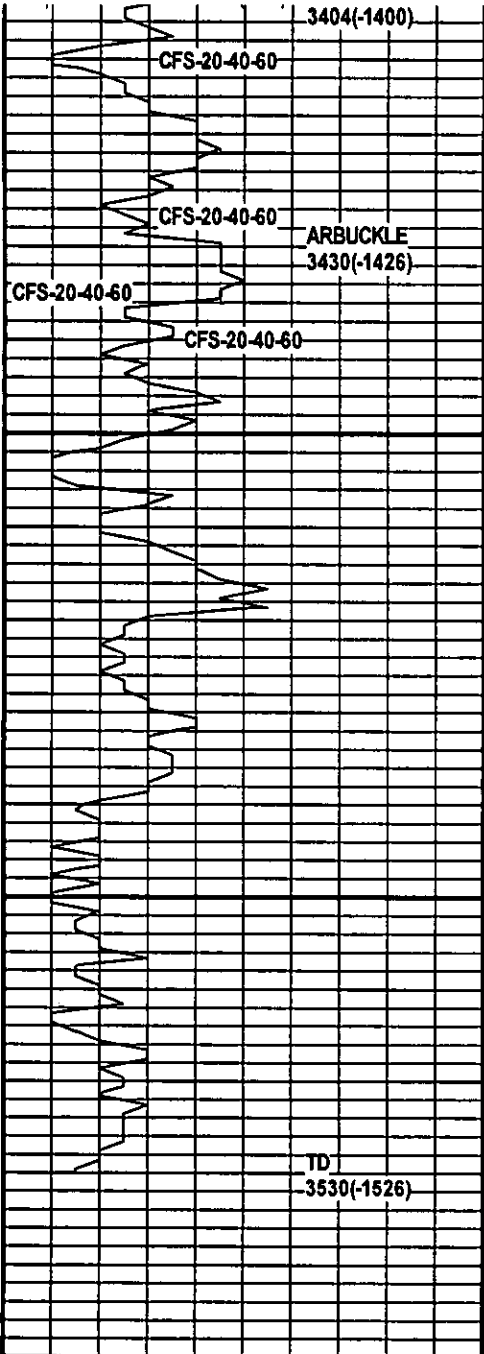
ROP (min/ft)
Gas (units)

BKC



L.S.- wht-crm, fn xtn, grn stn, pr int xtn por, scat vugs, spty lt brwn oil stain, fr odor, v pr SFO, sli chlky
 L.S.- wht-crm, fn xtn, grn stn, v pr vuggy por, spty lt brwn oil stain, gd odor, v pr SFO, chlky, freq wht chrt
 L.S.- wht-crm, fn xtn, pk-grn stn, poss int xtn por, v fnt odor, no SFO, chlky
 SH- red/brwn
 Dolo- crm-tan, fn xtn, fr int xtn por w/ freq vugs, even saturation, gd odor, pr-fr SFO
 L.S.- wht-crm, fn xtn, grn stn, pr int gran por, brwn sat stain, pr SFO
 SH- grey, red-red/brwn
 L.S.- wht-v lt grey, fn xtn, grn stn, pr int xtn-gd int gran por, gd odor, brwn sat oil stain, pr SFO, sli chlky
 as above fr odor, rare SFO, chlky, mostly barren w/ SH- grey, red/brwn
 L.S.- wht, fn xtn, grn stn, fr int gran por, str odor, fr SFO, sli chlky
 SH- grey, red-red/brwn
 L.S.- wht-crm, fn xtn, grn stn, pr int gran por, str odor, spty brwn oil stain, pr SFO, chlky, mostly barren, freq wht-lt grey chrt
 as above, fnt odor, v pr SFO, freq wht-brwn chrt, chlky
 as above, fnt odor, no SFO, freq wht-lt grey-tan chrt, chlky w/ L.S.- v lt grey, fn xtn, md stn, no vis por, no SFO
 SH- grey, red/brwn
 SH- grey-green w/ L.S.- wht, fn xtn, grn stn, pr int xtn-v pr int gran por, fnt odor, spty brwn oil stain, v pr SFO, chlky, mostly barren
 L.S.- wht-crm, fn xtn, grn stn, v pr int xtn por, fnt odor, spty oil stain, rare SFO, chlky
 L.S.- wht-crm, fn-micro xtn, grn stn, v pr-pr int xtn por w/ pr int gran por, fr odor, pr SFO, sli chlky, scat pyrite
 L.S.- crm, fn xtn, wk stn, pr-fr int xtn por, gd odor, pr SFO, even brwn oil stain
 L.S.- wht-crm, fn xtn, grn stn, pr int xtn por, gd odor, spotty brwn oil stain, pr SFO, v chlky
 L.S.- wht-crm, fn xtn, grn stn, pr int xtn por, brwn oil stain, gd odor, pr SFO, chlky
 SH- grey-blk, red/brwn
 L.S.- wht-crm, fn xtn, grn stn, pr PP-v pr int gran por, fr odor, brwn oil stain, v pr SFO, chlky w/ SH- grey
 L.S.- wht, fn-med xtn, grn stn, pr int gran por w/ freq fr-gd int xtn por, fr odor, fr SFO, sli chlky, scat pyrite
 SH- grey

-Vis: 49
Wt: 9.1
LCM: 3ppb
DST #1 3210-3235 45-45-45-45
Hydro: 1539-1498
IFP: 226-1044 ISIP: 1092 1000
FFP: 1051-1098 FSIP: 1104
Rec: 1' oil
145' 2%o, 43%w 55% m
1984' reversed out
120' 95%w 5% m
Grav: 37 RW: .082@51F
Chl: 160,000ppm
IF: BOB 30sec ISI: dead
FF: BOB 1 1/2min FSI: dead
Strap @ 3235: 1.69 long
Dev: 3/4
DST #2 3235-3267
45-45-45-45
Hydro: 1464-1534
IFP: 39-131 ISIP: 1070
FFP: 137-219 FSIP: 1037
Rec: 590' GIP
185' 95%o 5% m
120' 60%o 40% m
60' 40%o 10%w 30% m
120' 90%w 10% m
Grav: 37 RW: .085@56F
Chl: 130,000ppm
IF: BOB 5min ISI: 1 1/4"
FF: BOB 6min
FSI: BOB 18min
mudco mud check
@ 3235'
Vis: 50
Wt: 8.9
LCM: 2ppb
WL: 7.2
-Vis: 53
Wt: 9.0
LCM: 2ppb
WL: 6.8
DST #3 3364-3410
30-30-30-30
Hydro: 1686-1579
IFP: 18-22 ISIP: 1023
FFP: 23-23 FSIP: 953
Rec: 10' mud
IF: 1/2" ISI: dead
FF: dead FSI: dead



3450

3500

350

LS.- wht-crm, med yrw, red, micro-m xtn, grn stn, no vis por, no odor, no SFO w/ S.S.- wht-lt grey, calc, v fn grn, poss int gran por, no SFO w/ SH- red/brwn, grey/green

SH- vari-color

Dolo- wht-crm, v fn xtn, no vis por, no odor, no SFO

o Dolo- wht-tan, v fnly sucrr w/ freq crs xtls, sply brwn oil stain, fnt odor, rare SFO, scat wht chrt, mostly barren

• (3440 circ) Dolo- wht-tan, v fn-crs xtn, exc int xtn por in med-crs xtn, fr odor, fr SFO, med-crs xtn look like pieces from large vugs

• Dolo- wht-crm, med xtn, gd int xtn por, abnd vugs, gd odor, exc SFO, heavy saturation

as above, fr odor, gd SFO, scat pyrite

Dolo- wht-crm-v lt grey, fn xtn, pr-fr int xtn por, scat vugs, fr odor, freq blk asph res, pr-fr SFO, scat pyrite, mostly barren

as above, v fnt odor, com blk asph res, pr SFO, freq pyrite

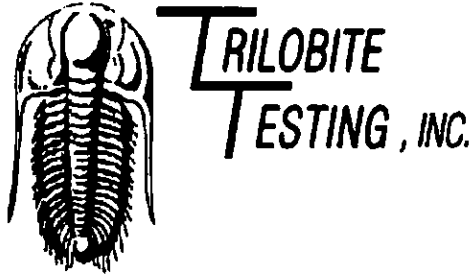
as above, no odor, v pr SFO

as above, no odor, barren

as above

Vis: 55
Wt: 9.1
LCM: 3ppb

Vis: 56
Wt: 9.1
LCM: 4ppb
WL: 7.4



DRILL STEM TEST REPORT

Prepared For: **Tengasco, Inc.**

PO Box 458
Hays, KS 67601

ATTN: Clayton Erickson

Zerger A-1

21-8-19 Rooks,KS

Start Date: 2012.04.05 @ 01:19:46

End Date: 2012.04.05 @ 08:54:46

Job Ticket #: 45705 DST #: 1

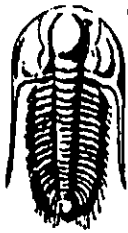
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.04.11 @ 08:57:24

Tengasco, Inc. 21-8-19 Rooks,KS Zerger A-1 DST # 1 LKC "C" 2012.04.05



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Tengasco, Inc.

21-8-19 Rooks, KS

PO Box 458
Hays, KS 67601

Zerger A-1

Job Ticket: 45705

DST#: 1

ATTN: Clayton Erickson

Test Start: 2012.04.05 @ 01:19:46

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:26:16

Time Test Ended: 08:54:46

Test Type: Conventional Bottom Hole (Initial)

Tester: Brian Fairbank

Unit No: 41

Interval: 3210.00 ft (KB) To 3235.00 ft (KB) (TVD)

Reference Elevations: 2004.00 ft (KB)

Total Depth: 3235.00 ft (KB) (TVD)

1997.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8734

Outside

Press@RunDepth: 1097.98 psig @ 3212.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.05

End Date:

2012.04.05

Last Calib.: 2012.04.05

Start Time: 01:19:47

End Time:

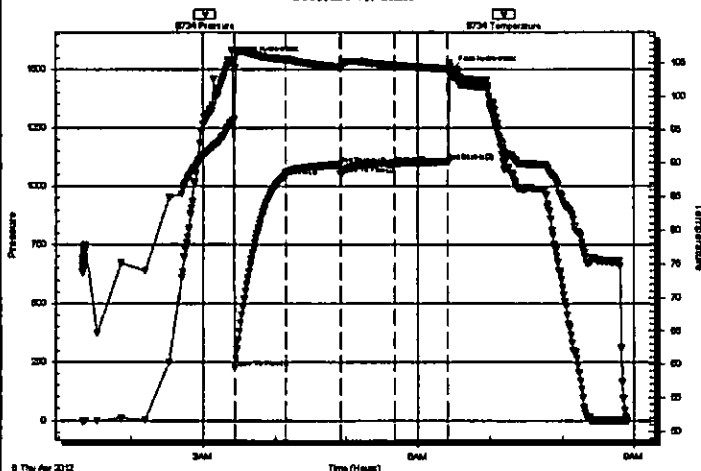
08:54:46

Time On Btm: 2012.04.05 @ 03:25:16

Time Off Btm: 2012.04.05 @ 06:28:46

TEST COMMENT: IFP - BOB 30 sec
ISI - no blow back
FFP - BOB 1 1/2 min
FSI - no blow back

Pressure vs. Time



PRESSURE SUMMARY

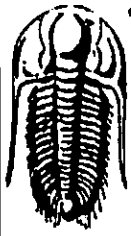
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1538.90	96.31	Initial Hydro-static
1	225.52	96.54	Open To Flow (1)
44	1043.91	105.51	Shut-in(1)
90	1091.87	104.33	End Shut-in(1)
90	1050.80	104.31	Open To Flow (2)
136	1097.98	104.60	Shut-in(2)
180	1104.03	104.11	End Shut-in(2)
184	1498.00	102.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 95%W, 5%M	1.68
1984.00	REVERSED OUT WATER	27.83
145.00	VSOCWM 2%O, 43%W, 55%M	2.03
1.00	FREE OIL 95%O, 5%M	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco, Inc.

21-8-19 Rooks, KS

PO Box 458
Hays, KS 67601

Zerger A-1

Job Ticket: 45705

DST#: 1

ATTN: Clayton Erickson

Test Start: 2012.04.05 @ 01:19:46

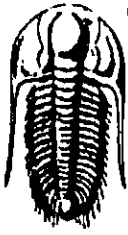
Tool Information

Drill Pipe:	Length: 3209.00 ft	Diameter: 3.80 inches	Volume: 45.01 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 45.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3210.00 ft			Final 60000.00 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			3188.00	
Hydraulic tool	5.00			3193.00	
Jars	5.00			3198.00	
Safety Joint	2.00			3200.00	
Packer	5.00			3205.00	27.00 Bottom Of Top Packer
Packer	5.00			3210.00	
Stubb	1.00			3211.00	
Perforations	1.00			3212.00	
Recorder	0.00	6669	Inside	3212.00	
Recorder	0.00	8734	Outside	3212.00	
Perforations	20.00			3232.00	
Bullnose	3.00			3235.00	25.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco, Inc.

21-8-19 Rooks,KS

PO Box 458
Hays, KS 67601

Zerger A-1

Job Ticket: 45705

DST#: 1

ATTN: Clayton Erickson

Test Start: 2012.04.05 @ 01:19:46

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: 160000 ppm

Viscosity: 40.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
120.00	MW 95%W, 5%M	1.683
1984.00	REVERSED OUT WATER	27.830
145.00	VSOCWM 2%O, 43%W, 55%M	2.034
1.00	FREE OIL 95%O, 5%M	0.014

Total Length: 2250.00 ft

Total Volume: 31.561 bbf

Num Fluid Samples: 0

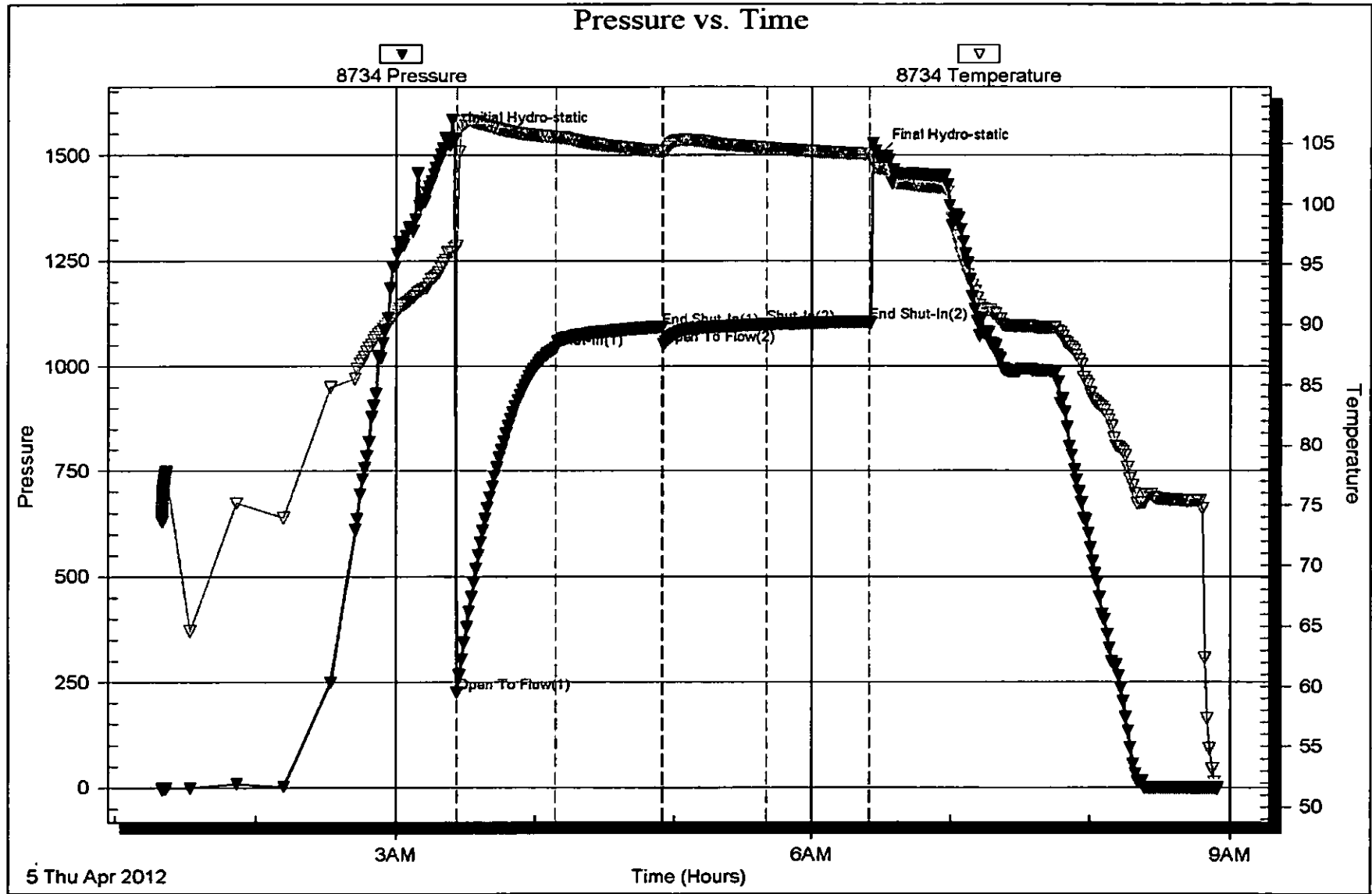
Num Gas Bombs: 0

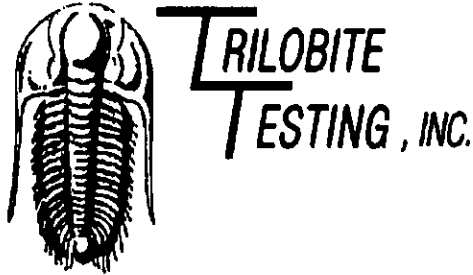
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Tengasco, Inc.**

PO Box 458
Hays, KS 67601

ATTN: Clayton Erickson

Zerger A-1

21-8-19 Rooks,KS

Start Date: 2012.04.05 @ 15:54:47

End Date: 2012.04.05 @ 22:05:47

Job Ticket #: 45706 DST #: 2

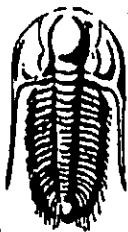
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.04.11 @ 08:56:20

Tengasco, Inc. 21-8-19 Rooks,KS Zerger A-1 DST # 2 LKC "D-J" 2012.04.05



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Tengasco, Inc.

21-8-19 Rooks, KS

PO Box 458
Hays, KS 67601

Zerger A-1

Job Ticket: 45706

DST#: 2

ATTN: Clayton Erickson

Test Start: 2012.04.05 @ 15:54:47

GENERAL INFORMATION:

Formation: **LKC "D-F"**

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

Time Tool Opened: 17:16:47

Time Test Ended: 22:05:47

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

Tester: **Brian Fairbank**

Unit No: **41**

Interval: **3235.00 ft (KB) To 3267.00 ft (KB) (TVD)**

Total Depth: **3267.00 ft (KB) (TVD)**

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

Reference Elevations: **2004.00 ft (KB)**

1997.00 ft (CF)

KB to GR/CF: **7.00 ft**

Serial #: **8734**

Outside

Press@RunDepth: **218.64 psig @ 3239.00 ft (KB)**

Start Date: **2012.04.05**

End Date: **2012.04.05**

Start Time: **15:54:48**

End Time: **22:05:47**

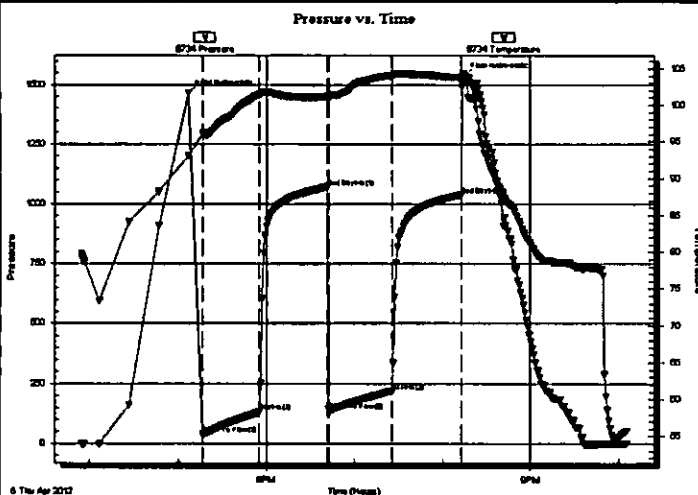
Capacity: **8000.00 psig**

Last Calib.: **2012.04.05**

Time On Btm: **2012.04.05 @ 17:06:47**

Time Off Btm: **2012.04.05 @ 20:14:47**

TEST COMMENT: IFP - BOB 5 min
ISI - 1 1/4" blow back throughout
FFP - BOB 6 min
FSI - BOB 18 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1463.73	93.13	Initial Hydro-static
10	39.17	96.10	Open To Flow (1)
49	130.71	101.43	Shut-in(1)
95	1070.30	101.20	End Shut-in(1)
96	137.37	101.18	Open To Flow (2)
139	218.64	104.05	Shut-in(2)
186	1037.21	103.75	End Shut-in(2)
188	1533.51	103.64	Final Hydro-static

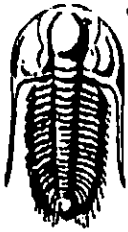
Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 90%W, 10%M	1.68
60.00	W & MCO 40%O, 10%W, 30%M	0.84
120.00	MCO 60%O, 40%M	1.68
185.00	FREE OIL 95%O, 5%M	2.60
0.00	590' 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.

21-8-19 Rooks, KS

PO Box 458
Hays, KS 67601

Zerger A-1

Job Ticket: 45706

DST#: 2

ATTN: Clayton Erickson

Test Start: 2012.04.05 @ 15:54:47

Tool Information

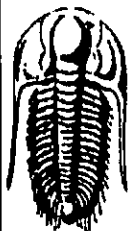
Drill Pipe:	Length: 3240.00 ft	Diameter: 3.80 inches	Volume: 45.45 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 45.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3235.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3213.00	
Hydraulic tool	5.00			3218.00	
Jars	5.00			3223.00	
Safety Joint	2.00			3225.00	
Packer	5.00			3230.00	27.00 Bottom Of Top Packer
Packer	5.00			3235.00	
Stubb	1.00			3236.00	
Perforations	3.00			3239.00	
Recorder	0.00	6669	Inside	3239.00	
Recorder	0.00	8734	Outside	3239.00	
Perforations	25.00			3264.00	
Bullnose	3.00			3267.00	32.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco, Inc.

21-8-19 Rooks, KS

PO Box 458
Hays, KS 67601

Zerger A-1

Job Ticket: 45706

DST#: 2

ATTN: Clayton Erickson

Test Start: 2012.04.05 @ 15:54:47

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 Salinity:

130000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.19 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 bbf
120.00	MW 90%W, 10%M	1.683
60.00	W & MCO 40%O, 10%W, 30%M	0.842
120.00	MCO 60%O, 40%M	1.683
185.00	FREE OIL 95%O, 5%M	2.595
0.00	590' GIP	0.000

Total Length: 485.00 ft

Total Volume: 6.803 bbf

Num Fluid Samples: 0

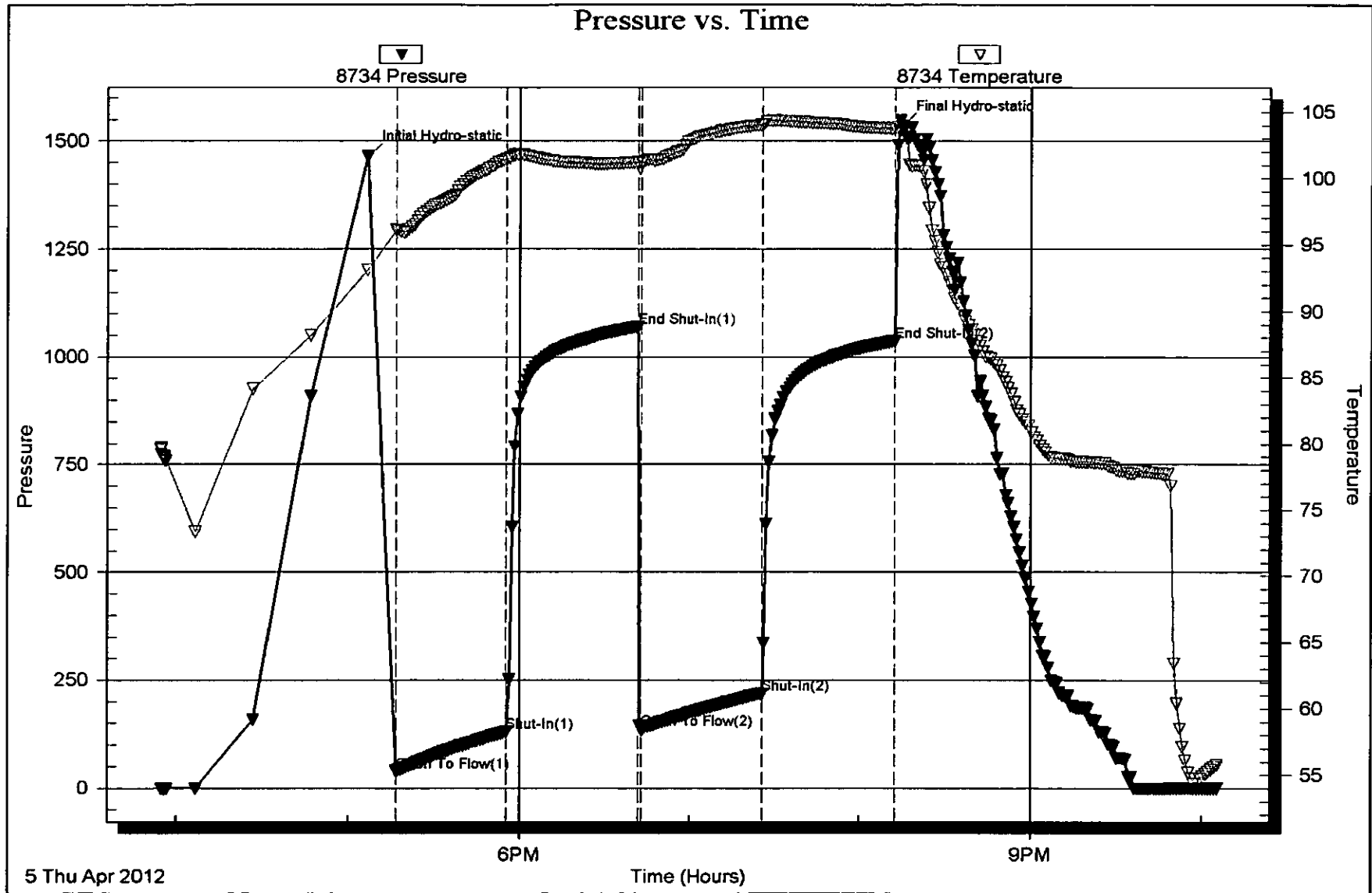
Num Gas Bombs: 0

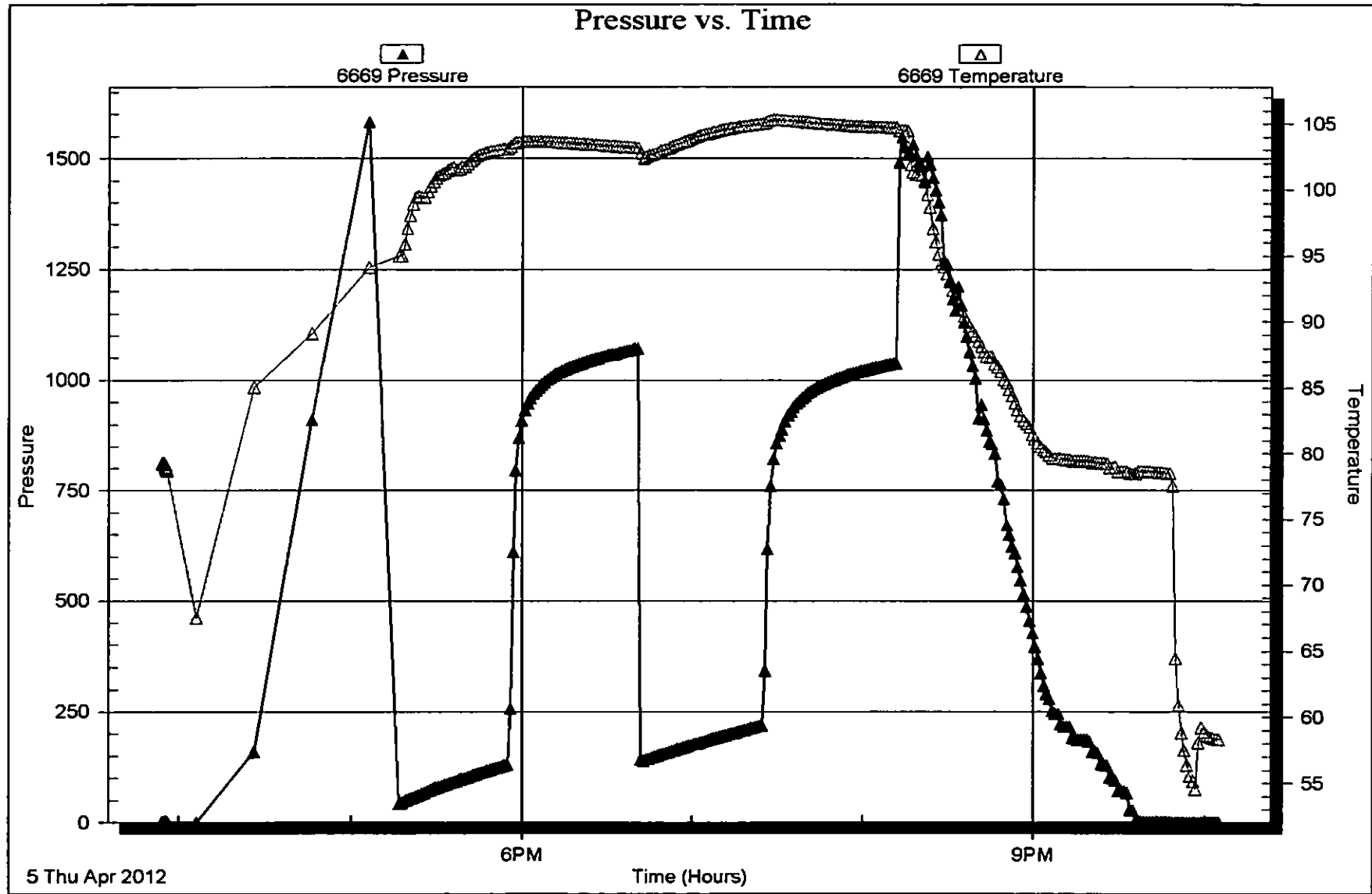
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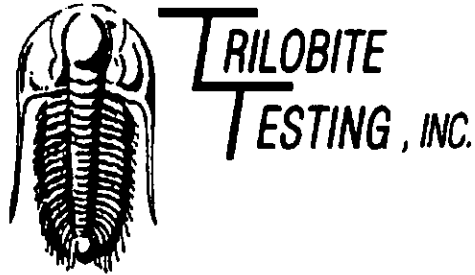
Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Tengasco, Inc.**

PO Box 458
Hays, KS 67601

ATTN: Clayton Erickson

Zerger A-1

21-8-19 Rooks,KS

Start Date: 2012.04.06 @ 15:03:55

End Date: 2012.04.06 @ 19:51:55

Job Ticket #: 45707 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.04.11 @ 08:55:28

Tengasco, Inc. 21-8-19 Rooks,KS Zerger A-1 DST # 3 LKC "K" 2012.04.06



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Tengasco, Inc.

21-8-19 Rooks, KS

PO Box 458
Hays, KS 67601

Zerger A-1

Job Ticket: 45707

DST#: 3

ATTN: Clayton Erickson

Test Start: 2012.04.06 @ 15:03:55

GENERAL INFORMATION:

Formation: LKC "K"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:33:25

Time Test Ended: 19:51:55

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: 3364.00 ft (KB) To 3410.00 ft (KB) (TVD)

Reference Elevations: 2004.00 ft (KB)

Total Depth: 3410.00 ft (KB) (TVD)

1997.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8734

Outside

Press@RunDepth: 22.93 psig @ 3369.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.06

End Date:

2012.04.06

Last Calib.: 2012.04.06

Start Time: 15:03:56

End Time:

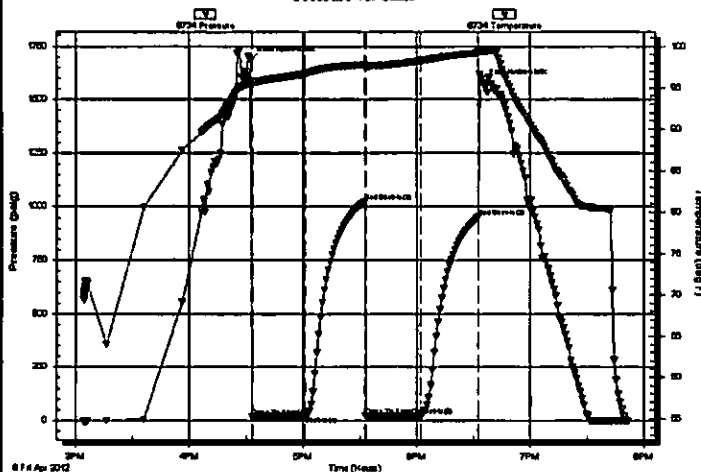
19:51:55

Time On Btm: 2012.04.06 @ 16:32:25

Time Off Btm: 2012.04.06 @ 18:34:55

TEST COMMENT: IFP - weak blow throughout sur - 1/2"
ISI - no blow back
FFP - no blow
FSI - no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1686.49	95.80	Initial Hydro-static
1	17.78	95.36	Open To Flow (1)
29	22.24	96.68	Shut-in(1)
60	1023.33	97.79	End Shut-in(1)
61	22.88	97.48	Open To Flow (2)
90	22.93	98.27	Shut-in(2)
120	952.69	99.24	End Shut-in(2)
123	1579.28	99.38	Final Hydro-static

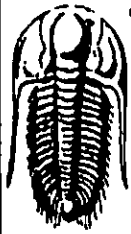
Recovery

Length (ft)	Description	Volume (bbl)
10.00	DRL MUD 100%	0.14

* 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.

21-8-19 Rooks, KS

PO Box 458
Hays, KS 67601

Zerger A-1

Job Ticket: 45707

DST#: 3

ATTN: Clayton Erickson

Test Start: 2012.04.06 @ 15:03:55

Tool Information

Drill Pipe:	Length: 3364.00 ft	Diameter: 3.80 inches	Volume: 47.19 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 47.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3364.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	73.00 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			3342.00	
Hydraulic tool	5.00			3347.00	
Jars	5.00			3352.00	
Safety Joint	2.00			3354.00	
Packer	5.00			3359.00	27.00 Bottom Of Top Packer
Packer	5.00			3364.00	
Stubb	1.00			3365.00	
Perforations	4.00			3369.00	
Recorder	0.00	6669	Inside	3369.00	
Recorder	0.00	8734	Outside	3369.00	
Change Over Sub	1.00			3370.00	
Blank Spacing	31.00			3401.00	
Change Over Sub	1.00			3402.00	
Perforations	5.00			3407.00	
Bullnose	3.00			3410.00	46.00 Bottom Packers & Anchor

Total Tool Length: 73.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco, Inc.

21-8-19 Rooks, KS

PO Box 458
Hays, KS 67601

Zerger A-1

Job Ticket: 45707

DST#: 3

ATTN: Clayton Erickson

Test Start: 2012.04.06 @ 15:03:55

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 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
10.00	DRL MUD 100%	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

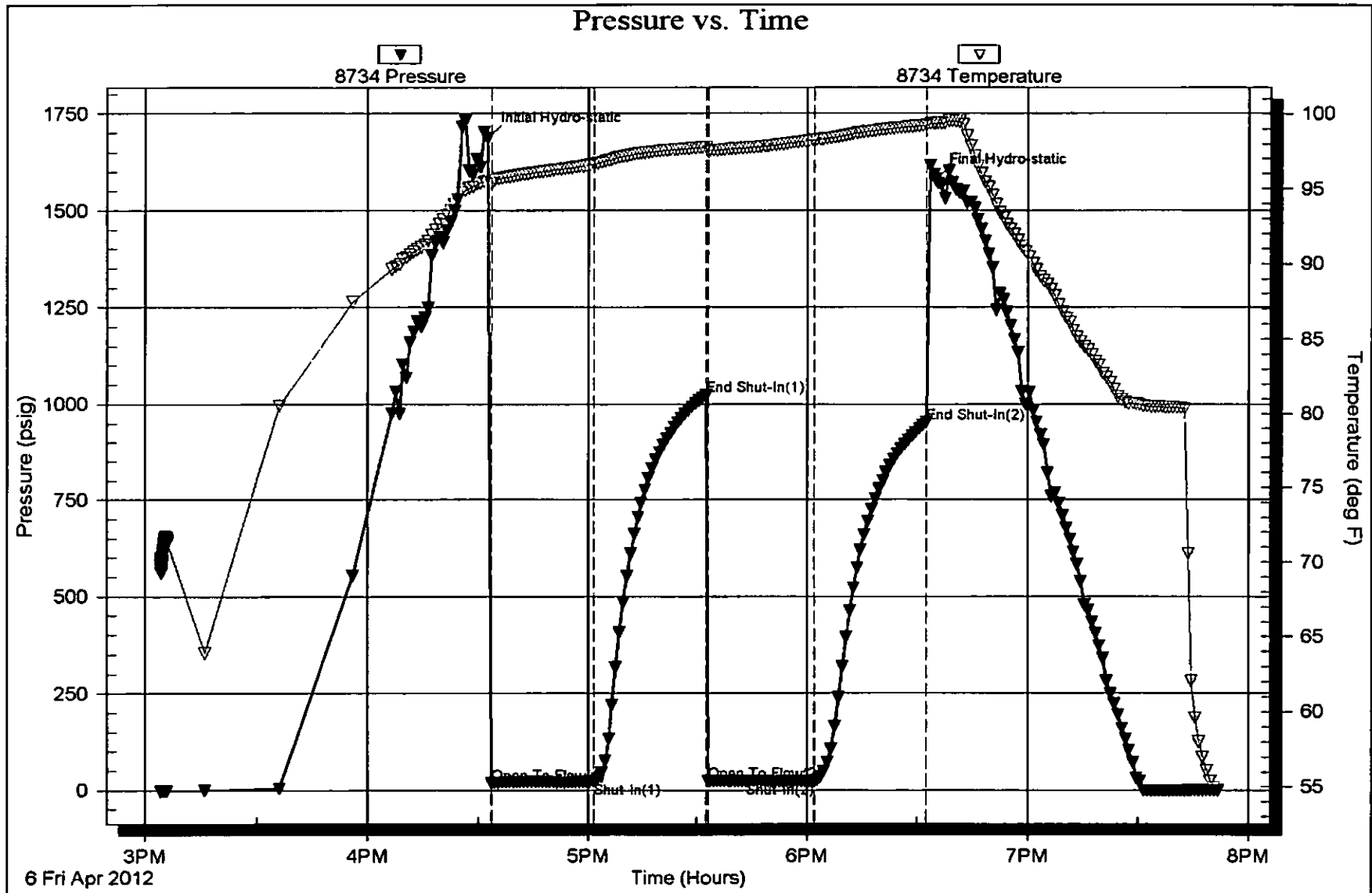
Num Gas Bombs: 0

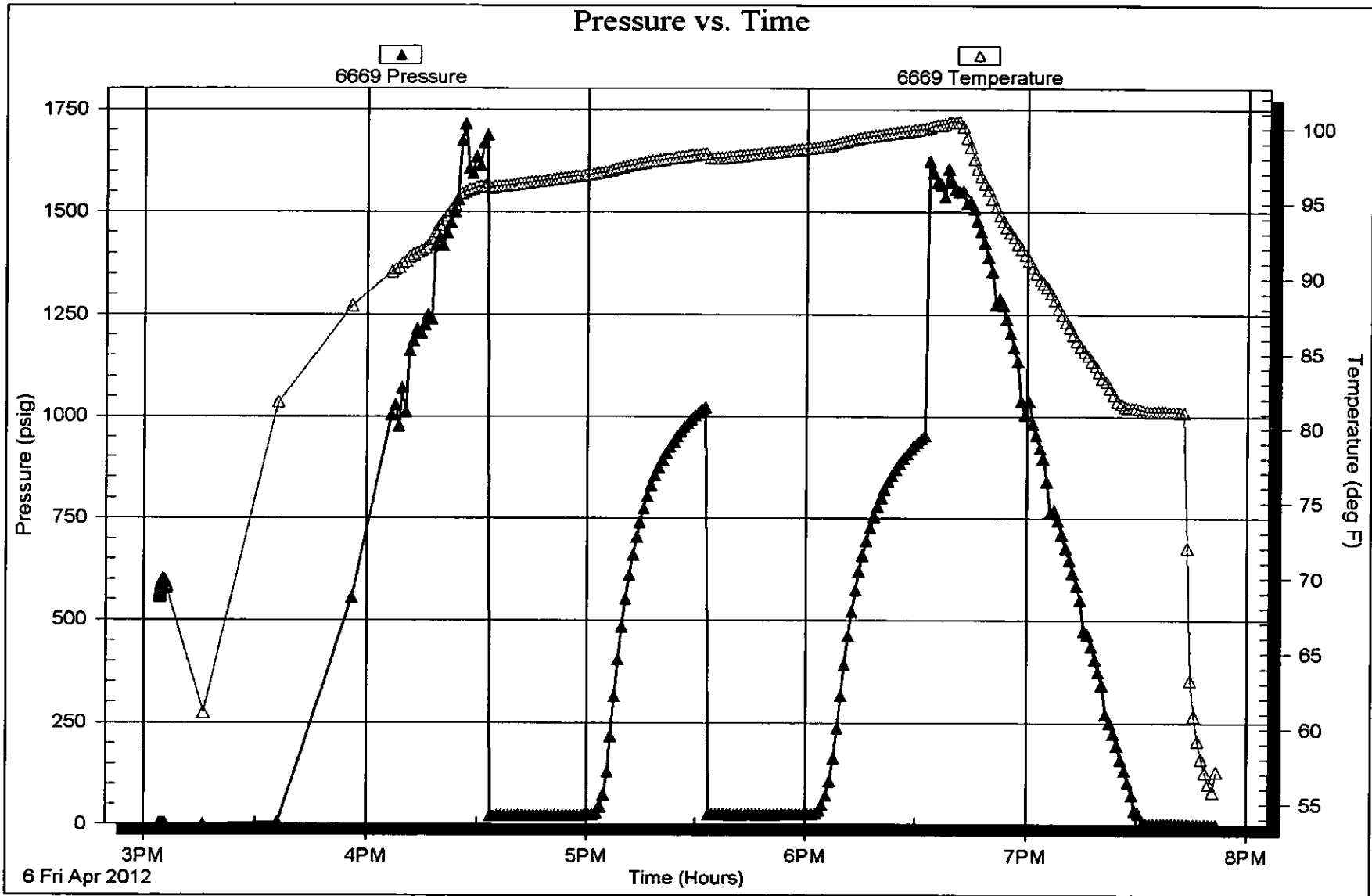
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

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RECEIVED
APR 09 2012

Test Ticket

NO. 45705

Well Name & No. Zenger A-1 Test No. 1 Date 4-4-12
 Company Tengsco Elevation 2004 KB 1997 GL
 Address 1327 Abuse Rd PO Box 458 Hays, Ks 67601
 Co. Rep / Geo. Clyten Erickson Rig Am Eagle 2
 Location: Sec. 21 Twp. 8 Rgn. 19 Co. Rock State K

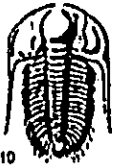
Interval Tested 3210 - 3235 Zone Tested LKC "C"
 Anchor Length 25 Drill Pipe Run 3209 Mud Wt. 8.9
 Top Packer Depth 3205 Drill Collars Run — Vis 40
 Bottom Packer Depth 3210 Wt. Pipe Run — WL 6.8
 Total Depth 3235 Chlorides 2900 ppm System LCM
 Blow Description IFP - BOB 30 sec
ISI - no blow back
FFP - BOB 1 1/2 min
FSI - no blow back

ROC	Foot of	%gas	%oil	%water	%mud
<u>1</u>	<u>Free Oil</u>		<u>9.5</u>		<u>5</u>
<u>145</u>	<u>USOCWM</u>		<u>2</u>	<u>43</u>	<u>55</u>
<u>1984</u>	<u>reversed at water</u>				
<u>120</u>	<u>MW</u>		<u>9.5</u>		<u>5</u>

ROC Total 2250 BHT 104 Gravity 37 API RW 082 @ SI °F Chlorides 160 ppm
 (A) Initial Hydrostatic 1539 Test 1125' T-On Location 2358
 (B) First Initial Flow 226 Jara 250 T-Started 0119
 (C) First Final Flow 1044 Safety Joint 75' T-Open 0325
 (D) Initial Shut-In 1092 Circ Sub 50' T-Pulled 0625
 (E) Second Initial Flow 1051 Hourly Standby T-Out 0855
 (F) Second Final Flow 1098 Milonga 85 RT 119' Comments
 (G) Final Shut-In 1104 Sampler
 (H) Final Hydrostatic 1498 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1109'
 Accessibility MP/DST Disc't
 Sub Total 1109'

Approved By _____ Our Representative Brian Fairbank

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.



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P.O. Box 1733 • Hays, Kansas 67661

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Test Ticket

NO. 45706

Well Name & No. Zenger A-1 Test No. 2 Date 4-5-12
 Company Tengasco Elevation 2004 KB 1997 GL
 Address _____
 Co. Rep / Geo. Clayton Erickson Rig Am Eagle 2
 Location: Sec. 21 Twp. 8 Rgo. 19 Co. Rooks State Mo

Interval Tested 3235-3267 Zone Tested UC "D-F"
 Anchor Length 32 Drill Pipe Run 3240 Mud Wt. 8.9
 Top Packer Depth 3230 Drill Collars Run _____ Vis 50
 Bottom Packer Depth 3235 Wt. Pipe Run _____ WL 7.2
 Total Depth 3267 Chlorides 3000 ppm System LCM _____
 Blow Description IFP- BOB 5 min
ISI- 1/4" blow back throughout
FFP- BOB 6 min
FSI- BOB 18 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>590</u>	<u>G.I.P</u>				
<u>185</u>	<u>Free oil</u>		<u>95</u>		<u>5</u>
<u>120</u>	<u>MCO</u>		<u>60</u>		<u>40</u>
<u>60</u>	<u>W.MCO</u>		<u>40</u>	<u>10</u>	<u>30</u>
<u>120</u>	<u>MW</u>			<u>90</u>	<u>10</u>

Rec Total 485 BHT 104 Gravity 37 API RW 108.5 56° F Chlorides 130,000 ppm

(A) Initial Hydrostatic 1464 Test 1125 T-On Location 1544
 (B) First Initial Flow 39 Jars 250 T-Started 1554
 (C) First Final Flow 131 Safety Joint 75' T-Open 1711
 (D) Initial Shut-In 1070 Circ Sub _____ T-Pulled 2011
 (E) Second Initial Flow 137 Hourly Standby _____ T-Out 2205
 (F) Second Final Flow 219 Miliago 85' RT 119' Comments _____
 (G) Final Shut-In 1037 Sampler _____
 (H) Final Hydrostatic 1534 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 45

Sub Total 1569 MP/DST Disc't _____

Approved By _____ Our Representative Brian Farbank

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APR 09 2012

Test Ticket

NO. 45707

Well Name & No. Zenger A-1 Test No. 3 Date 4-6-12
 Company Tengasco Elevation 2004 KB 1997 GL
 Address _____
 Co. Rep / Geo. Clayton Erickson Rig Am Eagle 2
 Location: Sec. 21 Twp. 8 Rgo. 19 Co. Rock State K

Interval Tested 3364-3410 Zone Tested LAC "h"
 Anchor Length 46 Drill Pipe Run 3364 Mud Wt. 9.0
 Top Packer Depth 3359 Drill Collars Run _____ Vis 53
 Bottom Packer Depth 3364 Wt. Pipe Run _____ WL 6.8
 Total Depth 3410 Chlorides 3000 ppm System LCM _____

Blow Description IFP - weak blow throughout sur - 1/2"
FSI - no blow back
IFP - no blow
FSI - no blow back

Roc	Foot of	%gas	%oil	%water	%mud
<u>10</u>	<u>drl mud</u>			<u>100</u>	
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Roc Total 10 BHT 99 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 1686 Test 1125 T-On Location 1435
 (B) First Initial Flow 18 Jars 250 T-Started 1503
 (C) First Final Flow 22 Safety Joint 75 T-Open 1632
 (D) Initial Shut-In 1023 Circ Sub _____ T-Pulled 1832
 (E) Second Initial Flow 23 Hourly Standby _____ T-Out 1951
 (F) Second Final Flow 23 Mileage 238 Comments mileage to land stock
 (G) Final Shut-In 953 Sampler _____
 (H) Final Hydrostatic 1579 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Sub Total 0
 Total 11068
 MP/DST Disc't _____
 Sub Total 11068

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