KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1087174

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:

- [x] New Well [ ] Re-Entry [ ] Workover
- [x] 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 #:

05/02/2012	05/12/2012	06/05/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-163-24035-00-00
Spot Description:
NW - SE - NW Sec. 30 Twp. 7 S. R. 17 [ ] East [x] West
1650 Feet from [x] North / [ ] South Line of Section
1650 Feet from [ ] East / [x] West Line of Section

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

County: Rooks
Lease Name: K.U. Endowment A Well #: 3
Field Name: RIffe
Producing Formation: Arbuckle
Elevation: Ground: 1783 Kelly Bushing: 1790
Total Depth: 3370 Plug Back Total Depth: 3301
Amount of Surface Pipe Set and Cemented at: 1226 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

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

Chloride content: 51000 ppm Fluid volume: 160 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Tengasco, Inc.
Lease Name: Chaffin License #: 32278
Quarter NW Sec. 19 Twp. 7 S. R. 17 [ ] East [x] West
County: Rooks Permit #: D-22219

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:
- [x] Wireline Log Received
- [x] Geologist Report Received
- [ ] UIC Distribution

ALT [x] I [ ] II [ ] III Approved by: Deanna Garrison Date: 07/12/2012

Side Two

1087174

Operator Name: Tengasco, Inc. Lease Name: K.U. Endowment A Well #: 3

Sec. 30 Twp. 7 S. R. 17 ☐ 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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

Electric Log Submitted Electronically ☑ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:

Dual Induction
Density Neutron/PE
Micro

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ 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
Conductor	17	13.375	54	89	Com	100	3% CC, 2% gel
Surface	12.25	8.625	23	1226	Com	580	3% CC, 2% gel
Production	7.875	5.5	14	3369	ASC	150	10% salt, 2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:
☐ Perforate
☐ Protect Casing
☐ Plug Back TD
☑ Plug Off Zone

Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
3305-3310	Com	50	
-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
6	3305-10	Squeezed	
6	3305-09	300 gal 15% MA	
		CIBP	3301
6	3290-95		

TUBING RECORD: Size: 2-7/8" Set At: 3280 Packer At: N/A

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 06/07/2012

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	3		17		

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:
Arb 3290-95'

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Tengasco, Inc.
Well Name	K.U. Endowment A 3
Doc ID	1087174

Tops

Name	Top	Datum
Anhydrite	1211	+579
Topeka	2706	-916
Heebner	2914	-1124
Toronto	2935	-1145
Lansing	2956	-1166
BKC	3183	-1393
Arbuckle	3243	-1453
RTD	3369	-1579

MUD LOG

WellSight Systems

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

Well Name:	**KU ENDOWMENT #3**		
Location:	**NW SE NW Sec. 30 ;Twnsp. 7 s.; Rge. 17 w.**		
License Number:	**32278**	**Region:**	**Rooks County, KS**
Spud Date:	**5/2/2012**	**Drilling Completed:**	**5/12/2012**
Surface Coordinates:	**1650' FNL & 1650' FWL** **S 30 T 7s R 17w**		
Bottom Hole Coordinates:			
Ground Elevation (ft):	**1783'**	**K.B. Elevation (ft):**	**1790'**
Logged Interval (ft):	**2600' To: 3345'**	**Total Depth (ft):**	**3370'**
Formation:	**Arbuckle**		
Type of Drilling Fluid:	**Chemical**		

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	1211 (+579)	1210 (+580)
Topeka	2706 (-916)	2706 (-916)
Heebner	2914 (-1124)	2914 (-1124)
Toronto	2935 (-1145)	2938 (-1148)
Lansing	2956 (-1166)	2956 (-1166)
BKC	3183 (-1393)	3183 (-1393)
Arbuckle	3243 (-1453)	3242 (-1453)
TD	3369 (-1579)	3370 (-1580)

DSTs

DST#1 2730-2747 45-45-45-45
FP: (32-36)(37-45) SIP: 480-473
REC: 6' mw (80%w, 20%m) 6' wm (40% w, 60%m)

DST#2 3039-3060 45-45-60-45
FP: (21-26)(22-30) SIP: 105-99
REC: 30' vsocm (3% oil, 97%m)

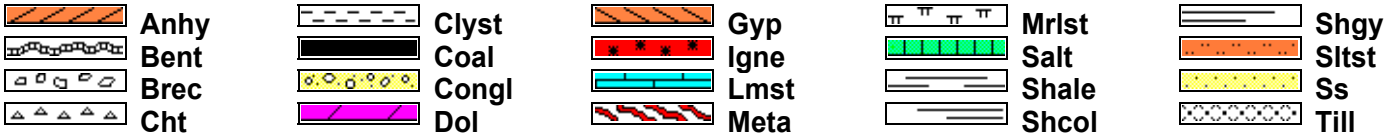
DST#3 3242-3280 45-45-45-45
FP: (24-29)(29-30) SIP: 162-91
REC: 5' free oil, 10' ocm (10% oil, 90% m)

DST#4 3275-3316 45-45-45-45 (Straddle)
FP: (30-54)(68-92) SIP: 981-954
REC: 10' Free oil, 53' ocm (10% oil, 80%m,10%w)
93' socm (5% oil, 95% m) 155' Total Recovery

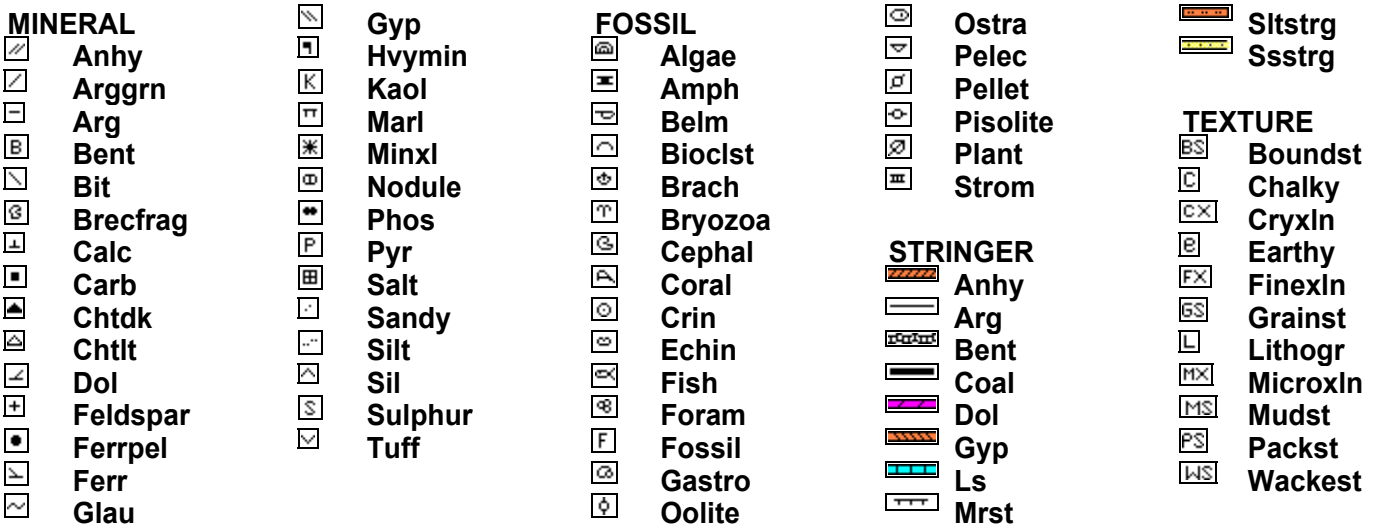
Comments

8 5/8' set at 1226'
Production casing was ran to further test the economic potential of the Arbuckle Formation.

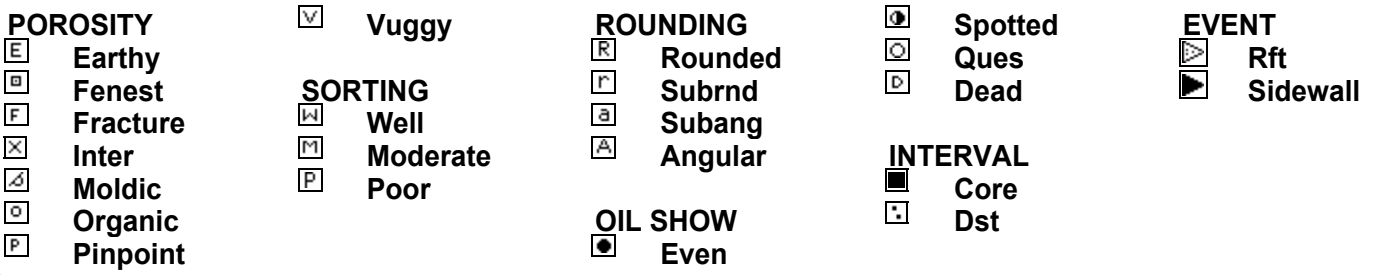
ROCK TYPES

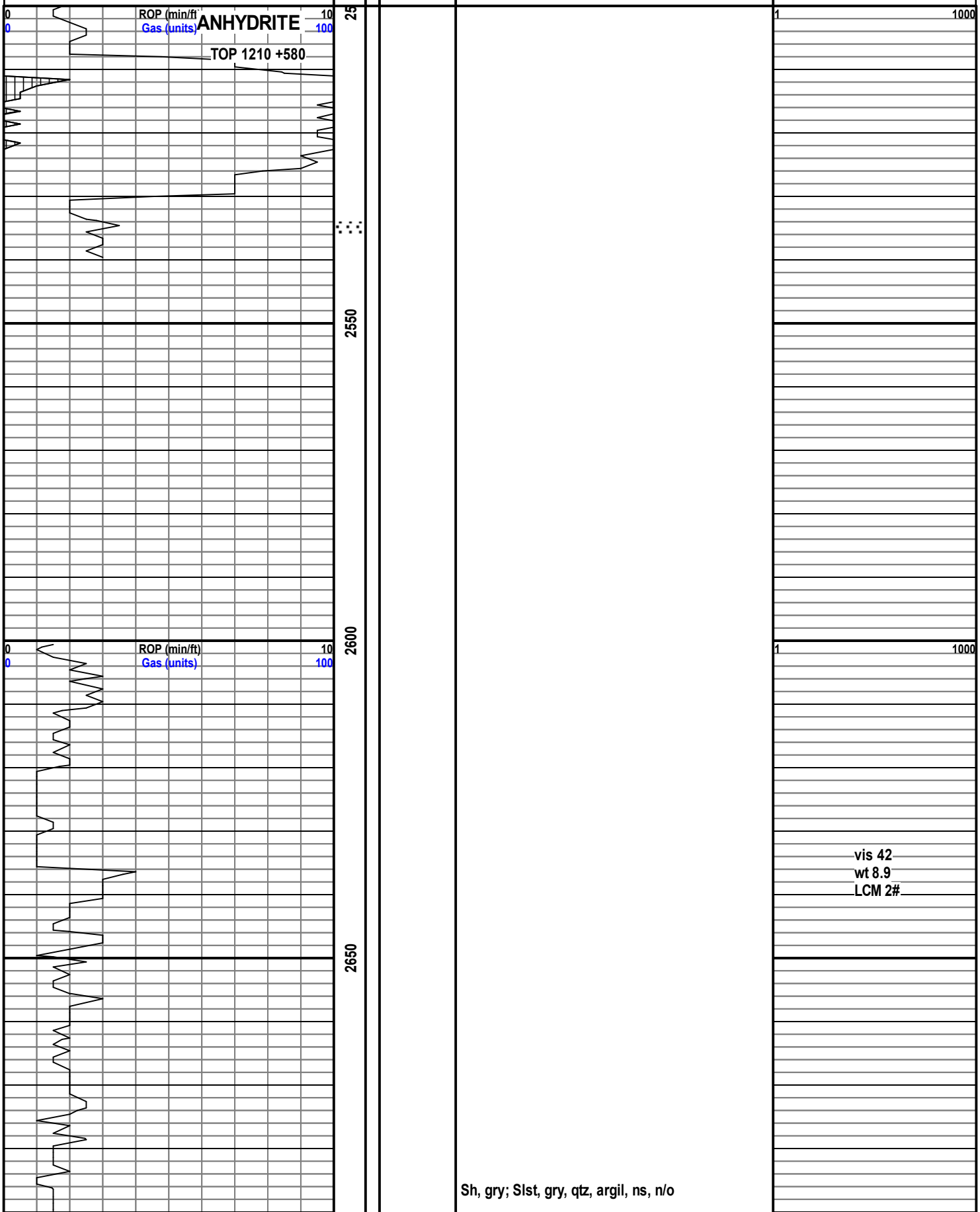


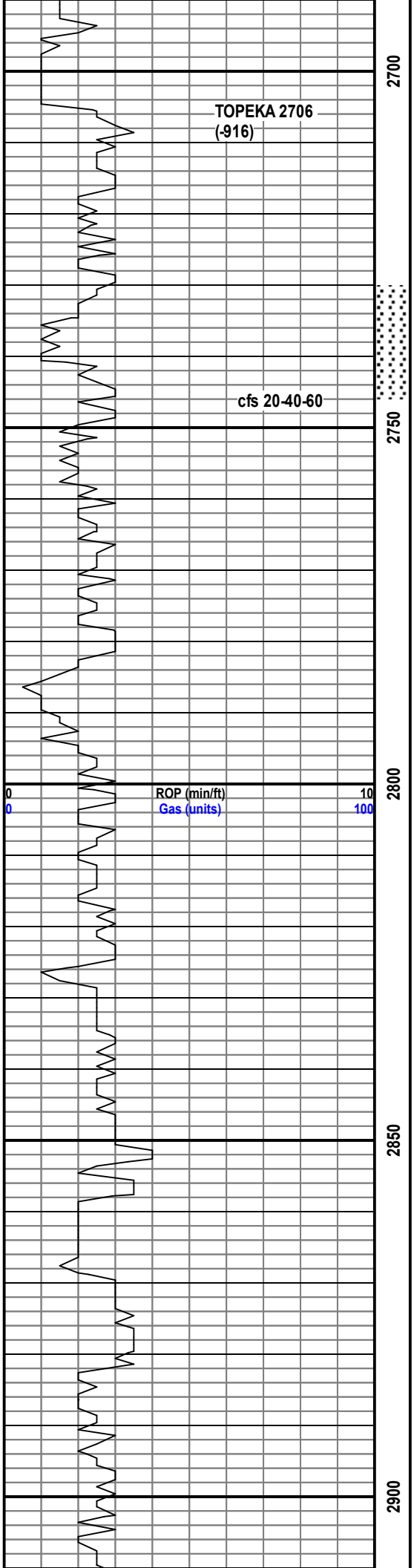
ACCESSORIES



OTHER SYMBOLS




Curve Track 1
ROP (min/ft)
Gas (units)
Depth
Porosity Type
Lithology
Geological Descriptions
Remarks
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
C5 (units)
0
0
ROP (min/ft)
Gas (units)
10
100
ANHYDRITE
TOP 1210 +580
25
2550
2600
2650
1
1000
vis 42
wt 8.9
LCM 2#
Sh, gry; Slst, gry, qtz, argil, ns, n/o



Ls, tan-gry, fxl, foss to sl gran, ns, n/o

vis 62
wt 9.2
LCM 2#

a/a; Sh, gry

DST#1 2730-2747
12' mw

Ls, crm, fxl to sl gran, some foss, sl ixgran to sl foss por, r pc w fr vy por, lt SFO wh bxn, spt'd surf to spt'd sat'd stn 2747 40 min

a/a v wk odor 2747 60 min

Ls, gry to crm, wkstn to pkstn, pr-sl ixgran por to Ls, tan, fxl, mdstn, ns, n/o

Ls, lt tan, a/a, sct'd cky, ns, n/o

Ls, gry, pell, slty to Ls, crm, fxl to sl gran, pr vis por, ns, n/o cky in pt

vis 60
wt 9.0
LCM 2#

Ls, tan, dolomitic, suc, sl suc por, ns, n/o 2800

Sh, blk; Ls, a/a

1
1000

Ls, brn, wkstn, ns, n/o

Ls, lt tan, fxl, mdstn, few cal xls, sct'd ck, ns, n/o

vis 58
wt 9.1
LCM 2#
rpm 54
pp 650#

Ls, ofwh, fxl, nvp, ns, n/o

Ls, crm, wkstn, few foss frags, pr vis por, ns, n/o

Ls, gry, wkstn w sh incl, pr por, ns, n/o

Ls, crm-brn, fxl, few foss frags, ns, n/o

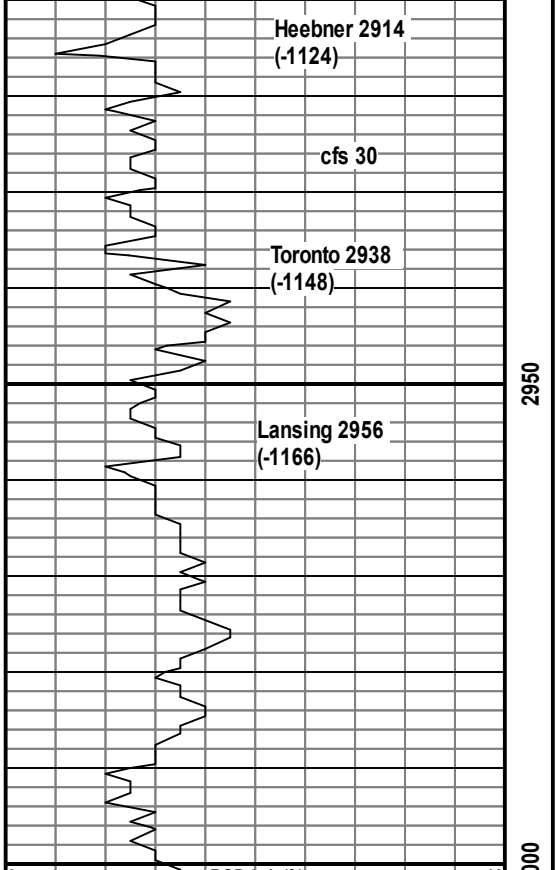
Ls, crm, ool, spt'd surf stn, spt'd sl ixool por, few pcs sl ixool por, lt sfo, wk od 2880

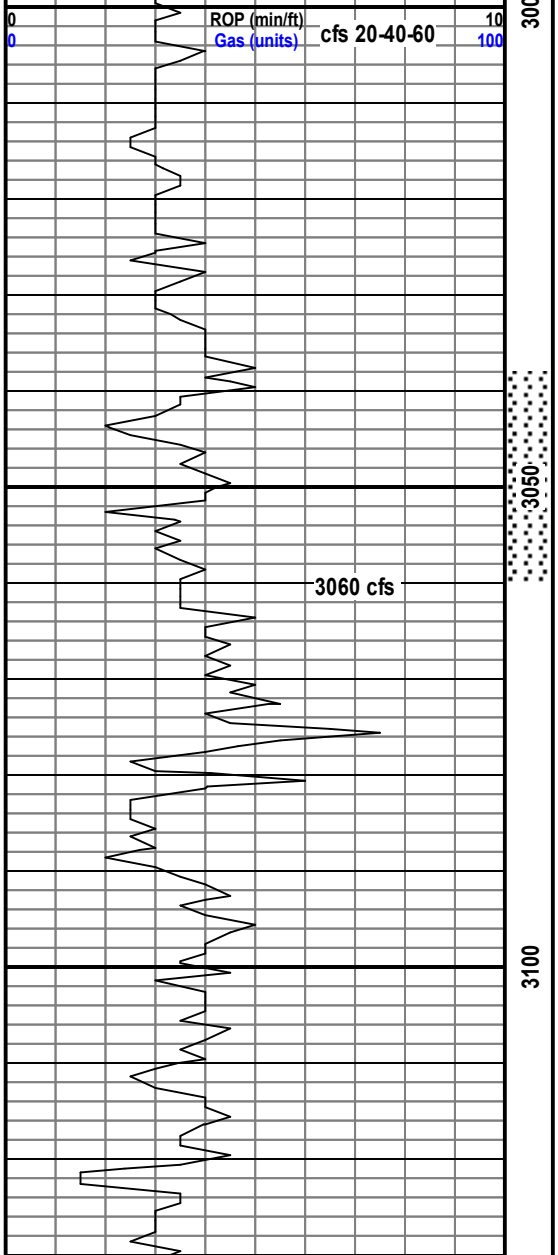
Ls, a/a, Chert, brn, fresh, dse, ns, n/o

Ls, crm to tan, fxl, few sl foss, some w sh incl, r pc Ls, crm, gran, sl-fr ixgran por, lt sfo, n/o 2900

Ls, crm, ool, pr to sl ixool por, spt'd stn, sl sfo wh bxn, cky in pt, v wk odor 2910

Ls, crm, fxl to Ls, gry, wkstn-pkstn, few fos frags, sh incl, tr pyrite, ns, n/o





2950

3000

3050

3100

SH, blk, sl carb, platy 2926

Sh, v.c., mrn-lt gry, soft, cky; r pc Ls, wh, pr vis por, v spt'd surf stn, v sl sfo wh bxn, n/o 2940

Ls, wh, ool, pr ool por, spt'd stn, v sl sfo to Ls, tan, fxl to sl gran, even surf stn to poss lt even sat'd stn, sl sfo, pr vis por, n/o 2950

Ls, wh, fxl to Slst, grn, fri; Chert, wh-crm, fresh, dse; pc Ls, ool, a/a, ns, n/o

pr sample, abdn't soft red sh 2970

vis 48
wt 9.2
LCM 1 1/2#

Ls, wh, fxl; Chert, crm, fresh, dse, ns, n/o

Ls, fxl, nvp, v sl sfo wh bxn, some sl cky, lt surf stn, fr odor 3003 20 min

NOTE: "C" Zone
fair odor, NSFO

Ls, a/a to r pc Ls, wh, ool, pr to L-fr ixool por, lt stn, nsfo, v sl odor 3003 40 min

1
1000

Ls, crm-tan, pr por, 1 pc Ls, wh, ool, pr por, spt'd brn stn, dse, n/o

Ls, wh-crm, fxl, r pc w cal rexln, lt stn on frac edge, n/o

Ls, of wh, ool, lt even stn, v sl sfo wh bxn, pr por; Chert, wh-crm, wk odor 3050

a/a, some cky, pr vis por, few pcs sl ixool por, lt odor 3060

vis 63
wt 9.2
LCM 2#

Ls, ool-oom, fr oom por to few w fr vgy por, lt sat'd stn, sl-fr sfo, gd odor 3060 20 min

DST#2 3039 - 3060
30' SOCM

Ls, oom, a/a to Ls, wh, fxl, nvp, ns, sl cky, wk to L fr odor 3070

Ls, crm-brn, mst fxl, few weathered rind, ns, n/o

SH, blk; Ls, lt gry-brn, mdstn, some w sh incl, micro pyrite, ns, n/o

Ls, dolomitic, sl suc por, ns to few pc Ls, crm, fgran, pr por, lt sat'd stn, r sfo wh bxn, n/o 3100

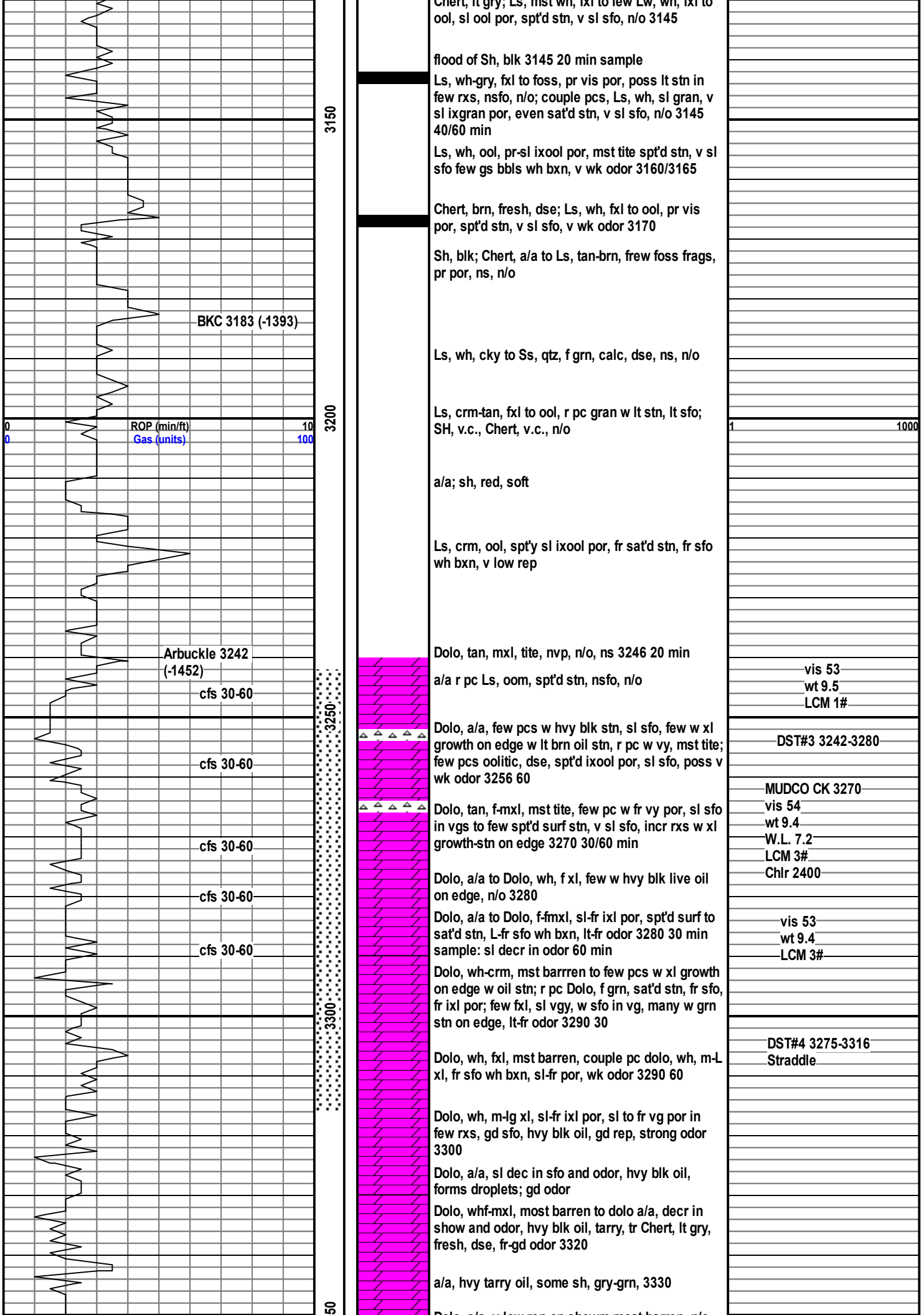
Chert, wh, trans, brn, fresh, dse, ns, n/o

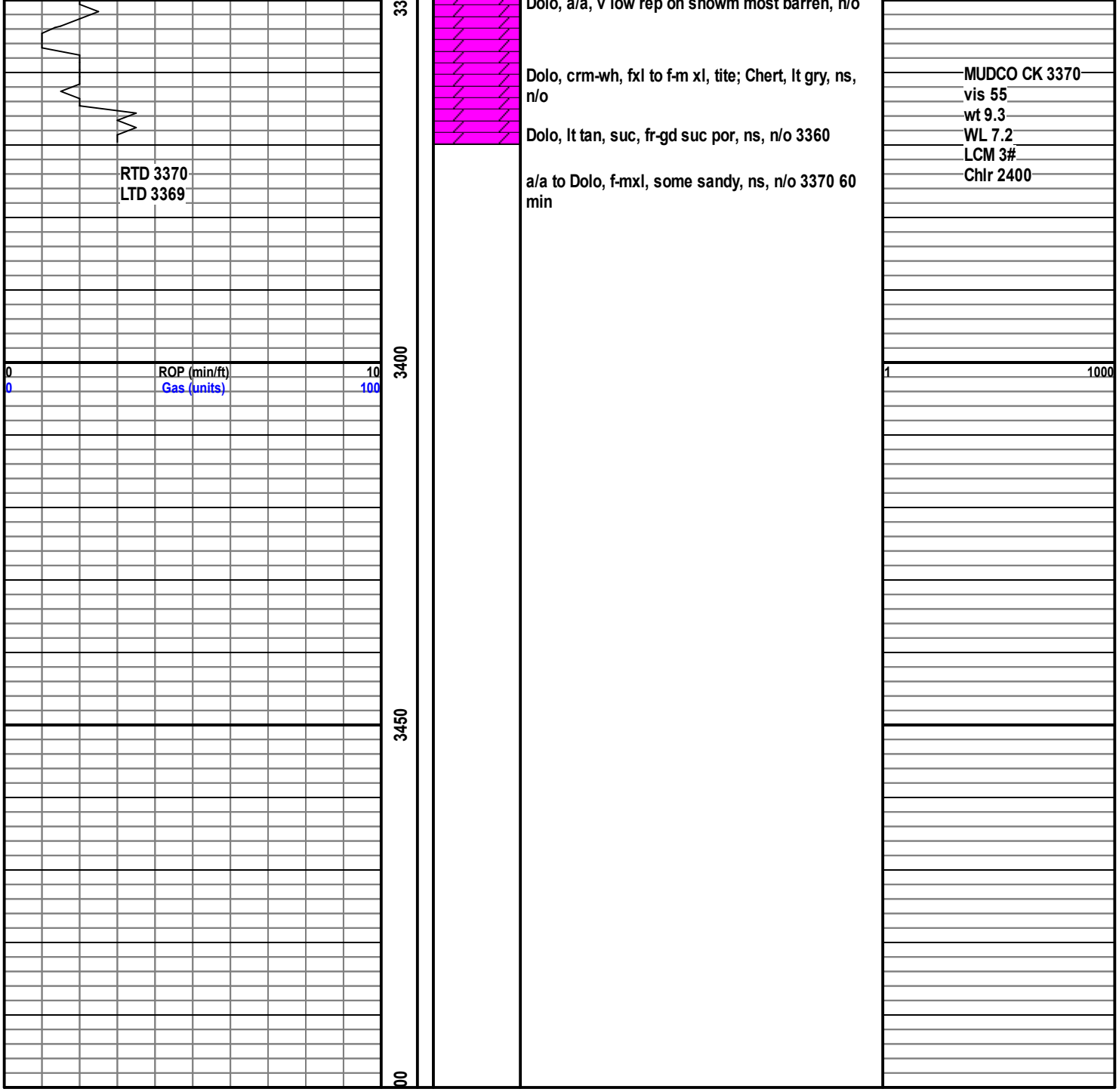
considerable Chert, a/a 3120

Ls, wh, pkstn, sl vis por, lt stn, v sl sfo wh bxn sl cky to Ls, wh, grnstn (ool), v sl vis por, lt even stn, v sl sfo wh bxn, sl odor 3120

vis 48
wt 9.3
LCM 2#

Ls, gry-brn, few pcs sl vy por, nsfo to foss, pr vis por, n/o


Chert, lt gry; Ls, mst wh, fxl to few Lw, wh, fxl to ool, sl ool por, spt'd stn, v sl sfo, n/o 3145
flood of Sh, blk 3145 20 min sample
Ls, wh-gry, fxl to foss, pr vis por, poss lt stn in few rxs, nsfo, n/o; couple pcs, Ls, wh, sl gran, v sl ixgran por, even sat'd stn, v sl sfo, n/o 3145 40/60 min
Ls, wh, ool, pr-sl ixool por, mst tite spt'd stn, v sl sfo few gs bbls wh bxn, v wk odor 3160/3165
Chert, brn, fresh, dse; Ls, wh, fxl to ool, pr vis por, spt'd stn, v sl sfo, v wk odor 3170
Sh, blk; Chert, a/a to Ls, tan-brn, frew foss frags, pr por, ns, n/o
Ls, wh, cky to Ss, qtz, f grn, calc, dse, ns, n/o
Ls, crm-tan, fxl to ool, r pc gran w lt stn, lt sfo; SH, v.c., Chert, v.c., n/o
a/a; sh, red, soft
Ls, crm, ool, spt'y sl ixool por, fr sat'd stn, fr sfo wh bxn, v low rep
Dolo, tan, mxl, tite, nvp, n/o, ns 3246 20 min
a/a r pc Ls, oom, spt'd stn, nsfo, n/o
Dolo, a/a, few pcs w hvy blk stn, sl sfo, few w xl growth on edge w lt brn oil stn, r pc w vy, mst tite; few pcs oolitic, dse, spt'd ixool por, sl sfo, poss v wk odor 3256 60
Dolo, tan, f-mxl, mst tite, few pc w fr vy por, sl sfo in vgs to few spt'd surf stn, v sl sfo, incr rxs w xl growth-stn on edge 3270 30/60 min
Dolo, a/a to Dolo, wh, f xl, few w hvy blk live oil on edge, n/o 3280
Dolo, a/a to Dolo, f-fmxl, sl-fr ixl por, spt'd surf to sat'd stn, L-fr sfo wh bxn, lt-fr odor 3280 30 min sample: sl decr in odor 60 min
Dolo, wh-crm, mst barrren to few pcs w xl growth on edge w oil stn; r pc Dolo, f grn, sat'd stn, fr sfo, fr ixl por; few fxl, sl vgy, w sfo in vg, many w grn stn on edge, lt-fr odor 3290 30
Dolo, wh, fxl, mst barren, couple pc dolo, wh, m-L xl, fr sfo wh bxn, sl-fr por, wk odor 3290 60
Dolo, wh, m-lg xl, sl-fr ixl por, sl to fr vg por in few rxs, gd sfo, hvy blk oil, gd rep, strong odor 3300
Dolo, a/a, sl dec in sfo and odor, hvy blk oil, forms droplets; gd odor
Dolo, whf-mxl, most barren to dolo a/a, decr in show and odor, hvy blk oil, tarry, tr Chert, lt gry, fresh, dse, fr-gd odor 3320
a/a, hvy tarry oil, some sh, gry-grn, 3330
3150
3200
3250
3300
BKC 3183 (-1393)
Arbuckle 3242 (-1452)
cfs 30-60
cfs 30-60
cfs 30-60
cfs 30-60
cfs 30-60
0
ROP (min/ft)
10
0
Gas (units)
100
1
1000
vis 53
wt 9.5
LCM 1#
DST#3 3242-3280
MUDCO CK 3270
vis 54
wt 9.4
W.L. 7.2
LCM 3#
Chlr 2400
vis 53
wt 9.4
LCM 3#
DST#4 3275-3316
Straddle


RTD 3370
LTD 3369
0
ROP (min/ft)
10
0
Gas (units)
100
3400
3450
Dolo, a/a, v low rep on shows most barren, n/o
Dolo, crm-wh, fxl to f-m xl, tite; Chert, lt gry, ns, n/o
Dolo, lt tan, suc, fr-gd suc por, ns, n/o 3360
a/a to Dolo, f-mxl, some sandy, ns, n/o 3370 60 min
MUDCO CK 3370
vis 55
wt 9.3
WL 7.2
LCM 3#
Chlr 2400
1
1000

ALLIED OIL & GAS SERVICES, LLC 056401

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Russell KS.

DATE 5-2-12	SEC. 30	TWP. 7 S	RANGE 17 W	CALLED OUT	ON LOCATION	JOB START 10:00PM	JOB FINISH 10:30PM
LEASE Endowment K-4	WELL # A-3		LOCATION Stockton 1s 1e ½s			COUNTY Rooks	STATE Kansas
OLD OR NEW (Circle one)							

CONTRACTOR American Eagle Rig #2
TYPE OF JOB Conductor
HOLE SIZE 17¼ T.D. 94'
CASING SIZE 13⅜ DEPTH ~~92'~~ 89'
TUBING SIZE 8 5/8 Landing Joint DEPTH 11 FT
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT 12¼ BBL

OWNER

CEMENT
AMOUNT ORDERED 100 sx Com. 3% cc 2% Gel

EQUIPMENT

PUMP TRUCK # 419 CEMENTER Glenn G.
HELPER Woody O.
BULK TRUCK # 473 DRIVER Chris G.
BULK TRUCK # DRIVER

REMARKS:

Ran 2 Joints of 54# 13⅜ csg. Set @ 89', Recieved Circulation @ Cement w/ 100 sx Comm. 3% cc 2% Gel, Displaced 12¼ BBL H₂O Behind Cement, + Shut-in @ 200 #. Cement Did Circulate To Surface. Thanks

COMMON	100 sx	@ 16.25	1625.00
POZMIX		@	
GEL	2 sx	@ 21.25	42.50
CHLORIDE	4 sx	@ 58.20	232.80
ASC		@	
HANDLING	106 TOTAL SX	@ 2.25	238.50
MILEAGE	60 TON/MILE		699.60
		TOTAL	2838.40

SERVICE

DEPTH OF JOB	92		
PUMP TRUCK CHARGE			1125.00
EXTRA FOOTAGE		@	
MILEAGE	4J mi 60	@ 7.00 per mile	420.00
MANIFOLD	1J mi 60	@ 4.00	240.00
		@	
		TOTAL	1785.00

CHARGE TO: Tengasco Inc.
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

2-Centralizers	@	72.00	144.00
	@		
	@		
	@		
	@		
	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)	128.79
TOTAL CHARGES	4767.40
DISCOUNT 20/50	1361.36 IF PAID IN 30 DAYS

PRINTED NAME
SIGNATURE Keith Hanks

ALLIED OIL & GAS SERVICES, LLC 053559

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Great Bend KS

DATE 5-6-12	SEC. 30	TWP. 07S	RANGE 17W	CALLED OUT	ON LOCATION	JOB START 9:00 am	JOB FINISH 5:15 pm
LEASE KU Enterprises "A"	WELL # 3		LOCATION 1 S Stockton, 1/2 E, South into			COUNTY Rooks	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR American Eagle #2
TYPE OF JOB Intermediate
HOLE SIZE 7 7/8 T.D. 1230
CASING SIZE 8 5/8 DEPTH 1236+11=1247
TUBING SIZE DEPTH
DRILL PIPE 4 1/2 DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT 42.61
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT freshwater

OWNER Tengasco

CEMENT
AMOUNT ORDERED 580 sks Lem 3% cc 2% gel

EQUIPMENT

PUMP TRUCK #398 CEMENTER Shane K
HELPER Brad C
BULK TRUCK #410 DRIVER Joel M
BULK TRUCK #478 DRIVER Kevin E

COMMON	580	@ 16.25	9.425.00
POZMIX		@	
GEL	11	@ 21.25	233.75
CHLORIDE	20	@ 58.20	1164.00
ASC		@	
HANDLING	627.14	@ 2.10	1.316.99
MILEAGE	28.62 ~~60~~ 60 X	2.35	4.035.37
		TOTAL	16175.31

REMARKS:

See Cement Log

SERVICE

DEPTH OF JOB	1247		
PUMP TRUCK CHARGE			1125.00
EXTRA FOOTAGE	747	@ .95	709.65
MILEAGE	Hum 60	@ 7.00	420.00
MANIFOLD		@	
	hum 60	@ 4.00	240.00
		@	
		TOTAL	2.494.65

CHARGE TO: ~~KB~~ Tengasco
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

~~5 centralizer~~	@	
2 Baskets	@ 478.00	956.00
AFU insert + Ball	@ 382.00	382.00
Rubber Plug	@ 112.00	112.00
~~guide shoe (open)~~	@	
	TOTAL	1450.00

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

SALES TAX (If Any)
TOTAL CHARGES 20.120.16
DISCOUNT 50% 2090 5.432.25 IF PAID IN 30 DAYS
14.687.91

PRINTED NAME X
SIGNATURE X Keith Kuhl

ALLIED OIL & GAS SERVICES, LLC 056115

Federal Tax I.D.# 20-5975804

TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Russell

DATE 5-13-12	SEC. 30	TWP. 7s	RANGE 17	CALLED OUT	ON LOCATION	JOB START 12:00	JOB FINISH 10:30
LEASE K.U. Endowment	WELL # A-3		LOCATION Stockton 1s 1/2E 3 INTO			COUNTY Rooks	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR	American Eagle #2	OWNER	
TYPE OF JOB	Pipe		
HOLE SIZE	7 7/8	T.D.	3370
CASING SIZE	5 1/2 14# New	DEPTH	3369
TUBING SIZE		DEPTH	
DRILL PIPE		DEPTH	
TOOL		DEPTH	
PRES. MAX		MINIMUM	
MEAS. LINE		SHOE JOINT	18
CEMENT LEFT IN CSG.		18	
PERFS.			
DISPLACEMENT	81 3/4 bbl		

CEMENT
AMOUNT ORDERED 180sk ASC

EQUIPMENT

PUMP TRUCK # 409	CEMENTER	Todd		
	HELPER	Tony		
BULK TRUCK # 410	DRIVER	Robert Y.		
BULK TRUCK #	DRIVER			
	Gen 1,3,6,10,20,60			

COMMON		@	
POZMIX		@	
GEL		@	
CHLORIDE		@	
ASC		@	
		@	
mud flush	4 YFR² 500	@ 1.27	635.00
		@	
180 sk	ASC	@ 19.00	3420.00
		@	
		@	
		@	
		@	
HANDLING	226	@ 2.25	508.50
MILEAGE	13 100	.11	1441.88
		TOTAL	6005.38

REMARKS:

ran 81 Jt of 5½ 14# New set at 3369 circulated 1 Hr on Bottom, cement rat hole w 30 sk, mixed 12 bbl mud flush (Super) Pulled by 150 sk ASC, cleared line + relased latch down plug and displaced 82 bbls H2O, landed Plug @ 1500 #, released pressure and Plug Held! Plug Down @ [illegible] Thanks.

SERVICE

DEPTH OF JOB	3370		
PUMP TRUCK CHARGE			2225.00
EXTRA FOOTAGE		@	
MILEAGE	MIH 56	@ 7.00	406.00
MANIFOLD		@	
	MILV 56	@ 4.00	232.00
CMHD		@ 200	N.C.
		TOTAL	2863.00

CHARGE TO: Tengasco

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

5½ Float Shoe		@ 361	361
Centralizers	6	@ 34	204
Latch Down		@	194
		@	
		@	
		TOTAL	762.00

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

SALES TAX (If Any)	303.47
TOTAL CHARGES	9,630.38
DISCOUNT 20/50	2550.04 IF PAID IN 30 DAYS

PRINTED NAME

SIGNATURE Keith Karlin

ALLIED OIL & GAS SERVICES, LLC 0561

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Russell

DATE 5-24-12	SEC. 30	TWP. 7	RANGE 17	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE RU Friewald [illegible]	WELL # A-3	LOCATION Stockton [illegible]				COUNTY Rooks	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR WC

OWNER

TYPE OF JOB Squeeze

HOLE SIZE T.D.

CASING SIZE 5½ DEPTH

TUBING SIZE 2⅜ DEPTH

DRILL PIPE DEPTH

TOOL [illegible] DEPTH 3240

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS. 3305-10 3290-95

DISPLACEMENT 9 bbl

EQUIPMENT

PUMP TRUCK # 419 CEMENTER [illegible]
HELPER [illegible]

BULK TRUCK # 410 DRIVER [illegible]

BULK TRUCK # DRIVER

CEMENT

AMOUNT ORDERED 100 sx Class A

		@		
COMMON	100 sx	@	16.25	1625.00
POZMIX		@		
GEL		@		
CHLORIDE		@		
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	100	@	2.25	344
MILEAGE	[illegible]		.11	638.

TOTAL [illegible]

REMARKS:

Set Plug @ 3340 test Plug, Set Packer @ 3332 Test Holes to [illegible] Held, Check rate @ 3 1/2 - [illegible] - [illegible] 3 min, Set Packer to Squeeze @ 3242, Establish circulation, Mix 11 bbl slurry, 9 bbl, Pressured to 1100 & Held, Pulled 2⅜ [illegible] 24 [illegible] ([illegible]), washed [illegible] [illegible] from 12-31 [illegible], [illegible] [illegible] 500 # [illegible] 5 bbl

Thanks!

SERVICE

		@		
DEPTH OF JOB				1050.00
PUMP TRUCK CHARGE				
EXTRA FOOTAGE		@		
MILEAGE	[illegible]	@	7.00	416.00
MANIFOLD		@		
[illegible]		@	4.00	232.00
1/2 MIN		@	2.40	NC

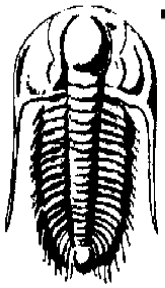
TOTAL 1698.00

CHARGE TO: Tengasco

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Tengasco Inc**

PO Box 458
Hays KS 67601

ATTN: Rod Tremblay

KU Endowment A #3

30-7s-17w Rooks,KS

Start Date: 2012.05.09 @ 01:53:17
End Date: 2012.05.09 @ 07:47:47
Job Ticket #: 44788 DST #: 1

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

Printed: 2012.05.16 @ 13:21:27

DRILL STEM TEST REPORT

Tengasco Inc

PO Box 458
Hays KS 67601

ATTN: Rod Tremblay

30-7s-17w Rooks,KS

KU Endowment A #3

Job Ticket: 44788 **DST#: 1**

Test Start: 2012.05.09 @ 01:53:17

GENERAL INFORMATION:

Formation: **Topeka**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:10:17
Time Test Ended: 07:47:47

Test Type: Conventional Bottom Hole (Initial)
Tester: Jeff Brown
Unit No: 44

Interval: 2730.00 ft (KB) To 2747.00 ft (KB) (TVD)
Total Depth: 2747.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

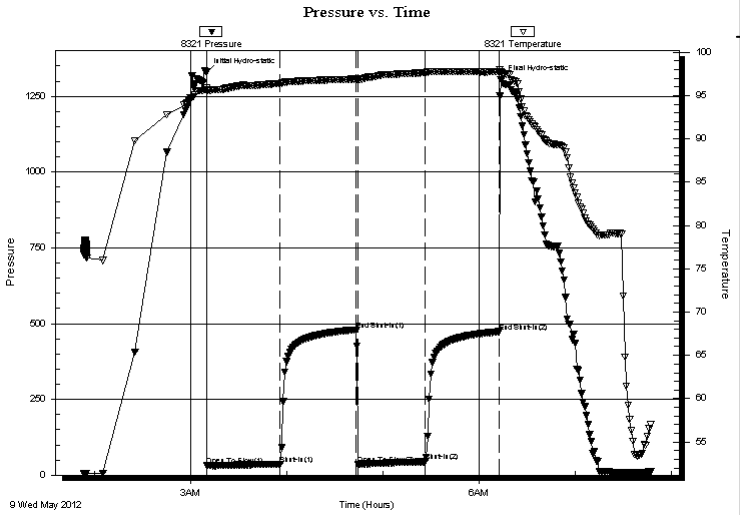
Reference Elevations: 1780.00 ft (KB)
1773.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8321 **Inside**

Press@RunDepth: 44.80 psig @ 2731.00 ft (KB)
Start Date: 2012.05.09 End Date: 2012.05.09
Start Time: 01:53:18 End Time: 07:46:47

Capacity: 8000.00 psig
Last Calib.: 2012.05.09
Time On Btm: 2012.05.09 @ 03:09:47
Time Off Btm: 2012.05.09 @ 06:13:17

TEST COMMENT: IFP-Weak blow built to 3 in
ISI-Dead no blow back
FFP-Weak blow built to 1 in
FSI-Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1329.13	95.85	Initial Hydro-static
1	31.58	95.61	Open To Flow (1)
46	36.16	96.40	Shut-In(1)
94	479.53	96.90	End Shut-In(1)
95	36.69	96.80	Open To Flow (2)
137	44.80	97.66	Shut-In(2)
183	473.19	97.73	End Shut-In(2)
184	1305.02	97.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
6.00	MW 20%M 80%W	0.08
6.00	WN 40%W 60%M	0.08

Gas Rates

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

DRILL STEM TEST REPORT

Tengasco Inc

PO Box 458
Hays KS 67601

ATTN: Rod Tremblay

30-7s-17w Rooks,KS

KU Endowment A #3

Job Ticket: 44788 **DST#: 1**

Test Start: 2012.05.09 @ 01:53:17

GENERAL INFORMATION:

Formation: **Topeka**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:10:17
Time Test Ended: 07:47:47

Test Type: Conventional Bottom Hole (Initial)
Tester: Jeff Brown
Unit No: 44

Interval: 2730.00 ft (KB) To 2747.00 ft (KB) (TVD)
Total Depth: 2747.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

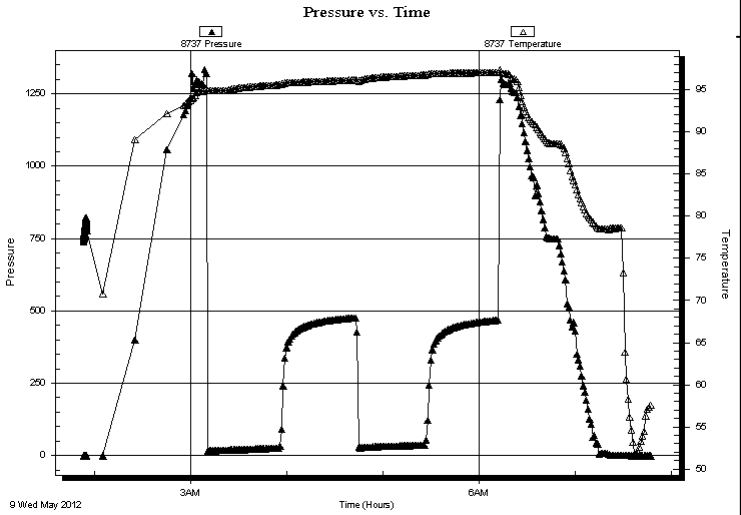
Reference Elevations: 1780.00 ft (KB)
1773.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8737 **Outside**

Press@RunDepth: psig @ 2731.00 ft (KB)
Start Date: 2012.05.09 End Date: 2012.05.09
Start Time: 01:53:15 End Time: 07:46:44

Capacity: 8000.00 psig
Last Calib.: 2012.05.09
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-Weak blow built to 3 in
ISI-Dead no blow back
FFP-Weak blow built to 1 in
FSI-Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
6.00	MW 20%M 80%W	0.08
6.00	WN 40%W 60%M	0.08

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco Inc

PO Box 458
Hays KS 67601

ATTN: Rod Tremblay

30-7s-17w Rooks,KS

KU Endowment A #3

Job Ticket: 44788 **DST#: 1**

Test Start: 2012.05.09 @ 01:53:17

Tool Information

Drill Pipe:	Length:	2714.00 ft	Diameter:	3.80	inches	Volume:	38.07	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25	inches	Volume:	0.00	bbl	
						Total Volume:	38.07	bbl	

Drill Pipe Above KB:	12.00 ft
Depth to Top Packer:	2730.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	17.00 ft
Tool Length:	45.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2200.00 lb
Weight set on Packer:	2000.00 lb
Weight to Pull Loose:	50000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	46000.00 lb
Final	46000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			2703.00		
Shut In Tool	5.00			2708.00		
Hydraulic tool	5.00			2713.00		
Jars	5.00			2718.00		
Safety Joint	3.00			2721.00		
Packer	4.00			2725.00	28.00	Bottom Of Top Packer
Packer	5.00			2730.00		
Stubb	1.00			2731.00		
Recorder	0.00	8321	Inside	2731.00		
Recorder	0.00	8737	Outside	2731.00		
Perforations	13.00			2744.00		
Bullnose	3.00			2747.00	17.00	Bottom Packers & Anchor
Total Tool Length:	**45.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco Inc

PO Box 458
Hays KS 67601

ATTN: Rod Tremblay

30-7s-17w Rooks,KS

KU Endowment A #3

Job Ticket: 44788 **DST#: 1**

Test Start: 2012.05.09 @ 01:53:17

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:			Oil API:		deg API
Mud Weight:		lb/gal	Cushion Length:	ft	Water Salinity:		ppm
Viscosity:		sec/qt	Cushion Volume:	bbl			
Water Loss:		in³	Gas Cushion Type:				
Resistivity:		ohm.m	Gas Cushion Pressure:	psig			
Salinity:		ppm					
Filter Cake:		inches					

Recovery Information

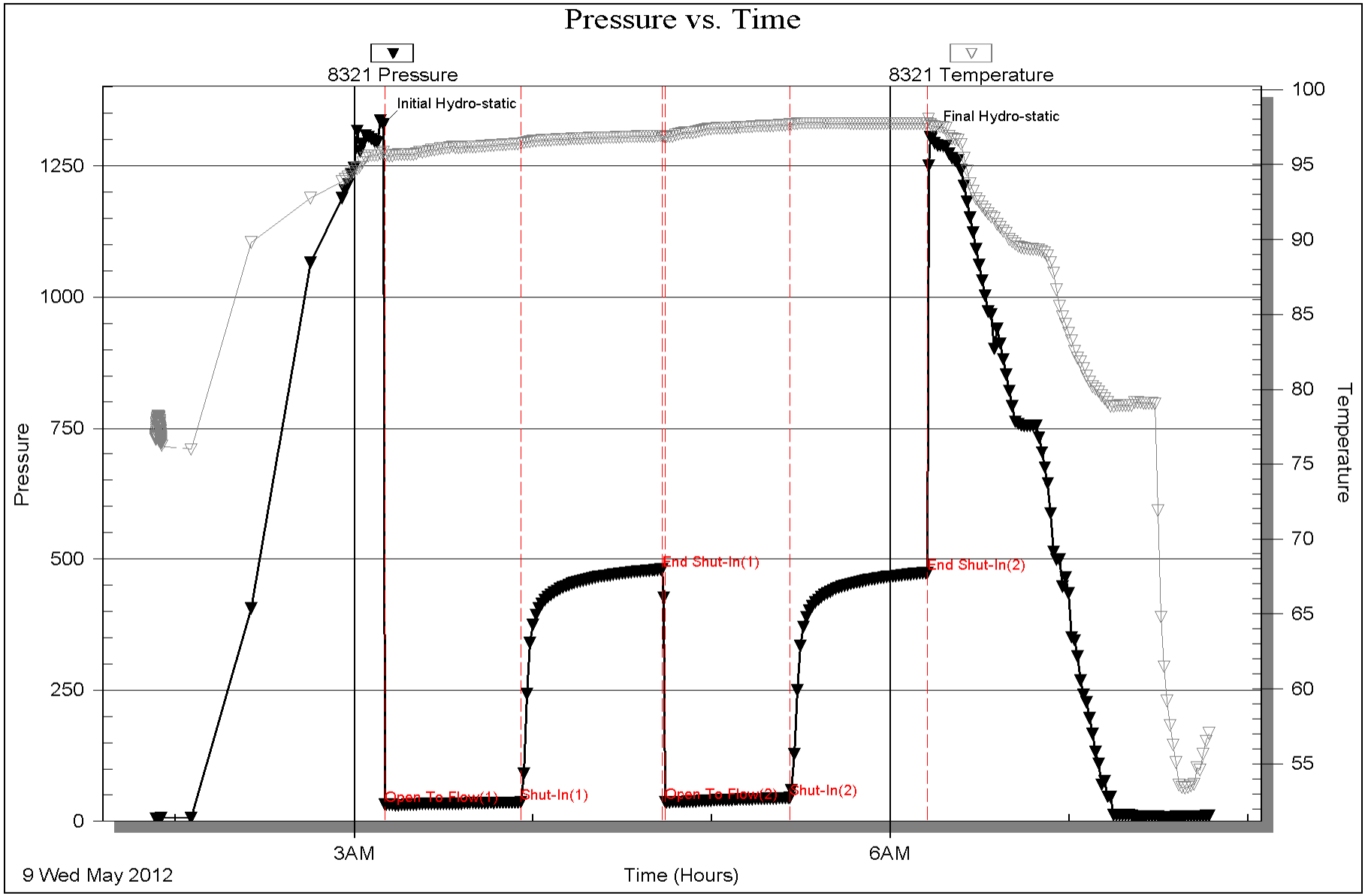
Recovery Table

Length ft	Description	Volume bbl
6.00	MW 20%M 80%W	0.084
6.00	WN 40%W 60%M	0.084

Total Length: 12.00 ft Total Volume: 0.168 bbl

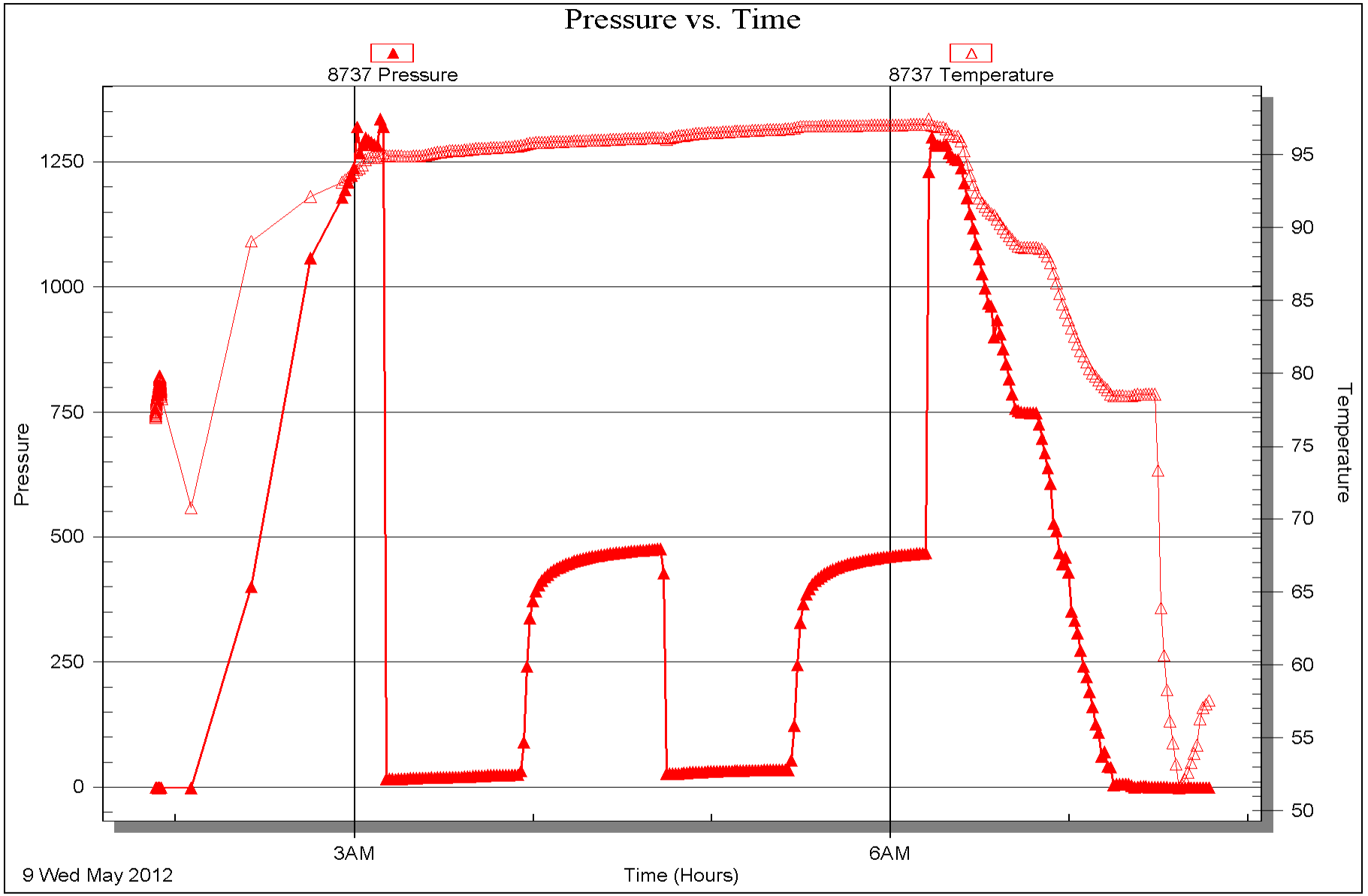
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8321 **Inside** Tengasco Inc KU Endow ment A #3 DST Test Number: 1

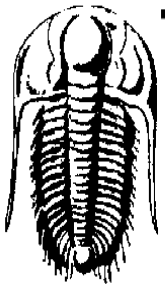


Trilobite Testing, Inc Ref. No: 44788 Printed: 2012.05.16 @ 13:21:29

Serial #: 8737 **Outside** Tengasco Inc KU Endow ment A #3 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 44788 Printed: 2012.05.16 @ 13:21:29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Tengasco Inc**

PO Box 458
Hays KS 67601

ATTN: Rod Tremblay

KU Endowment A #3

30-7s-17w Rooks,KS

Start Date: 2012.05.10 @ 08:39:21
End Date: 2012.05.10 @ 15:00:51
Job Ticket #: 44789 DST #: 2

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

Printed: 2012.05.16 @ 13:20:40

DRILL STEM TEST REPORT

Tengasco Inc

PO Box 458
Hays KS 67601

ATTN: Rod Tremblay

30-7s-17w Rooks,KS

KU Endowment A #3

Job Ticket: 44789 **DST#: 2**

Test Start: 2012.05.10 @ 08:39:21

GENERAL INFORMATION:

Formation: **Lansing-G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:08:51
Time Test Ended: 15:00:51

Test Type: Conventional Bottom Hole (Reset)
Tester: Jeff Brown
Unit No: 44

Interval: 3039.00 ft (KB) To 3060.00 ft (KB) (TVD)
Total Depth: 3060.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

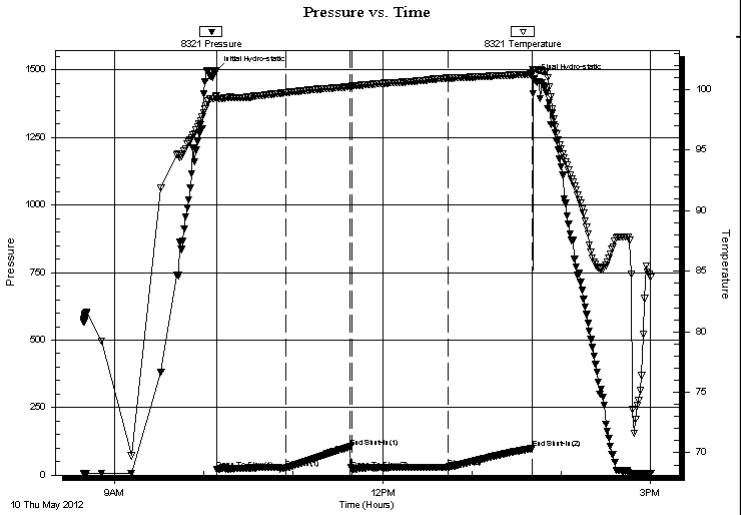
Reference Elevations: 1780.00 ft (KB)
1773.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8321 **Inside**

Press@RunDepth: 30.02 psig @ 3040.00 ft (KB)
Start Date: 2012.05.10 End Date: 2012.05.10
Start Time: 08:39:22 End Time: 14:59:51

Capacity: 8000.00 psig
Last Calib.: 2012.05.10
Time On Btm: 2012.05.10 @ 10:08:21
Time Off Btm: 2012.05.10 @ 13:41:21

TEST COMMENT: IFP-Weak blow built to 2 in
ISI-Dead no blow back
FFP-Weak blow built to 2 1/2 in
FSI-Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1497.44	99.48	Initial Hydro-static
1	21.07	99.21	Open To Flow (1)
47	26.26	99.75	Shut-In(1)
90	104.56	100.25	End Shut-In(1)
91	21.67	100.33	Open To Flow (2)
156	30.02	100.94	Shut-In(2)
212	98.74	101.28	End Shut-In(2)
213	1467.76	101.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	VSOCM 3%O 97%M	0.42

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Tengasco Inc

PO Box 458
Hays KS 67601

ATTN: Rod Tremblay

30-7s-17w Rooks,KS

KU Endowment A #3

Job Ticket: 44789 **DST#: 2**

Test Start: 2012.05.10 @ 08:39:21

GENERAL INFORMATION:

Formation: **Lansing-G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:08:51
Time Test Ended: 15:00:51

Test Type: Conventional Bottom Hole (Reset)
Tester: Jeff Brown
Unit No: 44

Interval: 3039.00 ft (KB) To 3060.00 ft (KB) (TVD)
Total Depth: 3060.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

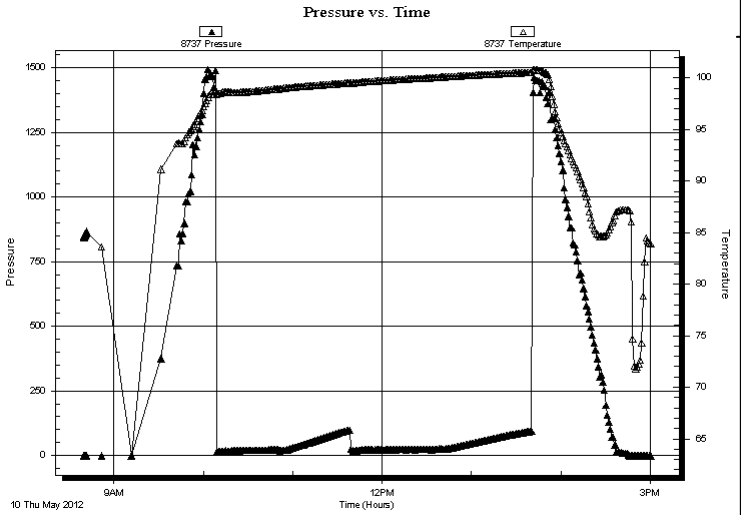
Reference Elevations: 1780.00 ft (KB)
1773.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8737 **Outside**

Press@RunDepth: psig @ 3040.00 ft (KB)
Start Date: 2012.05.10 End Date: 2012.05.10
Start Time: 08:39:38 End Time: 15:00:07

Capacity: 8000.00 psig
Last Calib.: 2012.05.10
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-Weak blow built to 2 in
ISI-Dead no blow back
FFP-Weak blow built to 2 1/2 in
FSI-Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	VSOCM 3%O 97%M	0.42

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco Inc

PO Box 458
Hays KS 67601

ATTN: Rod Tremblay

30-7s-17w Rooks,KS

KU Endowment A #3

Job Ticket: 44789 **DST#: 2**

Test Start: 2012.05.10 @ 08:39:21

Tool Information

Drill Pipe:	Length:	3028.00 ft	Diameter:	3.80	inches	Volume:	42.47	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25	inches	Volume:	0.00	bbl	
						Total Volume:	42.47	bbl	

Drill Pipe Above KB:	17.00 ft
Depth to Top Packer:	3039.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	21.00 ft
Tool Length:	49.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2200.00 lb
Weight set on Packer:	20000.00 lb
Weight to Pull Loose:	60000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	51000.00 lb
Final	51000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3012.00		
Shut In Tool	5.00			3017.00		
Hydraulic tool	5.00			3022.00		
Jars	5.00			3027.00		
Safety Joint	3.00			3030.00		
Packer	4.00			3034.00	28.00	Bottom Of Top Packer
Packer	5.00			3039.00		
Stubb	1.00			3040.00		
Recorder	0.00	8321	Inside	3040.00		
Recorder	0.00	8737	Outside	3040.00		
Perforations	17.00			3057.00		
Bullnose	3.00			3060.00	21.00	Bottom Packers & Anchor
Total Tool Length:	**49.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco Inc

PO Box 458
Hays KS 67601

ATTN: Rod Tremblay

30-7s-17w Rooks,KS

KU Endowment A #3

Job Ticket: 44789 **DST#: 2**

Test Start: 2012.05.10 @ 08:39:21

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:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.39 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1800.00 ppm				
Filter Cake:	inches				

Recovery Information

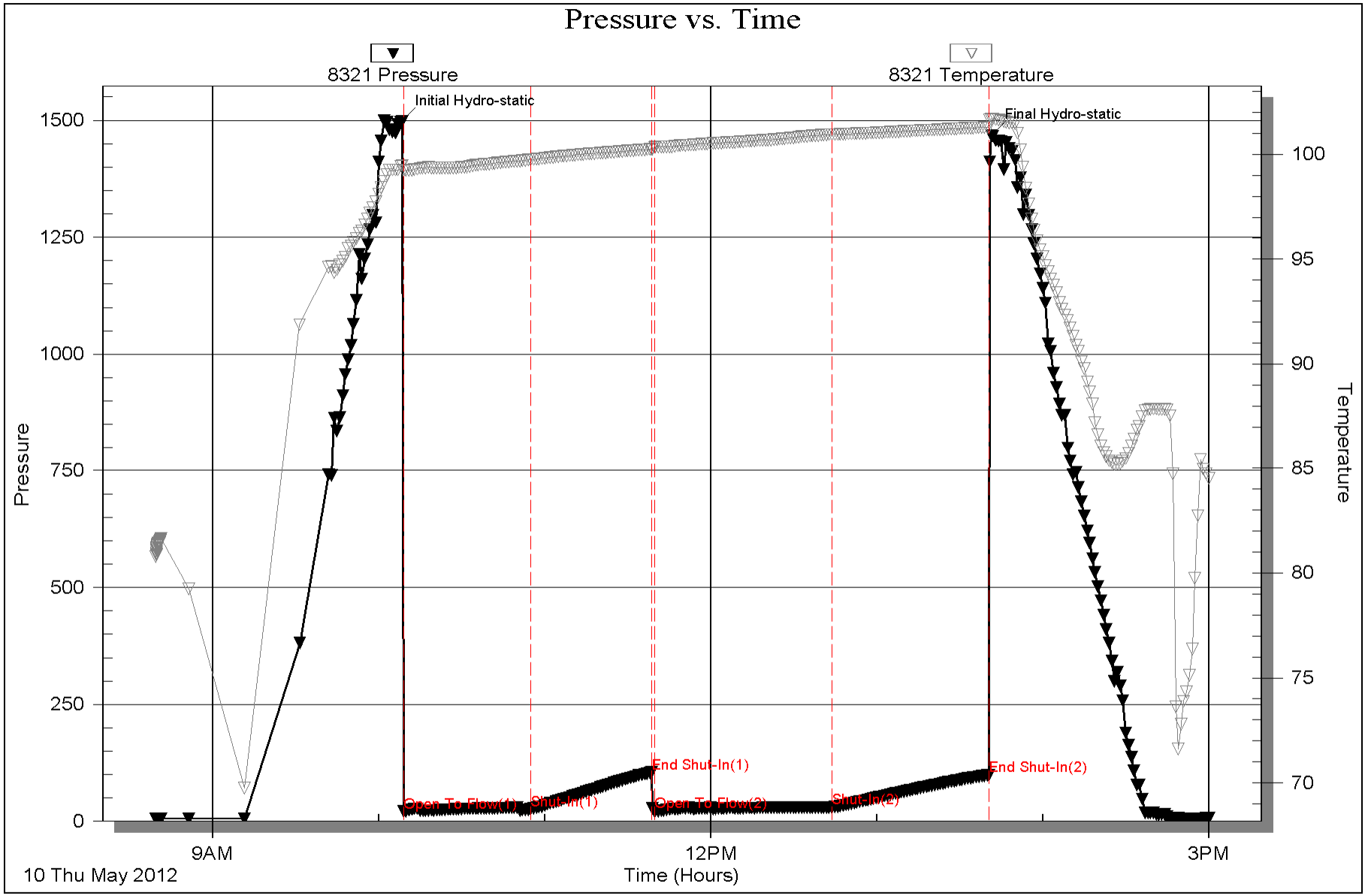
Recovery Table

Length ft	Description	Volume bbl
30.00	VSOCM 3%O 97%M	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

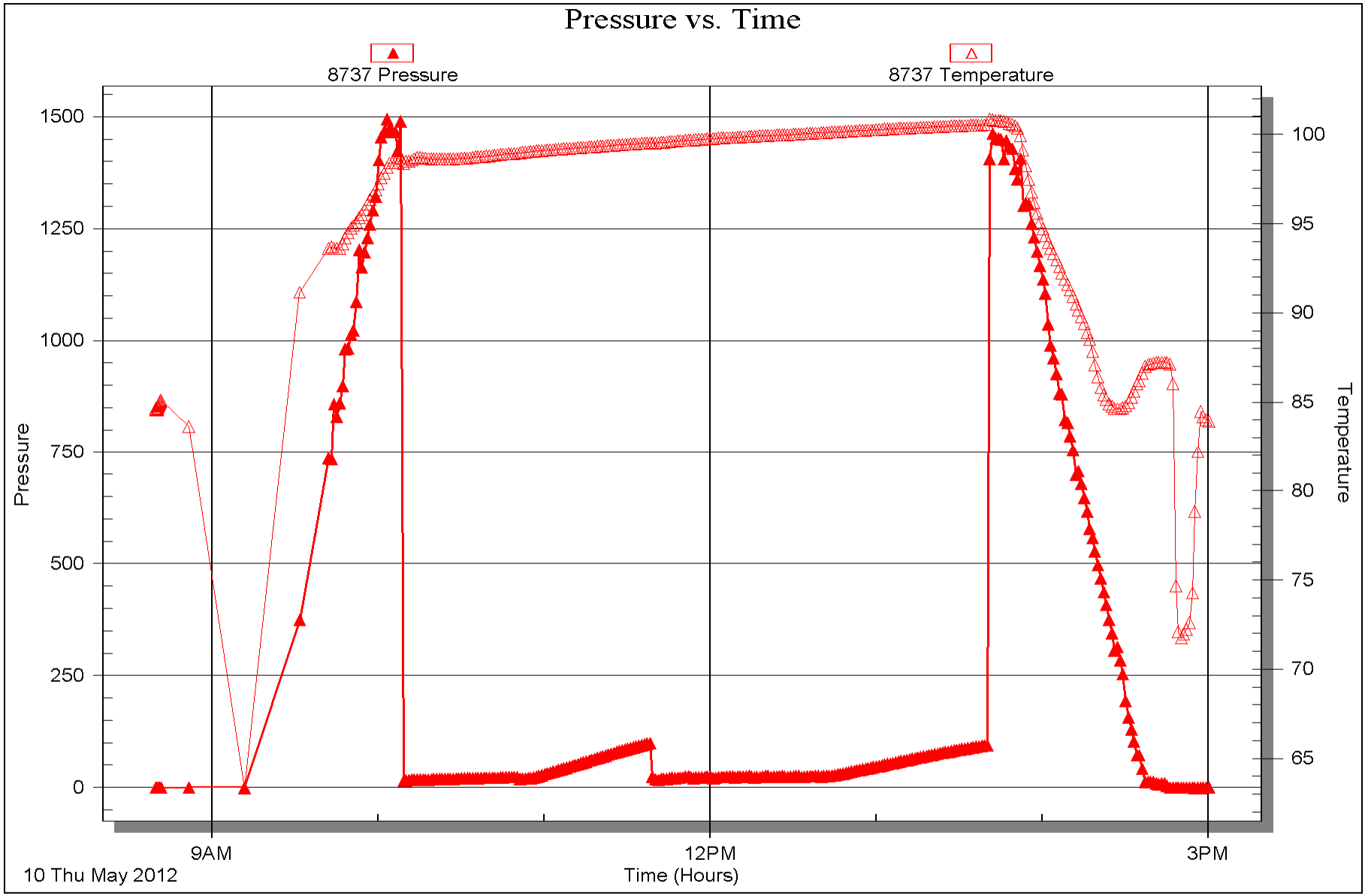
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8321 **Inside** Tengasco Inc KU Endow ment A #3 DST Test Number: 2

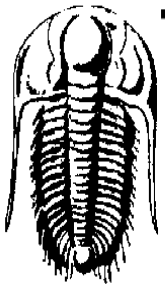


Trilobite Testing, Inc Ref. No: 44789 Printed: 2012.05.16 @ 13:20:42

Serial #: 8737 **Outside** Tengasco Inc KU Endow ment A #3 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 44789 Printed: 2012.05.16 @ 13:20:42



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Tengasco Inc**

PO Box 458
Hays KS 67601

ATTN: Rod Tremblay

KU Endowment A #3

30-7s-17w Rooks,KS

Start Date: 2012.05.11 @ 13:33:03
End Date: 2012.05.11 @ 19:54:03
Job Ticket #: 44790 DST #: 3

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

Printed: 2012.05.16 @ 13:19:43

DRILL STEM TEST REPORT

Tengasco Inc

PO Box 458
Hays KS 67601

ATTN: Rod Tremblay

30-7s-17w Rooks,KS

KU Endowment A #3

Job Ticket: 44790 **DST#: 3**

Test Start: 2012.05.11 @ 13:33:03

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:18:03
Time Test Ended: 19:54:03

Test Type: Conventional Bottom Hole (Reset)
Tester: Jeff Brown
Unit No: 44

Interval: 3242.00 ft (KB) To 3280.00 ft (KB) (TVD)
Total Depth: 3280.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

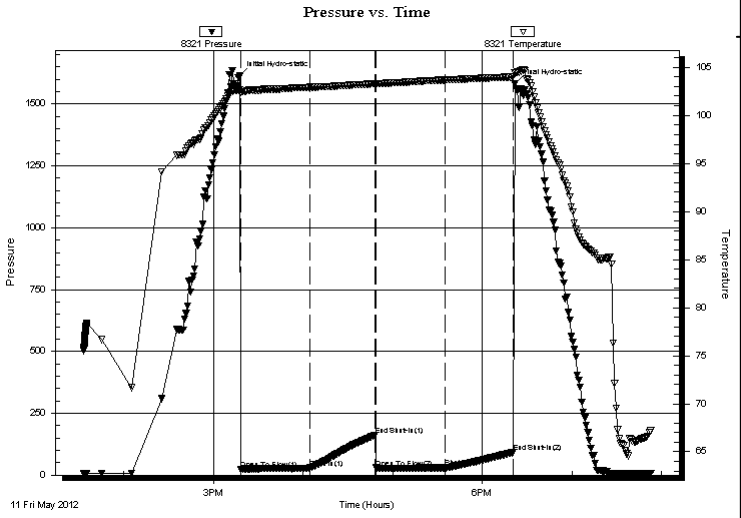
Reference Elevations: 1780.00 ft (KB)
1773.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8321 **Inside**

Press@RunDepth: 30.05 psig @ 3245.00 ft (KB)
Start Date: 2012.05.11 End Date: 2012.05.11
Start Time: 13:33:04 End Time: 19:53:03

Capacity: 8000.00 psig
Last Calib.: 2012.05.11
Time On Btm: 2012.05.11 @ 15:17:33
Time Off Btm: 2012.05.11 @ 18:21:33

TEST COMMENT: IFP-Weak blow built to 1 3/4 in
ISI-Dead no blow back
FFP-Weak blow built to 1/4 in
FSI-Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1613.21	102.68	Initial Hydro-static
1	24.08	102.40	Open To Flow (1)
47	29.46	102.93	Shut-In(1)
91	162.09	103.30	End Shut-In(1)
91	29.28	103.28	Open To Flow (2)
138	30.05	103.69	Shut-In(2)
183	91.14	104.01	End Shut-In(2)
184	1582.05	104.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 10%O 90%M	0.14
5.00	Oil 100%	0.07

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Tengasco Inc

PO Box 458
Hays KS 67601

ATTN: Rod Tremblay

30-7s-17w Rooks,KS

KU Endowment A #3

Job Ticket: 44790 **DST#: 3**

Test Start: 2012.05.11 @ 13:33:03

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:18:03
Time Test Ended: 19:54:03

Test Type: Conventional Bottom Hole (Reset)
Tester: Jeff Brown
Unit No: 44

Interval: 3242.00 ft (KB) To 3280.00 ft (KB) (TVD)
Total Depth: 3280.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

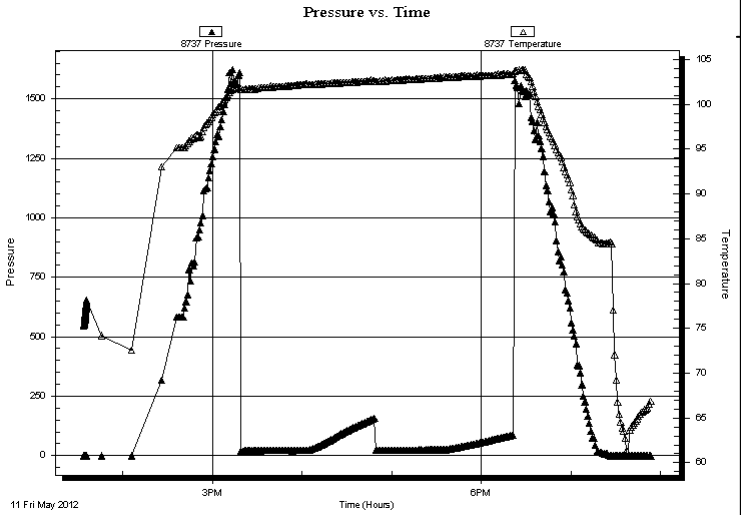
Reference Elevations: 1780.00 ft (KB)
1773.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8737 **Outside**

Press@RunDepth: psig @ 3245.00 ft (KB)
Start Date: 2012.05.11 End Date: 2012.05.11
Start Time: 13:33:53 End Time: 19:53:52

Capacity: 8000.00 psig
Last Calib.: 2012.05.11
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-Weak blow built to 1 3/4 in
ISI-Dead no blow back
FFP-Weak blow built to 1/4 in
FSI-Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 10%O 90%M	0.14
5.00	Oil 100%	0.07

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco Inc

PO Box 458
Hays KS 67601

ATTN: Rod Tremblay

30-7s-17w Rooks,KS

KU Endowment A #3

Job Ticket: 44790 **DST#: 3**

Test Start: 2012.05.11 @ 13:33:03

Tool Information

Drill Pipe:	Length:	3246.00 ft	Diameter:	3.80	inches	Volume:	45.53	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25	inches	Volume:	0.00	bbl	
						Total Volume:	45.53	bbl	

Drill Pipe Above KB:	32.00 ft
Depth to Top Packer:	3242.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	38.00 ft
Tool Length:	66.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2200.00 lb
Weight set on Packer:		22000.00 lb
Weight to Pull Loose:		60000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	54000.00 lb
	Final	54000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3215.00		
Shut In Tool	5.00			3220.00		
Hydraulic tool	5.00			3225.00		
Jars	5.00			3230.00		
Safety Joint	3.00			3233.00		
Packer	4.00			3237.00	28.00	Bottom Of Top Packer
Packer	5.00			3242.00		
Stubb	1.00			3243.00		
Perforations	2.00			3245.00		
Recorder	0.00	8321	Inside	3245.00		
Recorder	0.00	8737	Outside	3245.00		
Perforations	32.00			3277.00		
Bullnose	3.00			3280.00	38.00	Bottom Packers & Anchor
Total Tool Length:	**66.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco Inc

PO Box 458
Hays KS 67601

ATTN: Rod Tremblay

30-7s-17w Rooks,KS

KU Endowment A #3

Job Ticket: 44790 **DST#: 3**

Test Start: 2012.05.11 @ 13:33:03

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	26 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.19 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2400.00 ppm				
Filter Cake:	inches				

Recovery Information

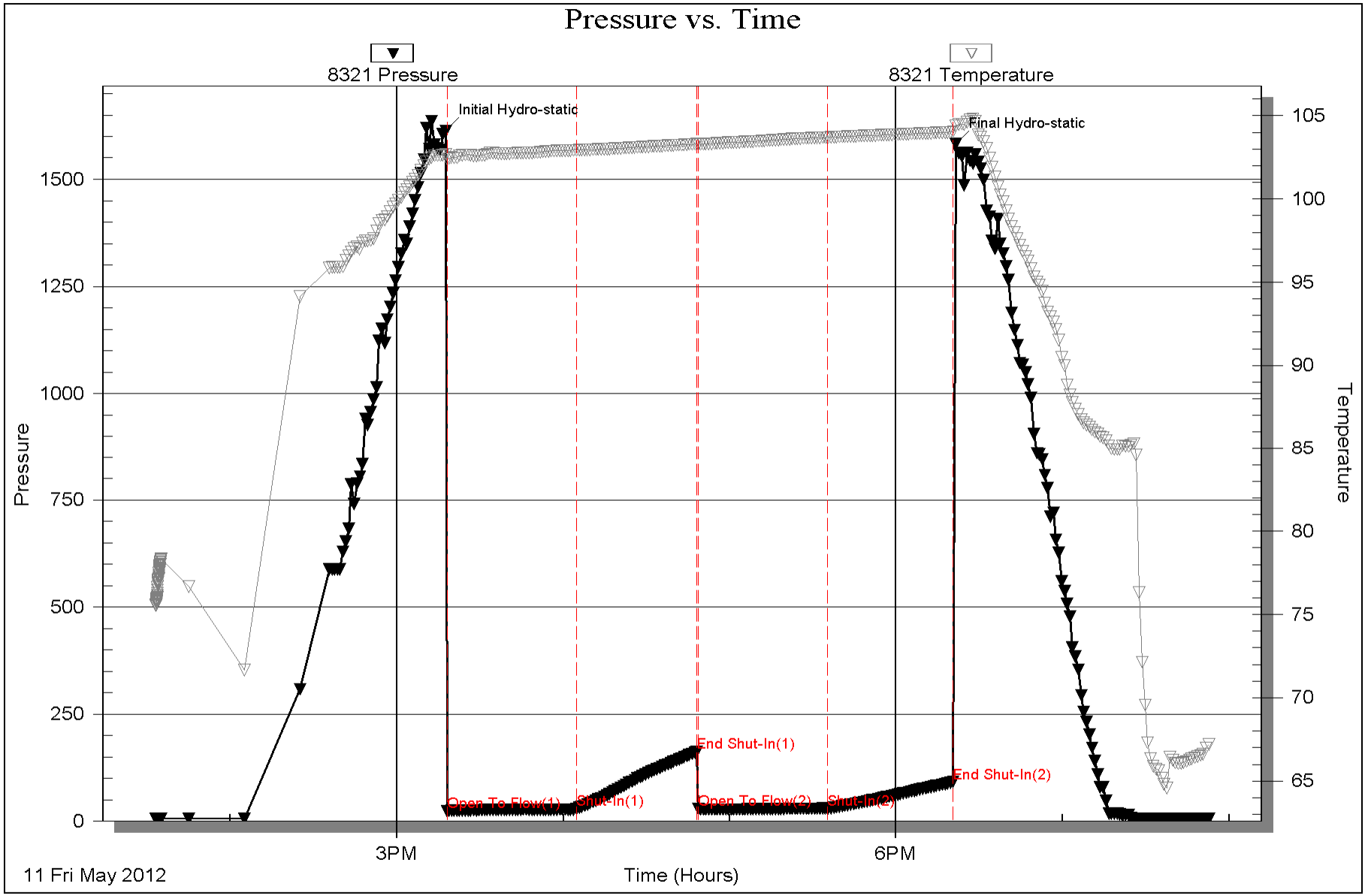
Recovery Table

Length ft	Description	Volume bbl
10.00	OCM 10%O 90%M	0.140
5.00	Oil 100%	0.070

Total Length: 15.00 ft Total Volume: 0.210 bbl

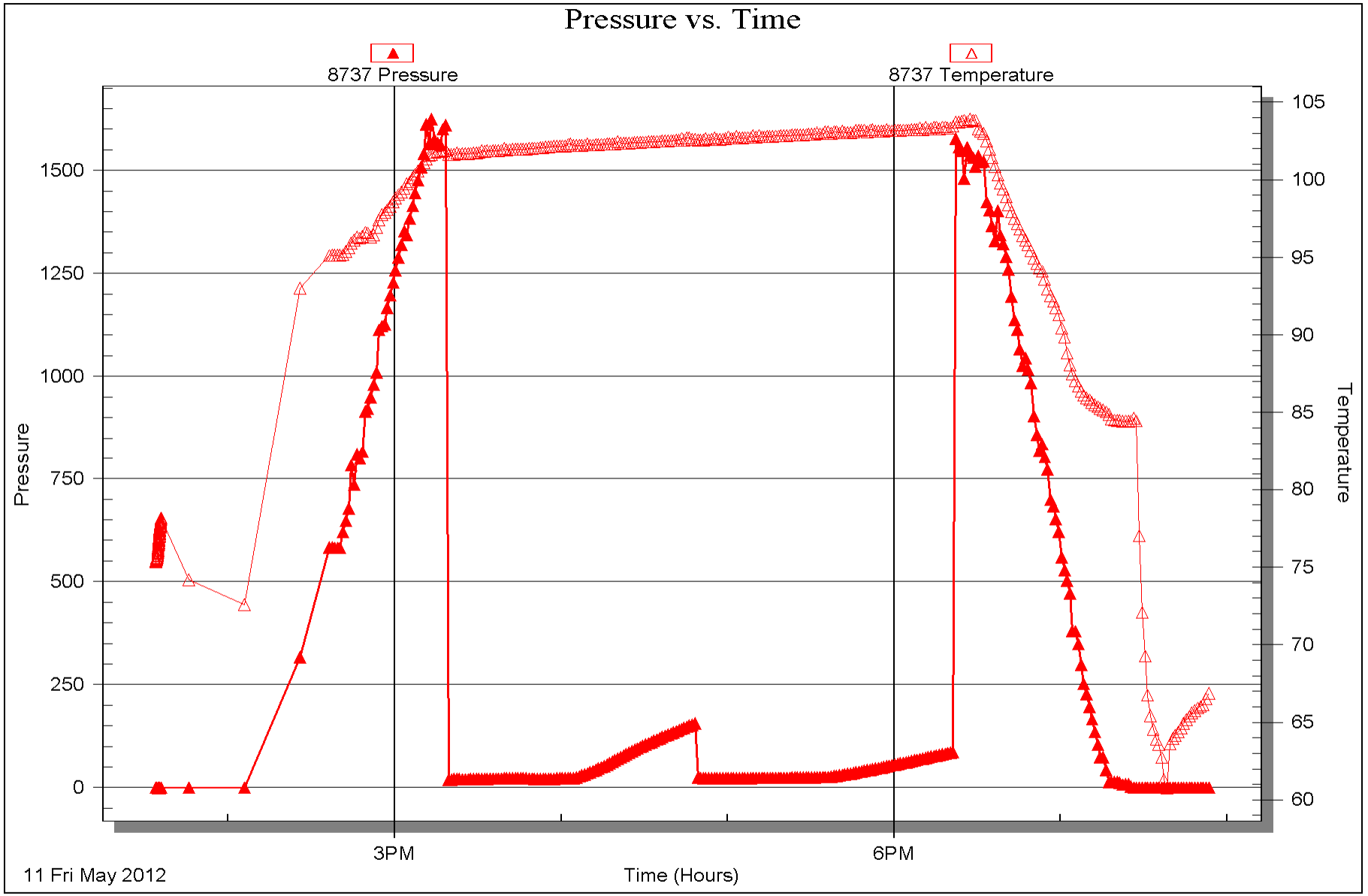
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8321 **Inside** Tengasco Inc KU Endow ment A #3 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 44790 Printed: 2012.05.16 @ 13:19:45

Serial #: 8737 **Outside** Tengasco Inc KU Endow ment A #3 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 44790 Printed: 2012.05.16 @ 13:19:46

DRILL STEM TEST REPORT

Prepared For: **Tengasco Inc**

PO Box 458
Hays KS 67601

ATTN: Rod Tremblay

KU Endowment A #3

30-7s-17w Rooks,KS

Start Date: 2012.05.12 @ 14:10:14
End Date: 2012.05.12 @ 20:20:44
Job Ticket #: 44791 DST #: 4

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

Printed: 2012.05.16 @ 13:13:18

DRILL STEM TEST REPORT

Tengasco Inc

PO Box 458
Hays KS 67601

ATTN: Rod Tremblay

30-7s-17w Rooks,KS

KU Endowment A #3

Job Ticket: 44791 **DST#: 4**

Test Start: 2012.05.12 @ 14:10:14

GENERAL INFORMATION:

Formation: **Abuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:33:14
Time Test Ended: 20:20:44

Test Type: Conventional Straddle (Reset)
Tester: Jeff Brown
Unit No: 44

Interval: 3275.00 ft (KB) To 3316.00 ft (KB) (TVD)
Total Depth: 3369.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

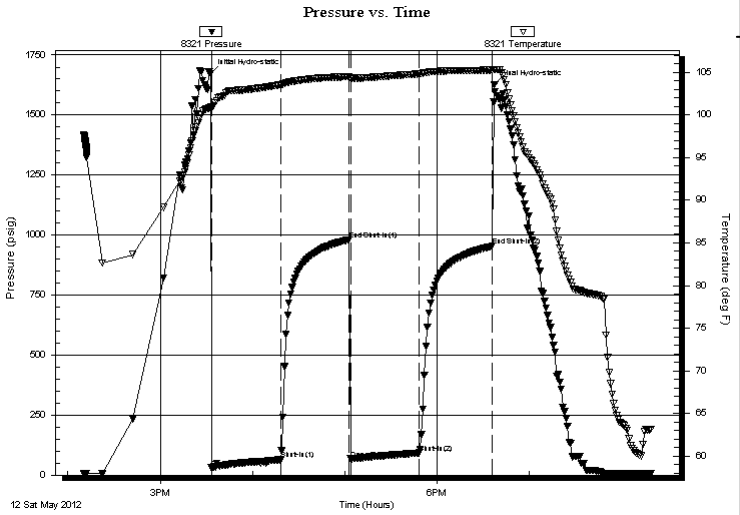
Reference Elevations: 1780.00 ft (KB)
1773.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8321 **Inside**

Press@RunDepth: 92.45 psig @ 3279.00 ft (KB)
Start Date: 2012.05.12 End Date: 2012.05.12
Start Time: 14:10:15 End Time: 20:18:44

Capacity: 8000.00 psig
Last Calib.: 2012.05.12
Time On Btm: 2012.05.12 @ 15:32:44
Time Off Btm: 2012.05.12 @ 18:37:14

TEST COMMENT: IFP-Good blow built to 10 3/4 in
ISI-Dead no blow back
FFP-Fair blow built to 7 1/4 in
FSI-Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1672.93	100.96	Initial Hydro-static
1	29.88	100.74	Open To Flow (1)
46	64.10	103.52	Shut-In(1)
90	981.30	104.46	End Shut-In(1)
91	67.53	104.30	Open To Flow (2)
136	92.45	104.81	Shut-In(2)
183	954.17	105.24	End Shut-In(2)
185	1626.96	105.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
93.00	VSOCM 5%O 95%M	1.30
52.00	OCWM 10%O 10%W 80%M	0.73
10.00	Oil 100%	0.14

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Tengasco Inc

PO Box 458
Hays KS 67601

ATTN: Rod Tremblay

30-7s-17w Rooks,KS

KU Endowment A #3

Job Ticket: 44791 **DST#: 4**

Test Start: 2012.05.12 @ 14:10:14

GENERAL INFORMATION:

Formation: **Abuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:33:14
Time Test Ended: 20:20:44

Test Type: Conventional Straddle (Reset)
Tester: Jeff Brown
Unit No: 44

Interval: 3275.00 ft (KB) To 3316.00 ft (KB) (TVD)
Total Depth: 3369.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

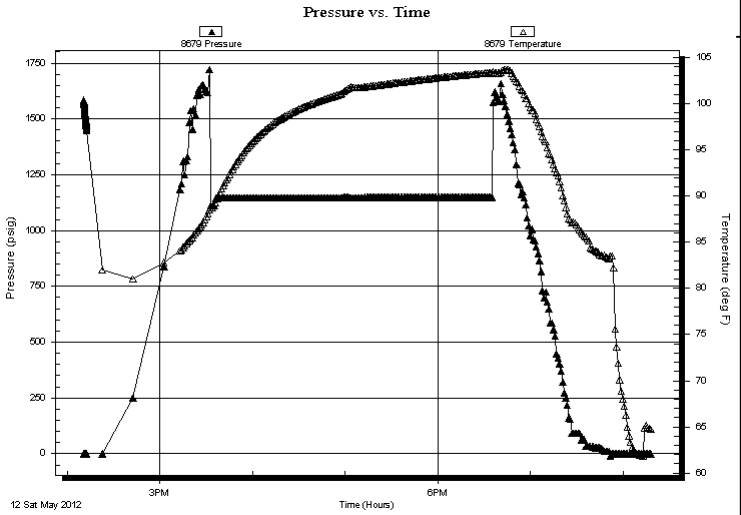
Reference Elevations: 1780.00 ft (KB)
1773.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8679 **Below (Straddle)**

Press@RunDepth: psig @ 3319.00 ft (KB)
Start Date: 2012.05.12 End Date: 2012.05.12
Start Time: 14:10:31 End Time: 20:18:00

Capacity: 8000.00 psig
Last Calib.: 2012.05.12
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-Good blow built to 10 3/4 in
ISI-Dead no blow back
FFP-Fair blow built to 7 1/4 in
FSI-Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
93.00	VSOCM 5%O 95%M	1.30
52.00	OCWM 10%O 10%W 80%M	0.73
10.00	Oil 100%	0.14

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Tengasco Inc

PO Box 458
Hays KS 67601

ATTN: Rod Tremblay

30-7s-17w Rooks,KS

KU Endowment A #3

Job Ticket: 44791 **DST#: 4**

Test Start: 2012.05.12 @ 14:10:14

GENERAL INFORMATION:

Formation: **Abuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:33:14
Time Test Ended: 20:20:44

Test Type: Conventional Straddle (Reset)
Tester: Jeff Brown
Unit No: 44

Interval: 3275.00 ft (KB) To 3316.00 ft (KB) (TVD)
Total Depth: 3369.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

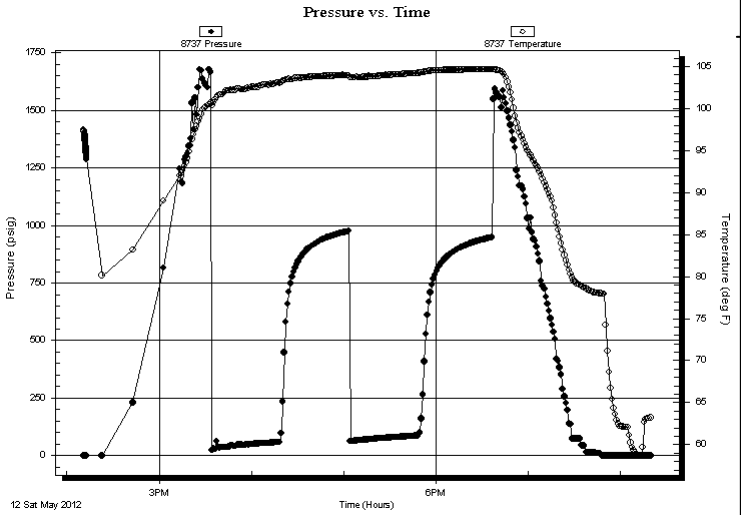
Reference Elevations: 1780.00 ft (KB)
1773.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8737 **Outside**

Press@RunDepth: psig @ 3279.00 ft (KB)
Start Date: 2012.05.12 End Date: 2012.05.12
Start Time: 14:10:54 End Time: 20:19:23

Capacity: 8000.00 psig
Last Calib.: 2012.05.12
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-Good blow built to 10 3/4 in
ISI-Dead no blow back
FFP-Fair blow built to 7 1/4 in
FSI-Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
93.00	VSOCM 5%O 95%M	1.30
52.00	OCWM 10%O 10%W 80%M	0.73
10.00	Oil 100%	0.14

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco Inc

PO Box 458
Hays KS 67601

ATTN: Rod Tremblay

30-7s-17w Rooks,KS

KU Endowment A #3

Job Ticket: 44791 **DST#: 4**

Test Start: 2012.05.12 @ 14:10:14

Tool Information

Drill Pipe:	Length:	3277.00 ft	Diameter:	3.80 inches	Volume:	45.97 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
					Total Volume:	45.97 bbl	

Drill Pipe Above KB:	30.00 ft
Depth to Top Packer:	3275.00 ft
Depth to Bottom Packer:	3316.00 ft
Interval between Packers:	41.00 ft
Tool Length:	122.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2400.00 lb
Weight set on Packer:	24000.00 lb
Weight to Pull Loose:	60000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	54000.00 lb
Final	55000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3248.00		
Shut In Tool	5.00			3253.00		
Hydraulic tool	5.00			3258.00		
Jars	5.00			3263.00		
Safety Joint	3.00			3266.00		
Packer	4.00			3270.00	28.00	Bottom Of Top Packer
Packer	5.00			3275.00		
Stubb	1.00			3276.00		
Perforations	2.00			3278.00		
Change Over Sub	1.00			3279.00		
Recorder	0.00	8321	Inside	3279.00		
Recorder	0.00	8737	Outside	3279.00		
Drill Pipe	30.00			3309.00		
Change Over Sub	1.00			3310.00		
Perforations	2.00			3312.00		
Blank Off Sub	1.00			3313.00		
Stubb	3.00			3316.00	41.00	Tool Interval
Packer	1.00			3317.00		
Stubb	1.00			3318.00		
Change Over Sub	1.00			3319.00		
Recorder	0.00	8679	Below	3319.00		
Drill Pipe	31.00			3350.00		
Change Over Sub	1.00			3351.00		
Perforations	15.00			3366.00		
Bullnose	3.00			3369.00	53.00	Bottom Packers & Anchor
Total Tool Length:	**122.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco Inc

PO Box 458
Hays KS 67601

ATTN: Rod Tremblay

30-7s-17w Rooks,KS

KU Endowment A #3

Job Ticket: 44791 **DST#: 4**

Test Start: 2012.05.12 @ 14:10:14

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	21 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.19 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2400.00 ppm				
Filter Cake:	inches				

Recovery Information

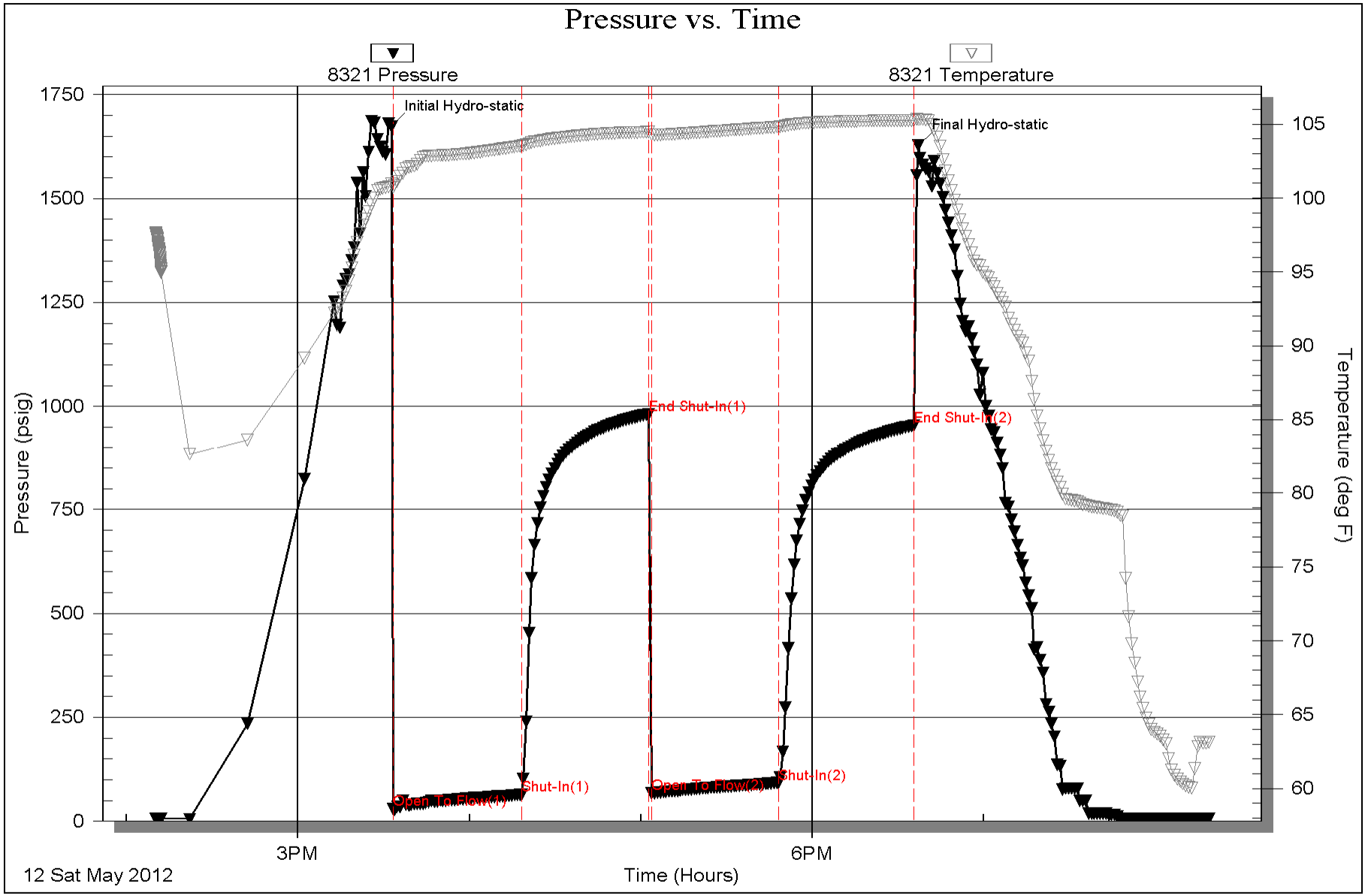
Recovery Table

Length ft	Description	Volume bbl
93.00	VSOCM 5%O 95%M	1.305
52.00	OCWM 10%O 10%W 80%M	0.729
10.00	Oil 100%	0.140

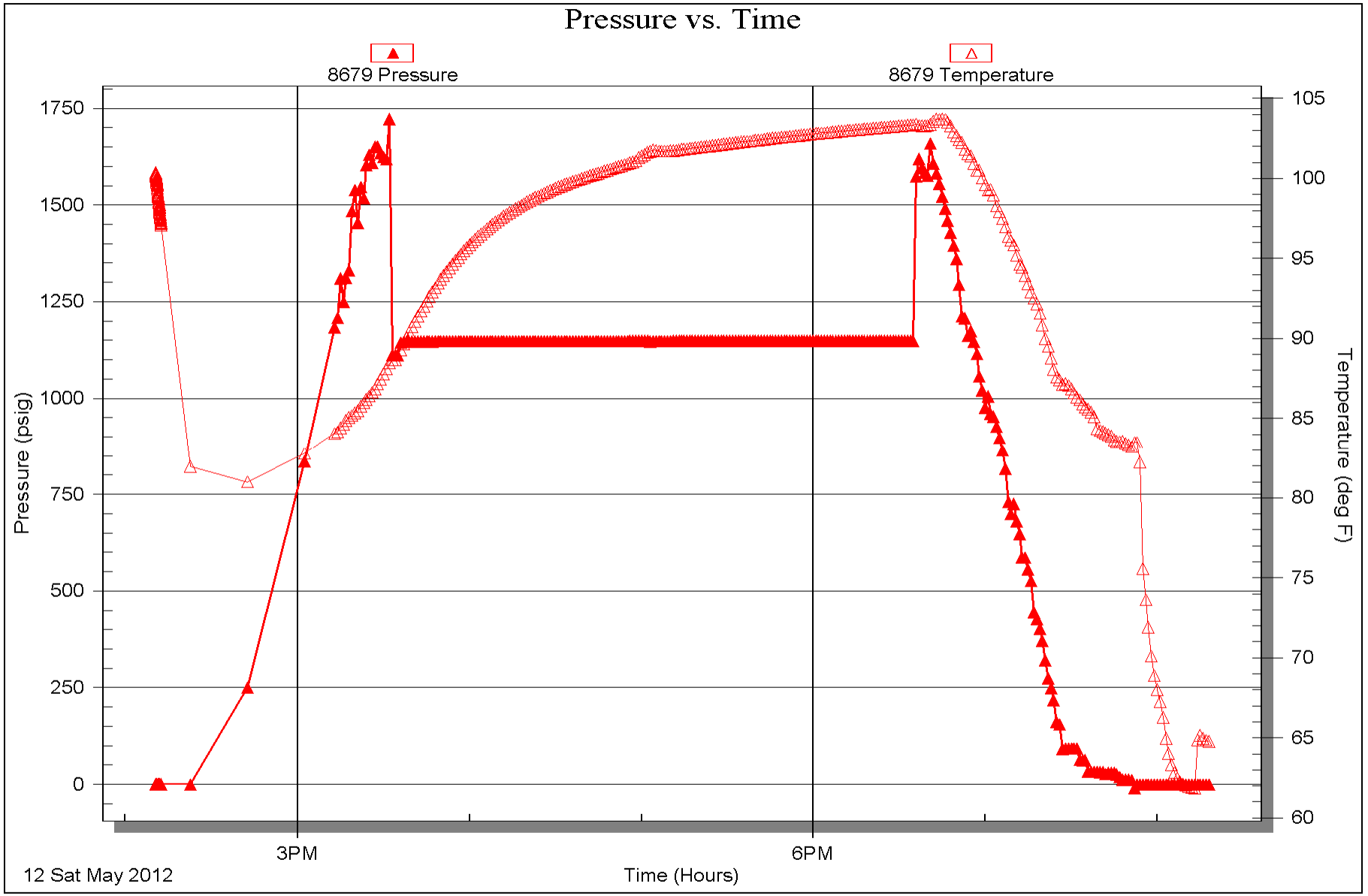
Total Length: 155.00 ft Total Volume: 2.174 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

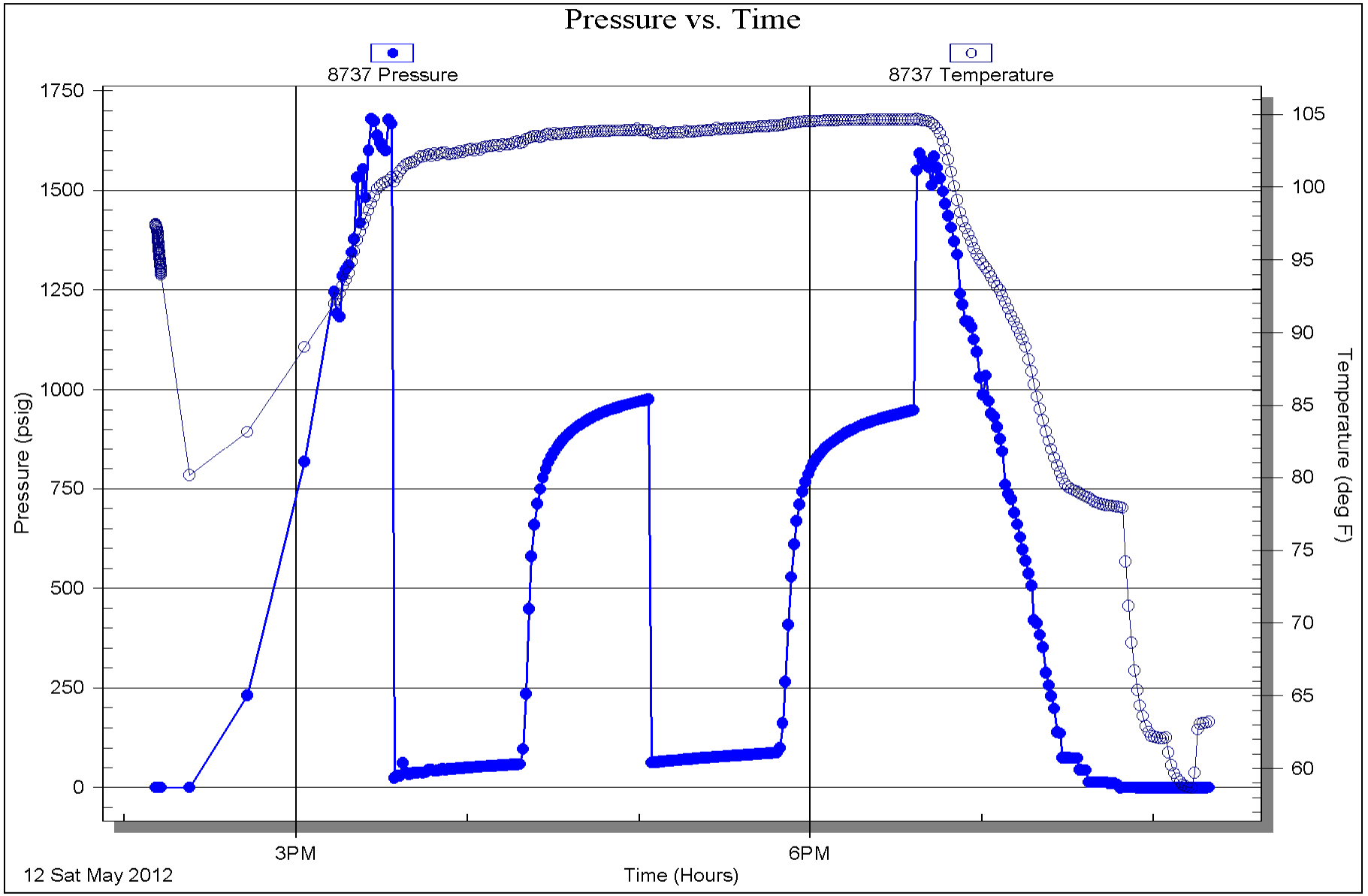
Serial #: 8321 **Inside** Tengasco Inc KU Endow ment A #3 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 44791 Printed: 2012.05.16 @ 13:13:20


Pressure vs. Time
8679 Pressure
8679 Temperature
1750
1500
1250
1000
750
500
250
0
Pressure (psig)
105
100
95
90
85
80
75
70
65
60
Temperature (deg F)
3PM
6PM
12 Sat May 2012
Time (Hours)

Serial #: 8737 **Outside** Tengasco Inc KU Endow ment A #3 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 44791 Printed: 2012.05.16 @ 13:13:21

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

4/10

Test Ticket

NO. 44788

Well Name & No. K4 ENDOWMENT A #3 Test No. 1 Date 5-9-12

Company Tengasco INC Elevation 1790 KB 1783 GL

Address 1327 NOOSE RD PO BOX 458 Hays KS 67601

Co. Rep / Geo. Mike Bair Rig American Eagle #2

Location: Sec. 30 Twp. 7 S Rge. 17 W Co. Rooks State KS

Interval Tested 2730-2747 Zone Tested TOPEKA

Anchor Length 17 Drill Pipe Run 2714 Mud Wt. 9.3

Top Packer Depth 2725 Drill Collars Run 0 Vis 29

Bottom Packer Depth 2730 Wt. Pipe Run 0 WL

Total Depth 2747 Chlorides 63000 ppm System LCM

Blow Description IFP- Weak Blow Built TO 3 IN
ISI- Dead No Blow Back
FFP- Weak Blow Built TO 1 IN
FSI- Dead No Blow Back

Rec 60	Feet of MW	%gas	%oil	80 %water	20 %mud	
Rec 60	Feet of WM	%gas	%oil	40 %water	60 %mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	

Rec Total 12 BHT 98 Gravity API RW .304 @ 45.1 °F Chlorides 37,000 ppm

(A) Initial Hydrostatic 1329	☒ Test 1150	T-On Location 1:23	
(B) First Initial Flow 32	☒ Jars 250	T-Started 1:53	
(C) First Final Flow 36	☒ Safety Joint 75	T-Open 3:11	
(D) Initial Shut-In 480	☐ Circ Sub	T-Pulled 6:11	
(E) Second Initial Flow 37	☐ Hourly Standby	T-Out 7:47	
(F) Second Final Flow 45	☒ Mileage 84 130.20 RT	Comments	
(G) Final Shut-In 473	☐ Sampler		
(H) Final Hydrostatic 1305	☐ Straddle	☐ Ruined Shale Packer	
	☐ Shale Packer	☐ Ruined Packer	
Initial Open 45	☐ Extra Packer	☐ Extra Copies	
Initial Shut-In 45	☐ Extra Recorder	Sub Total 0	
Final Flow 45	☐ Day Standby	Total 1605.20	
Final Shut-In 45	☐ Accessibility	MP/DST Disc't	
	Sub Total 1605.20		

Approved By Our Representative Jeff Brown

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

4/10

Test Ticket

NO. 44789

Well Name & No. KL Endowment A #3 Test No. 2 Date 5-10-12

Company Tengas CO INC Elevation 1790 KB 1783 GL

Address PO Box 458 Hays KS 67601

Co. Rep / Geo. Mike Bair Rig American Eagle #2

Location: Sec. 30 Twp. 7S Rge. 17W Co. Rooks State KS

Interval Tested 3039 - 3060 Zone Tested Lansing - G

Anchor Length 21 Drill Pipe Run 3028 Mud Wt. 8.9

Top Packer Depth 3034 Drill Collars Run 0 Vis 56

Bottom Packer Depth 3039 Wt. Pipe Run 0 WL 6.4

Total Depth 3060 Chlorides 1300 ppm System LCM 1

Blow Description IFP- Weak Blow Built To 2 IN
ISI- Dead No Blow Back
FFP- Weak Blow Built To 2½ IN
FSI- Dead No Blow Back

Rec 30	Feet of VSOCM	%gas	3 %oil	%water	97 %mud
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

Rec Total 30 BHT 101 Gravity ____ API RW ____ @ ____ °F Chlorides ____ ppm

(A) Initial Hydrostatic	1497	☒ Test 1150	T-On Location 7:43
(B) First Initial Flow	21	☒ Jars 250	T-Started 8:39
(C) First Final Flow	26	☒ Safety Joint 75	T-Open 10:10
(D) Initial Shut-In	105	☐ Circ Sub	T-Pulled 13:40
(E) Second Initial Flow	22	☐ Hourly Standby	T-Out 15:00
(F) Second Final Flow	30	☒ Mileage 130.20	Comments
(G) Final Shut-In	99	☐ Sampler	
(H) Final Hydrostatic	1468	☐ Straddle	☐ Ruined Shale Packer
		☐ Shale Packer	☐ Ruined Packer
Initial Open	45	☐ Extra Packer	☐ Extra Copies
Initial Shut-In	45	☐ Extra Recorder	Sub Total 0
Final Flow	60	☐ Day Standby	Total 1605.20
Final Shut-In	60	☐ Accessibility	MP/DST Disc't
		Sub Total 1605.20	

Approved By ____ Our Representative Jeff Brown

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

4/10

Test Ticket

NO. 44790

Well Name & No. K4 ENDOWMENT A #3 Test No. 3 Date 5-11-12

Company Tengas CO INC Elevation 1790 KB 1783 GL

Address Po Box 458 Hays Ks 67601

Co. Rep / Geo. Mike Bair Rig American Eagle #2

Location: Sec. 30 Twp. 7S Rge. 17W Co. Rooks State KS

Interval Tested 3242 - 3280 Zone Tested ARBuckle

Anchor Length 38 Drill Pipe Run 3246 Mud Wt. 9.4

Top Packer Depth 3237 Drill Collars Run 0 Vis 54

Bottom Packer Depth 3242 Wt. Pipe Run 0 WL 7.2

Total Depth 3280 Chlorides 2400 ppm System LCM 3

Blow Description IFP- Weak Blow Built To 1 3/4 IN

ISI- Dead No Blow Back

FFP- Weak Blow Built To 1/4

FSI- Dead No Blow

Rec 10	Feet of OCM	%gas	10 %oil	%water	90 %mud		
Rec 5	Feet of Oil	%gas	100 %oil	%water	%mud		
Rec	Feet of	%gas	%oil	%water	%mud		
Rec	Feet of	%gas	%oil	%water	%mud		
Rec	Feet of	%gas	%oil	%water	%mud		

Rec Total 15 BHT 104 Gravity 26 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1603	☒ Test 1150	T-On Location 13:15
(B) First Initial Flow 24	☒ Jars 250	T-Started 13:33
(C) First Final Flow 29	☒ Safety Joint 75	T-Open 15:20
(D) Initial Shut-In 1602	☐ Circ Sub	T-Pulled 18:20
(E) Second Initial Flow 29	☐ Hourly Standby	T-Out 19:54
(F) Second Final Flow 30	☒ Mileage 130.20	Comments
(G) Final Shut-In 91	☐ Sampler	
(H) Final Hydrostatic 1582	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 45	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 45	☐ Extra Recorder	Sub Total 0
Final Flow 45	☐ Day Standby	Total 1605.20
Final Shut-In 45	☐ Accessibility	MP/DST Disc't
	Sub Total 1605.20	

Approved By Our Representative Jeff Brown

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

4/10

Test Ticket

NO. 44791

Well Name & No. KG ENDOWMENT A #3 Test No. 4 Date 5-12-12

Company Tengas CO INC Elevation 1790 KB 1783 GL

Address PO BOX 458 Hays KS 67601

Co. Rep / Geo. Mike Bair Rig American Eagle #2

Location: Sec. 30 Twp. 7S Rge. 17W Co. Rooks State KS

Interval Tested 3275-3316 Zone Tested ARBuckle

Anchor Length 41-Anchor 53-Tail Drill Pipe Run 3277 Mud Wt. 9.3

Top Packer Depth 3270 Drill Collars Run 0 Vis 55

Bottom Packer Depth 3275 Wt. Pipe Run 0 WL 7.2

Total Depth 3369 Chlorides 2400 ppm System LCM 3

Blow Description IF: GOOD BLOW BUILT TO 10 3/4 IN

ISI: Dead No Blow Back

FF: Fair Blow Built To 7 1/4

FSI: Dead No Blow Back

Rec 93	Feet of SOCM	%gas	5 %oil	%water	95 %mud	
Rec 52	Feet of OCWM	%gas	10 %oil	10 %water	80 %mud	
Rec 10	Feet of Oil	%gas	100 %oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	

Rec Total 155 BHT 105 Gravity 21 API RW .261 @ 64.3 °F Chlorides 28,000 ppm

(A) Initial Hydrostatic	1673	☒ Test	1150	T-On Location	11:53
(B) First Initial Flow	30	☒ Jars	250	T-Started	14:10
(C) First Final Flow	64	☒ Safety Joint	75	T-Open	15:35
(D) Initial Shut-In	981	☐ Circ Sub		T-Pulled	18:35
(E) Second Initial Flow	68	☐ Hourly Standby		T-Out	20:20
(F) Second Final Flow	92	☒ Mileage	130.20	Comments	
(G) Final Shut-In	954	☐ Sampler			
(H) Final Hydrostatic	1627	☒ Straddle	600	☐ Ruined Shale Packer	
		☐ Shale Packer		☐ Ruined Packer	
Initial Open	45	☐ Extra Packer		☐ Extra Copies	
Initial Shut-In	45	☐ Extra Recorder		Sub Total	0
Final Flow	45	☐ Day Standby		Total	2205.20
Final Shut-In	45	☐ Accessibility		MP/DST Disc't	
		Sub Total	2205.20		

Approved By Our Representative Jeff Brown