



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1215917
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1215917

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	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 type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Tengasco, Inc.
Well Name	Amrein 3
Doc ID	1215917

Tops

Name	Top	Datum
Anhydrite	1452	+553
Topeka	2960	-955
Heebner	3167	-1162
Toronto	3190	-1185
Lansing	3208	-1203
BKC	3422	-1417
Arbuckle	3448	-1443
TD	3514	-1509

MUD LOG
WellSight Systems
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: AMREIN #3
Location: NE SW SE SW
License Number: 34110
Spud Date: 7/08/2014
Surface Coordinates: 455' FSL 1975' FEL

Region: Rooks County, KS
Drilling Completed: 7/13/2014

Bottom Hole
Coordinates:
Ground Elevation (ft): 1998' K.B. Elevation (ft): 2005'
Logged Interval (ft): 2700' To: 3512' Total Depth (ft): RTD 3514'
Formation: Arbuckle
Type of Drilling Fluid: Chemical

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

OPERATOR

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

GEOLOGIST

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

FORMATION TOPS

FORMATION	LOG TOP	SAMPLE TOP
Anhydrite	(+)	1456 (+549)
Topeka	2960 (-955)	2963 (-958)
Heebner	3167 (-1162)	3168 (-1163)
Toronto	3190 (-1185)	3193 (-1188)
Lansing	3208 (-1203)	3210 (-1205)
BKC	3422 (-1417)	3423 (-1418)
Arbuckle	3448 (-1443)	3448 (-1443)
TD	3514 (-1509)	3514 (-1509)

DSTs

DST#1 3452 - 3470 30-30-30-30
IFP: Wk surf blow died in 4 min: ISIP: No Blow
FFP: No Blow: FSIP: No Blow
FP: (13-17)(18-18) SIP: 610-107
REC: 5' drilling mud

Comments

Amrien #3 was plugged and abandoned at an RTD of 3514'.

ROCK TYPES

- Anhy
- Bent
- Brec
- Cht

- Clyst
- Coal
- Congl
- Dol

- Gyp
- Igne
- Lmst
- Meta

- Mrlst
- Salt
- Shale
- Shcol

- Shgy
- Sltst
- Ss
- Till

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau

- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite

- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst

- Sltstrg
- Ssstrg

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint

- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

- Spotted
- Ques
- Dead

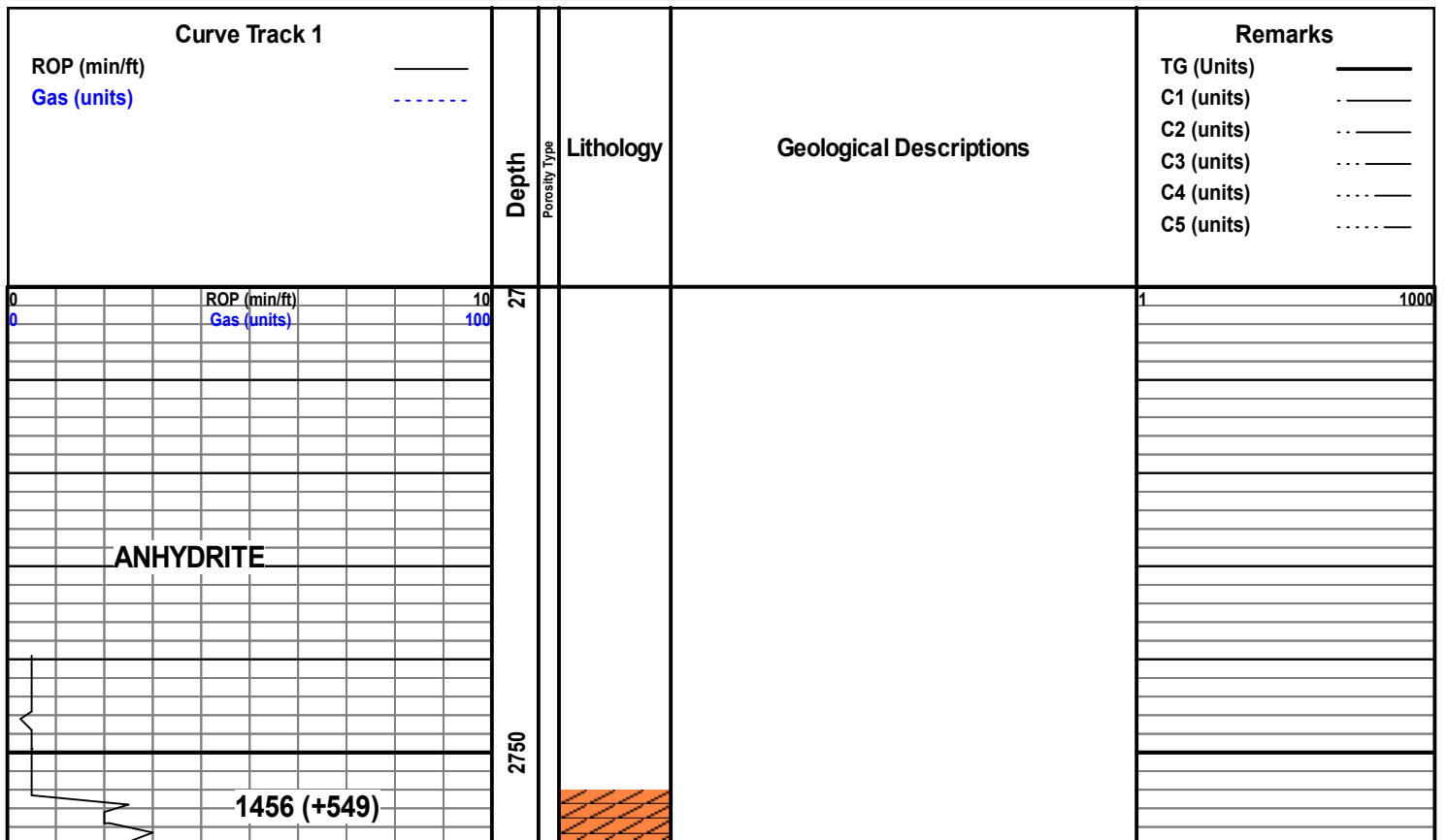
INTERVAL

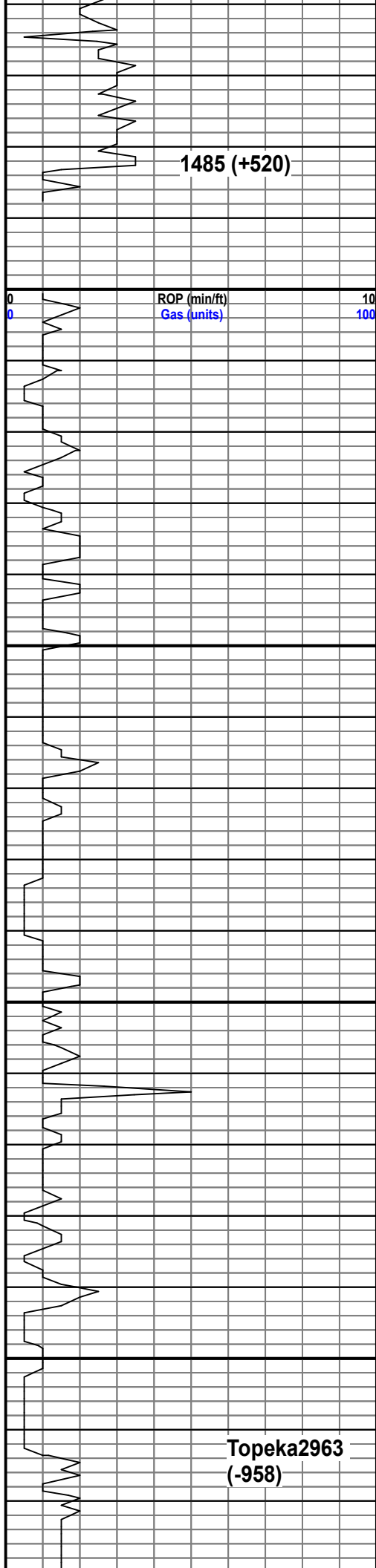
- Core
- Dst

EVENT

- Rft
- Sidewall

- OIL SHOW Even





2800

2850

2900

2950

1485 (+520)

ROP (min/ft)

Gas (units)

10

100

Topeka2963
(-958)



Slst, gry, argil, micro mica; Sh, gry, Ls, gry-brn,
pr vis por, ns, n/o

Ls, crm, foss frags to sl gran, ns, n/o, cky in pt

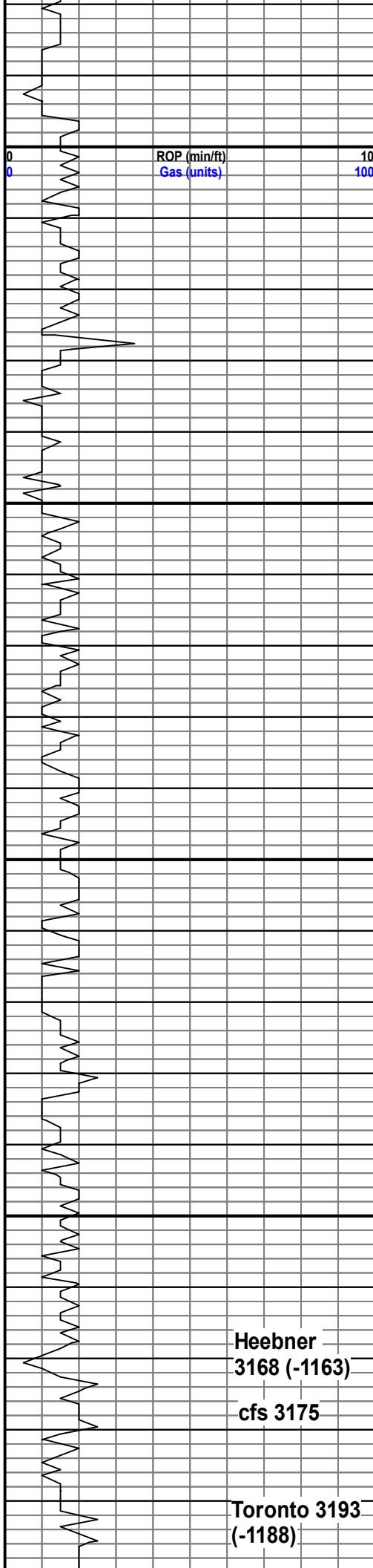
Ls, crm-gry, fxl to ool, sct'd micro pyrite; Sh, gry,
ns, n/o

Sh, gry-blk; Ls, crm-tan, sct'd foss, ns, n/o

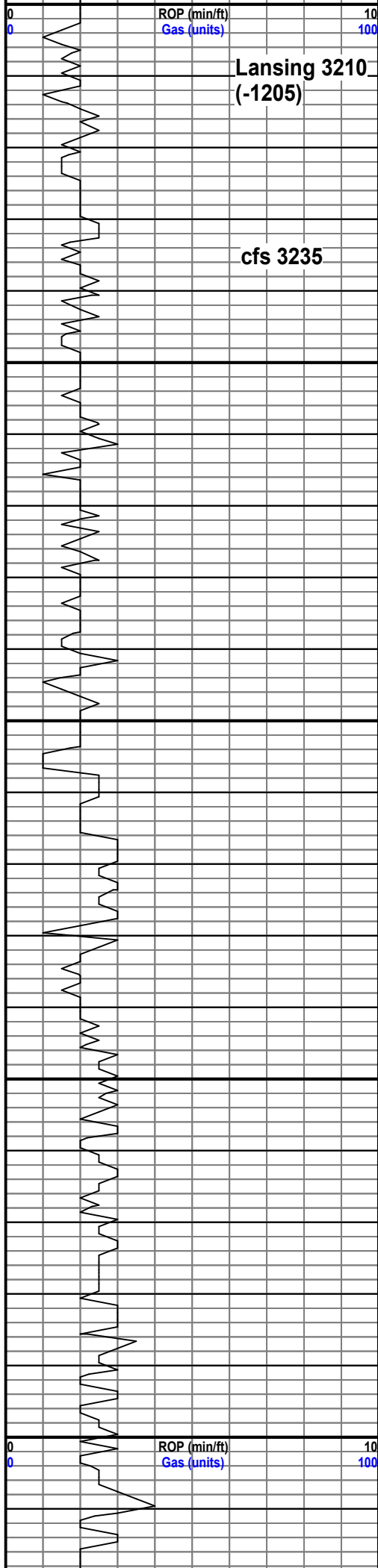
1

1000

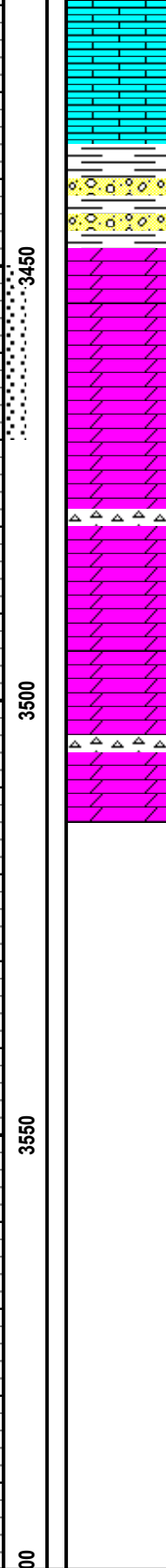
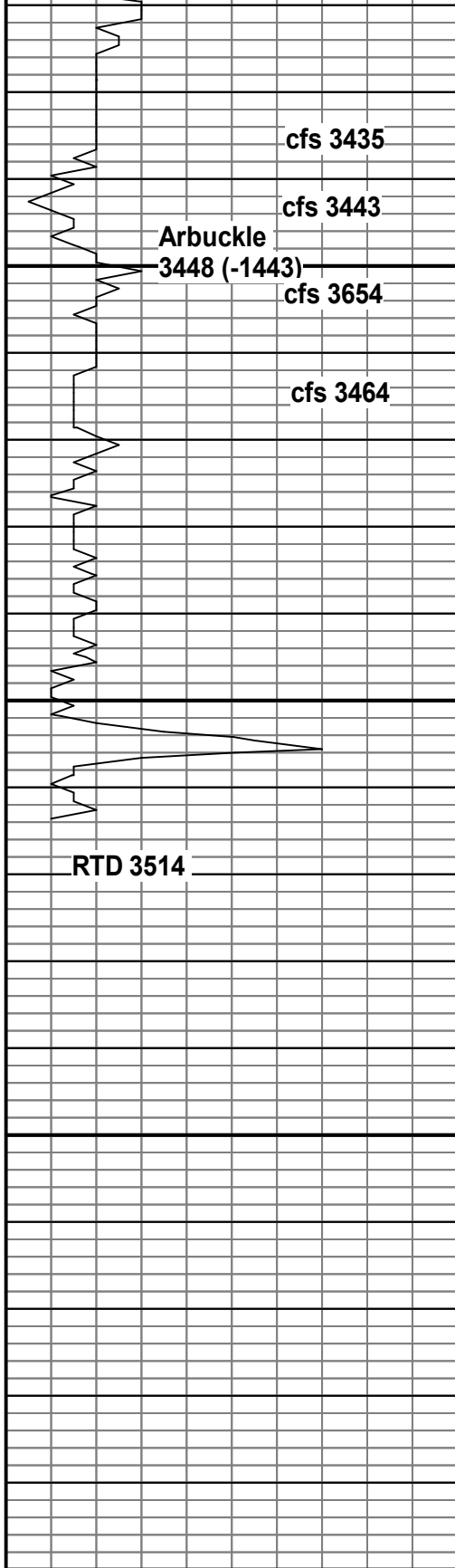
Bit trip 2718
Strap .91 Short
Dev 3/4 degree



	a/a to Ls, gry, sl gran, sl ixl por, foss frags, ns, n/o	
	Ls, gry, sl gran, foss, foss frags, ns, n/o	
3000	Ls, crm, mdstn to wkstn, some cal rexln, ns, n/o	
	a/a some cky	
	Ls, crm-tan, gran, poss sl ixl por, ns, n/o	
3050	Sh, blk: Ls, crm-gry, fxl to pkstn, ns, n/o	
	Ls, crm, sl gran, foss frags, sl cky, ns, n/o	
	Ls, crm-tan, a/a; Sh, gry, ns, n/o 3100 sample	
	Ls, crm, gran, sl cky, poss v sl por; few pcs Sh, blk, ns, n/o	MudCo CK 3087 Vis 48 Wt 8.9 WL 8.0 Chlr 1100 LCM 3#
	Ls, gry, motl'd foss frags, nvp, ns, n/o	
3100	Ls, crm, fxl-foss to ool, pr-v sl ixl por, ns, n/o	
	Ls, crm-tan, fxl, foss to Ls, gry ixbed shly, ns, n/o	
	Ls, ch, cky; Chert, bone wh-crm, few w foss frags, ns, n/o 3150 sample	Vis 49 Wt 8.9 LCM 3#
	Ls, crm-gry, fxl, motl'd, ns, n/o	
3150	Ls, crm, fxl-f gran, pr-sl ixl por; Chert, tan, few w foss frags, ns, n/o	
	SH, BLK; platy, sl carb	
	Ls, crm, sl gran, some cal rexln, foss frags, ns, n/o	3175 40 min
	Sct'd slst, gry-lt grn, argil, micro mica; Sh, gry, sct'd Ls, a/a; ns, n/o 3200 sample	
	Sh, red, soft to Sh, lt grn; v f gr SS, qtz, argil, some glauc to slst, a/a, ns, n/o	
3193	Ls, wh, fxl, r pc Ls, brn, ool, nvp, ns, n/o	
00		



3200	Ls, a/a, cky	1	1000
3205	Ls, wh, crm, fxl, few ool, nvp; Chert, tan,;Ls, of wh, nvp, ns, n/o		
3210	Chert, tan, crm; Ls, wh, fxl, some cky, ns, n/o		
3215	Ls, wh, fxl, some sl cky; Chert, wh,ns, n/o		
3220	Sh, gry, Ls, a/a		
3225	Ls, crm-gry, fxl to sl gran, ns, n/o		
3230	Ls, wh, v sl gran, sl cky, spt'd hvy blk asphaltic stn, NSFO, n/o		
3235	Ls, wh, fxl, few pcs w asphaltic stn as above		
3240	Ls, wh, fxl to sl gran, couple pc sl cky w spt'd blk stn, v sl sfo wh bxn, n/o		
3245	Ls, wh, fxl, cal rexl, spt'd stn, v sl sfo, pr-sl por, to Ls, wh, sat'd stn, v sl sfo wh bxn, low rep, n/o 3300		
3250	Ls, wh-crm, fxl, spt'd stn to v sl sfo wh bxn, low rep, pr vis por, n/o		
3255	Ls, flseh, nvp, cal rexln, v sl sfo wh bx, v low rep, n/o		
3260	Ls, wh-tan, fxl to foss, pr vis por; Chert, crm, ns, n/o		
3265	Ls, a/a; Sh, gry		
3270	Sh, blk; r pc Ls, wh, f gran, sl ixl por,sat'd stn, sl sfo wh bxn, sl od wh bxn, n/o		
3275	Ls, wh, fxl to Chert, wh; ns, n/o		
3280	Ls, of wh-lt gry, sl gran; Chert, op-wh, ns, n/o		
3285	Ls, crm, f gran, fr ixl por, sat'd stn, L-fr sfo (v low rep); Ls, wh, fxl, spt'd surf stn, v sl sfo, few w oil stn on frac plane;Chert, wh, by w xls and oil stn in vg; lt odor 3380		
3290	Ls, wh, fxl-foss, pr-sl ixl por, spt'd surf stn to r pc w lt sat'd stn, v sl sfo wh bxn, v wk odor		
3295	Abnd't Sh, blk-gry; few Ls, fxl, spt'd stn, sl sfo, n/o 3400		
3300	Sh, blk, gry, grn,; Ls, wh-crm, few w spt'd surf stn, pr vis por, n/o		
3305	Ls, wh, ool, pr-sl ool por, r pc L-fr ixl por, v sl sfo wh bxn, some cky; Chert, wh, n/o		
3310	Sh, blk, Ls, a/a r pc Lc, crm, sl gran, sl sfo, n/o 3430		



Abnd't sh, v.c.; Ls, wh, fxl to Ls, wh, f gran, sl por, v sl sfo, some cky, low rep, n/o

Sh, soft, red; Ls, crm-tan, fxl to sl gran, spt'd stn, few sl sfo, few pc SS, qtz, f grn, fri; Chert, wh, pyrite; n/o

Dolo, crm, suc-fmxi, pr to sl vis por, few w asphaltic stn, r pc w v sl sfo, few w qtz xls, low rep, n/o 6454 40 min

Dolo, crm, f-fmxi, few salmon, sl to fr ixl por in few rx, v sl sfo to asphaltic stn, n/o

Abnd't sh, v.c.; Dolo, fxl, some chert w trip por w oil stn and v sl sfo, to pr to sl ixl por, r sm vy, spt'd oil stn, few v fgrn, poss fr por, spt'd sat'd stn, lt sfo wh bxn, n/o 3464

Dolo, crm-tan, f-fmxi, some dse w spt'y sm vg por and oil stn, few pc v fgrn, spt'd sat'd stn, sl sfo wh bxn, n/o 3464 60 min

Dolo, crm, fmxi, spt'd stn, sl to r pc Dolo, wh, mxl, L-fr sfo, low rep to Dolo, tan, suc-fxl most pr vis por, few w sm vgs and oil stn, spt'd surf stn, few pc fgrn Dolo, sat'd stn, sl sfo wh bxn; Chert, op-tan

Dolo a/a, 1 pc Dolo, yell cast, dse, L-fr sfo wh bxn, sl ixl por, n/o

Dolo, tan to yell cast, dse to fmxi, sl ix por to r cp w fr ixl por, few w sl sfo to r lt sfo, some sct'd sm vg, incr barren, n/o 3490

Dolo, tan, f-fmxi, mst tite, sct'd tarry stn, mst barren, n/o

a/a; Sh, mrn, grn, chert, op-wh, n/o

Short Trip 3435

Vis 56
Wt 9.0
LCM 2#

3464 sample, _____
better por and oil _____
show _____

MudCo Ck 3480
Vis 54
Wt 9.0
WL 8.0
Chlr 1700
LCM 3#

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 560

Date	7-14-14	Sec.	34	Twp.	8	Range	19	County	ROOK'S	State	KANSAS	On Location		Finish	11:30 AM
Location								ZURICH KS. 5N 1/2E 1/4N INTD							

Lease	AMREIN	Well No.	# 3	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	American Eagle Rig #3 (DERBY)				
Type Job	Rotary Plug				
Hole Size	7 7/8	T.D.	3514	Charge To	TEN GASCO INC.
Csg.	8 5/8 SURFACE	Depth	347'	Street	

Tbg. Size	4 1/2 X-H	Depth	@ 3428	City	State
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered	290 SX @ 40 4% GEL
Meas Line		Displace			1/4# FO-SEAL

EQUIPMENT			Common
Pumptrk	18	No. Cementer	174
		Helper	
Bulktrk	1	No. Driver	116
		Driver	
Bulktrk		No. Driver	10
		Driver	
		Driver	Calcium

JOB SERVICES & REMARKS		Hulls
Remarks:		Salt
Rat Hole		Flowseal 72#
Mouse Hole		Kol-Seal
Centralizers		Mud CLR 48
Baskets		CFL-117 or CD110 CAF 38
D/V or Port Collar		Sand
		Handling 300
		Mileage

FLOAT EQUIPMENT	
50 SX @ 3428	Guide Shoe
50 SX @ 1470	Centralizer
100 SX @ 825	Baskets
50 SX @ 400	AFU Inserts
10 SX @ 40 & Wiper Plug	Float Shoe
30 SX @ Rat Hole	Latch Down
	WOODEN WIPER PLUG
	Pumptrk Charge plug
	Mileage 36

X Signature	<i>[Signature]</i>	Tax	
		Discount	
		Total Charge	

THANK'S

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
 Fax 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 511

Date	Sec.	Twp.	Range	County	State	On Location	Finish
7-9-14	34	8	19	Rooks	KS		10:00 AM

Location Zurich 5 N to SRd 1/4 E N10

Lease	Amrein	Well No.	3	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	American Eagle #			Charge To	Tengasco Inc
Type Job	Surface			Street	
Hole Size	12 1/4	T.D.	349'	City	State
Csg.	8 5/8	Depth	349'	The above was done to satisfaction and supervision of owner agent or contractor.	
Tbg. Size		Depth		Cement Amount Ordered	205 com 3% cc 2% cc
Tool		Depth			
Cement Left in Csg.	20'	Shoe Joint			
Meas Line		Displace	21 bbl		

EQUIPMENT

Pumptrk	18	No.	Cementer		Common	205
			Helper	David	Poz. Mix	
Bulktrk	21	No.	Driver	Lonnie M	Gel.	4/7
Bulktrk	Pu	No.	Driver	Brett	Calcium	

JOB SERVICES & REMARKS

Remarks:	Salt
Rat Hole	Flowseal
Mouse Hole	Kol-Seal
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38
D/V or Port Collar	Sand
	Handling 216
	Mileage

FLOAT EQUIPMENT

Cement	Guide Shoe
	Centralizer
	Baskets
Circulated!!	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge Surface
	Mileage 36

X Signature Keith Karles	Tax
	Discount
	Total Charge



DRILL STEM TEST REPORT

Prepared For: **Tengasco INC**

PO Box 458
Hays KS 67601

ATTN: Mike Bair

Amrein #3

34-8s-19w Rooks,KS

Start Date: 2014.07.13 @ 20:52:05

End Date: 2014.07.14 @ 03:25:35

Job Ticket #: 58913 DST #: 1

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

Printed: 2014.07.16 @ 08:30:48



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Tengasco INC

34-8s-19w Rooks,KS

PO Box 458
Hays KS 67601

Amrein #3

Job Ticket: 58913

DST#: 1

ATTN: Mike Bair

Test Start: 2014.07.13 @ 20:52:05

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:00:15

Time Test Ended: 03:25:35

Test Type: Conventional Straddle (Initial)

Tester: Tate Lang

Unit No: 77

Interval: 3452.00 ft (KB) To 3470.00 ft (KB) (TVD)

Reference Elevations: 2005.00 ft (KB)

Total Depth: 3514.00 ft (KB) (TVD)

1998.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8898

Outside

Press@RunDepth: 18.39 psig @ 3453.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.13

End Date:

2014.07.14

Last Calib.:

2014.07.14

Start Time: 20:52:06

End Time:

03:25:35

Time On Btm:

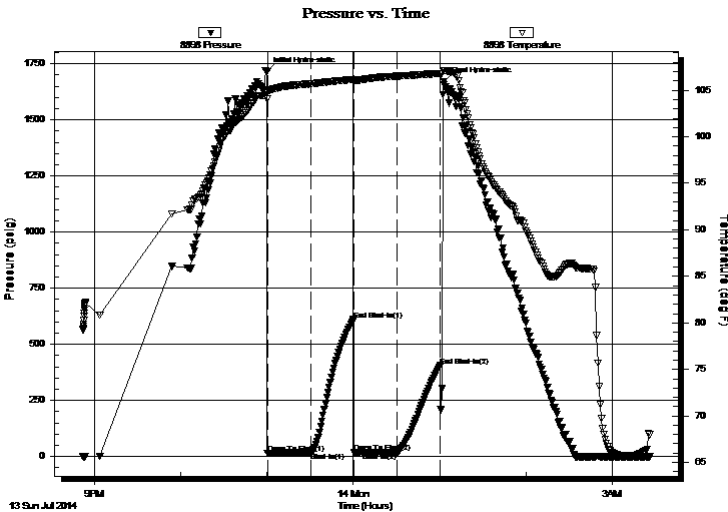
2014.07.13 @ 23:00:05

Time Off Btm:

2014.07.14 @ 01:02:45

TEST COMMENT: Weak surface blow died in 4 mins
Dead no blow back
Dead no blow
Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1713.67	104.96	Initial Hydro-static
1	13.04	104.03	Open To Flow (1)
31	17.03	105.70	Shut-In(1)
60	610.33	106.16	End Shut-In(1)
61	18.22	105.86	Open To Flow (2)
91	18.39	106.51	Shut-In(2)
121	404.98	106.80	End Shut-In(2)
123	1670.27	107.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M	0.02

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Tengasco INC

34-8s-19w Rooks,KS

PO Box 458
Hays KS 67601

Amrein #3

Job Ticket: 58913 **DST#: 1**

ATTN: Mike Bair

Test Start: 2014.07.13 @ 20:52:05

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Straddle (Initial)

Time Tool Opened: 23:00:15

Tester: Tate Lang

Time Test Ended: 03:25:35

Unit No: 77

Interval: 3452.00 ft (KB) To 3470.00 ft (KB) (TVD)

Reference Elevations: 2005.00 ft (KB)

Total Depth: 3514.00 ft (KB) (TVD)

1998.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8897 Inside

Press@RunDepth: psig @ 3453.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.13

End Date:

2014.07.14

Last Calib.: 2014.07.14

Start Time: 20:52:33

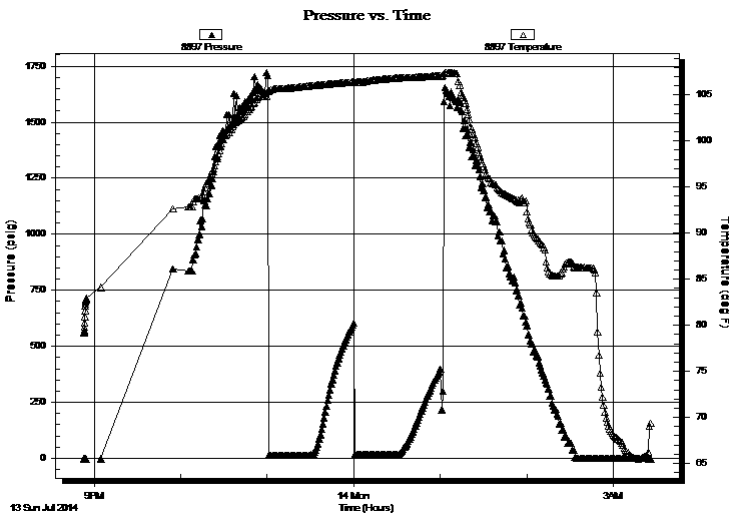
End Time:

03:26:02

Time On Btm:

Time Off Btm:

TEST COMMENT: Weak surface blow died in 4 mins
Dead no blow back
Dead no blow
Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Tengasco INC
PO Box 458
Hays KS 67601
ATTN: Mike Bair

34-8s-19w Rooks, KS

Amrein #3

Job Ticket: 58913

DST#: 1

Test Start: 2014.07.13 @ 20:52:05

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:00:15

Time Test Ended: 03:25:35

Test Type: Conventional Straddle (Initial)

Tester: Tate Lang

Unit No: 77

Interval: 3452.00 ft (KB) To 3470.00 ft (KB) (TVD)

Total Depth: 3514.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2005.00 ft (KB)

1998.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8354 Below (Straddle)

Press@RunDepth: psig @ 3484.00 ft (KB)

Start Date: 2014.07.13

End Date:

2014.07.14

Start Time: 20:52:26

End Time:

03:25:50

Capacity: 8000.00 psig

Last Calib.:

2014.07.14

Time On Btm:

Time Off Btm:

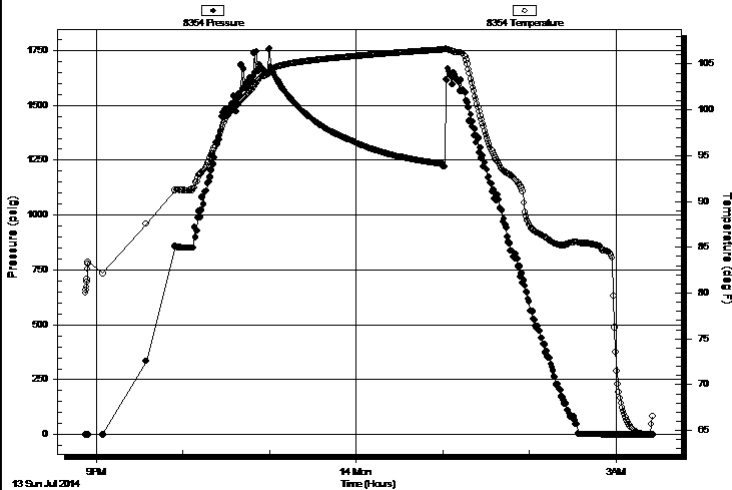
TEST COMMENT: Weak surface blow died in 4 mins

Dead no blow back

Dead no blow

Dead no blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Tengasco INC

34-8s-19w Rooks,KS

PO Box 458
Hays KS 67601

Amrein #3

Job Ticket: 58913

DST#: 1

ATTN: Mike Bair

Test Start: 2014.07.13 @ 20:52:05

Tool Information

Drill Pipe:	Length: 3401.00 ft	Diameter: 3.80 inches	Volume: 47.71 bbl	Tool Weight:	2000.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 47.86 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3452.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	3470.00 ft				
Interval between Packers:	18.00 ft				
Tool Length:	94.00 ft				
Number of Packers:	3	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Shut In Tool	5.00			3430.00	
Hydraulic tool	5.00			3435.00	
Jars	5.00			3440.00	
Safety Joint	2.00			3442.00	
Packer	5.00			3447.00	27.00 Bottom Of Top Packer
Packer	5.00			3452.00	
Stubb	1.00			3453.00	
Recorder	0.00	8897	Inside	3453.00	
Recorder	0.00	8898	Outside	3453.00	
Perforations	12.00			3465.00	
Blank Off Sub	1.00			3466.00	
Blank Spacing	4.00			3470.00	18.00 Tool Interval
Packer	5.00			3475.00	
Stubb	1.00			3476.00	
Perforations	8.00			3484.00	
Recorder	0.00	8354	Below	3484.00	
Change Over Sub	1.00			3485.00	
Drill Pipe	30.00			3515.00	
Change Over Sub	1.00			3516.00	
Bullnose	3.00			3519.00	49.00 Bottom Packers & Anchor

Total Tool Length: 94.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Tengasco INC

34-8s-19w Rooks,KS

PO Box 458
Hays KS 67601

Amrein #3

Job Ticket: 58913

DST#: 1

ATTN: Mike Bair

Test Start: 2014.07.13 @ 20:52:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

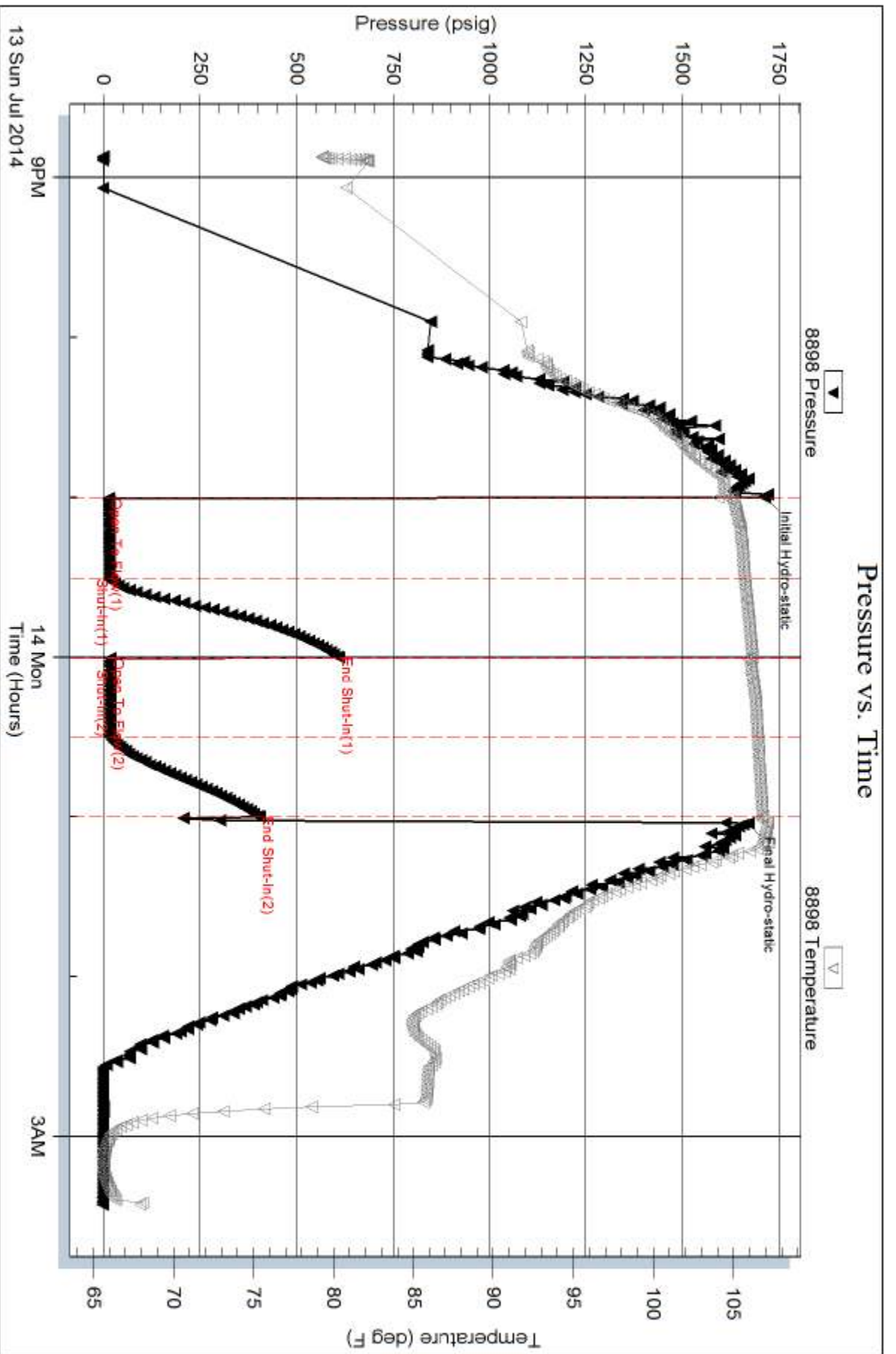
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



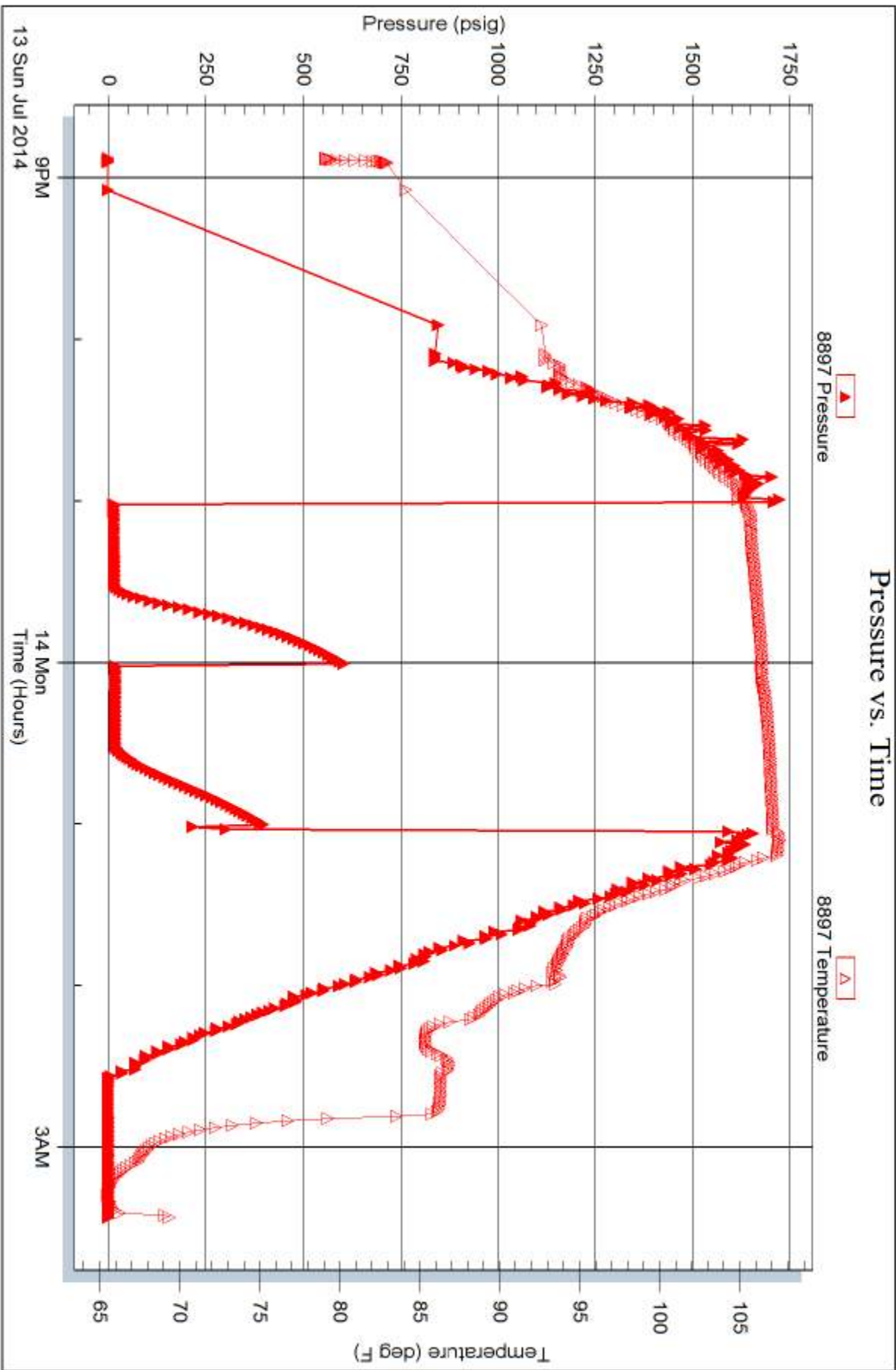
Serial #: 8897

Inside

Tengasco INC

Anrein #3

DST Test Number: 1

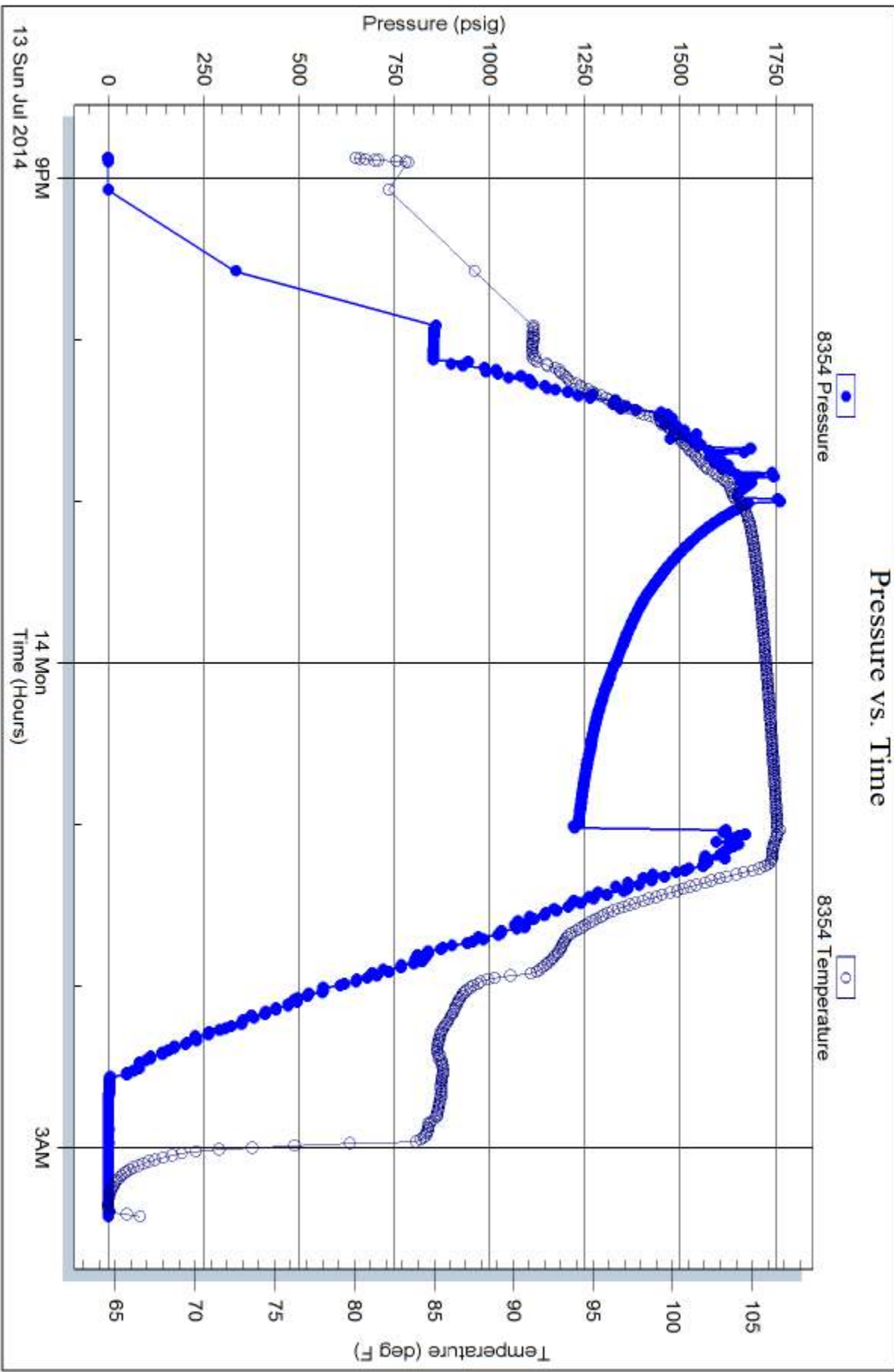


Serial #: 8354

Below (Strat)psco INC

Anrein #3

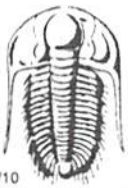
DST Test Number: 1



Triobite Testing, Inc

Ref. No: 59913

Printed: 2014.07.16 @ 08:30:50



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58913

Well Name & No. Amrein #3 Test No. 1 Date 7-13-14
 Company Tengasco ILL Elevation 2005 KB 1998 GL
 Address 1327 Noose Rd Po Box 458 67601
 Co. Rep / Geo. Mike Blair Rig American Eagle #
 Location: Sec. 34 Twp. 8 Rge. 19 Co. Rootis State KS

Interval Tested 3452 3470 Zone Tested _____
 Anchor Length 18' 47' Int Drill Pipe Run 3401 Mud Wt. 9.0
 Top Packer Depth 34 Drill Collars Run 50 Vis 54
 Bottom Packer Depth 3452 Wt. Pipe Run 0 WL 8.0
 Total Depth 3514 Chlorides 1700 ppm System LCM 3#

Blow Description Weck surface died in 4mins
Dead no blow back
Dead no blow
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>5</u>	Feet of <u>Mud</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 1060 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 1714 Test 1150 T-On Location 2060
 (B) First Initial Flow 13 Jars _____ T-Started 2052
 (C) First Final Flow 17 Safety Joint _____ T-Open 2300
 (D) Initial Shut-In 610 Circ Sub _____ T-Pulled 0100
 (E) Second Initial Flow 18 Hourly Standby _____ T-Out 0325
 (F) Second Final Flow 18 Mileage 80R/7 86.80 Comments Loaded
 (G) Final Shut-In 405 Sampler _____ Tools
 (H) Final Hydrostatic 1670 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1836.80
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1836.80

Approved By _____ Our Representative [Signature]
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