



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1188172
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: _____

1188172

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	R. P. Nixon Operations, Inc
Well Name	Theresa 7
Doc ID	1188172

All Electric Logs Run

Microresistivity Log
Dual Induction Log
Borehole Compensated Sonic Log
Dual Compensated Porosity Log
Computer Processed Interpretation

Form	ACO1 - Well Completion
Operator	R. P. Nixon Operations, Inc
Well Name	Theresa 7
Doc ID	1188172

Tops

Name	Top	Datum
Anhydrite	1316	+803
Base Anhydrite	1358	+761
Topeka	3088	-969
Heebner	3330	-1211
Toronto	3352	-1233
Lansing	3375	-1256
Base Kansas City	3608	-1489
Arbuckle	3739	-1620

API.# 15-051-26660-00-00

GEOLOGICAL REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY RP Nixon Operations, Inc
 LEASE Theresa # 7
 FIELD Schmeidler
 LOCATION 3030' FSL + 4465' FEL
 SEC 27 TWSP 12S RGE 17W
 COUNTY Ellis STATE Kansas

ELEVATION
 KB 2119'
 DF _____
 GL 2114'
 Depths Measured From
 Log KB Drilling KB

CONTRACTOR Shields Oil Producers, Inc.
 SPUD 1-30-14 COMP 2-8-14
 SAMPLES SAVED FROM 3200 TO R.T.D

CASING
 Surface 8 5/8" @ 218'
 Production None

ELECTRIC LOGS
Pioneer

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE	E. LOG	DATUM	A	B	C	D
			<u>2.109</u>	●	●		
Anhydrite	<u>1320</u>	<u>1316</u>	<u>+ 803</u>	<u>+ 792</u>	<u>+ 802</u>		
Base Anhydrite	<u>1359</u>	<u>1358</u>	<u>+ 761</u>	<u>+ 766</u>	<u>+ 758</u>		
Tapeka	<u>3086</u>	<u>3088</u>	<u>- 969</u>	<u>- 966</u>	<u>- 972</u>		
Heebner	<u>3327</u>	<u>3330</u>	<u>-1211</u>	<u>-1208</u>	<u>-1213</u>		
Toronto	<u>3348</u>	<u>3352</u>	<u>-1233</u>	<u>-1229</u>	<u>-1234</u>		
Lansing	<u>3372</u>	<u>3375</u>	<u>-1256</u>	<u>-1253</u>	<u>-1257</u>		
Base Kansas City	<u>3604</u>	<u>3608</u>	<u>-1489</u>	<u>-1484</u>	<u>-1491</u>		
Arbuckle	<u>3638</u>	<u>3641</u>	<u>-1522</u>	<u>-1506</u>	<u>-1525</u>		
Total Depth	<u>3735</u>	<u>3739</u>	<u>-1620</u>	<u>-1603</u>	<u>-1601</u>		

REFERENCE WELLS

A RP Nixon Operations, Inc. Theresa #6, 530' FNL + 330' FWL Sec 27-12S-17W
 B _____
 C _____
 D _____

REMARKS
 This well ran 3 feet lower to 2 feet higher on the Lansing top and 16 feet lower to 3 feet higher on the Arbuckle top than the reference wells. The top 37 feet of Arbuckle produced negative results when tested with the four drill stem tests. It was decided this well should be plugged and abandoned.

Richard B. Bell
2-8-14

REMARKS

This well ran 3 feet lower to 2 feet higher on the Lansing top and 16 feet lower to 3 feet higher on the Arbuckle top than the reference wells. The top 37 feet of Arbuckle produced negative results when tested with the four drill stem tests. It was decided this well should be plugged and abandoned.

Richard B. Bell
2-8-14

7502

LEGEND

- 

Anhydrite
- 

Salt
- 

Sandstone
- 

Shale
- 

Carb sh
- 

Limestone
- 

Ool. Lime
- 

Chert
- 

Dolomite

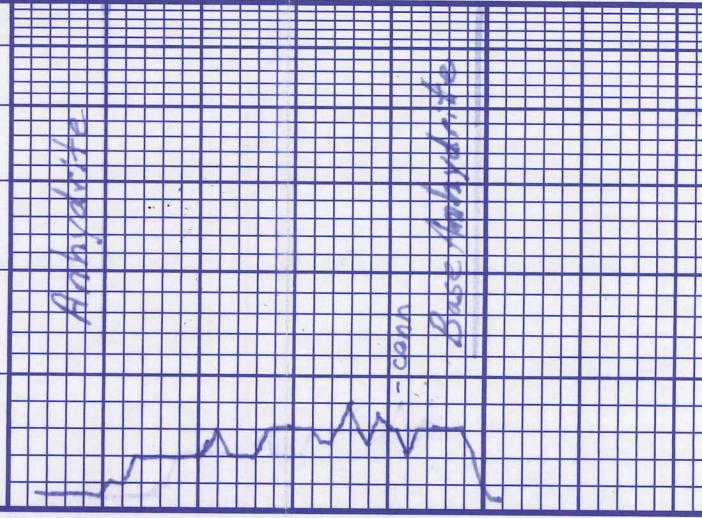
DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
13 1/2	Anhydrite			
20	Anhydrite			
30	Anhydrite			
40	Anhydrite			
50	Anhydrite			
60	Anhydrite			

DRILLING TIME IN MINUTES
PER FOOT

Rate of Penetration Decreases



5" 10" 15" 20" 25"



LOG 7710

Samples are lagged
Drilling Time has to
be adjusted down
3 feet to match open
hole log depths.

sh: gry
S: idk in - gry sticky - 1318
dns N.S.O.

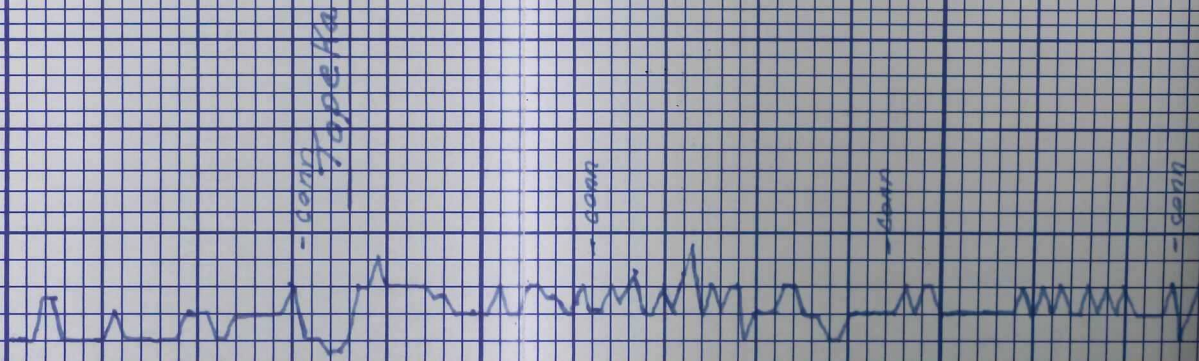
3050

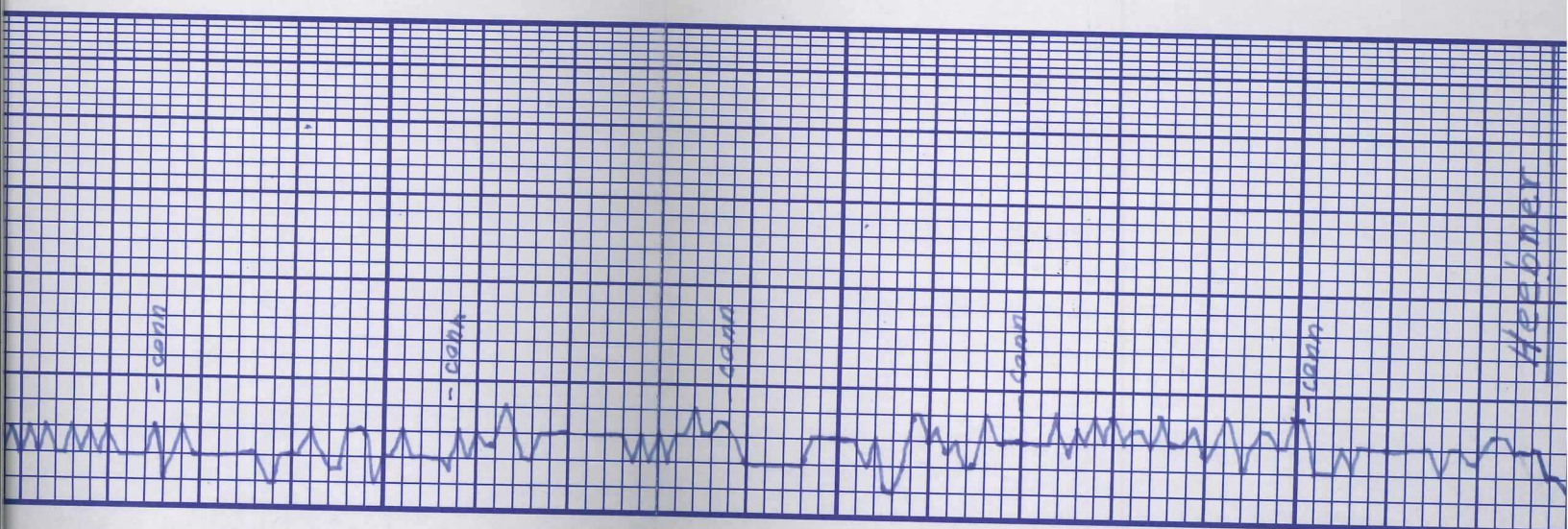
3100

20

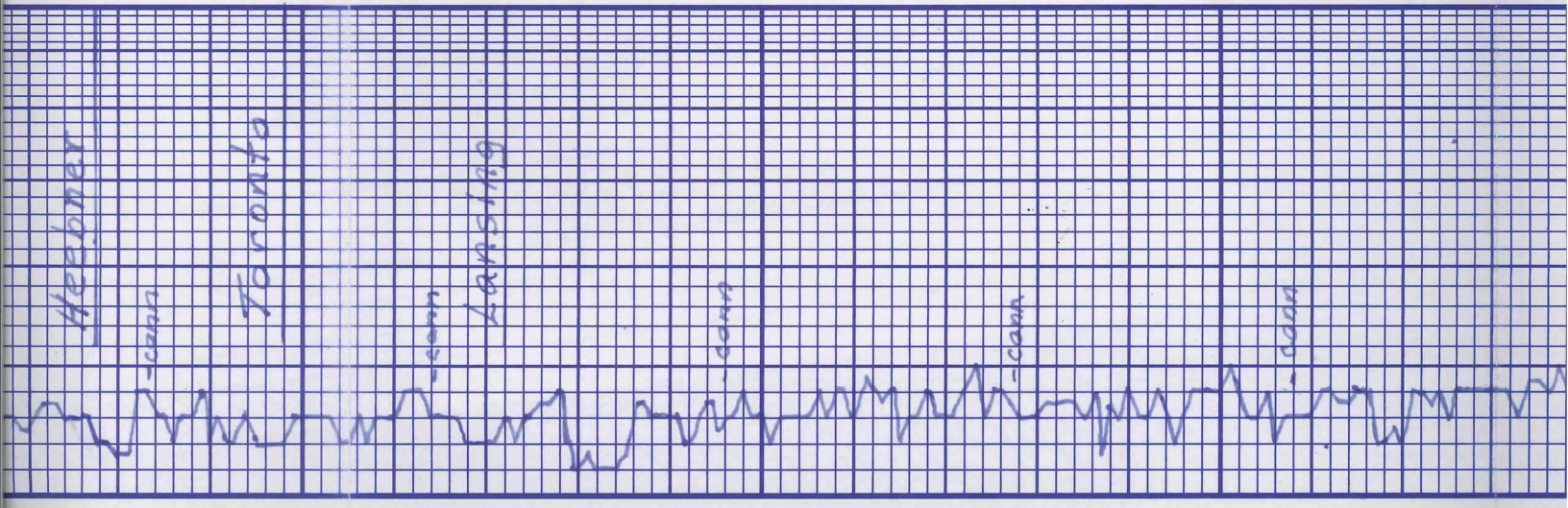
40

60





60	sh: gry
80	ls: whtn - gry sli. cky - fsif dns N.S.O.
3200	ls: whtn - gry incr. cky - fsif ppp - in part N.S.O. Δ whtn - gry Tr. blk Carb Sh
20	Tr. ss: gry v. tn. gn. consol. ingran N.S.O. ls: whtn sli. cky - fsif dns N.S.O.
40	ls: tan - lt. gry fsif dns N.S.O. ls: whtn cky - fsif dns N.S.O. Δ gry sh: gry + brn
60	ls: tan - lt. gry fsif dns Tr. blk Carb. Shale ls: tan - lt. gry fsif dns
80	ls: tan - gry fsif ppppp N.S.O. Δ gry sh: gry ls: whtn cky - fsif dns N.S.O.
3300	ls: whtn cky - fsif trppp in part R.T. 0.5tn R.T. pp F.O. No odor ✓
20	ls: whtn - gry cky - fsif Tr. ppp R.T. fr edge 0.5tn N.F.O. No odor Δ gry ✓



Hebner

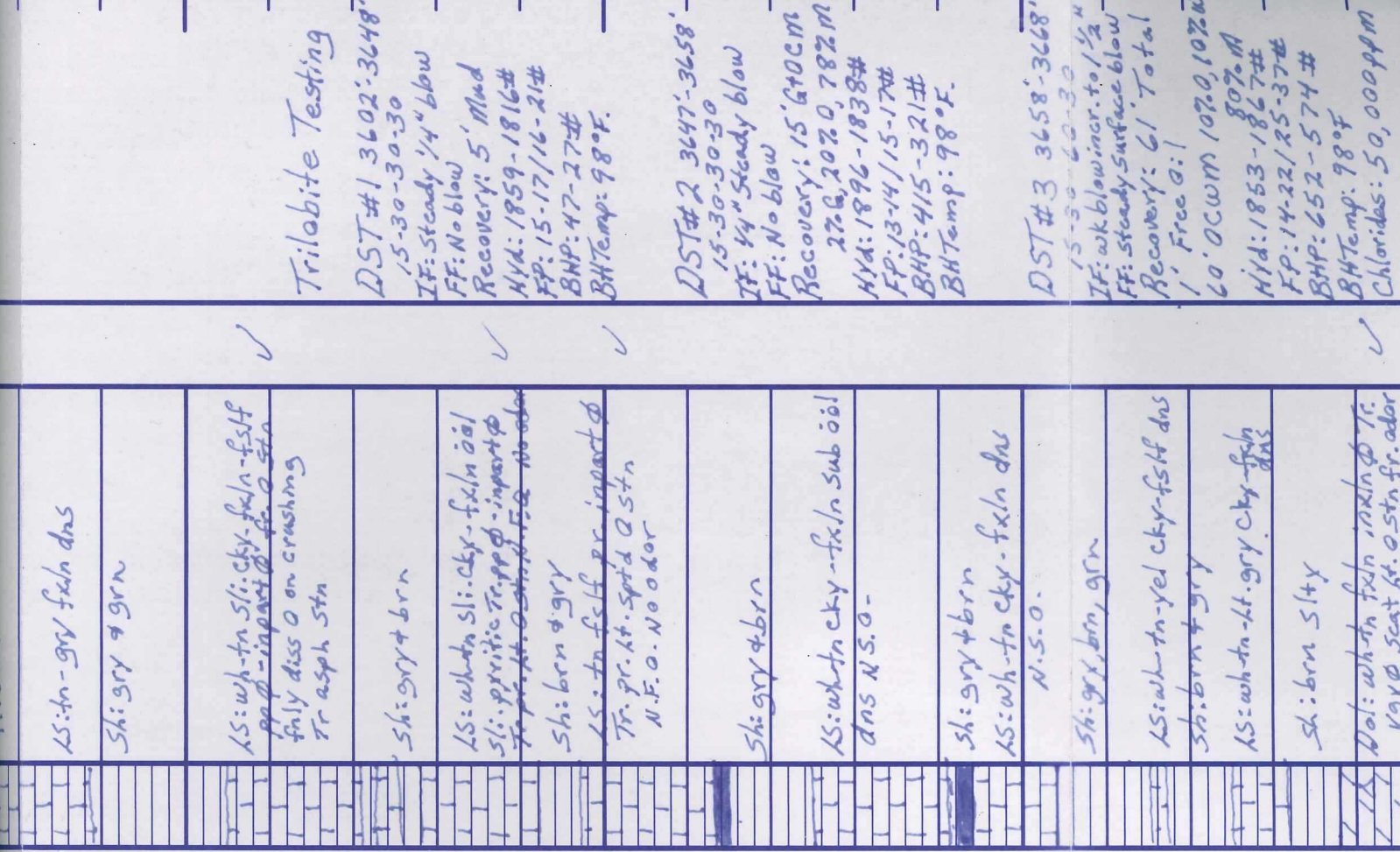
Toronto

Lansing

can

can

20	LS: wh-ta-gry cky-feln Tr. pp & R.T. fr edge o stn N.F.O. No odor Δ gry Sh: Bk Carb.
40	LS: ta-gry fs/f dns Sh: gry slty, brn + grn Tr. S: wh-gry V. fr. gn Consol Ingrung N.S.O.
60	LS: wh-ta slt. cky-feln Tr. slt. fsh dns N.S.O.
80	V. cky Sh: gry + brn
80	'A' LS: wh-ta cky-feln Tr sub ööl pr. pp & N.S.O. Sh: gry slty + brn slty
3400	'B' LS: wh-ta cky-feln pr. pp & R.T. pr. edge. stn gd cut No odor
3400	'C' LS: wh-ta-lt. gry cky-feln dns N.S.O. Sh: brn + gry
20	'D' LS: wh-ta-lt. gry cky-felf pr. pp & R.T. pr. H. Spnd. O stn fr. cut on crushing N.F.O. No odor
40	'E' Tr. blk Carb Sh.
40	'F' LS: ta-lt. gry fs/f pp & Tr. pc lt o stn N.F.O. fr. cut No odor
60	'G' LS: wh-ta feln ööl pr. in part lt. Spnd o stn fr cut N.F.O. No odor A wh-ta
80	LS: wh-ta feln ööl pp & pr. in part & fr. cut o stn frly diss o on crushing fr. odor
80	LS: ta-grv feln dns



80
3500
H
20
40
60
80
K
3600
L
20
40

LS: tn-grv fxln dns
Sh: gry & grn

LS: wh-tn sli. cky-fxln-fstf
pp-impact ϕ fr. o. stn
fnly diss o on crushing
Tr asph stn

Sh: gry & brn

LS: wh-tn sli. cky-fxln oöl
sli. pyritic Tr. pp- ϕ -impact ϕ
Tr. fr. ht. o. stn fr. No odor

Sh: brn & gry

LS: tn-fstf pr. impact ϕ
Tr. fr. ht. Sp'd o. stn
N.F.O. No odor

Sh: gry & brn

LS: wh-tn cky-fxln sub oöl
dns N.S.O.

Sh: gry & brn
LS: wh-tn cky-fxln dns
N.S.O.

Sh: gry, brn, grn

LS: wh-tn-yel cky-fstf dns
Sh: brn & gry

LS: wh-tn-lt. gry cky-fxln
dns

Sh: brn slyx

Dol: wh-tn fish in xln ϕ Tr.
Vgyp Seat ft. o. stn fr. odor

Trilobite Testing

DST #1 3602-3648'
15-30-30-30
IF: steady 1/4" blow
FF: No blow
Recovery: 5' Mud
HYD: 1859-1816#
FP: 15-17/16-21#
BHP: 47-27#
BH Temp: 98°F.

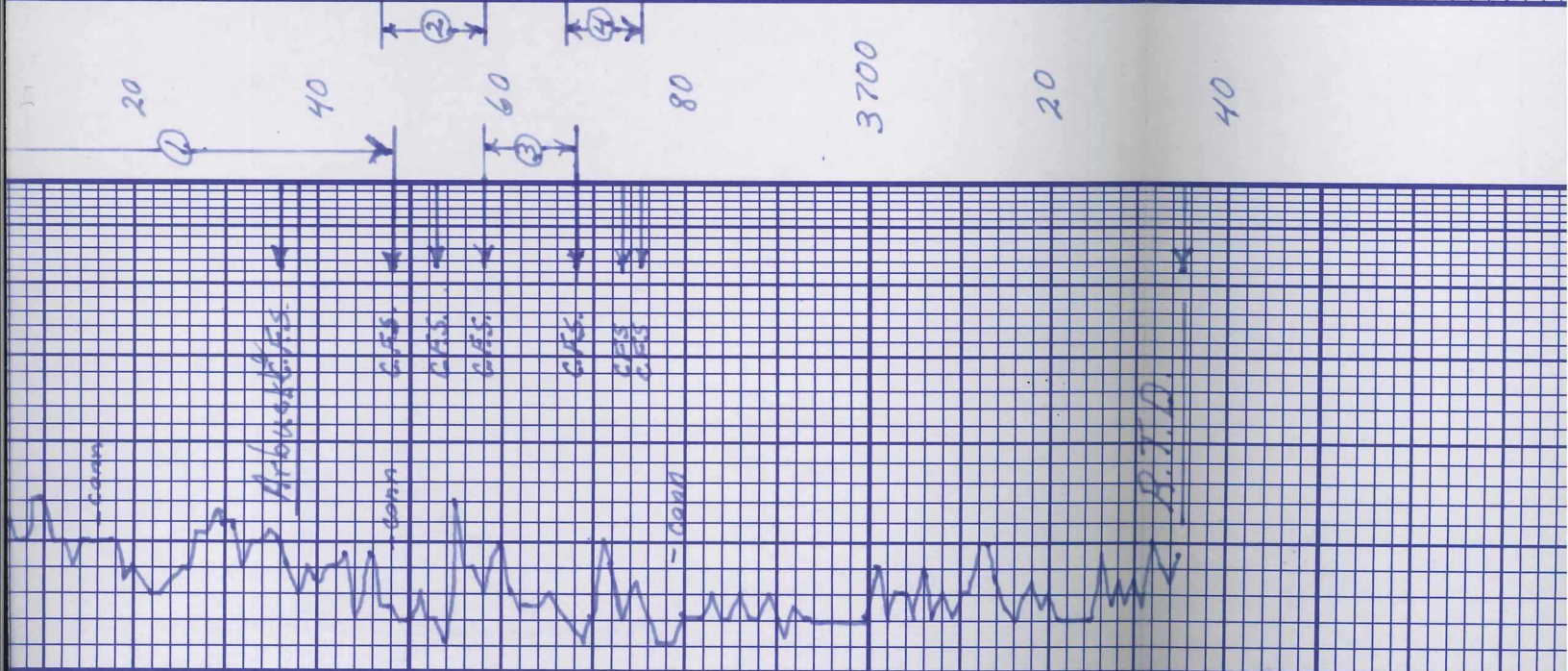
DST #2 3647-3658'
15-30-30-30
IF: 1/4" steady blow
FF: No blow
Recovery: 15' G+OCM
226, 2020, 782M
HYD: 1896-1838#
FP: 13-14/15-17#
BHP: 415-321#
BH Temp: 98°F.

DST #3 3658-3668'
15-30-60-30
IF: wk blowing. to 1/2"
FF: steady surface blow
Recovery: 61' Total
1' Free oil
60' OCWM 107.0, 1020W
80% M
HYD: 1853-1867#
FP: 14-22/25-37#
BHP: 652-574#
BH Temp: 98°F
Chlorides: 50,000 ppm

IF: wk blow incr. to 1/2"
 FF: steady surface blow
 Recovery: 61' Total
 1' Free Oil
 60' OC MW 107.0, 107.0
 Hyd: 1853-1867#
 FP: 14-22/25-37#
 BHP: 652-574#
 BHTemp: 98°F
 Chlorides: 50,000 ppm

DST #4 3667-3675
 15-30-60-30
 IF: wk blow incr. to 2"
 FF: wk blow incr. to 1/2"
 Recovery: 76' Total
 1' Free Oil
 75' OC MW 270, 787.0
 Hyd: 1911-1845#
 FP: 15-27/29-53#
 BHP: 622-539#
 BHTemp: 98°F.

Sh: grey, brn, grn	Sh: white to yellow clay-fsH dns	Sh: brn + grey	Sh: white to grey clay-fsH dns	Sh: brn slty	Dol: white to fsH inln @ Tr. vgy p scat. fr. o str fr. odor Δ white-yellow	Dol: white clay-fsH ool in part @ f.o. on crushing Tr. asph str strong odor	Sh: white to fsH - slt suc. - fr. inln @ fr. o s at PP.F.O. gd odor	Dol: white clay-fsH dns Tr: white to yellow Tr: fsH - mth in part @ Sat f.o. odor	Sample missing	Missing	"	Dol: white to fsH - Tr: slt suc. w/ str from above Tr: mth w/ vgy @ No. S.O.	Dol: white to fsH - mth dns at o str Δ wh
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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. 7062

Date	1-31-14	Sec.	27	Twp.	12	Range	17	County	Ellis	State	KS	On Location		Finish	6:00 AM
------	---------	------	----	------	----	-------	----	--------	-------	-------	----	-------------	--	--------	---------

Location Weld Tech 4N E into

Lease	Theresa	Well No.	7	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	Shields				
Type Job	Surface				
Hole Size	12 1/4	T.D.	221'	Charge To	R.P. Nixon
Csg.	8 5/8	Depth	221'	Street	
Tbg. Size		Depth		City	State
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	20'	Shoe Joint		Cement Amount Ordered 150 com 3% cc 2% Gel	

Meas Line Displace 13 bbl

EQUIPMENT				Common	150
Pumptrk	18	No.	Cementer Helper Cody	Poz. Mix	
Bulktrk	3	No.	Driver Clayton	Gel.	3
Bulktrk	Pu	No.	Driver Brett	Calcium	5

JOB SERVICES & REMARKS		Hulls
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 158
		Mileage

FLOAT EQUIPMENT

Cement	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

	Pumptrk Charge	Surface
	Mileage	13

X Signature George Begler	Tax	
	Discount	
	Total Charge	

ALLIED OIL & GAS SERVICES, LLC

054202

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Lincoln

DATE <u>2-8-14</u>	SEC. <u>27</u>	TWP. <u>12s</u>	RANGE <u>17w</u>	CALLED OUT	ON LOCATION	JOB START <u>7:00 PM</u>	JOB FINISH <u>12:30 PM</u>
LEASE <u>THERESA #7</u>		WELL # <u>7</u>		LOCATION <u>CATHLAMET KA. 1/2 E 3 N 2 E</u>		COUNTY <u>ELLIS</u>	STATE <u>Ks.</u>
OLD OR NEW (Circle one) <u>(NEW)</u>							

CONTRACTOR Shiolas Data Rig #1

TYPE OF JOB Rotary Plug

HOLE SIZE 7 7/8 T.D. 3700'

CASING SIZE 8 5/8 DEPTH 218

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 X-H DEPTH 3

TOOL DEPTH

PRES. MAX MINIMUM ✓

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER

CEMENT AMOUNT ORDERED 270 SK 40 4 1/2 GEL
1/4 # FIB-Seal
4 Per SK

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

EQUIPMENT

PUMP TRUCK CEMENTER Glen G.

409 HELPER NATHAN D.

BULK TRUCK DRIVER KAVEN R.

410 DRIVER

REMARKS:

50 SK @ 3622'

25 SK @ 1350'

100 SK @ 775'

40 SK @ 275'

10 SK @ 40' w/ wire Plug

15 SK @ Mouse Hole

30 SK @ Rot Hole

TOTAL

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

CHARGE TO: RP Nixon Oil Operations Inc

STREET

CITY STATE ZIP

TOTAL

PLUG & FLOAT EQUIPMENT

2 5/8 WTPOR Plug @

@

@

@

@

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



DRILL STEM TEST REPORT

Prepared For: **RP Nixon Operations, Inc**

207 W. 12th
Hays, KS 67601

ATTN: Richard Bell

Theresa #7

27-12s-17w Ellis,KS

Start Date: 2014.02.05 @ 12:26:38

End Date: 2014.02.05 @ 18:48:16

Job Ticket #: 53750 DST #: 1

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

Printed: 2014.02.10 @ 15:26:19



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

RP Nixon Operations, Inc

27-12s-17w Ellis,KS

207 W. 12th
Hays, KS 67601

Theresa #7

Job Ticket: 53750

DST#: 1

ATTN: Richard Bell

Test Start: 2014.02.05 @ 12:26:38

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:56:36

Time Test Ended: 18:48:16

Test Type: Conventional Bottom Hole (Initial)

Tester: Stuart Stover

Unit No: 44

Interval: 3602.00 ft (KB) To 3648.00 ft (KB) (TVD)

Reference Elevations: 2119.00 ft (KB)

Total Depth: 3648.00 ft (KB) (TVD)

2114.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8288 Inside

Press@RunDepth: 20.90 psig @ 3603.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.05 End Date: 2014.02.05

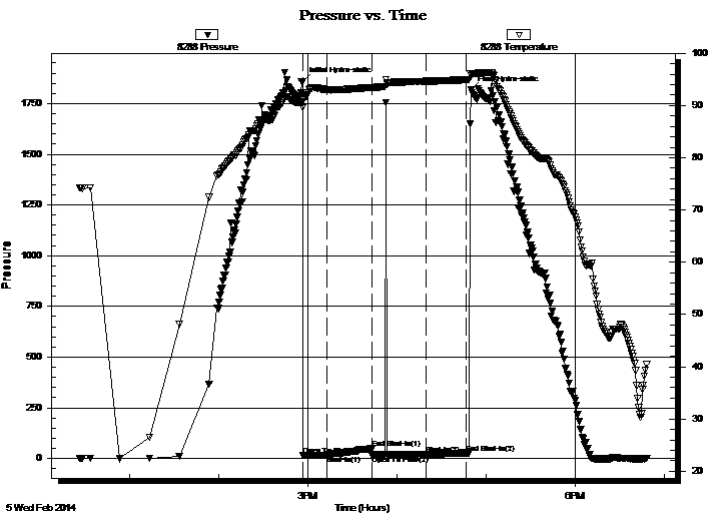
Last Calib.: 2014.02.05

Start Time: 12:26:38 End Time: 18:48:16

Time On Btm: 2014.02.05 @ 14:56:25

Time Off Btm: 2014.02.05 @ 16:49:46

TEST COMMENT: IFP: Steady 1/4" Blow
FFP: No Blow Flush Tool, No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1859.24	90.69	Initial Hydro-static
1	15.31	89.63	Open To Flow (1)
17	17.33	92.99	Shut-In(1)
47	47.72	93.47	End Shut-In(1)
47	15.52	93.46	Open To Flow (2)
84	20.90	94.63	Shut-In(2)
111	27.35	94.92	End Shut-In(2)
114	1816.33	95.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drig mud	0.04

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

RP Nixon Operations, Inc

27-12s-17w Ellis,KS

207 W. 12th
Hays, KS 67601

Theresa #7

Job Ticket: 53750

DST#: 1

ATTN: Richard Bell

Test Start: 2014.02.05 @ 12:26:38

Tool Information

Drill Pipe:	Length: 3147.00 ft	Diameter: 3.80 inches	Volume: 44.14 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 465.00 ft	Diameter: 3.00 inches	Volume: 4.07 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: 40000.00 lb
			<u>Total Volume: 48.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3602.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3588.00	
Hydraulic tool	5.00			3593.00	
Packer	5.00			3598.00	19.00 Bottom Of Top Packer
Packer	4.00			3602.00	
Stubb	1.00			3603.00	
Recorder	0.00	8288	Inside	3603.00	
Recorder	0.00	8521	Outside	3603.00	
Perforations	8.00			3611.00	
Change Over Sub	1.00			3612.00	
Drill Pipe	31.00			3643.00	
Change Over Sub	1.00			3644.00	
Bullnose	4.00			3648.00	46.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

RP Nixon Operations, Inc

27-12s-17w Ellis,KS

207 W. 12th
Hays, KS 67601

Theresa #7

Job Ticket: 53750

DST#: 1

ATTN: Richard Bell

Test Start: 2014.02.05 @ 12:26:38

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:

4200 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 5.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	Drig mud	0.044

Total Length: 5.00 ft Total Volume: 0.044 bbf

Num Fluid Samples: 0

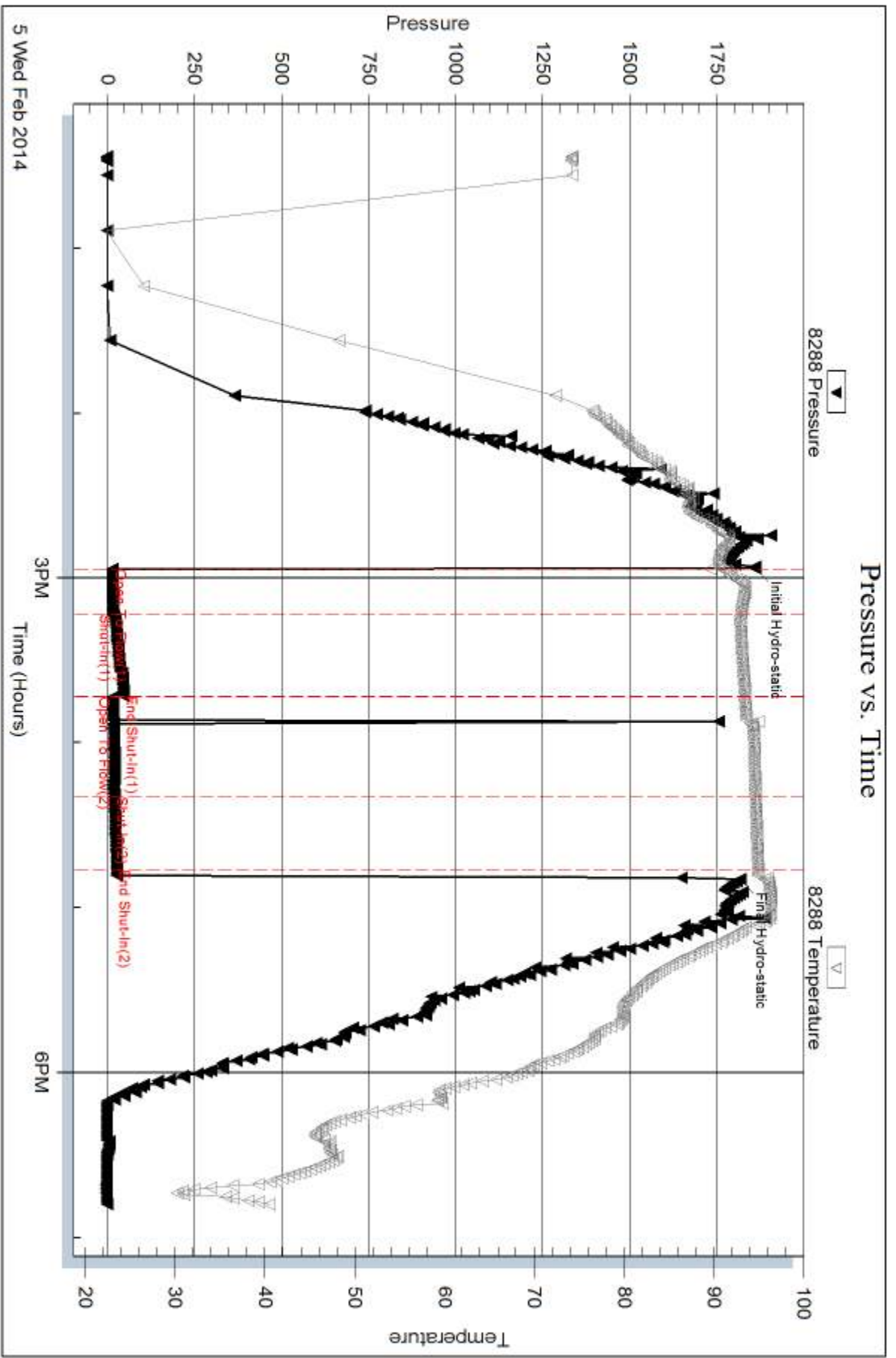
Num Gas Bombs: 0

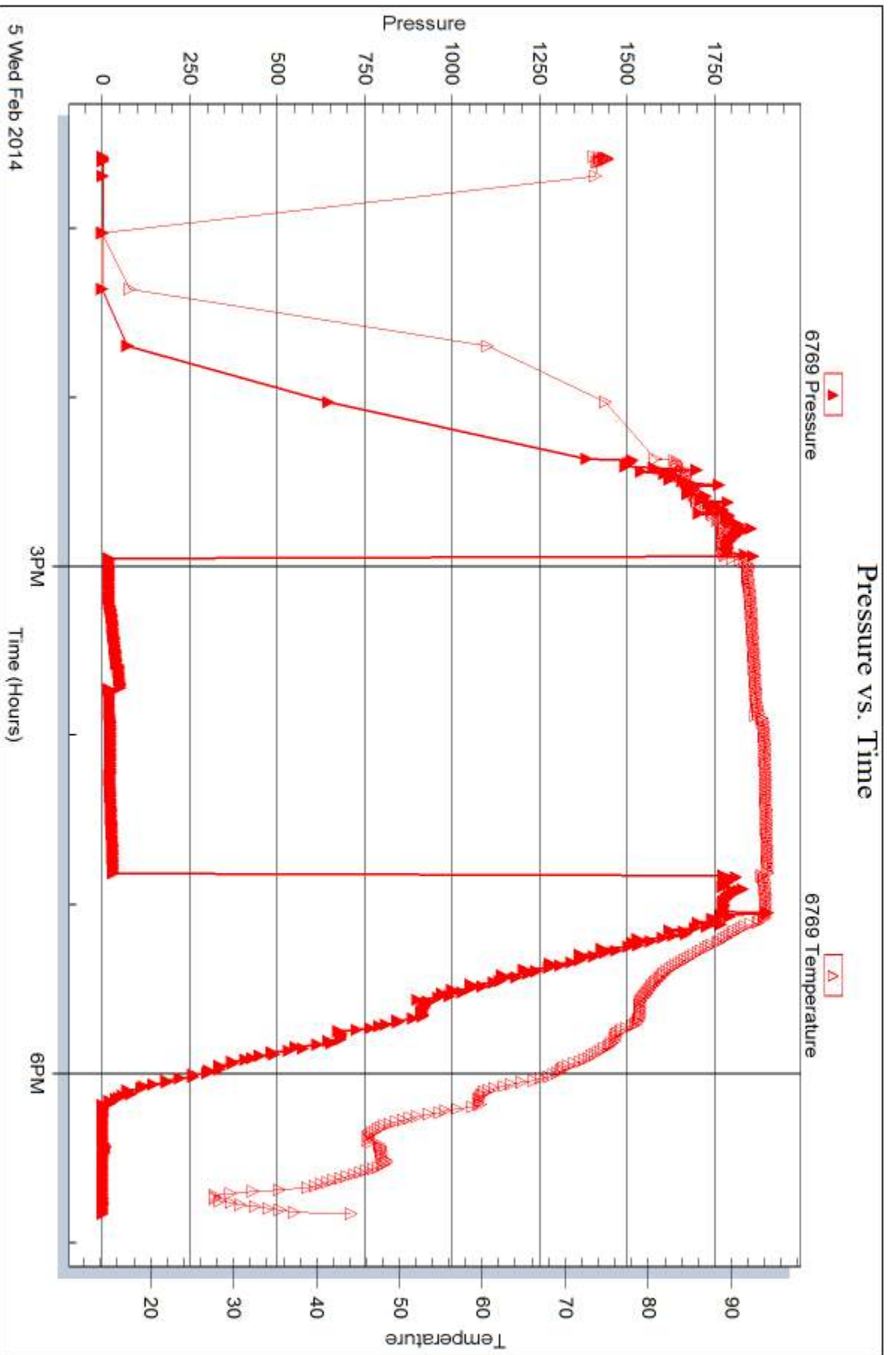
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





5 Wed Feb 2014



DRILL STEM TEST REPORT

Prepared For: **RP Nixon Operations, Inc**

207 W. 12th
Hays, KS 67601

ATTN: Richard Bell

Theresa #7

27-12s-17w Ellis,KS

Start Date: 2014.02.06 @ 03:30:24

End Date: 2014.02.06 @ 06:45:14

Job Ticket #: 53676 DST #: 2

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

Printed: 2014.02.10 @ 15:25:47



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

RP Nixon Operations, Inc

27-12s-17w Ellis,KS

207 W. 12th
Hays, KS 67601

Theresa #7

Job Ticket: 53676

DST#: 2

ATTN: Richard Bell

Test Start: 2014.02.06 @ 03:30:24

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:03:14

Time Test Ended: 06:45:14

Test Type: Conventional Bottom Hole (Reset)

Tester: Stuart Stover

Unit No: 44

Interval: 3647.00 ft (KB) To 3658.00 ft (KB) (TVD)

Reference Elevations: 2119.00 ft (KB)

Total Depth: 3658.00 ft (KB) (TVD)

2114.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8288 Inside

Press@RunDepth: 17.25 psig @ 3648.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.06

End Date:

2014.02.06

Last Calib.:

2014.02.06

Start Time: 03:30:26

End Time:

10:37:13

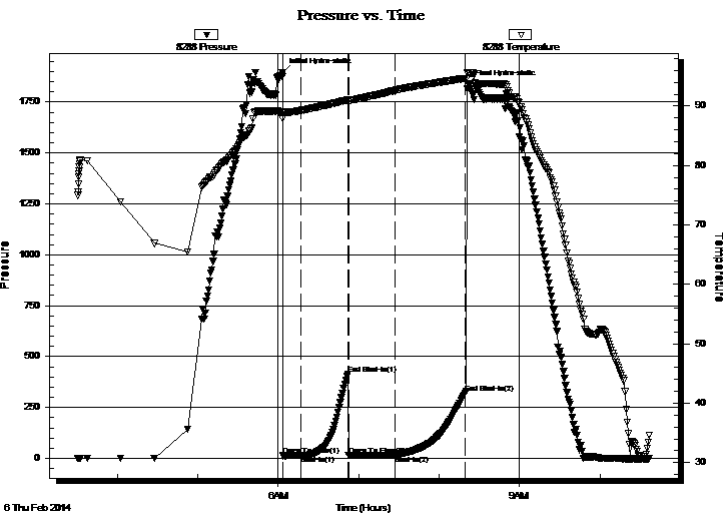
Time On Btm:

2014.02.06 @ 06:03:04

Time Off Btm:

2014.02.06 @ 08:21:33

TEST COMMENT: IFP: Steady 1/4" blow
FFP: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1895.61	89.06	Initial Hydro-static
1	13.03	87.92	Open To Flow (1)
14	14.02	89.24	Shut-In(1)
49	415.21	91.03	End Shut-In(1)
50	14.97	90.92	Open To Flow (2)
84	17.25	92.62	Shut-In(2)
137	321.15	94.65	End Shut-In(2)
139	1837.94	95.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	sligocm 2% gas 20% oil 78% mud	0.13

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

RP Nixon Operations, Inc

27-12s-17w Ellis,KS

207 W. 12th
Hays, KS 67601

Theresa #7

Job Ticket: 53676

DST#: 2

ATTN: Richard Bell

Test Start: 2014.02.06 @ 03:30:24

Tool Information

Drill Pipe:	Length: 3192.00 ft	Diameter: 3.80 inches	Volume: 44.78 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 465.00 ft	Diameter: 3.00 inches	Volume: 4.07 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: 40000.00 lb
			<u>Total Volume: 48.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3647.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	30.00 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			3633.00	
Hydraulic tool	5.00			3638.00	
Packer	5.00			3643.00	19.00 Bottom Of Top Packer
Packer	4.00			3647.00	
Stubb	1.00			3648.00	
Recorder	0.00	8288	Inside	3648.00	
Recorder	0.00	8521	Outside	3648.00	
Perforations	6.00			3654.00	
Bullnose	4.00			3658.00	11.00 Bottom Packers & Anchor
Total Tool Length:	30.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

RP Nixon Operations, Inc

27-12s-17w Ellis,KS

207 W. 12th
Hays, KS 67601

Theresa #7

Job Ticket: 53676

DST#: 2

ATTN: Richard Bell

Test Start: 2014.02.06 @ 03:30:24

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:

4200 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 5.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
15.00	sligocm 2% gas 20% oil 78% mud	0.131

Total Length: 15.00 ft Total Volume: 0.131 bbf

Num Fluid Samples: 0

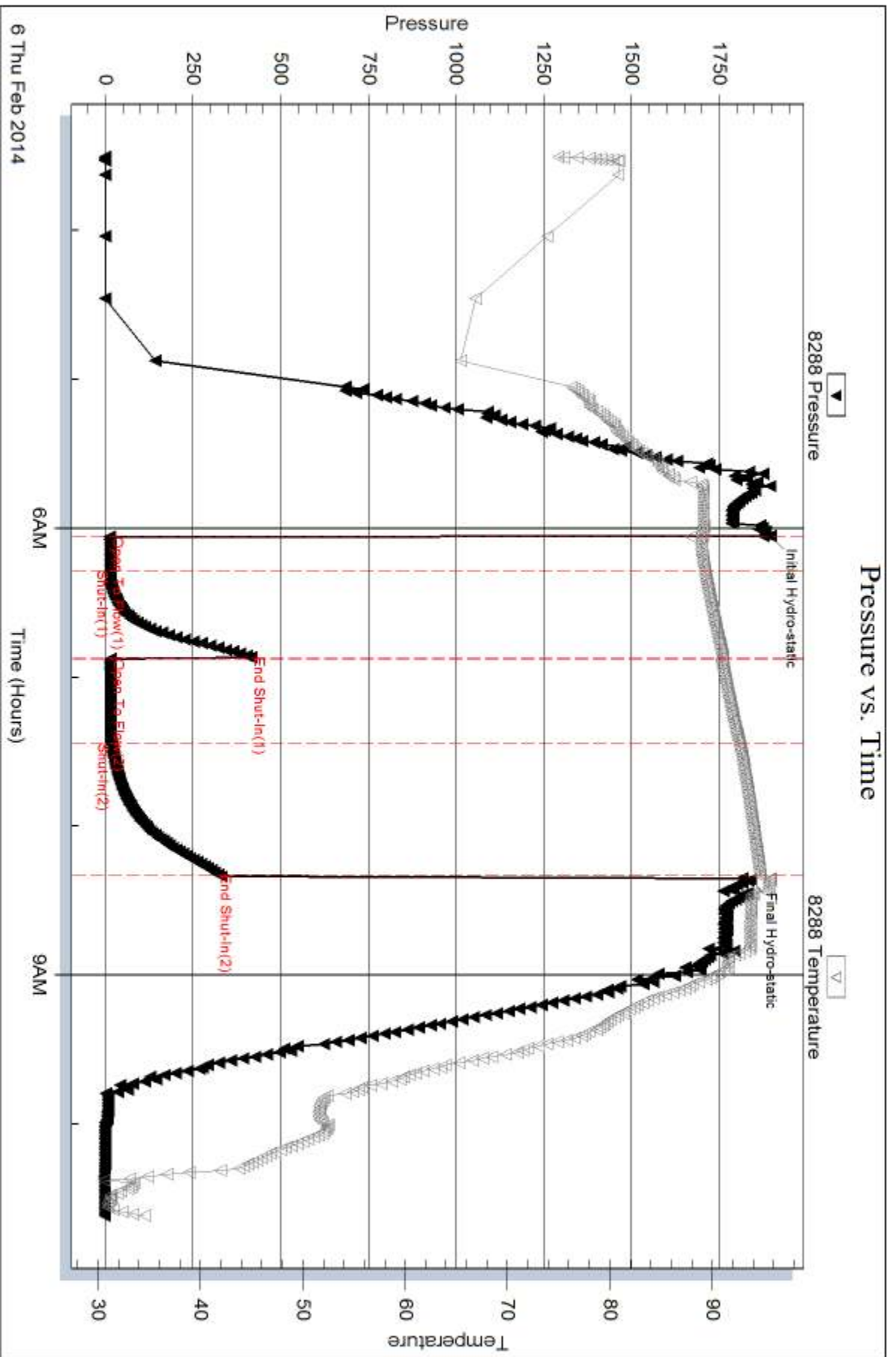
Num Gas Bombs: 0

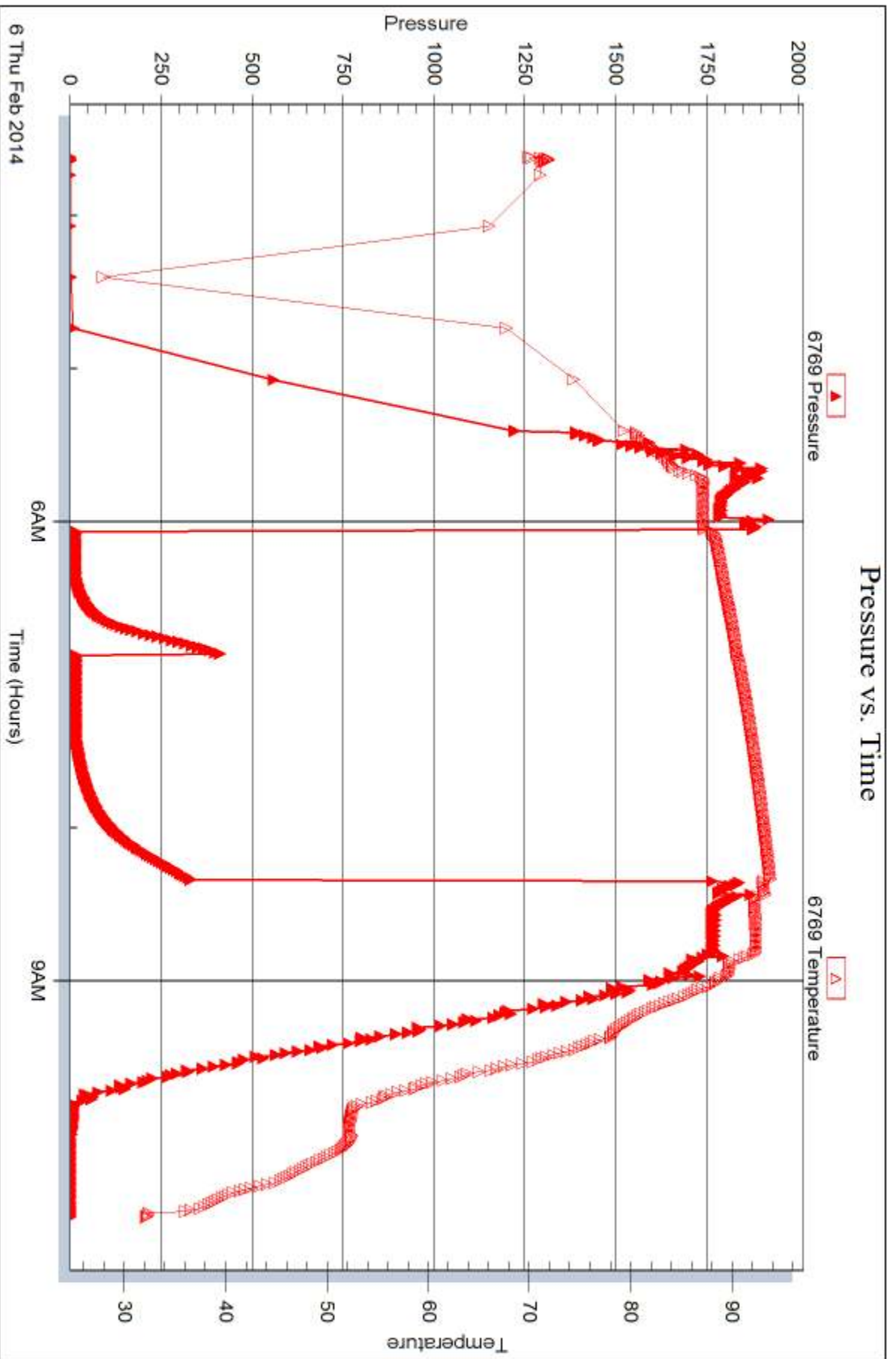
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **RP Nixon Operations, Inc**

207 W. 12th
Hays, KS 67601

ATTN: Richard Bell

Theresa #7

27-12s-17w Ellis,KS

Start Date: 2014.02.06 @ 16:41:49

End Date: 2014.02.06 @ 23:33:28

Job Ticket #: 53677 DST #: 3

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

Printed: 2014.02.10 @ 15:25:15



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

RP Nixon Operations, Inc

27-12s-17w Ellis,KS

207 W. 12th
Hays, KS 67601

Theresa #7

Job Ticket: 53677

DST#: 3

ATTN: Richard Bell

Test Start: 2014.02.06 @ 16:41:49

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:41:39

Time Test Ended: 23:33:28

Test Type: Conventional Bottom Hole (Reset)

Tester: Stuart Stover

Unit No: 44

Interval: 3658.00 ft (KB) To 3668.00 ft (KB) (TVD)

Reference Elevations: 2119.00 ft (KB)

Total Depth: 3668.00 ft (KB) (TVD)

2114.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8288

Inside

Press@RunDepth: 36.90 psig @ 3659.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.06

End Date:

2014.02.06

Last Calib.:

2014.02.07

Start Time: 16:41:51

End Time:

23:33:29

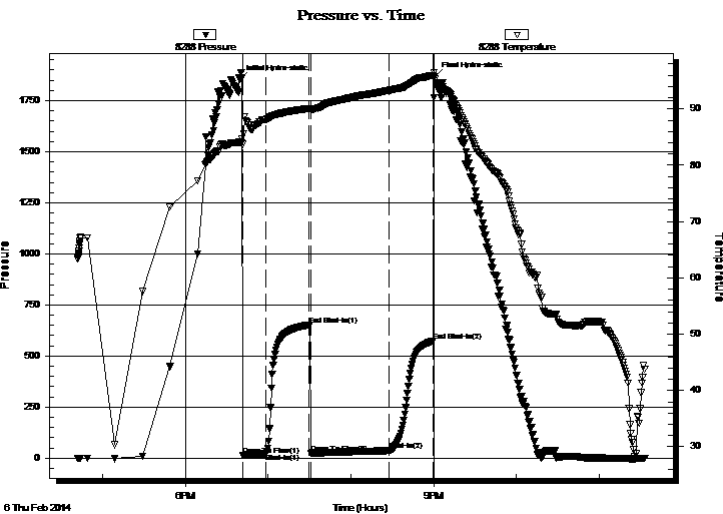
Time On Btm:

2014.02.06 @ 18:39:39

Time Off Btm:

2014.02.06 @ 21:00:58

TEST COMMENT: IFP: 1/4" blow increasing to 1 1/2"
FFP: Weak surface blow thru out



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1853.06	84.05	Initial Hydro-static
2	13.78	83.72	Open To Flow (1)
19	21.94	88.11	Shut-In(1)
50	651.92	90.08	End Shut-In(1)
52	24.89	89.96	Open To Flow (2)
108	36.90	93.29	Shut-In(2)
141	574.46	95.94	End Shut-In(2)
142	1866.70	95.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Free oil	0.01
60.00	ocw m 10% oil 10% w tr 80% mud	0.52

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

RP Nixon Operations, Inc

27-12s-17w Ellis,KS

207 W. 12th
Hays, KS 67601

Theresa #7

Job Ticket: 53677

DST#: 3

ATTN: Richard Bell

Test Start: 2014.02.06 @ 16:41:49

Tool Information

Drill Pipe:	Length: 3180.00 ft	Diameter: 3.80 inches	Volume: 44.61 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 465.00 ft	Diameter: 3.00 inches	Volume: 4.07 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: 40000.00 lb
			<u>Total Volume: 48.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3658.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	29.00 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			3644.00	
Hydraulic tool	5.00			3649.00	
Packer	5.00			3654.00	19.00 Bottom Of Top Packer
Packer	4.00			3658.00	
Stubb	1.00			3659.00	
Recorder	0.00	8288	Inside	3659.00	
Recorder	0.00	8521	Outside	3659.00	
Perforations	5.00			3664.00	
Bullnose	4.00			3668.00	10.00 Bottom Packers & Anchor
Total Tool Length:	29.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

RP Nixon Operations, Inc

27-12s-17w Ellis,KS

207 W. 12th
Hays, KS 67601

Theresa #7

Job Ticket: 53677

DST#: 3

ATTN: Richard Bell

Test Start: 2014.02.06 @ 16:41:49

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:

50000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Free oil	0.009
60.00	ocw m 10% oil 10% w tr 80% mud	0.525

Total Length: 61.00 ft Total Volume: 0.534 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

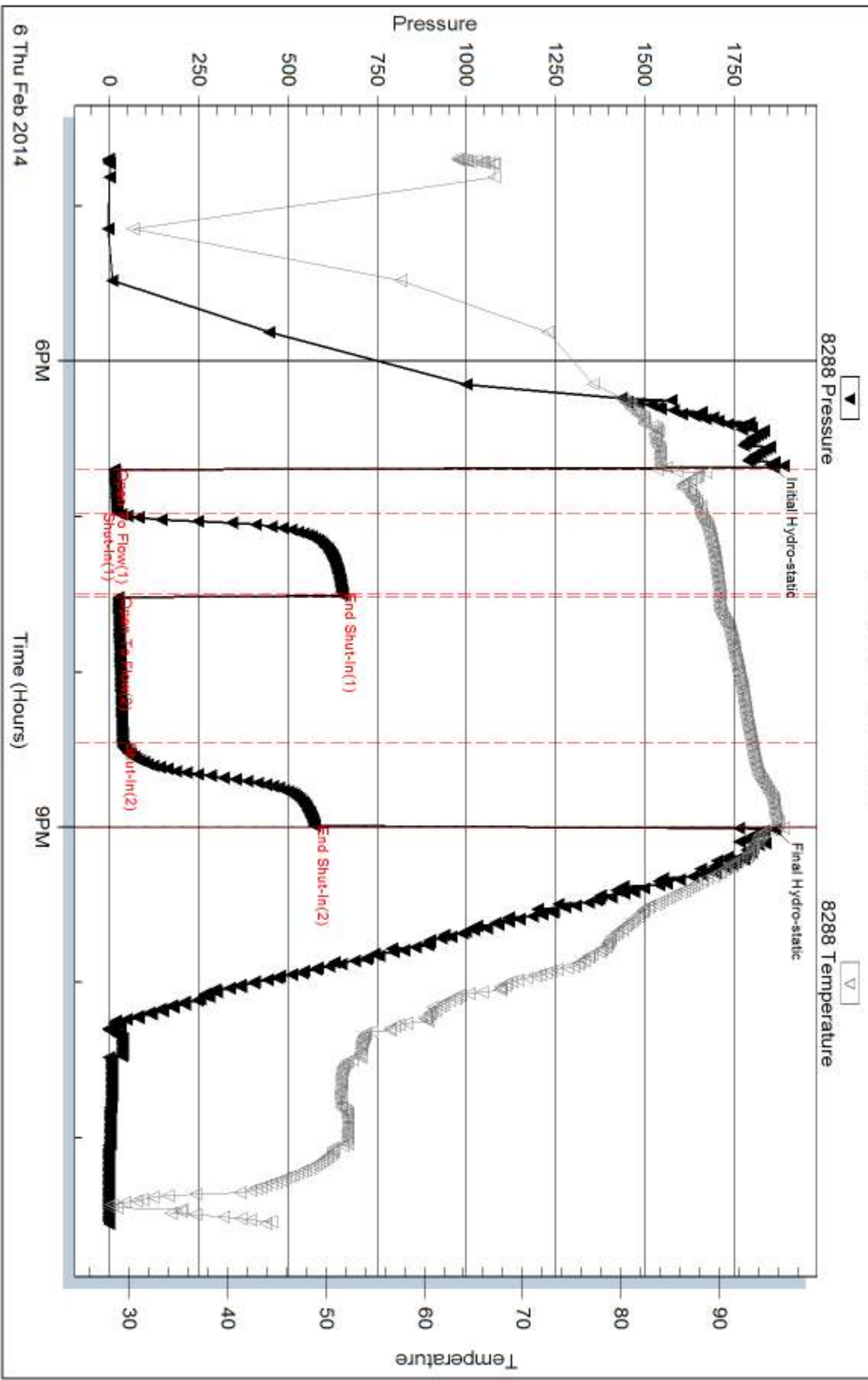
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW 0.25@ 70 deg

Pressure vs. Time



6 Thu Feb 2014

6PM

Time (Hours)

9PM

Pressure

Temperature

8288 Pressure

8288 Temperature

Initial Hydro-static

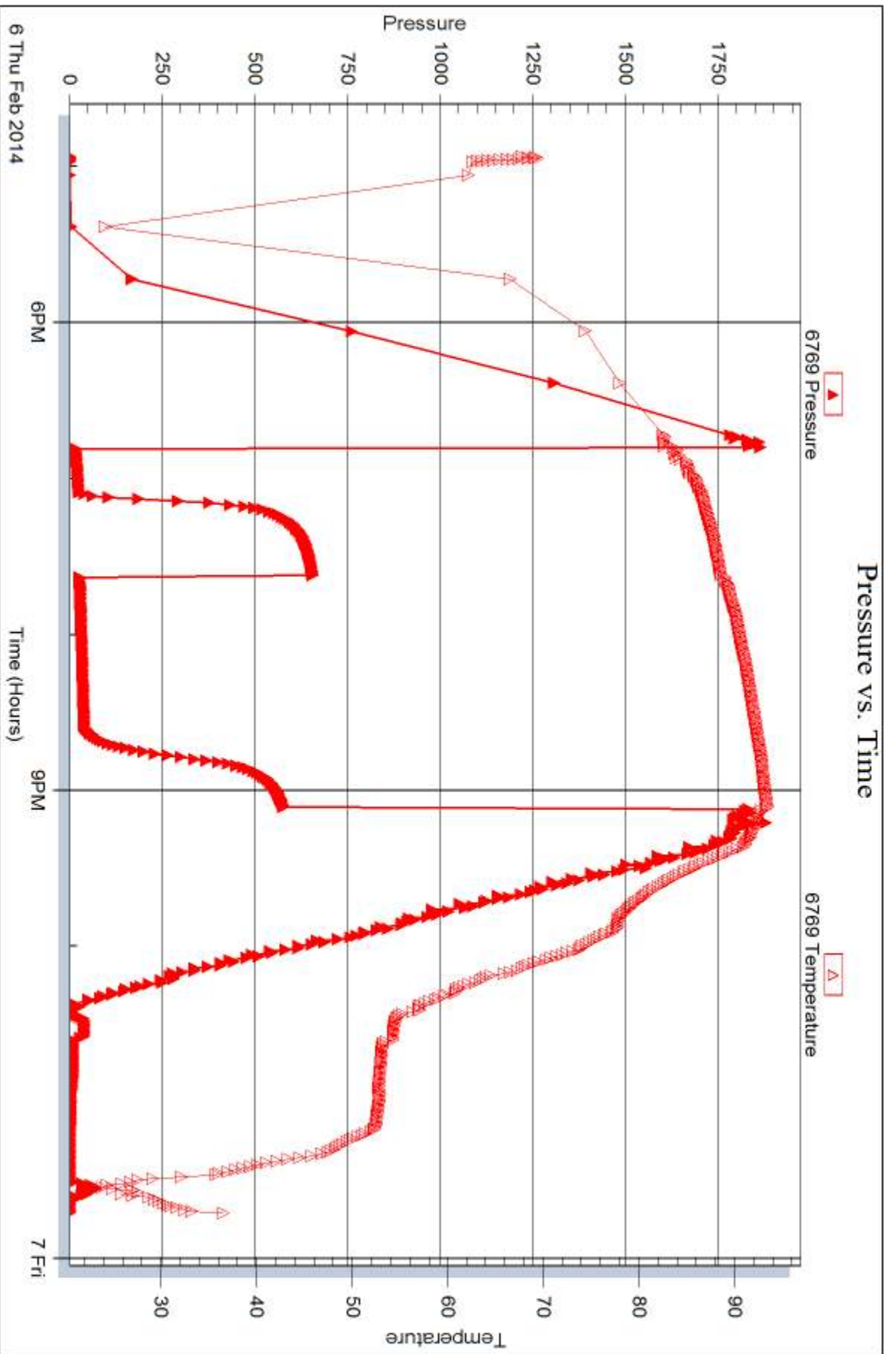
Final Hydro-static

End Shut-In(1)

End Shut-In(2)

Open To Flow(1)
Shut-In(1)

Open To Flow(2)
Shut-In(2)





DRILL STEM TEST REPORT

Prepared For: **RP Nixon Operations, Inc**

207 W. 12th
Hays, KS 67601

ATTN: Richard Bell

Theresa #7

27-12s-17w Ellis,KS

Start Date: 2014.02.07 @ 10:52:48

End Date: 2014.02.07 @ 18:13:18

Job Ticket #: 53678 DST #: 4

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

Printed: 2014.02.10 @ 15:24:18



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

RP Nixon Operations, Inc

27-12s-17w Ellis,KS

207 W. 12th
Hays, KS 67601

Theresa #7

Job Ticket: 53678

DST#: 4

ATTN: Richard Bell

Test Start: 2014.02.07 @ 10:52:48

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:54:08

Time Test Ended: 18:13:18

Test Type: Conventional Bottom Hole (Reset)

Tester: Stuart Stover

Unit No: 44

Interval: 3667.00 ft (KB) To 3675.00 ft (KB) (TVD)

Reference Elevations: 2119.00 ft (KB)

Total Depth: 3675.00 ft (KB) (TVD)

2114.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8288

Inside

Press@RunDepth: 53.39 psig @ 3668.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.07

End Date:

2014.02.07

Last Calib.:

2014.02.07

Start Time: 10:52:50

End Time:

18:13:18

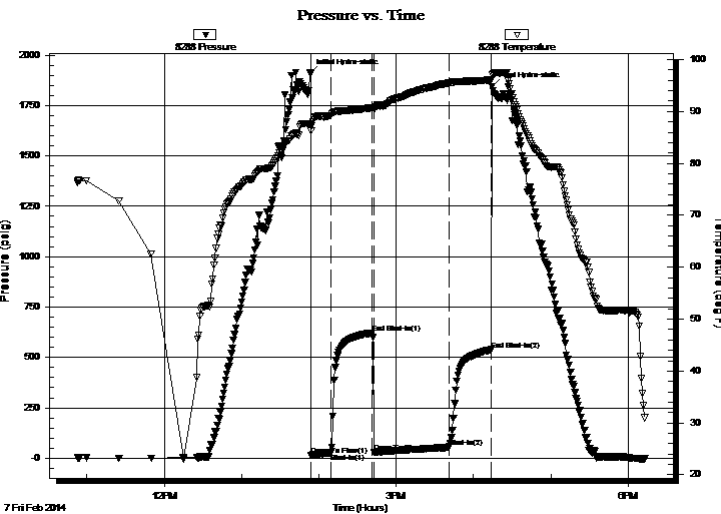
Time On Btm:

2014.02.07 @ 13:52:48

Time Off Btm:

2014.02.07 @ 16:14:27

TEST COMMENT: IFP: 1/4" blow increasing to 2" blow
FFP: Surface blow slow increase to 1 1/2" blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1911.00	87.65	Initial Hydro-static
2	15.37	86.31	Open To Flow (1)
17	26.64	89.23	Shut-In(1)
49	622.19	90.72	End Shut-In(1)
50	28.75	90.59	Open To Flow (2)
108	53.39	95.52	Shut-In(2)
141	538.60	96.06	End Shut-In(2)
142	1844.94	97.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Free oil	0.01
75.00	Sliocmw 2% oil 20% mud 78% w tr	0.66

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

RP Nixon Operations, Inc

27-12s-17w Ellis,KS

207 W. 12th
Hays, KS 67601

Theresa #7

Job Ticket: 53678

DST#: 4

ATTN: Richard Bell

Test Start: 2014.02.07 @ 10:52:48

Tool Information

Drill Pipe:	Length: 3212.00 ft	Diameter: 3.80 inches	Volume: 45.06 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 465.00 ft	Diameter: 3.00 inches	Volume: 4.07 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:	42000.00 lb
			<u>Total Volume: 49.13 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	36000.00 lb
Depth to Top Packer:	3667.00 ft			Final	36000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	8.00 ft				
Tool Length:	27.00 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			3653.00	
Hydraulic tool	5.00			3658.00	
Packer	5.00			3663.00	19.00 Bottom Of Top Packer
Packer	4.00			3667.00	
Stubb	1.00			3668.00	
Recorder	0.00	8288	Inside	3668.00	
Recorder	0.00	6769	Outside	3668.00	
Perforations	3.00			3671.00	
Bullnose	4.00			3675.00	8.00 Bottom Packers & Anchor
Total Tool Length:	27.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

RP Nixon Operations, Inc

27-12s-17w Ellis,KS

207 W. 12th
Hays, KS 67601

Theresa #7

Job Ticket: 53678

DST#: 4

ATTN: Richard Bell

Test Start: 2014.02.07 @ 10:52:48

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:

50000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
1.00	Free oil	0.009
75.00	Sluicmw 2% oil 20% mud 78% w tr	0.656

Total Length: 76.00 ft Total Volume: 0.665 bbf

Num Fluid Samples: 0

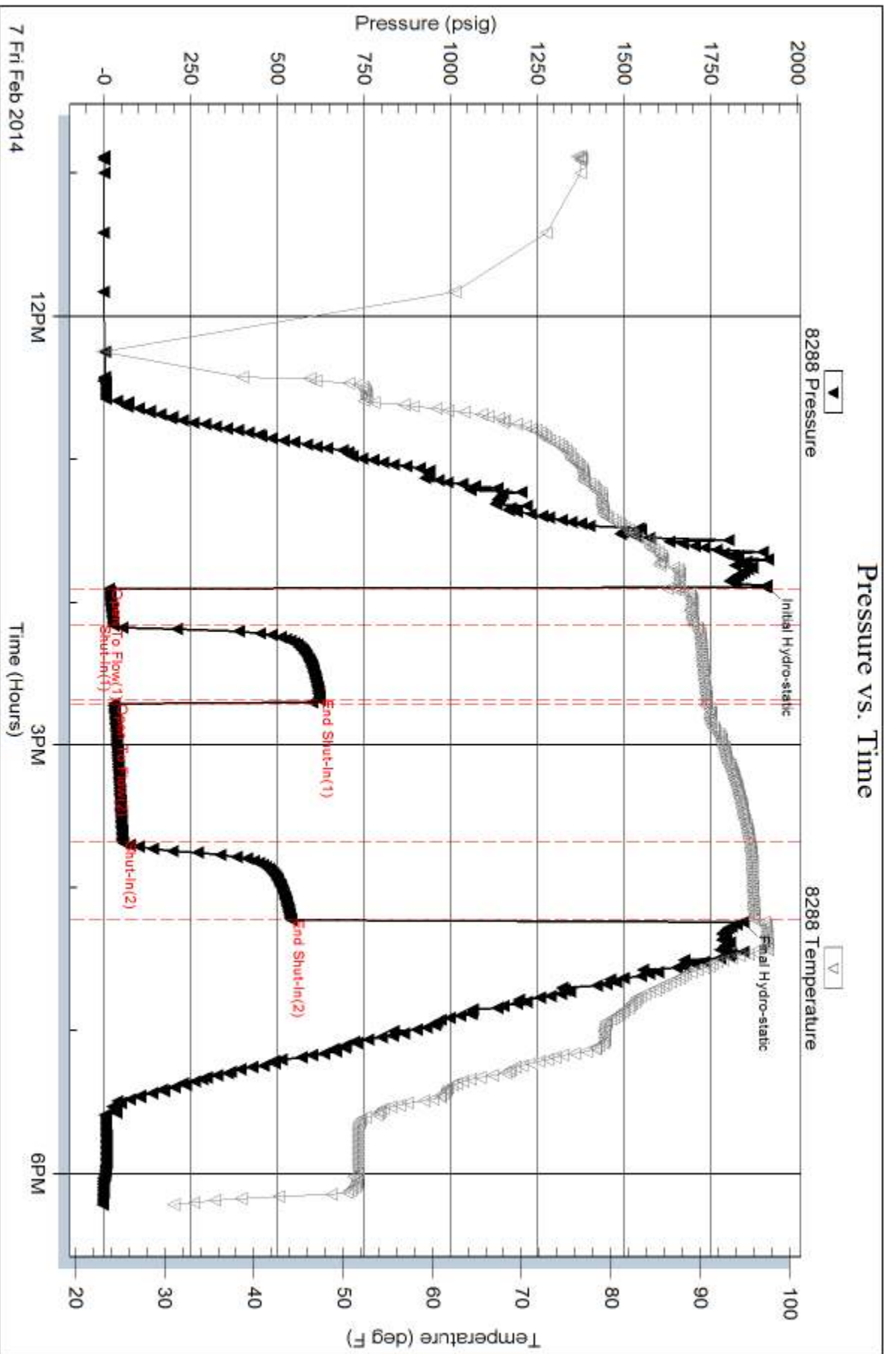
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW 0.2 @ 47 deg.

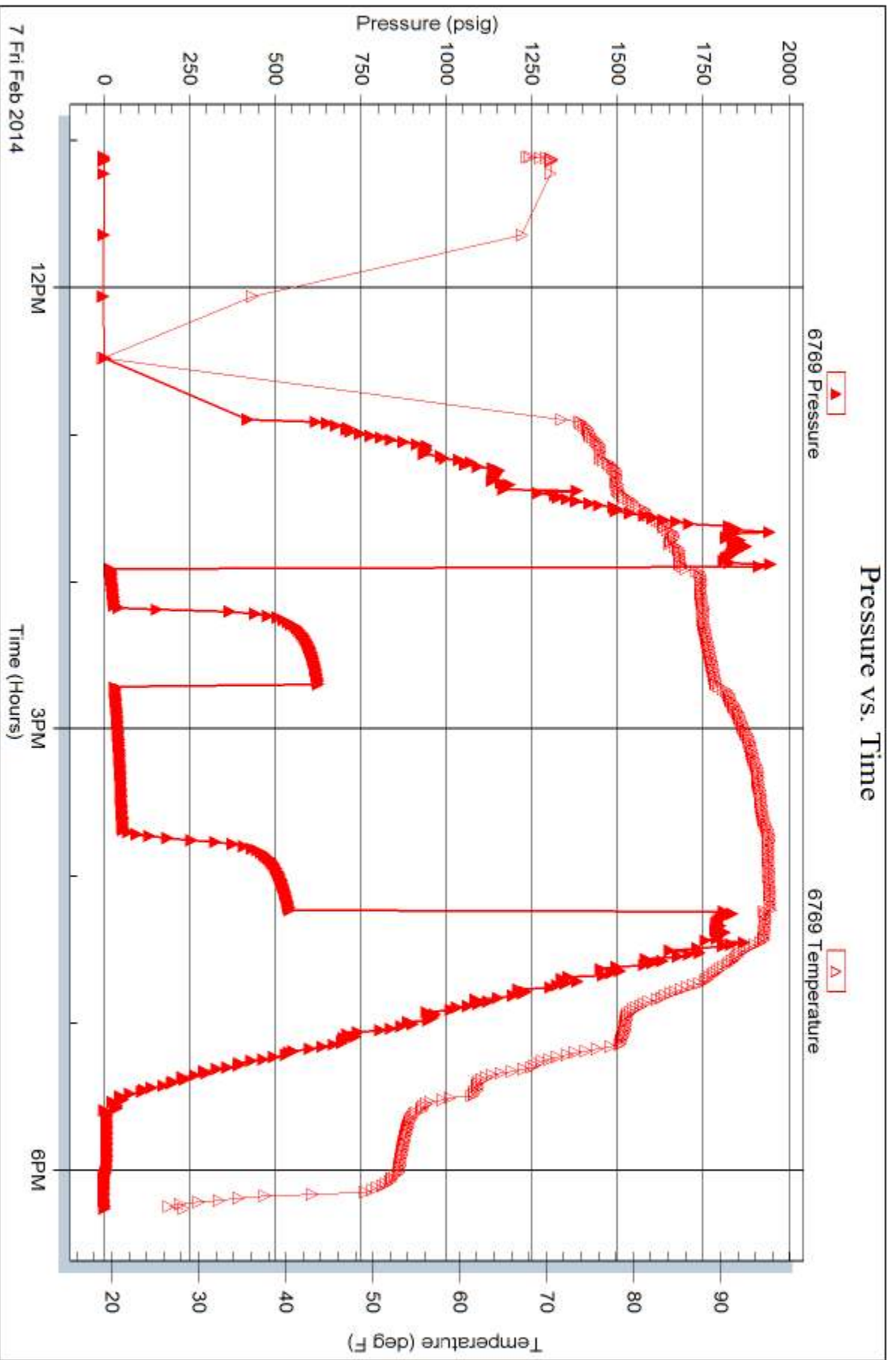


Serial #: 6769

Outside RP Nixon Operations, Inc

Theresa #7

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

2064/641-2
288

Test Ticket

NO. 53750

Well Name & No. Theresa # 7 Test No. 1 Date 2-5-2014
 Company R. P. Nixon Operations, Inc Elevation 2119 KB 2114 GL
 Address 207 W. 12th Hays, KS, 67601
 Co. Rep / Geo. Richard Bell Rig Sheilds Drly
 Location: Sec. 27 Twp. 12S Rge. 17W Co. ELLIS State KS

Interval Tested 3602 - 3648 Zone Tested Arbuckle
 Anchor Length 46 Drill Pipe Run 3147 Mud Wt. 9.0
 Top Packer Depth 3597 Drill Collars Run 0 Vis 56
 Bottom Packer Depth 3602 Wt. Pipe Run 465 WL 6.0
 Total Depth 3648 Chlorides 4200 ppm System LCM ~~4200~~

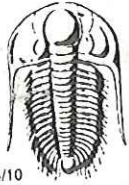
Blow Description IFP: Steady 1/4" Blow
FFP: No Blow, Flush Tool, No Blow

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

Rec Total 5' BHT 98 Gravity _____ API RW _____ @ _____ °F Chlorides 4200 ppm
 (A) Initial Hydrostatic 1859 Test 1150 T-On Location 915
 (B) First Initial Flow 15 Jars _____ T-Started 1230
 (C) First Final Flow 17 Safety Joint _____ T-Open 1455
 (D) Initial Shut-In 47 Circ Sub _____ T-Pulled 1640
 (E) Second Initial Flow 16 Hourly Standby _____ T-Out _____
 (F) Second Final Flow 21 Mileage 20 RT 31 Comments _____
 (G) Final Shut-In 27 Sampler _____
 (H) Final Hydrostatic 1816 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1181
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1181

Approved By Richard Bell Our Representative STUART STOUER

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53676

4/10

Well Name & No. Theresa # 7 Test No. 2 Date 2-6-2014
 Company R. P. Nixon Operation Inc Elevation 2119 KB 2114 GL
 Address 207 W. 12th HAYS KS 67601
 Co. Rep / Geo. Richard Bell Rig Shields # 2
 Location: Sec. 27 Twp. 12S Rge. 17W Co. ELLIS State KS

Interval Tested 3647-3658 Zone Tested Ar buckle
 Anchor Length 11 Drill Pipe Run 3192 Mud Wt. 9.0
 Top Packer Depth 3642 Drill Collars Run 0 Vis 56
 Bottom Packer Depth 3647 Wt. Pipe Run 465 WL 6.0
 Total Depth 3658 Chlorides 4200 ppm System LCM
 Blow Description IFF: Steady 1/4" Blow
FFP: No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Oil Cut MVD</u>	<u>2</u>	<u>20</u>	<u>88</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

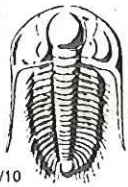
Rec Total 15' BHT 98° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1876 Test 1150
 (B) First Initial Flow 13 Jars _____
 (C) First Final Flow 14 Safety Joint _____
 (D) Initial Shut-In 415 Circ Sub _____
 (E) Second Initial Flow 15 Hourly Standby _____
 (F) Second Final Flow 17 Mileage 31
 (G) Final Shut-In 321 Sampler _____
 (H) Final Hydrostatic 1838 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 15
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

T-On Location 2:30
 T-Started 3:30
 T-Open 5:00
 T-Pulled 6:45
 T-Out _____
 Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1181
 MP/DST Disc't _____
 Sub Total 1181

Approved By Richard Bell Our Representative _____
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the _____



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53677

Well Name & No. Theresa # 7 Test No. 3 Date 2-6-2019
 Company R. P. Nixon Elevation 2119 KB 2114 GL
 Address 207 W 12th Hays, KS. 67601
 Co. Rep / Geo. Richard Bell Rig Shields # 2
 Location: Sec. 27 Twp. 12S Rge. 17W ~~17E~~ Co. Ellis State KS

Interval Tested 3658-3668 Zone Tested Arbuckle
 Anchor Length 10 Drill Pipe Run 3180 Mud Wt. 9.2
 Top Packer Depth 3653 Drill Collars Run 0 Vis 52
 Bottom Packer Depth 3658 Wt. Pipe Run 465 WL 6.8
 Total Depth 3668 Chlorides 4200 ppm System LCM
 Blow Description IFP: 1/4" blow increasing to 1 1/2"
FFP: Weak surface blow thru out

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Free oil</u>				
<u>60</u>	<u>Oil cut w try mud</u>		<u>10</u>	<u>10</u>	<u>80</u>

Rec Total 61 BHT 98 Gravity _____ API RW 0.25@ 70 °F Chlorides 50,000 ppm

(A) Initial Hydrostatic <u>1853</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1600</u>
(B) First Initial Flow <u>14</u>	<input type="checkbox"/> Jars _____	T-Started <u>1645</u>
(C) First Final Flow <u>22</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>1850</u>
(D) Initial Shut-In <u>652</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>2005</u>
(E) Second Initial Flow <u>25</u>	<input type="checkbox"/> Hourly Standby _____	T-Out _____
(F) Second Final Flow <u>37</u>	<input type="checkbox"/> Mileage <u>31</u>	Comments _____
(G) Final Shut-In <u>574</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1867</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1181</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1181</u>	

Approved By Richard Bell Our Representative Stuart Stover

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53678

Well Name & No. Theresa #7 Test No. 4 Date 2-7-2014
 Company R. P. Nixon Elevation 2119 KB 2114 GL
 Address 207 W 12th Hays, KS, 67601
 Co. Rep / Geo. Richard Bell Rig Sheilds #2
 Location: Sec. 27 Twp. 12S Rge. 17W Co. Ellis State K5

Interval Tested 3467 - 3675 Zone Tested Arbuckle
 Anchor Length 8' Drill Pipe Run 3212' Mud Wt. 9.3
 Top Packer Depth 3642 Drill Collars Run 0 Vis 55
 Bottom Packer Depth 3667 Wt. Pipe Run 465' WL 6.8
 Total Depth 3675 Chlorides 4200 ppm System LCM
 Blow Description FFP-1/4" blow increasing to 2" blow
FFP = Surface blow slow increase to 1 1/2" blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Free oil</u>				
<u>75</u>	<u>Shoocmw</u>		<u>2</u>	<u>78</u>	<u>20</u>

Rec Total 76 BHT 98° Gravity _____ API RW 0.2 @ 47° F Chlorides 5000 ppm

(A) Initial Hydrostatic <u>1911</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>10:00</u>
(B) First Initial Flow <u>15</u>	<input type="checkbox"/> Jars _____	T-Started <u>11:00</u>
(C) First Final Flow <u>27</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>1:55</u>
(D) Initial Shut-In <u>422</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>4:10</u>
(E) Second Initial Flow <u>29</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>6:00</u>
(F) Second Final Flow <u>53</u>	<input type="checkbox"/> Mileage <u>31</u>	Comments _____
(G) Final Shut-In <u>539</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1845</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1181</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1181</u>	

Approved By Richard Bell Our Representative Stuart Stover

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