



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: _____



1155659

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
---	---

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
-----------------------------------	-----------	---------	-------------	---------------	---------

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 (Specify) _____	PRODUCTION INTERVAL: _____ _____
---	---	--

Form	ACO1 - Well Completion
Operator	Central Operating, Inc.
Well Name	Raymond/Parsons 4
Doc ID	1155659

Tops

Name	Top	Datum
Anhydrite	1788	
Heebner	3584	-1256
Lansing	3620	-1292
Stark Shale	3857	-1529
BKC	3918	-1590
Marmaton	3928	-1600
Pawnee	4054	-1726
Ft. Scott	4115	-1787
Cherokee	4141	-1813
Mississippi	4192	-1864



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

Invoice

DATE	INVOICE #
05/13/2013	21255

BILL TO Central Operating 1600 Broadway, Suite 1050 Denver, CO 80202

- Rotating
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 90	7-1	Raymond-Par...	Gove	Mudlin Drilling #21	Oil	Development	5 1/2" Two Stag...	Wayne
PRICE REF.	DESCRIPTION				QTY	UOM	UNIT PRICE	AMOUNT
570N	1-61 Stage - 1 Stage				50	Miles	4.00	200.00
570D	Dump Charge - Two Stage - 405 Cost				1	Ton	2,000.00	2,000.00
441	1 Jambolt KCF (Clayfix)				4	Quadrant(s)	25.00	100.00
281	MUD CONCRETE				100	Quadrant(s)	1.00	100.00
403-5	5 1/2" Cement Docket				3	Each	285.00	855.00
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	375.00	375.00
408-5	5 1/2" D.V. Tool & Plug Set - Top Joint #61 - 1750 Feet				1	Each	3,300.00	3,300.00
417-5	5 1/2" D.V. Latch Down Plug & Baffle				1	Each	200.00	200.00
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00
325	Standard Cement				175	Sacks	14.00	2,450.00
330	Swift Multi-Density Standard (MIDCON II)				250	Sacks	17.00	4,250.00
276	Flocele				100	Lb(s)	2.00	200.00
283	Salt				900	Lb(s)	0.20	180.00
284	Calseal				8	Sack(s)	35.00	280.00
290	D-Air				5	Gallon(s)	42.00	210.00
286	Halad-1 (Halad 9)				100	Lb(s)	8.00	800.00
581D	Service Charge Cement				425	Sacks	2.00	850.00
583D	Drayage				1,081.25	Ton Miles	1.00	1,081.25
				R/P #4				
				30-04				
				JRG				
Subtotal								18,956.25
Sales Tax Gove County							8.05%	1,185.36

We Appreciate Your Business! **Total** \$20,141.61



CHARGE TO: **Central Operating**
 ADDRESS:
 CITY, STATE ZIP CODE:

TICKET
 No 24822
 PAGE 1 OF 2

LEASE COPY #1
 WELPROJCT NO: #4
 LEASE CONTRACTOR: **Paymond - Paymons**
 TICKET TYPE: **H** SERVICE
 CONTRACTOR: **Murphy Bros # 21**
 RIG NAME: **GOUE**
 WEL TYPE: **Oil**
 WEL CATEGORY: **Development**
 JOB PURPOSE: **5 1/2" 2-Stage Leakstack**
 INVOICE INSTRUCTIONS: **Development**

TIME	SECONDARY REFERENCE	LOC	ACCT	DF	DESCRIPTION	QTY	UM	QTY	UM	UNIT PRICE	AMOUNT
4:00					MILEAGE # 115	50	MT			6.00	300.00
4:00					Pump Group Two - Stage	1	HR	42.95	HR	2000.00	2000.00
4:00					Additional Overhaul Hours	0	HR			200.00	
4:00					Kit and Wc	4	EA			25.00	100.00
4:00					MUDFLUSH	500	GA			1.25	625.00
4:00					CEMENT PIPES	10	EA		5 1/2"	70.00	700.00
4:00					CEMENT BASKETS	3	EA			285.00	855.00
4:00					TRUSSER FLOAT SHADE w/ AUTO FILL	1	EA			375.00	375.00
4:00					DN TOOL & PUG SET TORST * 61	1	EA	17.50	HR	3300.00	3300.00
4:00					DN LATCH BOWL PUMP - PARTS	1	EA			200.00	200.00
4:00					ROTORIC HEAD RENTAL	1	HR			200.00	200.00

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

LISTE SA-CUSTOMER OR CUSTOMER'S AGENT PRIOR TO SWIFT SERVICES, INC. P.O. BOX 466 NESS CITY, KS 67560 785-798-2300

DATE SIGNED: 8-9-13 TIME SIGNED: 0330

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

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

PAGE TOTAL #1 9655.00
 #2 10301.25
 sub total 18,956.25
 TAX 1,185.36
 TOTAL 20,141.61

SUBMITTED BY: **Wayne Johnson** APPROVAL: _____
 CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby agrees to the terms and conditions of service listed on this invoice.
 Thank You!



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

TICKET CONTINUATION

TICKET No. 24622

CUSTOMER: **CENTRAL OPERATING**

WELL: **Raymond - Passau's #4**

DATE: **6-9-13**

PAGE **2** OF **2**

NO.	DESCRIPTION	UNIT	QTY	PRICE	TOTAL
325	STANDARD Cement	CA-2	175	516	90300
330	Super Multi-Dexer Standard		250	196	49500
276	FLOXIF		100	180	18000
283	SALT		900	20	18000
284	CASUAL		8	3500	28000
285	CRACK		-100	400	-40000
290	D-ADR		5	4200	21000
286	HAUD-1		100	800	80000
581	SERVICE CHARGE		425	200	85000
583	TOTAL WEIGHT		43250	108125	1630125
	LOADED MILES		50	100	108125
	CUBIC FEET		425	200	85000
	TOTAL MILES		108125	100	108125
	TOTAL WEIGHT		43250	108125	1630125
	LOADED MILES		50	100	108125
	CUBIC FEET		425	200	85000
	TOTAL MILES		108125	100	108125

GRAND TOTAL

SWIFT Services, Inc.

DATE 6-9-13 PAGE NO. 1

JOB LOG

CUSTOMER CENTRAL OPERATING WELL NO. #4 LEASE Raymond - Parsons #4 JOB TYPE 5/2" 2-STAGE LOGSPOOLS TICKET NO. 24622

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/Day)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0330							ON LOCATION
	0400							START 5/2" CASING IN WELL
								TD-4301 SER=4295
								TP-4295 5/2" 14
								ST-43
								CENTRALIZERS-3,5,7,8,10,2,13,15,17,60
								CMR BSKTS-18,61,83
								DU TOOL = 1750 TOP JT # 61
	0620							DROP BALL - CIRCULATE ROTATE
	0730	7	12		✓	450		PUMP 500 GAL MUDFRESH "
	0732	7	20		✓	450		PUMP 20 BBL KCL-FLUSH "
	0745	6 1/4	42		✓	300		MAX CEMENT - 175 SKS EA-2 = 15.5 PP6 "
	0752							WASH OUT PUMP - LINES
	0752							RELEASE 1ST STAGE CATCH DOWN PLUG
	0755	7	0		✓			DISPLACE PLUG "
	0810	6	103.7			1500		PLUG DOWN - PSE UP CATCH DOWN PLUG
	0812					OK		RELEASE PSE - HEAD
	0815				✓			DROP DV OPERING PLUG
	0830					1100		OPEN DV - CIRCULATE
	0930	6	20		✓	300		PUMP 20 BBL KCL-FLUSH
	0935		7-5					PLUG RH (30SKS) MH (20SKS)
	0940	6	111		✓	200		MAX CEMENT - 200SKS SMD = 11.2 PP6
	1000							WASH OUT PUMP - LINES
	1000							RELEASE DV CLOSING PLUG
	1005	6	0		✓			DISPLACE PLUG
	1008	4	42.7			1500		PLUG DOWN - PSE UP CLOSE DV TOOL
	1010					OK		RELEASE PSE - HEAD
								CIRCULATE 40 SKS CEMENT TO BIT
								WASH TRUCK
	1100							JOB COMPLETE

THANK YOU
WAYNE JEFF DOUG

06/18/2013 12:09 3038940898



PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 136664
Invoice Date: Jun 1, 2013
Page: 1

Now Includes:



Bill to:
Central Operating, Inc.
1600 Broadway Suite #1050
Denver, CO 80202

Contract ID	Contract #	Payment Terms	
CentOp	60841	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jun 1, 2013	7/1/13

Quantity	Unit	Description	Unit Price	Amount
150.00	MAT	Raymond Parsons #4	17.90	2,685.00
3.00	MAT	Class A Common	23.40	70.20
5.00	MAT	Gel	64.00	320.00
162.20	SER	Chloride	2.48	402.26
407.00	SER	Cubic Feet	2.60	1,058.20
1.00	SER	Ton Mileage	1,512.25	1,512.25
55.00	SER	Surface	7.70	423.50
1.00	SER	Pump Truck Mileage	275.00	275.00
55.00	SER	Manifold Head Rental	4.40	242.00
1.00	CEMENTER	Light Vehicle Mileage		
1.00	EQUIP OPER	Andrew Forslund		
1.00	OPER ASSIST	Dane Retzlöf		
		Darin Hoeb		
		R/P #4		
		10-17		
		JRG		

Subtotal	6,988.40
Sales Tax	247.55
Total Invoice Amount	7,235.95
Payment/Credit Applied	
TOTAL	

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

10/23/2013

ONLY IF PAID ON OR BEFORE

10/23/2013

-1607.33
5628.62

ALLIED OIL & GAS SERVICES, LLC 060841

Federal Tax I.D. # 20-8651476

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

SERVICE POINT:

oakley

DATE <u>6-1-13</u>	SEC <u>4</u>	TWP <u>75</u>	RANGE <u>26</u>	CALLED OUT	ON LOCATION	JOB START <u>10:30pm</u>	JOB FINISH <u>11:00pm</u>
LEASE <u>Raymond Parsons</u>		WELL # <u>4</u>	LOCATION <u>Quarter 12 & S 18, 1/4 N</u>		COUNTY <u>Gore</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one) <u>NEW</u>			<u>1/2 E N+E into</u>				

CONTRACTOR Musfin 21
 TYPE OF JOB Surf Face
 HOLE SIZE 12 1/4 I.D. 216'
 CASING SIZE 8 5/8 DEPTH 216'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15'
 PERFS.
 DISPLACEMENT 12.25 bbl

OWNER same

CEMENT AMOUNT ORDERED 150 sks com 3 3/4 cc
2 bagel

COMMON 150 sks @ 17.90 2685.00
 POZMIX @
 GEL 3 sks @ 23.90 70.30
 CHLORIDE 5 sks @ 64.00 320.00
 ASC @

EQUIPMENT

PUMP TRUCK CEMENTER Andrew
 # 431 HELPER Dane
 BULK TRUCK
 # 540 DRIVER Darrin
 BULK TRUCK
 # DRIVER

HANDLING 162.2 cu ft @ 2.48 402.25
 MILEAGE 2.60 ton/mile 7.47 ton 1058.20
 TOTAL 4535.45

REMARKS:

SERVICE

Cement did circulate

DEPTH OF JOB 216'
 PUMP TRUCK CHARGE 1512.25
 EXTRA FOOTAGE @
 MILBAGE 55 miles @ 2.20 121.50
 MANIFOLD head @ 225.00
light vehicle @ 412.00

thank you

CHARGE TO: Central operating inc.
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL 2452.75

PLUG & FLOAT EQUIPMENT

 @ _____

 @ _____

 @ _____

 @ _____

TOTAL _____

To: Allied Oil & Gas Services, LLC.

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

SALES TAX (if Any) _____
 TOTAL CHARGES 2,988.40
 DISCOUNT 1,607.33 IF PAID IN 30 DAYS
5,381.05 Net

PRINTED NAME Juan Tinoco

SIGNATURE Juan Tinoco



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Central Operating
1600 Broadway Ste 1050
Denver, Co 80202
ATTN: Sean Deenihan

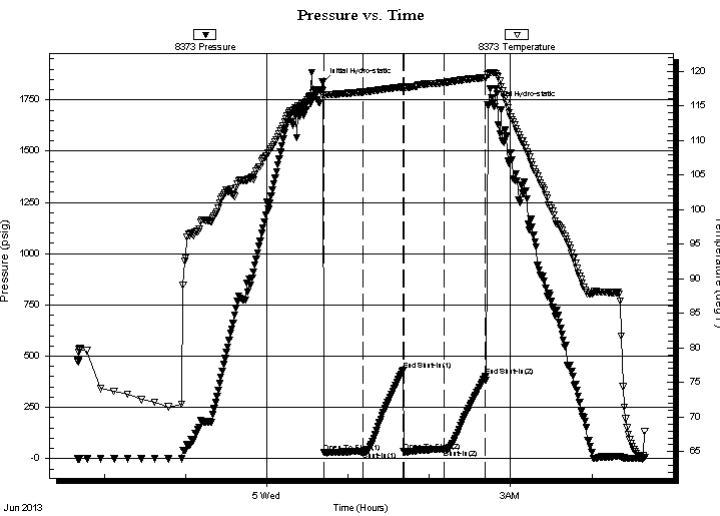
4 15s 26w
Raymond Parsons #4
Job Ticket: 53157 **DST#: 1**
Test Start: 2013.06.04 @ 21:40:00

GENERAL INFORMATION:

Formation: **Lansing H&I**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:42:00
Time Test Ended: 04:39:00
Interval: **3762.00 ft (KB) To 3820.00 ft (KB) (TVD)**
Total Depth: 3820.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Cornelio Landa III (
Unit No: 60
Reference Elevations: 2339.00 ft (KB)
2328.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8373 Inside
Press @ RunDepth: 44.37 psig @ 3763.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.06.04 End Date: 2013.06.05 Last Calib.: 2013.06.05
Start Time: 21:40:05 End Time: 04:38:59 Time On Btm: 2013.06.05 @ 00:41:00
Time Off Btm: 2013.06.05 @ 02:43:00

TEST COMMENT: IF: No blow
IS: No return
FF: No blow - flushed tool good surge
FS: No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1836.39	117.22	Initial Hydro-static
1	31.92	116.23	Open To Flow (1)
30	33.67	117.01	Shut-In(1)
60	432.95	117.75	End Shut-In(1)
60	35.33	117.53	Open To Flow (2)
90	44.37	118.38	Shut-In(2)
121	401.25	119.10	End Shut-In(2)
122	1724.02	119.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 20o 80m	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Central Operating

4 15s 26w

1600 Broadway Ste 1050
Denver, Co 80202

Raymond Parsons #4

Job Ticket: 53157

DST#: 1

ATTN: Sean Deenihan

Test Start: 2013.06.04 @ 21:40:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OCM 20o 80m	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

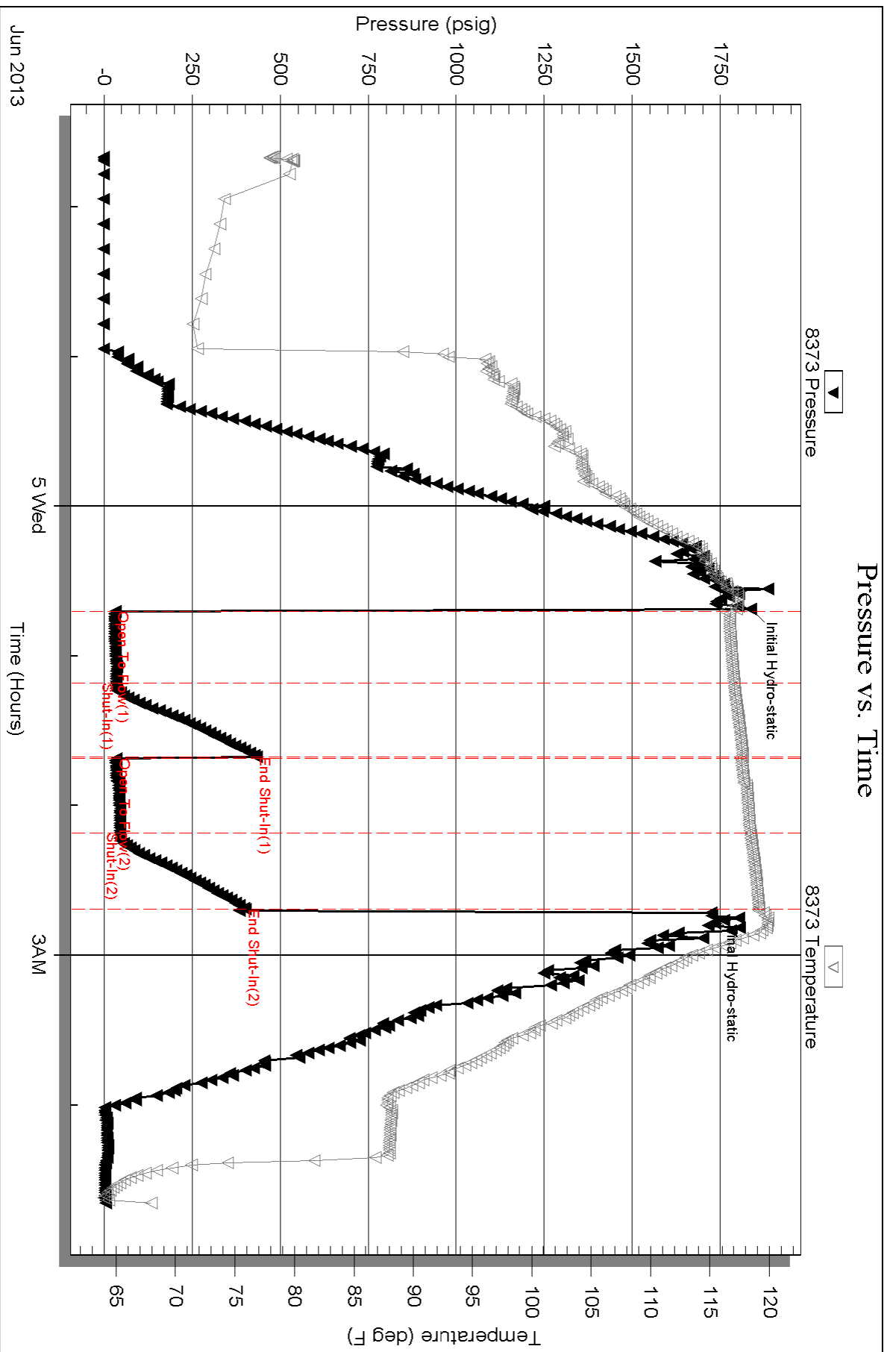
Serial #: 8373

Inside

Central Operating

Raymond Parsons #4

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Central Operating
1600 Broadway Ste 1050
Denver, Co 80202
ATTN: Harley Sayles

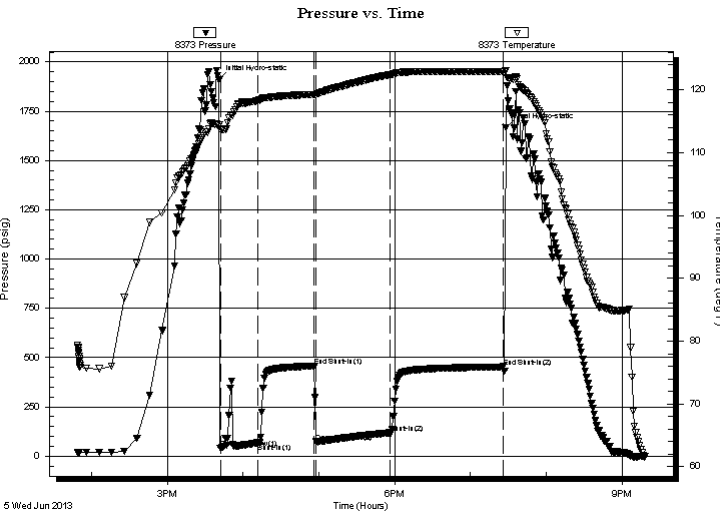
4 15s 26w
Raymond Parsons #4
Job Ticket: 53158 **DST#: 2**
Test Start: 2013.06.05 @ 13:49:05

GENERAL INFORMATION:

Formation: **Lansing J-K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:42:00
Time Test Ended: 21:17:59
Interval: **3822.00 ft (KB) To 3888.00 ft (KB) (TVD)**
Total Depth: 3888.00 ft (KB) (TVD)
Hole Diameter: inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Cornelio Landa III (
Unit No: 60
Reference Elevations: 2339.00 ft (KB)
2328.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8373 Inside
Press @ Run Depth: 118.35 psig @ 3823.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.06.05 End Date: 2013.06.05 Last Calib.: 2013.06.05
Start Time: 13:49:05 End Time: 21:17:59 Time On Btm: 2013.06.05 @ 15:41:00
Time Off Btm: 2013.06.05 @ 19:28:00

TEST COMMENT: IF: 4 inches blow
IS: No return
FF: Flow after 4 min open built to 2 inches
FS: No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1910.62	114.45	Initial Hydro-static
1	38.93	113.82	Open To Flow (1)
31	67.53	118.30	Shut-In(1)
76	457.39	119.30	End Shut-In(1)
77	72.91	119.17	Open To Flow (2)
136	118.35	122.43	Shut-In(2)
225	453.53	122.87	End Shut-In(2)
227	1667.65	123.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Wm 95w 5m	0.10
60.00	Wm 70w 30m	0.30
60.00	Wm 60w 40m	0.30
60.00	Mw 80m 20w with oil specs	0.30

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Central Operating

4 15s 26w

1600 Broadway Ste 1050
Denver, Co 80202

Raymond Parsons #4

Job Ticket: 53158

DST#: 2

ATTN: Harley Sayles

Test Start: 2013.06.05 @ 13:49:05

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: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	Wm 95w 5m	0.098
60.00	Wm 70w 30m	0.295
60.00	Wm 60w 40m	0.295
60.00	Mw 80m 20w with oil specs	0.295

Total Length: 200.00 ft

Total Volume: 0.983 bbl

Num Fluid Samples: 0

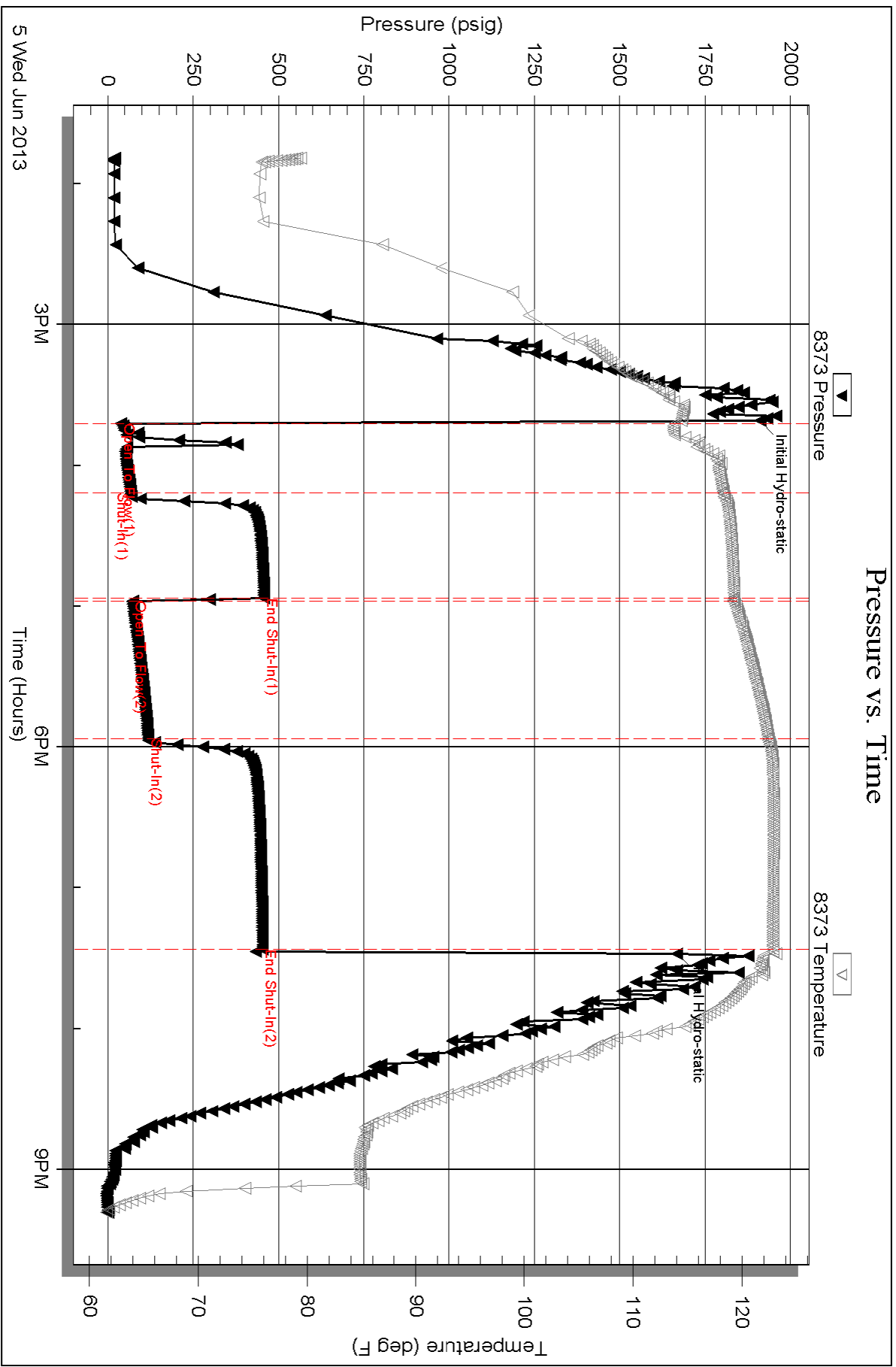
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Central Operating
 1600 Broadway Ste 1050
 Denver, Co 80202
 ATTN: Harley Sayles

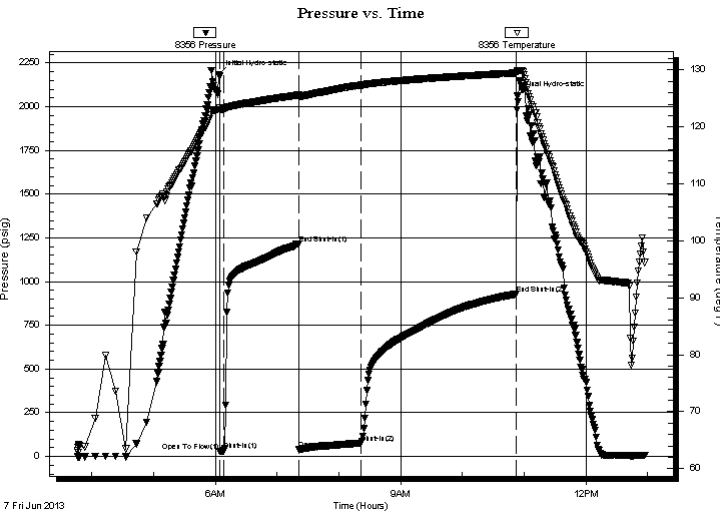
4 15s 26w
Raymond Parsons #4
 Job Ticket: 53159 **DST#: 3**
 Test Start: 2013.06.07 @ 03:46:00

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:04:00
 Time Test Ended: 12:57:30
 Interval: **4199.00 ft (KB) To 4232.00 ft (KB) (TVD)**
 Total Depth: 4238.00 ft (KB) (TVD)
 Hole Diameter: inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Cornelio Landa III
 Unit No: 60
 Reference Elevations: 2339.00 ft (KB)
 2328.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8356 **Inside**
 Press @ Run Depth: 34.41 psig @ 4200.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.06.07 End Date: 2013.06.07 Last Calib.: 2013.06.07
 Start Time: 03:46:05 End Time: 12:57:30 Time On Btm: 2013.06.07 @ 06:03:00
 Time Off Btm: 2013.06.07 @ 10:53:30

TEST COMMENT: IF:1 1/4 blow : on 3 min open
 IS:No return
 FF:BOB in 52 min 3 minutes after Open
 FS:Return blow after 1 min closed-built to 3 inches-disipated to 1 inch



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2182.45	123.32	Initial Hydro-static
2	29.79	122.99	Open To Flow (1)
6	34.41	123.14	Shut-In(1)
78	1214.81	125.60	End Shut-In(1)
79	39.94	125.24	Open To Flow (2)
139	77.34	127.32	Shut-In(2)
289	927.44	129.47	End Shut-In(2)
291	2060.93	129.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Go 5g 95o	0.59
60.00	Gom 20g 30o 50m	0.30

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Central Operating

4 15s 26w

1600 Broadway Ste 1050
Denver, Co 80202

Raymond Parsons #4

Job Ticket: 53159

DST#: 3

ATTN: Harley Sayles

Test Start: 2013.06.07 @ 03:46:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

120 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

19000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Go 5g 95o	0.590
60.00	Gom 20g 30o 50m	0.295

Total Length: 180.00 ft

Total Volume: 0.885 bbl

Num Fluid Samples: 0

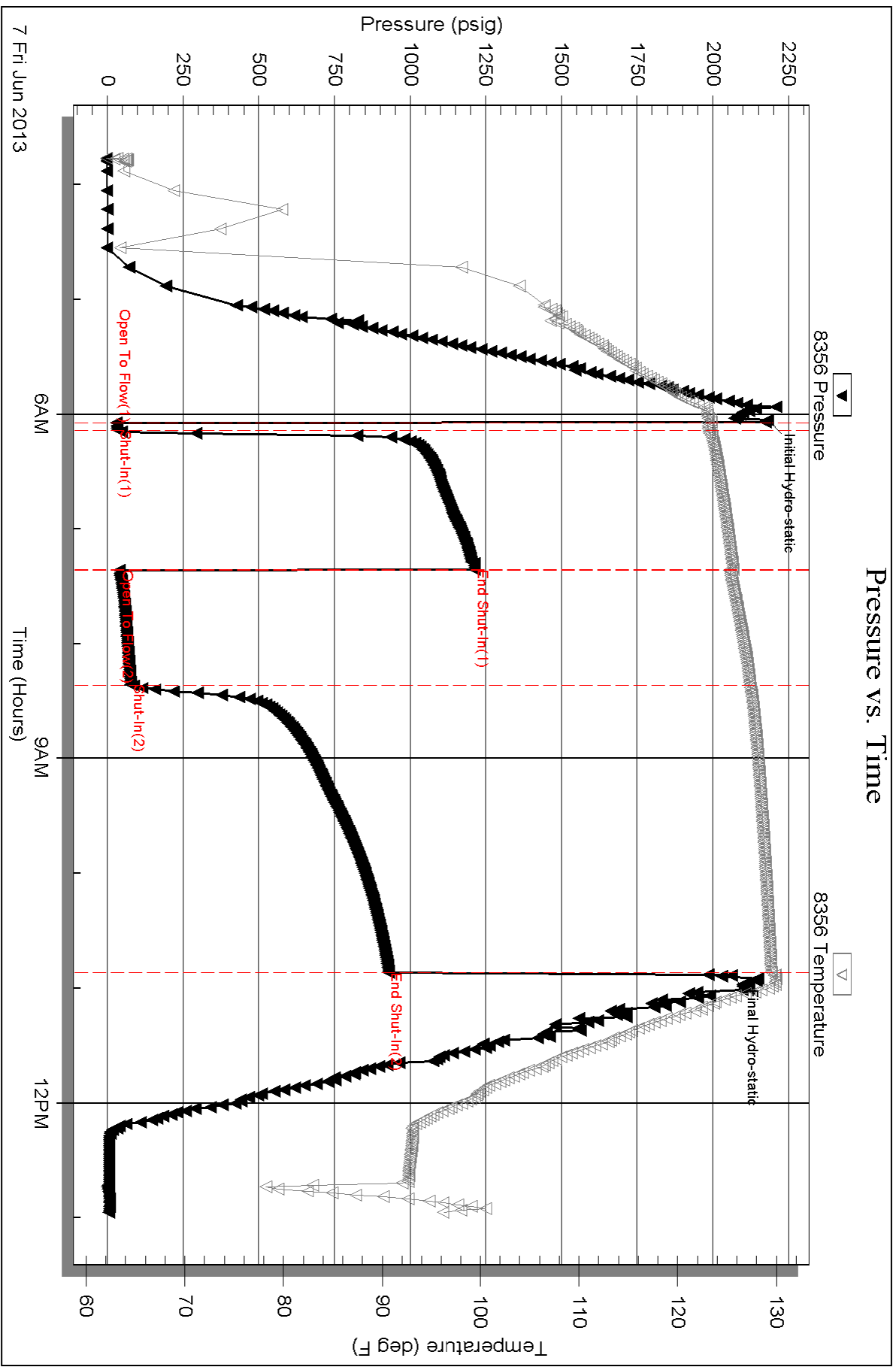
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Central Operating
 1600 Broadway Ste 1050
 Denver, Co 80202
 ATTN: Harley Sayles

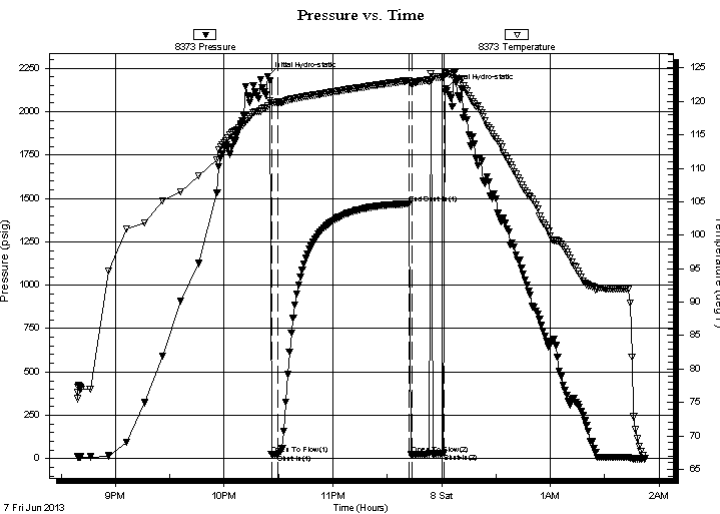
4 15s 26w
Raymond Parsons #4
 Job Ticket: 53160 **DST#: 4**
 Test Start: 2013.06.07 @ 20:39:02

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:26:02
 Time Test Ended: 01:52:32
 Interval: **4237.00 ft (KB) To 4256.00 ft (KB) (TVD)**
 Total Depth: 4256.00 ft (KB) (TVD)
 Hole Diameter: inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 60
 Reference Elevations: 2339.00 ft (KB)
 2328.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8373 Inside
 Press @ Run Depth: 27.68 psig @ 4238.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.06.07 End Date: 2013.06.08 Last Calib.: 2013.06.08
 Start Time: 20:39:07 End Time: 01:52:31 Time On Btm: 2013.06.07 @ 22:24:02
 Time Off Btm: 2013.06.08 @ 00:02:32

TEST COMMENT: IF: Surface blow .
 IS: No return.
 FF: No blow . Flushed tool no blow . Pulled tool.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2200.66	119.28	Initial Hydro-static
2	26.78	119.80	Open To Flow (1)
6	27.68	119.88	Shut-In(1)
78	1468.76	123.14	End Shut-In(1)
80	27.11	122.71	Open To Flow (2)
97	29.78	123.66	Shut-In(2)
99	2134.62	124.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Central Operating

4 15s 26w

1600 Broadway Ste 1050
Denver, Co 80202

Raymond Parsons #4

Job Ticket: 53160

DST#: 4

ATTN: Harley Sayles

Test Start: 2013.06.07 @ 20:39:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 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:

Pressure vs. Time

