



KANSAS CORPORATION COMMISSION 1161189
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

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



1161189

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

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

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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

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
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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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Pickrell Drilling Company, Inc.
Well Name	Petty 'E' 3
Doc ID	1161189

Tops

Name	Top	Datum
T/Anhydrite	1760	(+ 587)
B/Anhydrite	1804	(+ 543)
Heebner	3654	(-1307)
Lansing	3688	(-1341)
Stark	3887	(-1540)
B/Kansas City	3932	(-1585)
Pawnee	4032	(-1685)
Arbuckle	4143	(-1796)



TICKET

Nº 24630

PAGE 1 OF 2

CHARGE TO: **PICKRELL DRUG Co., Inc**
 ADDRESS:
 CITY, STATE, ZIP CODE:

WELL/PROJECT NO. #3
 LEASE: **PETTY "E"**
 COUNTY/PARISH: **TREGO**
 STATE: **Ks**
 TICKET TYPE: SERVICE SALES
 CONTRACTOR: **Co Tools**
 RIG NAME/NO.:
 WELL TYPE: **OIL**
 JOB PURPOSE: **4 1/2" 2-STAGE LONGSTRIK**
 DEVELOPMENT
 INVOICE INSTRUCTIONS:
 DELIVERED TO: **LOCATION**
 WELL PERMIT NO.:
 WELL LOCATION: **Ogawa, Ks - S.S. 2, E. 1, S. 1**

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT							
575		1								
579		1		MILEAGE #112	30	mi			6.00	180.00
221		1		PUMP CHANGE - 2 STAGE	1	NOS	3805	FT	2000.00	2000.00
281		1		BLEND KCL	4	gal			25.00	100.00
402		1		MUD FLUSH	500	gal			1.25	625.00
403		1		CENTRALIZERS	6	EA	4 1/2"		65.00	390.00
407		1		CEMENT BARRIERS	2	EA			265.00	530.00
408		1		INSERT FLOAT SHOE w/AUTO FILL	1	EA			325.00	325.00
417		1		DV TOOL - PUG SET - TORJ #49	1	EA	1739	FT	2800.00	2800.00
		1		DV WATCH DOWN PUG - BAFFLE	1	EA			200.00	200.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED: **9-14-13** TIME SIGNED: **1000** A.M. P.M.

APPROVAL: *[Signature]*

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.

REMIT PAYMENT TO:
SWIFT SERVICES, INC.
P.O. BOX 466
NESS CITY, KS 67560
785-798-2300

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
 WE UNDERSTOOD AND MET YOUR NEEDS?
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?
 ARE YOU SATISFIED WITH OUR SERVICE?
 YES NO

AGREE UN-DECIDED DIS-AGREE

PAGE TOTAL #1: **7150.00**

Subtotal: **10060.40**
 TAX: **17,210.40**
 Total: **1,018.60**

TOTAL: **18,229.00**

Thank You



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 24630

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		TIME	DESCRIPTION	WELL			UNIT PRICE	AMOUNT
		LOC	ACCT			DF	QTY.	UM		
325		1			STANDARD CEMENT	75	SKS		14.00	1050.00
326		1			60/40 POZINDEX (290 GEL)	125	SKS		11.00	1375.00
330		1			SWEET MULT-DENSITY STANDARD	300	SKS		17.00	5100.00
276		1			FLOCEL	75	UBS		2.00	150.00
279		1			BENTONITE GEL	2	SKS	200	UBS	N/C
283		1			SALT	300	UBS		20	60.00
285		1			CFR-1	100	UBS		4.00	400.00
290		1			D-ADR	5	GAL		42.00	210.00
581		1			SERVICE CHARGE					
583		1			MILEAGE CHARGE					
						CUBIC FEET				
						TON MILES				
						TOTAL WEIGHT		500	2.00	1000.00
						LOADED MILES		715.40	1.00	715.40
						TOTAL				

CONTINUATION TOTAL 10060.40

CUSTOMER
MCKENNA DRILG. Co. Inc.

WELL NO.
#3

LEASE
PETTY "E"

JOB TYPE
4 1/2" 2-STAGE LGST.

TICKET NO.
24630

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1000							ON LOCATION
	1030							START 4 1/2" CASING IN WELL
								TD-4165 SET = 3805
								TP-3805 4 1/2" 10.5
								SJ-42'
								CENTRALIZERS - 1, 2, 3, 4, 5, 48
								CMT BSSETS - 1, 49
								DV TOOL = 1739' TOP JT # 49
	1200							DROP BALL - CIRCULATE
	1235	6	12		✓	350		PUMP 500 GAL MUD FLUSH
	1237	6	20		✓	350		PUMP 20 BBL'S KCL - FLUSH
	1248	4 1/2	29		✓	200		MAX CEMENT - LD - 125 SPS P02 = 13.6 PP6
		4 1/2	16		✓	100		TL - 75 SPS SMD/SALT = 15.8 PP6
	1258							WASH OUT PUMP - LINES
	1258							RELEASE 1ST STAGE LATCH DOWN PLUG
	1300	6 1/2	0		✓			DISPLACE PLUG
	1310	5	59.8			1500		PLUG DOWN - PSE UP LATCH IN PLUG
	1312					OK		RELEASE PSE - HELD
	1315							DROP DV OPENING PLUG
	1330				✓	1200		OPEN DV - CIRCULATE
	1345	6	20		✓	250		PUMP 20 BBL'S KCL - FLUSH
	1350		7-5					PLUG RH (30 SPS) MH (20 SPS)
	1355	6	140		✓	150		MAX CEMENT - 250 SPS SMD = 11.2 PP6
	1425							WASH OUT PUMP - LINES
	1425							RELEASE DV CLOSING PLUG
	1430	6	0		✓			DISPLACE PLUG
	1435	5	27.6			1500		PLUG DOWN - PSE UP CLOSE DV TOOL
	1438					OK		RELEASE PSE - HELD
								CIRCULATED 25 SPS CEMENT TO POT
								WASH TRUCK
	1530							JOB COMPLETE

THANK YOU
WAYNE, JOSH, BRAD, DAVID, JOHN J.

SWIFT



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
9/14/2013	24630

BILL TO
Pickrell Drilling Co. Inc. PO Box 375 Ness City, KS 67560

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#3	Petty E	Trego	Company Tools	Oil	Development	4-1/2" Two-Stage...	Wayne
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				30	Miles	6.00	180.00
579D	Pump Charge - Two-Stage - 3805 Feet				1	Job	2,000.00	2,000.00
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
402-4	4 1/2" Centralizer				6	Each	65.00	390.00T
403-4	4 1/2" Cement Basket				2	Each	265.00	530.00T
407-4	4 1/2" Insert Float Shoe With Auto Fill				1	Each	325.00	325.00T
408-4	4 1/2" D.V. Tool & Plug Set - Top Joint #49 - 1739 Feet				1	Each	2,800.00	2,800.00T
417-4	4 1/2" D.V. Latch Down Plug & Baffle				1	Each	200.00	200.00T
325	Standard Cement				75	Sacks	14.00	1,050.00T
326	60/40 Pozmix (2% Gel)				125	Sacks	11.00	1,375.00T
330	Swift Multi-Density Standard (MIDCON II)				300	Sacks	17.00	5,100.00T
276	Flocele				75	Lb(s)	2.00	150.00T
283	Salt				300	Lb(s)	0.20	60.00T
285	CFR-1				100	Lb(s)	4.00	400.00T
290	D-Air				5	Gallon(s)	42.00	210.00T
581D	Service Charge Cement				500	Sacks	2.00	1,000.00
583D	Drayage				715.4	Ton Miles	1.00	715.40
	Subtotal							17,210.40
	Sales Tax Trego County						7.65%	1,018.60

Cement being stored

7

We Appreciate Your Business!	Total	\$18,229.00
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[Handwritten signature]

ALLIED OIL & GAS SERVICES, LLC 061768

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Great Bend

DATE <u>9-5-13</u>	SEC <u>30</u>	TWP <u>13</u>	RANGE <u>21</u>	CALLED OUT	ON LOCATION	JOB START <u>1:30 AM</u>	JOB FINISH <u>2 AM</u>
LEASE <u>Petty E</u>	WELL # <u>3</u>	LOCATION <u>Brownell North Past Lake</u>			COUNTY <u>rego</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>				To Prod Z E 15 SE into			

CONTRACTOR <u>Pickrell</u>	OWNER _____
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/2</u>	T.D. _____
CASING SIZE <u>8 5/8</u>	DEPTH <u>221.77</u>
TUBING SIZE _____	DEPTH _____
DRILL PIPE <u>4 1/2</u>	DEPTH _____
TOOL _____	DEPTH _____
PRES. MAX _____	MINIMUM _____
MEAS. LINE _____	SHOE JOINT _____
CEMENT LEFT IN CSG. <u>15 FT</u>	
PERFS. _____	
DISPLACEMENT <u>13.17 bbls</u>	

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Josh Lewis</u>
# <u>398</u>	HELPER <u>Avik Scottborn</u>
BULK TRUCK	
# <u>344-170</u>	DRIVER <u>Kevin Wichaus</u>
BULK TRUCK	
# _____	DRIVER _____

CEMENT	AMOUNT ORDERED <u>150 SKS class A 3 1/2 gel</u>	
COMMON	<u>150</u>	@ <u>17.90</u> <u>2,685.00</u>
POZMIX		@ _____
GEL	<u>3</u>	@ <u>23.40</u> <u>70.20</u>
CHLORIDE	<u>5</u>	@ <u>64.00</u> <u>320.00</u>
ASC		@ _____
		@ _____
		@ _____
		@ _____
		@ _____
		@ _____
		@ _____
		@ _____
		@ _____
		@ _____
		@ _____
HANDLING	<u>162.09</u>	@ <u>2.48</u> <u>401.98</u>
MILEAGE	<u>7.4 x 40 x</u>	@ <u>2.60</u> <u>769.60</u>
		TOTAL <u>4,246.78</u>

REMARKS:
 On location - Rig up - had safety meeting
 Run 8 5/8 casing - Break circulation weight mud
 Hook up cement pump, pressure test 500 psi
 Pump 5 bbls ahead
 mix 150 SKS class A 3 1/2 gel
 Displace 13.17 bbls from well and shut in
 Cement did circulate 11:45 AM
 Rig down

CHARGE TO: Pickrell Drilling

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB _____	
PUMP TRUCK CHARGE <u>1512.35</u>	
EXTRA FOOTAGE _____	@ _____
MILEAGE <u>Hum 40</u>	@ <u>7.70</u> <u>308.00</u>
MANIFOLD _____	@ _____
<u>Hum 40</u>	@ <u>4.40</u> <u>176.00</u>
	@ _____
TOTAL <u>1,996.35</u>	

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

PLUG & FLOAT EQUIPMENT

_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
TOTAL _____	

PRINTED NAME X Carl Jessedy

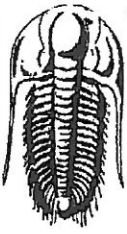
SIGNATURE X [Signature]

SALES TAX (If Any) _____

TOTAL CHARGES 6,243.93

DISCOUNT 1,248.60 IF PAID IN 30 DAYS

4,994.42



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Pickrell Drilling Company, Inc.

S30-13-21w Trego, KS

100 S. Main
Suite 505
Wichita, KS 76202
ATTN: Jerry Smith

#3 Petty 'E'

Job Ticket: 52934

DST#: 1

Test Start: 2013.09.10 @ 00:30:00

GENERAL INFORMATION:

Formation: **Lansing 'A'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:22:10
Time Test Ended: 08:34:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Chuck Smith
Unit No: 62

Interval: **3683.00 ft (KB) To 3708.00 ft (KB) (TVD)**
Total Depth: 3708.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2347.00 ft (KB)
2337.00 ft (CF)
KB to GR/CF: 10.00 ft

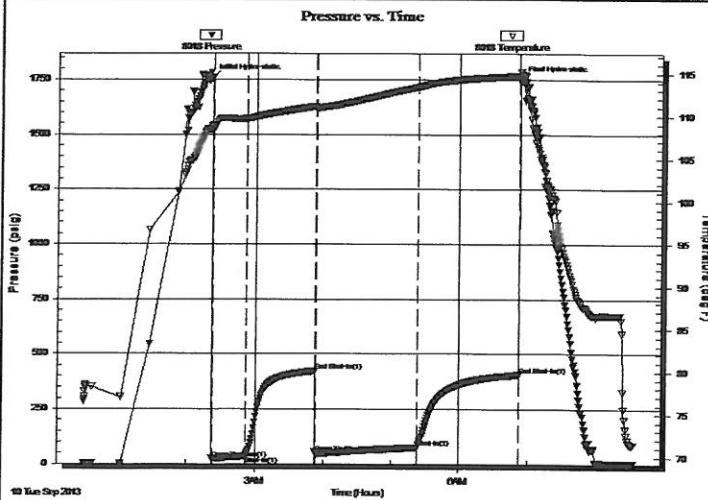
Serial #: 8018

Inside

Press@RunDepth: 74.71 psig @ 3685.00 ft (KB)
Start Date: 2013.09.10 End Date: 2013.09.10
Start Time: 00:30:02 End Time: 08:34:00

Capacity: 8000.00 psig
Last Calib.: 2013.09.10
Time On Btm: 2013.09.10 @ 02:20:50
Time Off Btm: 2013.09.10 @ 06:53:39

TEST COMMENT: B.O.B. @ 28 min.
3/4" Return.
B.O.B. @ 31 min.
1" Return died @ 60 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1754.91	108.76	Initial Hydro-static
2	22.97	108.28	Open To Flow (1)
31	34.58	109.69	Shut-In(1)
92	422.90	111.15	End Shut-In(1)
93	45.90	110.94	Open To Flow (2)
182	74.71	113.42	Shut-In(2)
272	407.10	114.75	End Shut-In(2)
273	1749.56	115.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCO 10g 40m 50o	0.30
110.00	GO 20g 80o	0.76
0.00	180' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Company, Inc.

S30-13-21w Trego, KS

100 S. Main
Suite 505
Wichita, KS 76202
ATTN: Jerry Smith

#3 Petty 'E'

Job Ticket: 52934 DST#: 1
Test Start: 2013.09.10 @ 00:30:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 27 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 67.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.98 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 2300.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GMCO 10g 40m 50o	0.295
110.00	GO 20g 80o	0.760
0.00	180' GIP	0.000

Total Length: 170.00 ft Total Volume: 1.055 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: API: 29 @ 80 Degrees F = 27.

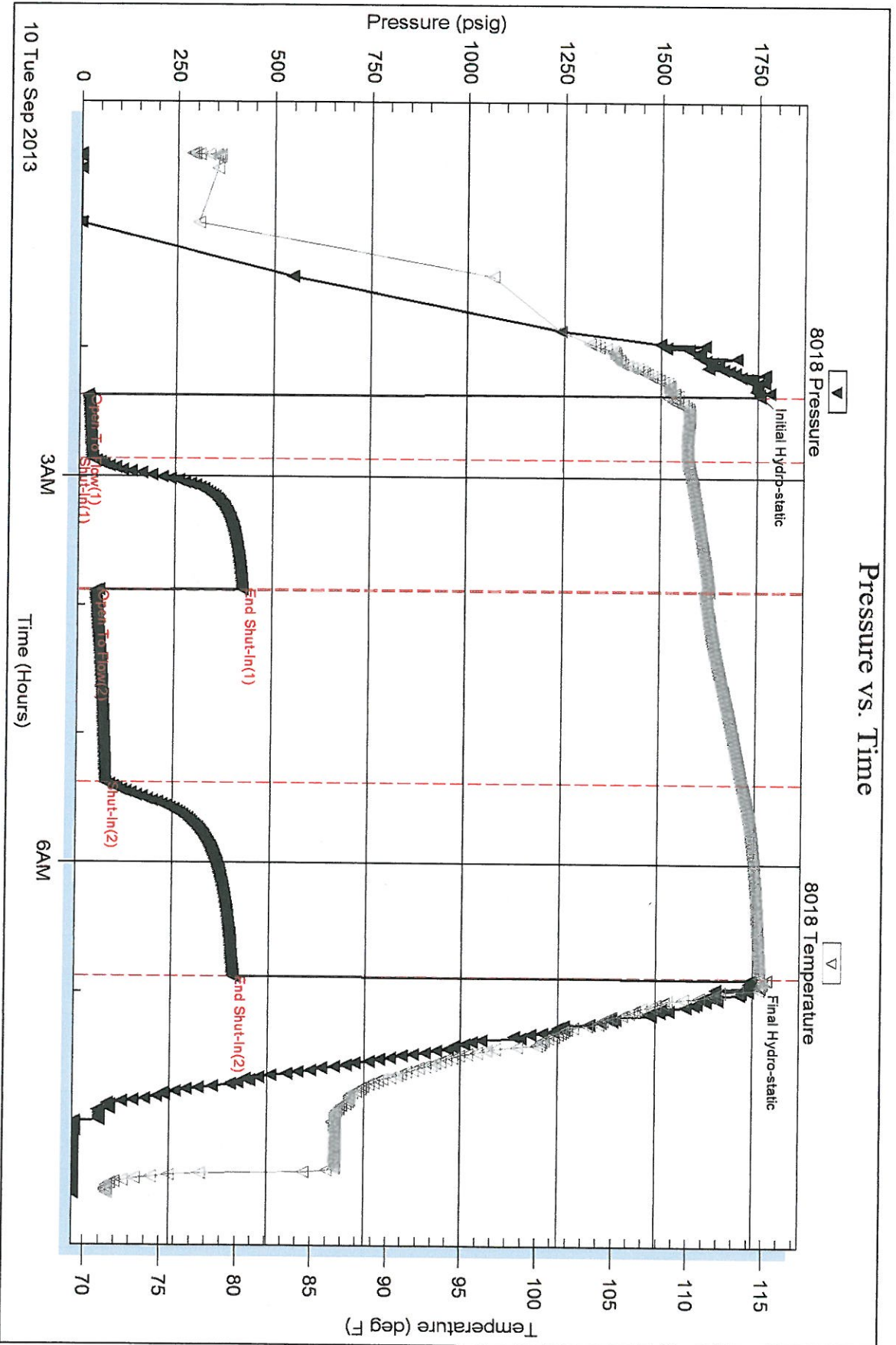
Serial #: 8018

Inside

Pickrell Drilling Company, Inc.

#3 Petty E

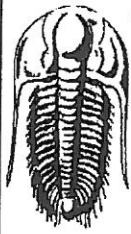
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 52934

Printed: 2013.09.10 @ 09:28:29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Pickrell Drilling Company, Inc.

S30-13-21w Trego, KS

100 S. Main
Suite 505
Wichita, KS 76202
ATTN: Jerry Smith

#3 Petty 'E'

Job Ticket: 52935 DST#: 2

Test Start: 2013.09.10 @ 16:31:00

GENERAL INFORMATION:

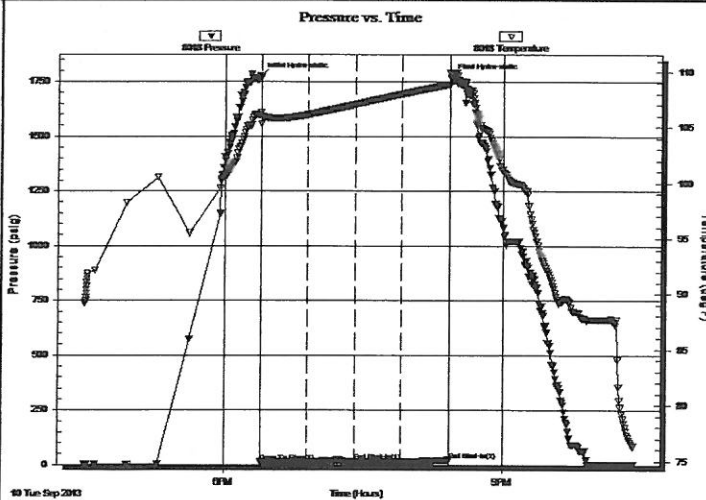
Formation: **Lansing 'B'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:24:50
 Time Test Ended: 22:24:50
 Interval: **3710.00 ft (KB) To 3740.00 ft (KB) (TVD)**
 Total Depth: 3740.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Smith
 Unit No: 62
 Reference Elevations: 2347.00 ft (KB)
 2337.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8018

Inside

Press@RunDepth: 15.36 psig @ 3712.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.09.10 End Date: 2013.09.10 Last Calib.: 2013.09.10
 Start Time: 16:30:03 End Time: 22:23:51 Time On Btm: 2013.09.10 @ 18:22:41
 Time Off Btm: 2013.09.10 @ 20:26:21

TEST COMMENT: Surface blow died @ 25 min.
 No return.
 No blow.
 No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1773.76	106.14	Initial Hydro-static
2	14.37	105.27	Open To Flow (1)
31	15.06	106.13	Shut-In(1)
62	16.65	107.06	End Shut-In(1)
62	15.02	107.06	Open To Flow (2)
92	15.36	108.00	Shut-In(2)
123	22.67	108.89	End Shut-In(2)
124	1766.44	109.81	Final Hydro-static

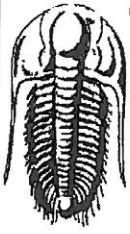
Recovery

Length (ft)	Description	Volume (bbl)
2.00	OCM 10o 90m	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Company, Inc.

S30-13-21w Trego, KS

100 S. Main
Suite 505
Wichita, KS 76202
ATTN: Jerry Smith

#3 Petty 'E'

Job Ticket: 52935

DST#: 2

Test Start: 2013.09.10 @ 16:31:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 6.80 in³

Resistivity: ohm.m

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	OCM 10o 90m	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

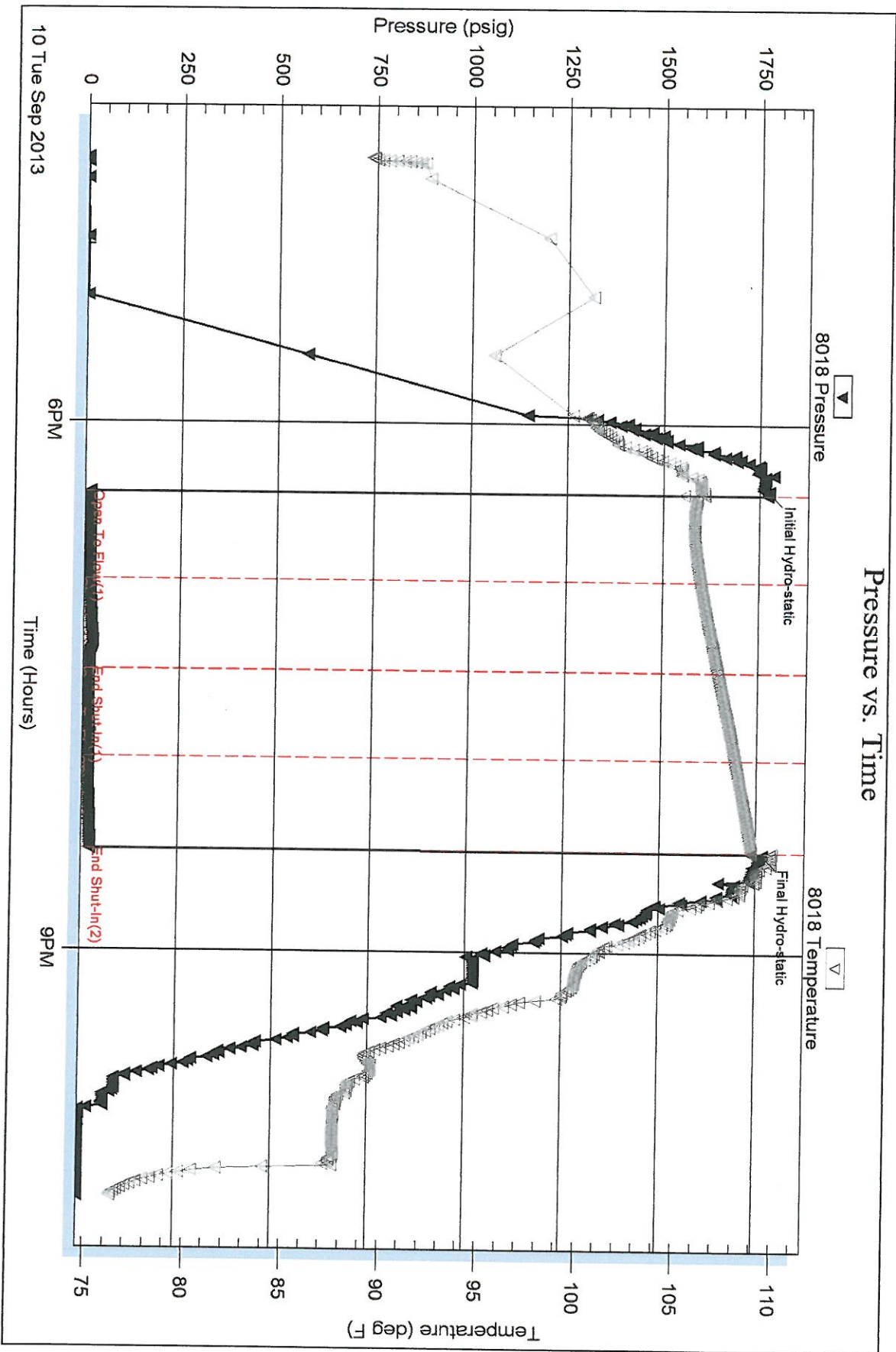
Serial #: 8018

Inside

Pickrell Drilling Company, Inc.

#3 Petty E

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 52935

Printed: 2013.09.11 @ 07:42:50



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Pickrell Drilling Company, Inc.

S30-13-21w Trego, KS

100 S. Main
Suite 505
Wichita, KS 76202
ATTN: Jerry Smith

#3 Petty 'E'

Job Ticket: 52936

DST#: 3

Test Start: 2013.09.11 @ 07:40:00

GENERAL INFORMATION:

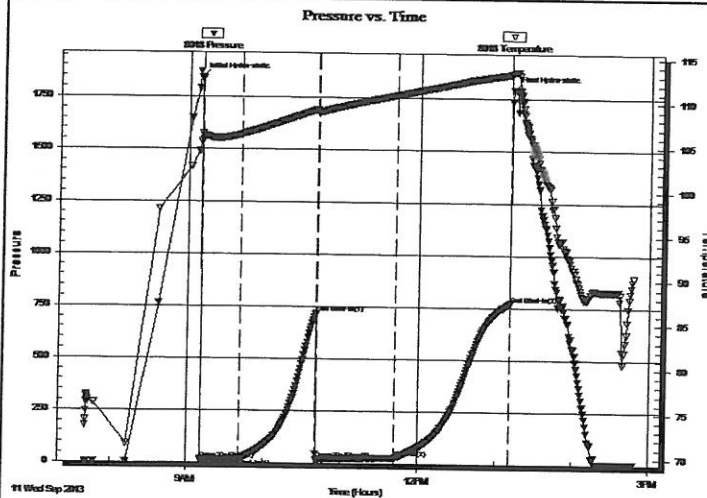
Formation: **Lansing 'D'**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 09:10:20
 Time Test Ended: 14:48:00
 Interval: **3760.00 ft (KB) To 3772.00 ft (KB) (TVD)**
 Total Depth: **3772.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole (Reset)**
 Tester: **Chuck Smith**
 Unit No: **62**
 Reference Elevations: **2347.00 ft (KB)**
2337.00 ft (CF)
 KB to GR/CF: **10.00 ft**

Serial #: 8018

Inside

Press@RunDepth: 26.39 psig @ 3762.00 ft (KB)
 Start Date: 2013.09.11 End Date: 2013.09.11
 Start Time: 07:40:02 End Time: 14:48:00
 Capacity: 8000.00 psig
 Last Calib.: 2013.09.11
 Time On Btm: 2013.09.11 @ 09:09:20
 Time Off Btm: 2013.09.11 @ 13:12:20

TEST COMMENT: 2 1/2" Blow.
No return.
8 1/2" Blow.
No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1840.75	105.55	Initial Hydro-static
1	14.11	105.71	Open To Flow (1)
32	18.34	106.35	Shut-In(1)
92	717.23	109.17	End Shut-In(1)
92	16.81	108.84	Open To Flow (2)
153	26.39	110.84	Shut-In(2)
242	770.05	113.26	End Shut-In(2)
243	1790.98	113.44	Final Hydro-static

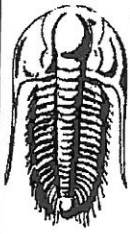
Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 45o 55m	0.07
0.00	165' Weak GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Company, Inc.

S30-13-21w Trego, KS

100 S. Main
Suite 505
Wichita, KS 76202
ATTN: Jerry Smith

#3 Petty 'E'

Job Ticket: 52936

DST#: 3

Test Start: 2013.09.11 @ 07:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 62.00 sec/qt

Water Loss: 6.80 in³

Resistivity: ohm.m

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OCM 45o 55m	0.074
0.00	165' Weak GIP	0.000

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

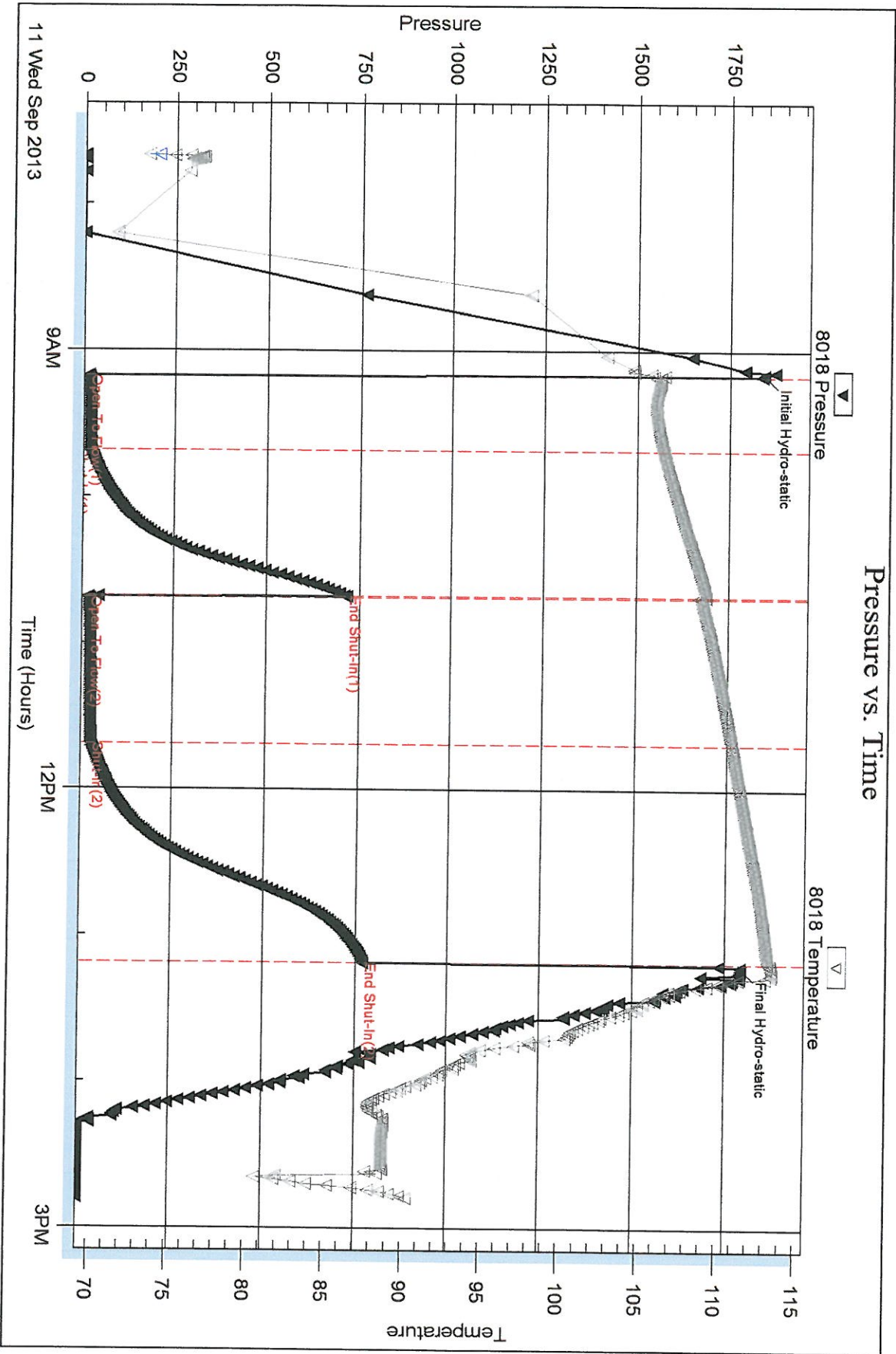
Serial #: 8018

Inside

Pickrell Drilling Company, Inc.

#3 Petty E

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 52936

Printed: 2013.09.11 @ 15:30:42