



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1117176
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: _____



1117176

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	Culbreath Oil & Gas Company, Inc.
Well Name	Mader 1-01
Doc ID	1117176

Tops

Name	Top	Datum
Anhydrite	2205	+374
Base Anhydrite	2244	+335
Topeka	3597	-1018
Heebner	3796	-1217
Toronto	3816	-1237
Lansing	3820	-1251
Stark Shale	4022	-1443
Base Kansas City	4064	-1485
Total Depth	4122	-1543

Schippers Oilfield Services LLC

RR 1 Box 90D
Hoxie, KS 67740

Phone # 785-675-8974 sosllc@ruraltel.net
Fax # 785-675-9938

Invoice

Date 2/6/2013
Invoice # 667

Bill To
Culbreath Oil and Gas Company 1532 S Peoria Tulsa, Ok 74120

Ship To

P.O. # Mader
Terms Net 30

Ship Date 2/6/2013
Due Date 3/8/2013
Other

Item	Description	Qty	Price	Amount
Cement	Common	165	15.50	2,557.50T
Gel		3	26.00	78.00T
chloride	calcium chloride	6	52.00	312.00T
Handling of mater...	per sack	174	2.15	374.10
Mileage and labor		30	17.40	522.00
Pump truck charge	Tri- plex pump charge		1,250.00	1,250.00
Pump truck mileage	To and From Location	60	6.50	390.00
Light vehicle mile...	To and From Location	60	2.00	120.00

TAKE 10% DISCOUNT IF PAID WITHIN 20 DAYS. DEDUCT FROM TOTAL.

Subtotal \$5,603.60
Sales Tax (8.3%) \$244.64
Total \$5,848.24
Payments/Credits \$0.00
Balance Due \$5,848.24

Schippers Oilfield Services LLC

REMIT TO
RR 1 BOX 90 D
HOXIE, KS 67740

SCHIPPERS OIL FIELD SERVICE L.L.C.

NO 667

DATE <i>2/5/13</i> SEC. <i>1</i>	RANGE/TWP. <i>10S 26W</i>	CALLED OUT	ON LOCATION <i>20:30 p.m.</i>	JOB START <i>1:15 a.m.</i>	JOB FINISH <i>1:30 p.m.</i>
LEASE <i>Mader</i>			WELL# <i>1-01</i>		
			COUNTY <i>SD</i>	STATE <i>KS</i>	

CONTRACTOR <i>Maverick 108</i>	OWNER <i>Calbreath Oil & Gas</i>			
TYPE OF JOB <i>Surface</i>				
HOLE SIZE <i>12 1/4</i>	T.D. <i>262'</i>	CEMENT		
CASING SIZE <i>8 7/8</i>	DEPTH <i>252' + 14' LJ</i>	AMOUNT ORDERED	<i>165 lbs</i>	<i>3% CC 2% Gel</i>
TUBING SIZE	DEPTH			
DRILL PIPE	DEPTH			
TOOL	DEPTH			
PRES. MAX	MINIMUM	COMMON	<i>165</i>	<i>@ 15.50 2557.50</i>
DISPLACEMENT <i>16 bbl</i>	SHOE JOINT	POZMIX		<i>@</i>
CEMENT LEFT IN CSG. <i>15'</i>		GEL	<i>3</i>	<i>@ 26.00 78.00</i>
PERFS		CHLORIDE	<i>6</i>	<i>@ 58.00 348.00</i>
		ASC		<i>@</i>
EQUIPMENT				<i>@</i>
				<i>@</i>
PUMP TRUCK				<i>@</i>
<i># 1 Jay Jack</i>				<i>@</i>
BULK TRUCK				<i>@</i>
<i># 1 Eric</i>				<i>@</i>
BULK TRUCK <i>Pickup</i>				<i>@</i>
<i># Jarrod</i>				<i>@</i>
		HANDLING	<i>174</i>	<i>@ 2.15 374.10</i>
		MILEAGE	<i>30</i>	<i>@ .174/mi 522.00</i>
		TOTAL		<i>3879.60</i>

REMARKS	SERVICE		
<i>Contact circulated to pit.</i>	DEPT OF JOB		<i>@</i>
<i>Done @ 1:30 a.m.</i>	PUMP TRUCK CHARGE	<i>1</i>	<i>@ 1250.00 1250.00</i>
	EXTRA FOOTAGE		<i>@ 390.00</i>
	MILEAGE	<i>30x2</i>	<i>@ 6.50 195.00</i>
	MANIFOLD		<i>@</i>
	<i>High Vehicle</i>	<i>30x2</i>	<i>@ 2.00 120.00</i>
	TOTAL		<i>1760.00</i>

CHARGES TO: <i>Calbreath Oil & Gas</i>	
STREET	STATE <i>OK</i>
CITY <i>Tulsa</i>	ZIP

PLUG & FLOAT EQUIPMENT	
	<i>@</i>

To: Schippers Oil Field Services L.L.C.
You are hereby requested to rent cementing equipment

SWIFT



Services, Inc.

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



Invoice

DATE	INVOICE #
2/14/2013	23899

BILL TO
Culbreath Oil & Gas Company, Inc. 1532 South Peoria Avenue Tulsa, OK 74120-6202

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-01	Mader	Sheridan	Maverick Drilling ...	Oil	Development	5-1/2" Two-Stag...	Josh
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				60	Miles	6.00	360.00
579D	Pump Charge - Two-Stage				1	Job	1,850.00	1,850.00
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
290	D-Air				4	Gallon(s)	35.00	140.00T
402-5	5 1/2" Centralizer				10	Each	70.00	700.00T
403-5	5 1/2" Cement Basket				2	Each	250.00	500.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	350.00	350.00T
408-5	5 1/2" D.V. Tool & Plug Set				1	Each	3,000.00	3,000.00T
411-5	5 1/2" Recipo Scratcher				40	Each	45.00	1,800.00T
417-5	5 1/2" D.V. Latch Down Plug & Baffle				1	Each	200.00	200.00T
580	Additional Hours (If Circulate More Than 1 Hour)				1	Hours	200.00	200.00
325	Standard Cement				175	Sacks	13.50	2,362.50T
330	Swift Multi-Density Standard (MIDCON II)				250	Sacks	16.50	4,125.00T
276	Flocele				100	Lb(s)	2.00	200.00T
283	Salt				900	Lb(s)	0.20	180.00T
284	Calseal				8	Sack(s)	35.00	280.00T
285	CFR-1				100	Lb(s)	4.00	400.00T
581D	Service Charge Cement				425	Sacks	2.00	850.00
583D	Drayage				1,297.5	Ton Miles	1.00	1,297.50
	Subtotal							19,520.00
	Sales Tax Sheridan County						8.30%	1,241.89

We Appreciate Your Business!

Total

\$20,761.89



CHARGE TO: **Colbreath Oil + Gas**
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET No: **23899**

CITY, STATE, ZIP CODE

PAGE 1 OF 2

1. SERVICE LOCATIONS	WELL/PROJECT NO. 1-01	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
		Mader	Sheridan	KS		2-14-13	
2. TICKET TYPE	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA CT	DELIVERED TO	ORDER NO.	WELL LOCATION	
<input checked="" type="checkbox"/> SERVICE	Maverick	108		Local Burn		Sec 01, Twp 10 S, R 26 W	
<input type="checkbox"/> SALES	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.			
	011	Develop	5 1/2 2-Stage long string				
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE	60	mi			6.00	360.00
579					Pump Charge	1	ea			1850.00	1850.00
221					Loguid KCL	4	gal			25.00	100.00
281					Mud Flush	500	gal			1.25	625.00
290					D-Air	4	gal			35.00	140.00
402					Leant calize	10	ea		5 1/2	70.00	700.00
403					Cement Gasket	2	ea			250.00	500.00
407					Insert Flat Shoe w/ Auto Fill	1	ea			350.00	350.00
408					D V Tool + Plug set	1	ea			3000.00	3000.00
411					Recipo Scratches	40	ea			45.00	1800.00
417					D V Latch Down Plug + G.P.H.e	1	ea			200.00	200.00
580					Additional Hoops	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: **2-14-13** TIME SIGNED: **10:00** A.M. P.M.

SWIFT OPERATOR: **Josh Brown**

REMIT PAYMENT TO:

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE	TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				1	20,761.89
WE UNDERSTOOD AND MET YOUR NEEDS?				2	
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO			
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					
Sheridan TAX 8.3%					
Subtotal 19,520.00					
TOTAL					20,761.89

Thank You!

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

APPROVAL



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

TICKET CONTINUATION

TICKET No. 23849

CUSTOMER *Cubbregh 0.1 Gas* WELL 1-01 DATE 2-14-13 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		DATE		AMOUNT			
		LOC	ACCT	DF			QTY.	UM	QTY.	UM		PRICE		
325		2				Standard Cement	125	SKS	13	50	2362.50			
330		2				Swift Mult. Density	250	SKS	16	50	4125.00			
276		2				Flocele	100	lbs	21	00	2001.00			
283		2				Salt	500	lbs		20	180.00			
284		2				Cal Seal	8	SKS	35	00	280.00			
285		2				CFR-1	100	lbs	4	00	400.00			
581		2				SERVICE CHARGE			2	00	850.00			
583		2				MILEAGE CHARGE			1	00	1297.50			
							TOTAL WEIGHT	43250	LOADED MILES	60	CUBIC FEET	425	TON MILES	1297.50

CONTINUATION TOTAL 9695.00

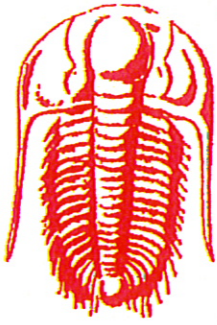
JOB LOG

SWIFT Services, Inc.

DATE 2-14-13 PAGE NO.

CUSTOMER Cubbreath Oil + Gas WELL NO. 1-01 LEASE Mader JOB TYPE 5 1/2 2-Stage Long String TICKET NO. 23899

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1000							on location
								TO 4120 55 42
								RP 4114 Insert 4072
								OV 2221' top #45
	1230							Start PIP
	1430							Drop Ball circulate Reciprocate Pipe
	1545	5	12		✓	200		Start Mud Flush
		5	20		✓	200		Start KCL Flush
	1555	5	42			200		Start Cement 125 sks EA2
	1610							Drop Plug
								wash out Pump + Lines
	1612	5	44		✓			Start Displacing
			53		✓			Start Mud
	1630	5	97		✓	1500		Lead Plug
								Release Dry
								Drop open Plug wash up truck
	1645					1100		open OV circulate
	1800		7/4					Plug BH 30 sks MH 15 sks
	1810	5	20		✓			Start KCL Flush
			114		✓			Start cement
								Drop Plug Closing
								Start Displacing
		5	53		✓			Lead Plug
	1915					1500		close OV
	1918							Release Dry
								wash up / Back up
								Circulate <u>40</u> sks to pit
	1945							Job complete
								Thank You
								Josh, Brian, Isaac



TRILOBITE TESTING, INC.

Dear Loyal Customers,

In a continued effort to go paperless and streamline the distribution of your finalized DST report you will only receive one bound copy. The diskette contains both the full finalized, pdf and .dtz files with the field copy attached to it.

For your convenience these files can also be e-mailed, which would allow you to print only the pages that you require and/or to forward to anyone who requires the information. If you would like to set up a distribution list for those who will always receive the finalized reports please send a list including the e-mail addresses of those recipients to trilobite@eaglecom.net or call 785-625-4778.

Thank you



DRILL STEM TEST REPORT

Prepared For: **Culbreath Oil & Gas Co.**

1532 S. Peoria Avenue
Tulsa, OK 74120

ATTN: Steve Murphy

Mader #1-1

1-10s-26w Sheridan,KS

Start Date: 2013.02.09 @ 21:55:00

End Date: 2013.02.10 @ 07:19:45

Job Ticket #: 51399 DST #: 1

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

Printed: 2013.02.22 @ 10:35:09



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Culbreath Oil & Gas Co.

1532 S. Peoria Avenue
Tulsa, OK 74120

ATTN: Steve Murphy

1-10s-26w Sheridan,KS

Mader #1-1

Job Ticket: 51399

DST#: 1

Test Start: 2013.02.09 @ 21:55:00

GENERAL INFORMATION:

Formation: **Toronto "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:20:45

Time Test Ended: 07:19:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 55

Interval: **3796.00 ft (KB) To 3830.00 ft (KB) (TVD)**

Total Depth: 3830.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2579.00 ft (KB)

2570.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6667 Inside

Press@RunDepth: 29.53 psig @ 3797.00 ft (KB)

Start Date: 2013.02.09

End Date: 2013.02.10

Start Time: 21:55:15

End Time: 07:19:45

Capacity: 8000.00 psig

Last Calib.: 2013.02.10

Time On Btm: 2013.02.10 @ 01:20:30

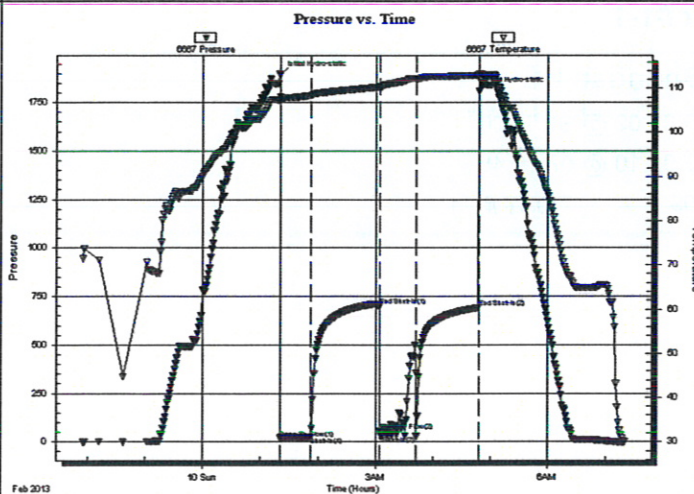
Time Off Btm: 2013.02.10 @ 04:47:45

TEST COMMENT: 45 IF - Surface blow built to 1 1/2"

60 ISI - No return

40 FF - No blow

60 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1892.63	108.13	Initial Hydro-static
1	18.25	107.24	Open To Flow (1)
32	23.87	108.40	Shut-In(1)
104	703.30	110.36	End Shut-In(1)
104	54.79	110.14	Open To Flow (2)
142	29.53	112.02	Shut-In(2)
207	690.82	112.96	End Shut-In(2)
208	1807.64	113.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud w / oil spots - 100%M	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Culbreath Oil & Gas Co.

1-10s-26w Sheridan,KS

1532 S. Peoria Avenue
Tulsa, OK 74120

Mader #1-1

Job Ticket: 51399

DST#: 1

ATTN: Steve Murphy

Test Start: 2013.02.09 @ 21:55:00

Tool Information

Drill Pipe:	Length: 3782.00 ft	Diameter: 3.80 inches	Volume: 53.05 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 53.05 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3796.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3770.00	
Shut In Tool	5.00			3775.00	
Hydraulic tool	5.00			3780.00	
Jars	5.00			3785.00	
Safety Joint	2.00			3787.00	
Packer	5.00			3792.00	27.00 Bottom Of Top Packer
Packer	4.00			3796.00	
Stubb	1.00			3797.00	
Recorder	0.00	6667	Inside	3797.00	
Recorder	0.00	8368	Outside	3797.00	
Perforations	28.00			3825.00	
Bullnose	5.00			3830.00	34.00 Bottom Packers & Anchor
Total Tool Length:	61.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath Oil & Gas Co.

1-10s-26w Sheridan,KS

1532 S. Peoria Avenue
Tulsa, OK 74120

Mader #1-1

Job Ticket: 51399

DST#: 1

ATTN: Steve Murphy

Test Start: 2013.02.09 @ 21:55:00

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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.96 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud w / oil spots - 100%M	0.421

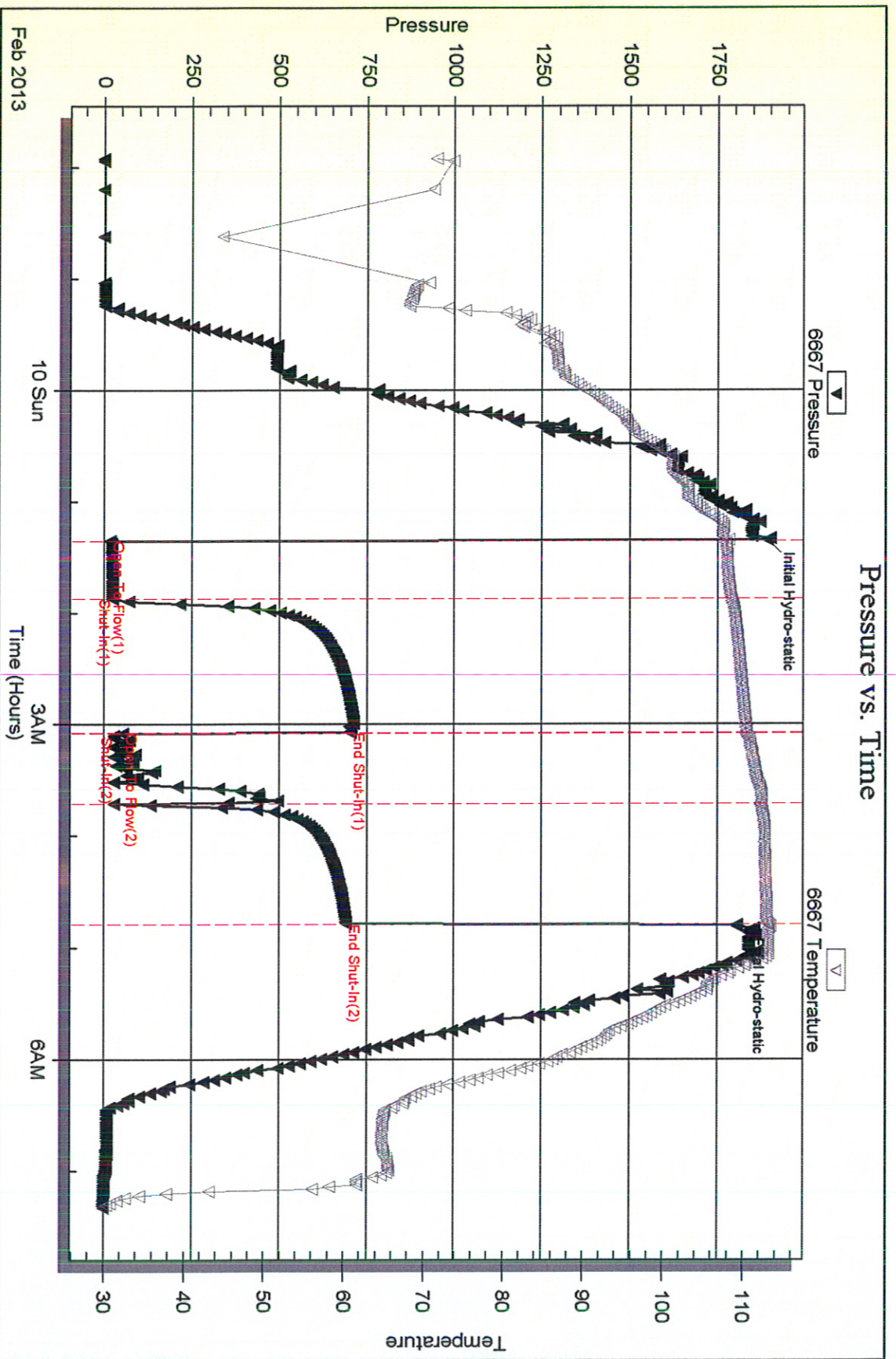
Total Length: 30.00 ft Total Volume: 0.421 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

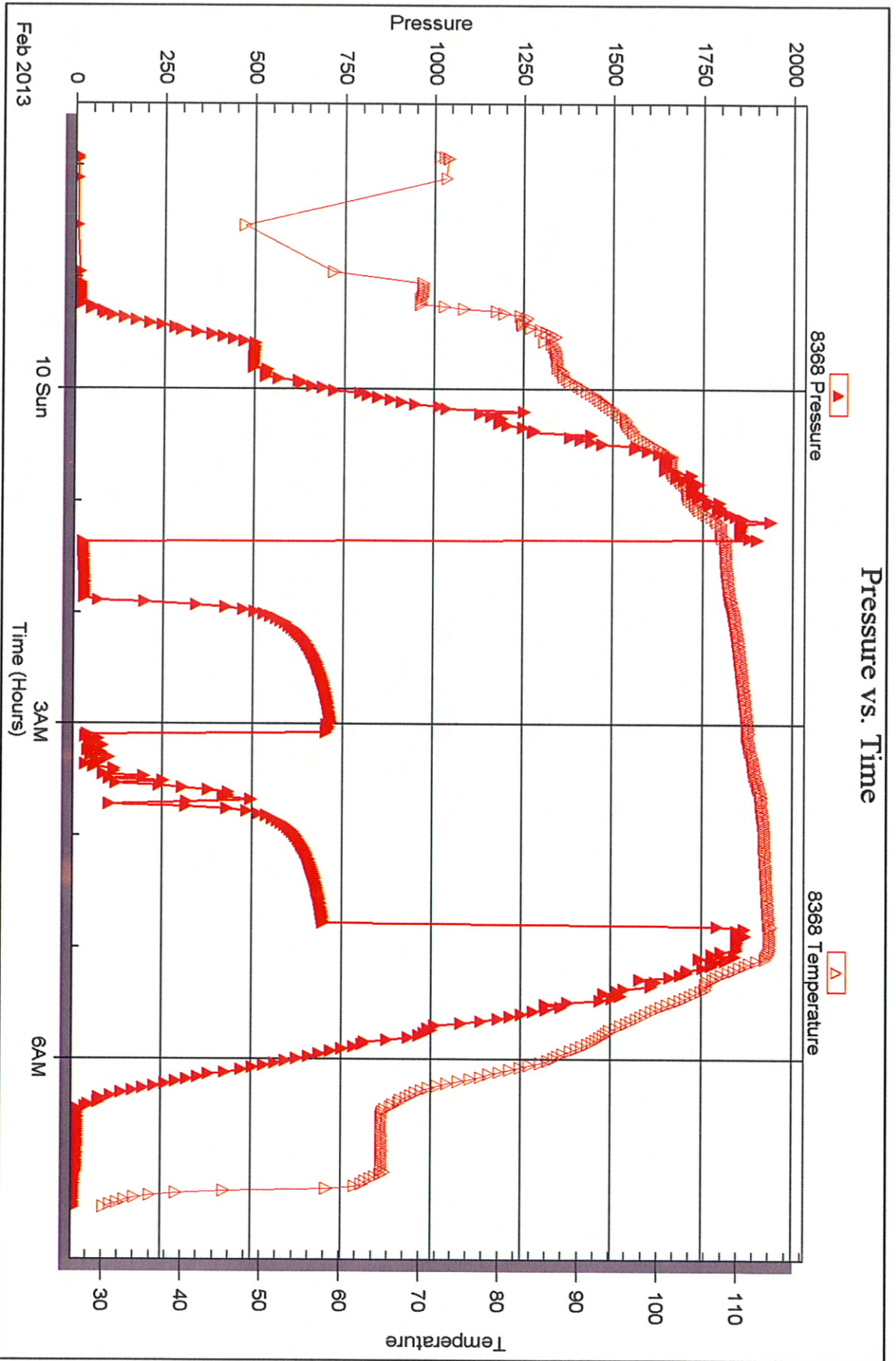


Serial #: 8368

Outside Culbreath Oil & Gas Co.

Mader #1-1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Culbreath Oil & Gas Co.**

1532 S. Peoria Avenue
Tulsa, OK 74120

ATTN: Steve Murphy

Mader #1-1

1-10s-26w Sheridan,KS

Start Date: 2013.02.10 @ 18:50:00

End Date: 2013.02.11 @ 04:16:00

Job Ticket #: 51400 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.02.22 @ 10:34:29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath Oil & Gas Co.
 1532 S. Peoria Avenue
 Tulsa, OK 74120
 ATTN: Steve Murphy

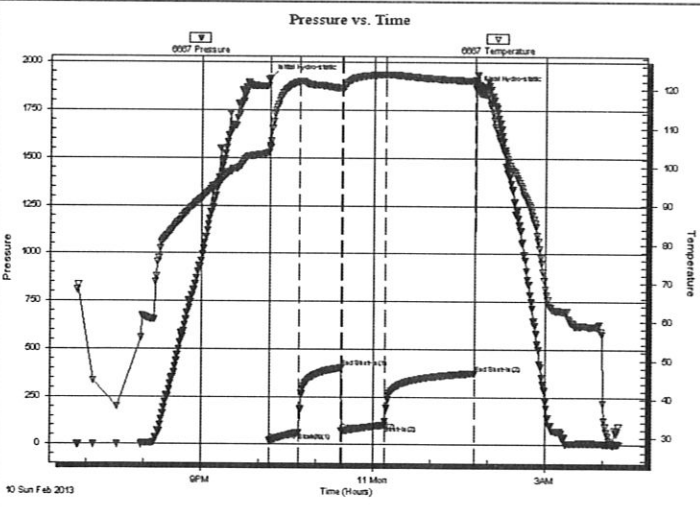
1-10s-26w Sheridan,KS
Mader #1-1
 Job Ticket: 51400 DST#: 2
 Test Start: 2013.02.10 @ 18:50:00

GENERAL INFORMATION:

Formation: **LKC "D"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 22:11:15 Tester: Ryan Nichols
 Time Test Ended: 04:16:00 Unit No: 55
 Interval: **3866.00 ft (KB) To 3886.00 ft (KB) (TVD)**
 Reference Elevations: 2579.00 ft (KB)
 Total Depth: 3886.00 ft (KB) (TVD) 2570.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 9.00 ft

Serial #: 6667 Inside
 Press@RunDepth: 101.46 psig @ 3867.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.02.10 End Date: 2013.02.11 Last Calib.: 2013.02.11
 Start Time: 18:50:15 End Time: 04:16:00 Time On Btm: 2013.02.10 @ 22:11:00
 Time Off Btm: 2013.02.11 @ 01:46:15

TEST COMMENT: 30 IF - 1/2" blow built to BOB in 30 mins (in diesel)
 45 ISI - No return
 45 FF - Surface blow started @ 2 mins built to 7 1/2"
 90 FSI - No return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1917.89	105.48	Initial Hydro-static
1	19.81	104.91	Open To Flow (1)
31	62.97	122.04	Shut-In(1)
75	402.30	120.34	End Shut-In(1)
76	72.00	120.16	Open To Flow (2)
121	101.46	123.89	Shut-In(2)
215	375.04	122.30	End Shut-In(2)
216	1862.66	122.52	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
62.00	MCW - 10%M - 90%W	0.87
62.00	MCW - 5%M - 95%W	0.87
62.00	OCW - 20%o - 80%W	0.87

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

* Recovery from multiple tests



DRILL STEM TEST REPORT

Prepared For: **Culbreath Oil & Gas Co.**

1532 S. Peoria Avenue
Tulsa, OK 74120

ATTN: Steve Murphy

Mader #1-1

1-10s-26w Sheridan,KS

Start Date: 2013.02.12 @ 12:00:00

End Date: 2013.02.12 @ 20:12:45

Job Ticket #: 50603 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

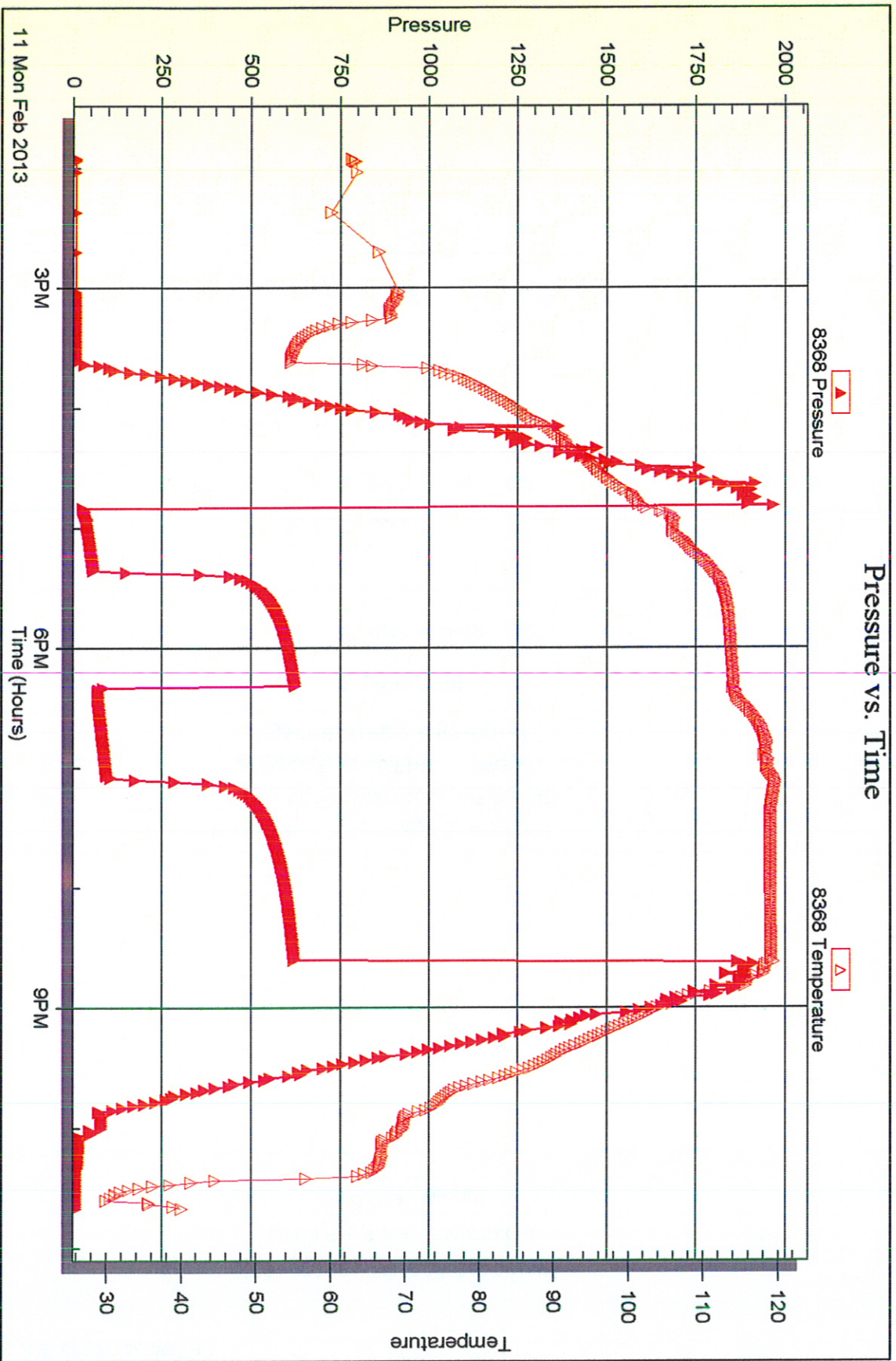
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Serial #: 8368

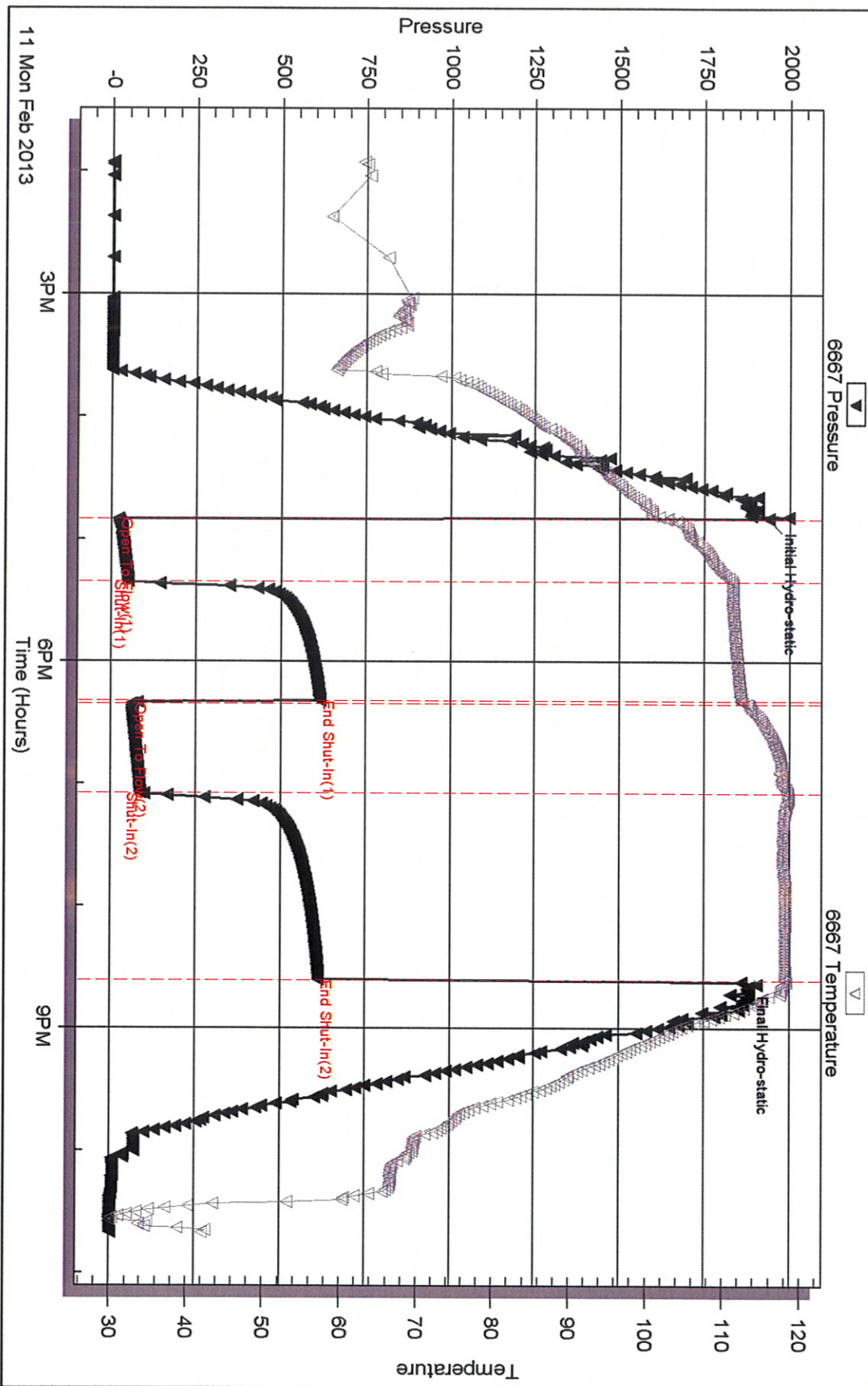
Outside Calbreath Oil & Gas Co.

Mader #1-1

DST Test Number: 3



Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath Oil & Gas Co.

1-10s-26w Sheridan,KS

1532 S. Peoria Avenue
Tulsa, OK 74120

Mader #1-1

Job Ticket: 50602

DST#: 3

ATTN: Steve Murphy

Test Start: 2013.02.11 @ 13:55:00

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: 58.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
62.00	MCW - 25%M - 75%W	0.870
62.00	MCW - 30%M - 70%E	0.870
26.00	WCM w /oil spots - 45%W - 55%M	0.365

Total Length: 150.00 ft Total Volume: 2.105 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .676 @ 36 DEG F
Chlorides = 18000



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Culbreath Oil & Gas Co.

1-10s-26w Sheridan,KS

1532 S. Peoria Avenue
Tulsa, OK 74120

Mader #1-1

Job Ticket: 50602

DST#: 3

ATTN: Steve Murphy

Test Start: 2013.02.11 @ 13:55:00

Tool Information

Drill Pipe:	Length: 3876.00 ft	Diameter: 3.80 inches	Volume: 54.37 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 54.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3896.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3870.00	
Shut In Tool	5.00			3875.00	
Hydraulic tool	5.00			3880.00	
Jars	5.00			3885.00	
Safety Joint	2.00			3887.00	
Packer	5.00			3892.00	27.00 Bottom Of Top Packer
Packer	4.00			3896.00	
Stubb	1.00			3897.00	
Recorder	0.00	6667	Inside	3897.00	
Recorder	0.00	8368	Outside	3897.00	
Perforations	18.00			3915.00	
Bullnose	5.00			3920.00	24.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Culbreath Oil & Gas Co.
1532 S. Peoria Avenue
Tulsa, OK 74120
ATTN: Steve Murphy

1-10s-26w Sheridan,KS

Mader #1-1

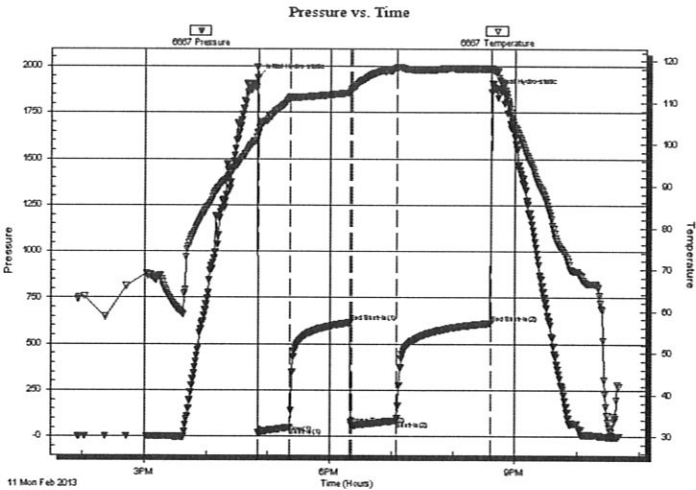
Job Ticket: 50602 **DST#: 3**
Test Start: 2013.02.11 @ 13:55:00

GENERAL INFORMATION:

Formation: **LKC "E- F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:50:00
Time Test Ended: 22:40:15
Interval: **3896.00 ft (KB) To 3920.00 ft (KB) (TVD)**
Total Depth: 3920.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Reference Elevations: 2579.00 ft (KB)
2570.00 ft (CF)
KB to GR/CF: 9.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Ryan Nichols
Unit No: 55

Serial #: 6667 **Inside**
Press@RunDepth: 85.87 psig @ 3897.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.02.11 End Date: 2013.02.11 Last Calib.: 2013.02.11
Start Time: 13:55:15 End Time: 22:40:15 Time On Btm: 2013.02.11 @ 16:49:45
Time Off Btm: 2013.02.11 @ 20:37:00

TEST COMMENT: 30 IF - 1" blow built to 7 1/2" (in diesel)
60 ISI - No return
45 FF - Surface blow started @ 3 mins built to 5 1/2"
90 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1937.03	102.86	Initial Hydro-static
1	20.26	102.67	Open To Flow (1)
31	48.93	111.21	Shut-In(1)
90	615.93	112.36	End Shut-In(1)
91	62.09	113.13	Open To Flow (2)
135	85.87	118.42	Shut-In(2)
227	612.68	118.11	End Shut-In(2)
228	1859.87	118.28	Final Hydro-static

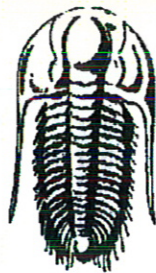
Recovery

Length (ft)	Description	Volume (bbl)
62.00	MCW - 25%M - 75%W	0.87
62.00	MCW - 30%M - 70%E	0.87
26.00	WCM w /oil spots - 45%W - 55%M	0.36

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Culbreath Oil & Gas Co.**

1532 S. Peoria Avenue
Tulsa, OK 74120

ATTN: Steve Murphy

Mader #1-1

1-10s-26w Sheridan,KS

Start Date: 2013.02.11 @ 13:55:00

End Date: 2013.02.11 @ 22:40:15

Job Ticket #: 50602 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.02.22 @ 10:33:52

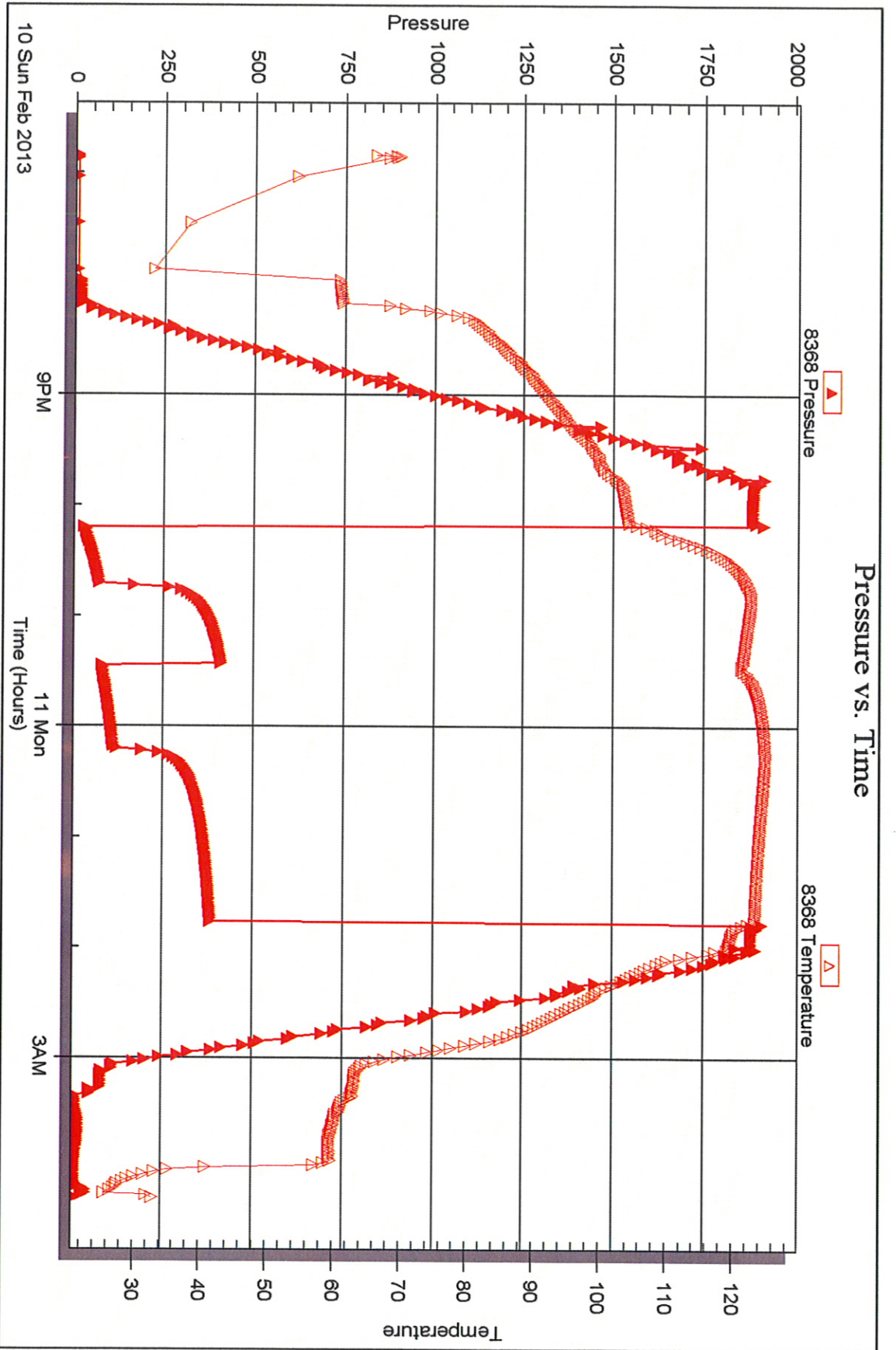
Culbreath Oil & Gas Co. 1-10s-26w Sheridan,KS

Mader #1-1

DST # 3

LKC "E - F"

2013.02.11



Serial #: 6667

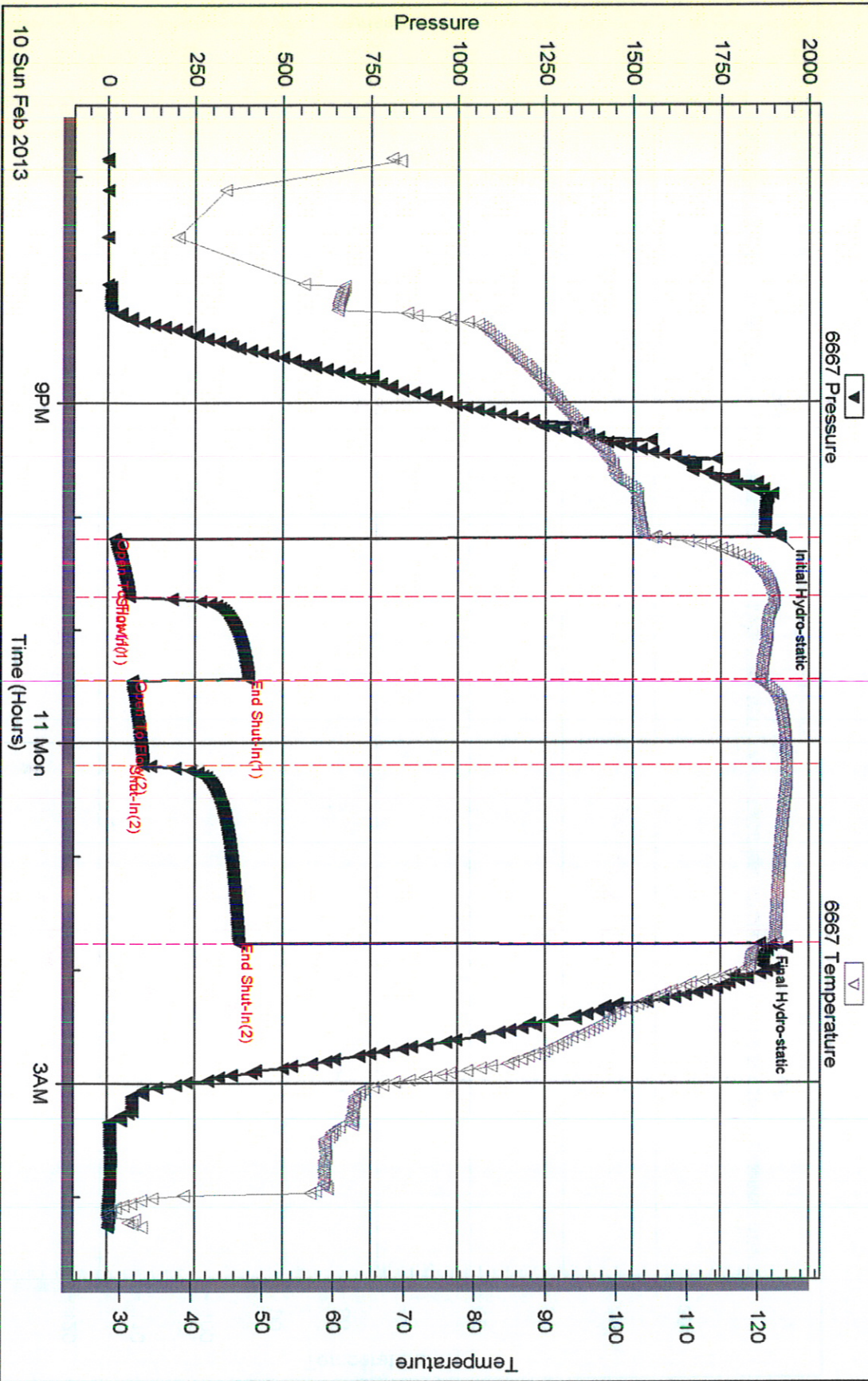
Inside

Culbreath Oil & Gas Co.

Mader #1-1

DST Test Number: 2

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath Oil & Gas Co.

1-10s-26w Sheridan,KS

1532 S. Peoria Avenue
Tulsa, OK 74120

Mader #1-1

Job Ticket: 51400

DST#: 2

ATTN: Steve Murphy

Test Start: 2013.02.10 @ 18:50:00

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:

24000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.94 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	MCW - 10%M - 90%W	0.870
62.00	MCW - 5%M - 95%W	0.870
62.00	OCW - 20%o - 80%W	0.870

Total Length: 186.00 ft Total Volume: 2.610 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

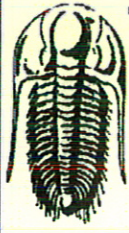
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .770 @ 26 Deg F

Chlorides = 24,000 ppm



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Culbreath Oil & Gas Co.

1-10s-26w Sheridan,KS

1532 S. Peoria Avenue
Tulsa, OK 74120

Mader #1-1

Job Ticket: 51400

DST#: 2

ATTN: Steve Murphy

Test Start: 2013.02.10 @ 18:50:00

Tool Information

Drill Pipe:	Length: 3844.00 ft	Diameter: 3.80 inches	Volume: 53.92 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 56000.00 lb
		Total Volume: 53.92 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3866.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3840.00	
Shut In Tool	5.00			3845.00	
Hydraulic tool	5.00			3850.00	
Jars	5.00			3855.00	
Safety Joint	2.00			3857.00	
Packer	5.00			3862.00	27.00 Bottom Of Top Packer
Packer	4.00			3866.00	
Stubb	1.00			3867.00	
Recorder	0.00	6667	Inside	3867.00	
Recorder	0.00	8368	Outside	3867.00	
Perforations	14.00			3881.00	
Bullnose	5.00			3886.00	20.00 Bottom Packers & Anchor

Total Tool Length: 47.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Culbreath Oil & Gas Co.

1-10s-26w Sheridan,KS

1532 S. Peoria Avenue
Tulsa, OK 74120

Mader #1-1

Job Ticket: 50603

DST#: 4

ATTN: Steve Murphy

Test Start: 2013.02.12 @ 12:00:00

Tool Information

Drill Pipe:	Length: 3969.00 ft	Diameter: 3.80 inches	Volume: 55.67 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	58000.00 lb
			<u>Total Volume: 55.67 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3994.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	26.00 ft				
Tool Length:	53.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3968.00	
Shut In Tool	5.00			3973.00	
Hydraulic tool	5.00			3978.00	
Jars	5.00			3983.00	
Safety Joint	2.00			3985.00	
Packer	5.00			3990.00	27.00 Bottom Of Top Packer
Packer	4.00			3994.00	
Stubb	1.00			3995.00	
Recorder	0.00	6667	Inside	3995.00	
Recorder	0.00	8368	Outside	3995.00	
Perforations	20.00			4015.00	
Bullnose	5.00			4020.00	26.00 Bottom Packers & Anchor
Total Tool Length:	53.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath Oil & Gas Co.

1-10s-26w Sheridan,KS

1532 S. Peoria Avenue
Tulsa, OK 74120

Mader #1-1

Job Ticket: 50603

DST#: 4

ATTN: Steve Murphy

Test Start: 2013.02.12 @ 12:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1302.00	GO - 20%G - 80%o	18.264
2294.00	GIP	32.179

Total Length: 3596.00 ft Total Volume: 50.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API = 35 @ 50 Deg F = 36 COR

Serial #: 6667

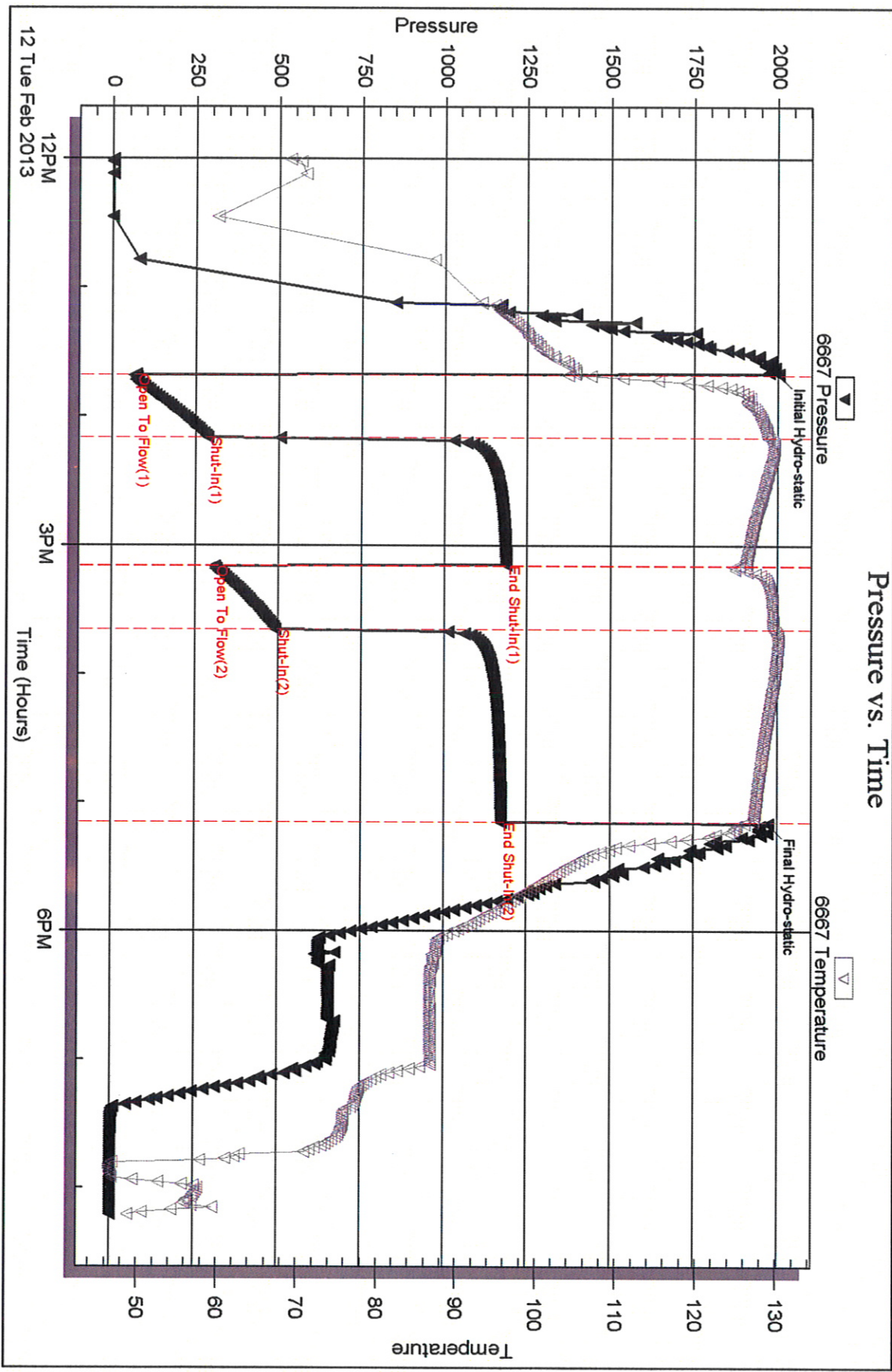
Inside

Culbreath Oil & Gas Co.

Mader #1-1

DST Test Number: 4

Pressure vs. Time



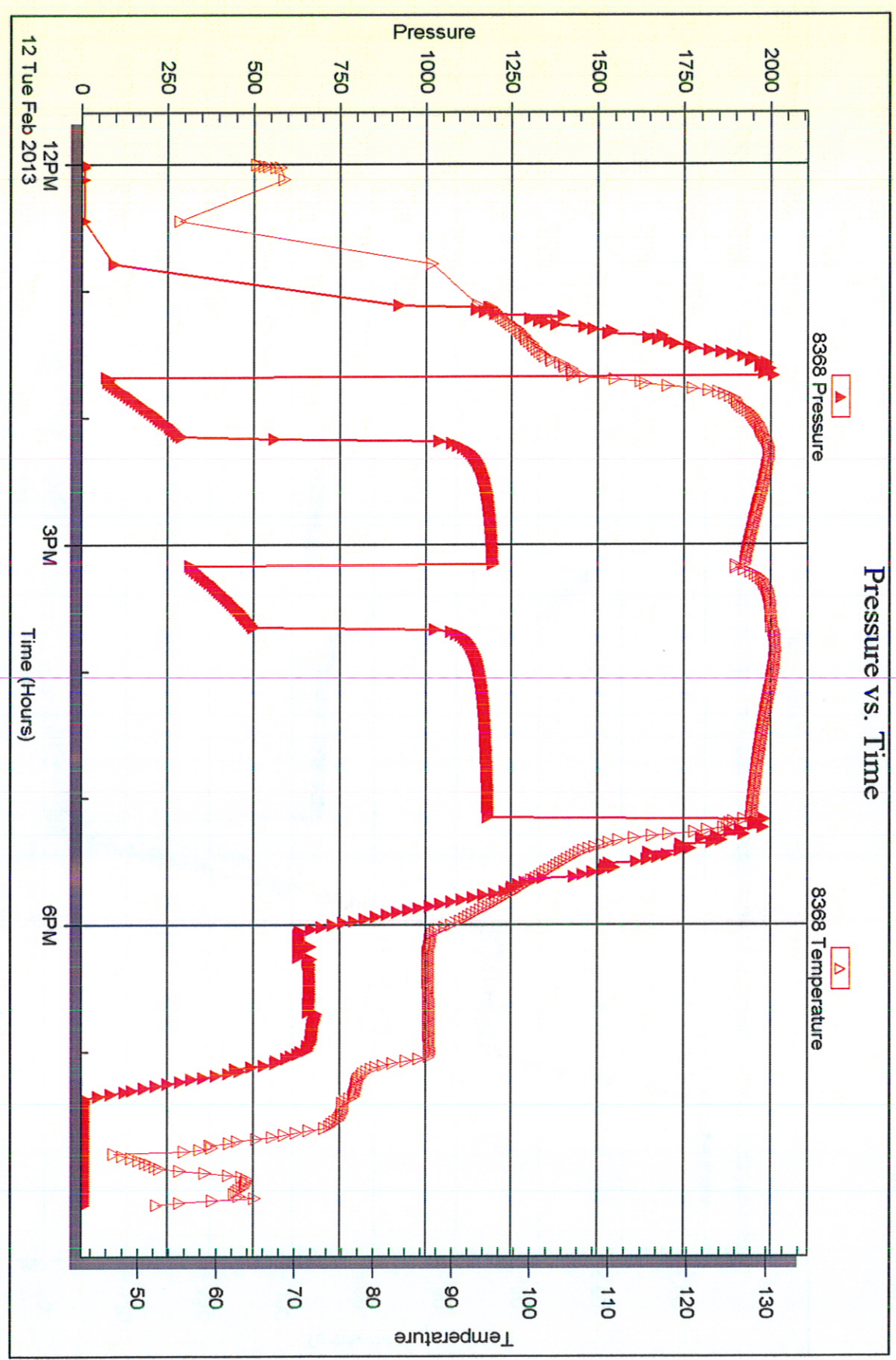
Serial #: 8368

Outside Culbreath Oil & Gas Co.

Mader #1-1

DST Test Number: 4

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 50603

Printed: 2013.02.22 @ 10:33:02



DRILL STEM TEST REPORT

Prepared For: **Culbreath Oil & Gas Co.**

1532 S. Peoria Avenue
Tulsa, OK 74120

ATTN: Steve Murphy

Mader #1-1

1-10s-26w Sheridan,KS

Start Date: 2013.02.13 @ 03:51:00

End Date: 2013.02.13 @ 11:27:00

Job Ticket #: 50604 DST #: 5

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

Printed: 2013.02.22 @ 10:32:26

Culbreath Oil & Gas Co. 1-10s-26w Sheridan,KS Mader #1-1 DST # 5 LKC "K" 2013.02.13



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath Oil & Gas Co.

1-10s-26w Sheridan,KS

1532 S. Peoria Avenue
Tulsa, OK 74120

Mader #1-1

Job Ticket: 50604

DST#: 5

ATTN: Steve Murphy

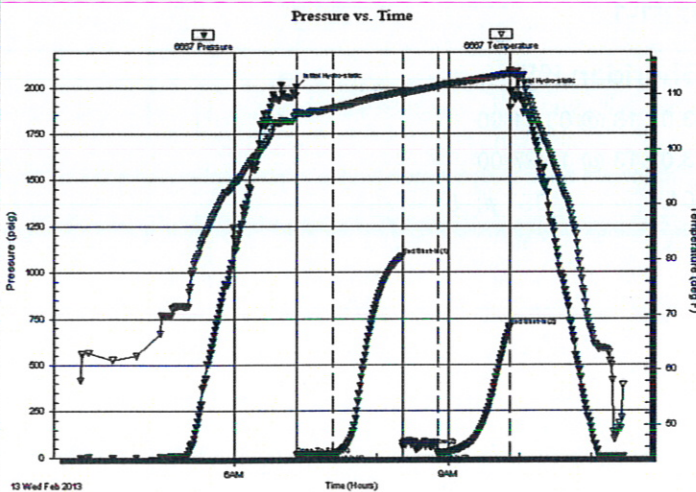
Test Start: 2013.02.13 @ 03:51:00

GENERAL INFORMATION:

Formation: **LKC "K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:52:30
 Time Test Ended: 11:27:00
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Nichols
 Unit No: 55
 Interval: **4018.00 ft (KB) To 4036.00 ft (KB) (TVD)**
 Total Depth: 4036.00 ft (KB) (TVD)
 Reference Elevations: 2579.00 ft (KB)
 2570.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good
 KB to GR/CF: 9.00 ft

Serial #: 6667 Inside
 Press@RunDepth: 18.81 psig @ 4019.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.02.13 End Date: 2013.02.13 Last Calib.: 2013.02.13
 Start Time: 03:51:15 End Time: 11:27:00 Time On Btm: 2013.02.13 @ 06:52:15
 Time Off Btm: 2013.02.13 @ 09:52:15

TEST COMMENT: 30 IF - Surface blow started @ 4 mins built to 1 1/16" (in diesel)
 60 ISI - No return
 30 FF - No blow
 60 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2003.64	106.83	Initial Hydro-static
1	15.53	106.46	Open To Flow (1)
31	18.19	107.50	Shut-In(1)
90	1087.93	110.48	End Shut-In(1)
90	62.58	109.85	Open To Flow (2)
120	18.81	111.44	Shut-In(2)
180	703.97	113.75	End Shut-In(2)
180	1973.84	114.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w / oil spots - 100%M	0.07

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath Oil & Gas Co.

1-10s-26w Sheridan,KS

1532 S. Peoria Avenue
Tulsa, OK 74120

Mader #1-1

Job Ticket: 50604

DST#: 5

ATTN: Steve Murphy

Test Start: 2013.02.13 @ 03:51:00

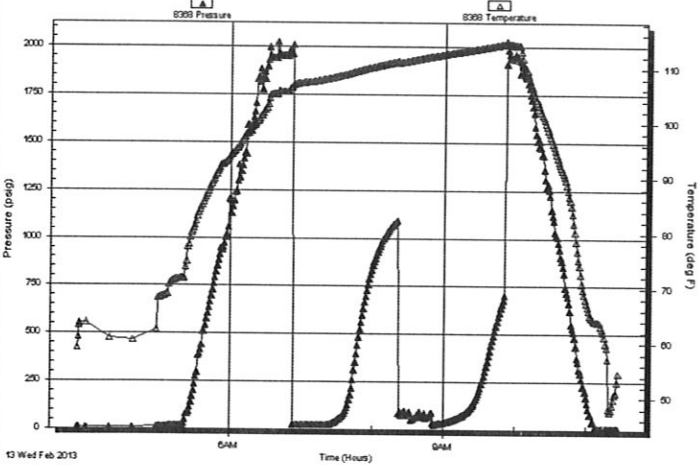
GENERAL INFORMATION:

Formation: **LKC "K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:52:30
 Time Test Ended: 11:27:00
 Interval: **4018.00 ft (KB) To 4036.00 ft (KB) (TVD)**
 Total Depth: 4036.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Nichols
 Unit No: 55
 Reference Elevations: 2579.00 ft (KB)
 2570.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8368 Outside
 Press@RunDepth: psig @ 4019.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.02.13 End Date: 2013.02.13 Last Calib.: 2013.02.13
 Start Time: 03:51:05 End Time: 11:26:59 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 IF - Surface blow started @ 4 mins built to 1 1/16" (in diesel)
 60 ISI - No return
 30 FF - No blow
 60 FSI - No return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w/ oil spots - 100%M	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Culbreath Oil & Gas Co.

1-10s-26w Sheridan,KS

1532 S. Peoria Avenue
Tulsa, OK 74120

Mader #1-1

Job Ticket: 50604

DST#: 5

ATTN: Steve Murphy

Test Start: 2013.02.13 @ 03:51:00

Tool Information

Drill Pipe:	Length: 4000.00 ft	Diameter: 3.80 inches	Volume: 56.11 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 56.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4018.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3992.00	
Shut In Tool	5.00			3997.00	
Hydraulic tool	5.00			4002.00	
Jars	5.00			4007.00	
Safety Joint	2.00			4009.00	
Packer	5.00			4014.00	27.00 Bottom Of Top Packer
Packer	4.00			4018.00	
Stubb	1.00			4019.00	
Recorder	0.00	6667	Inside	4019.00	
Recorder	0.00	8368	Outside	4019.00	
Perforations	12.00			4031.00	
Bullnose	5.00			4036.00	18.00 Bottom Packers & Anchor

Total Tool Length: 45.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath Oil & Gas Co.

1-10s-26w Sheridan,KS

1532 S. Peoria Avenue
Tulsa, OK 74120

Mader #1-1

Job Ticket: 50604

DST#: 5

ATTN: Steve Murphy

Test Start: 2013.02.13 @ 03:51:00

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: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w / oil spots - 100%M	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

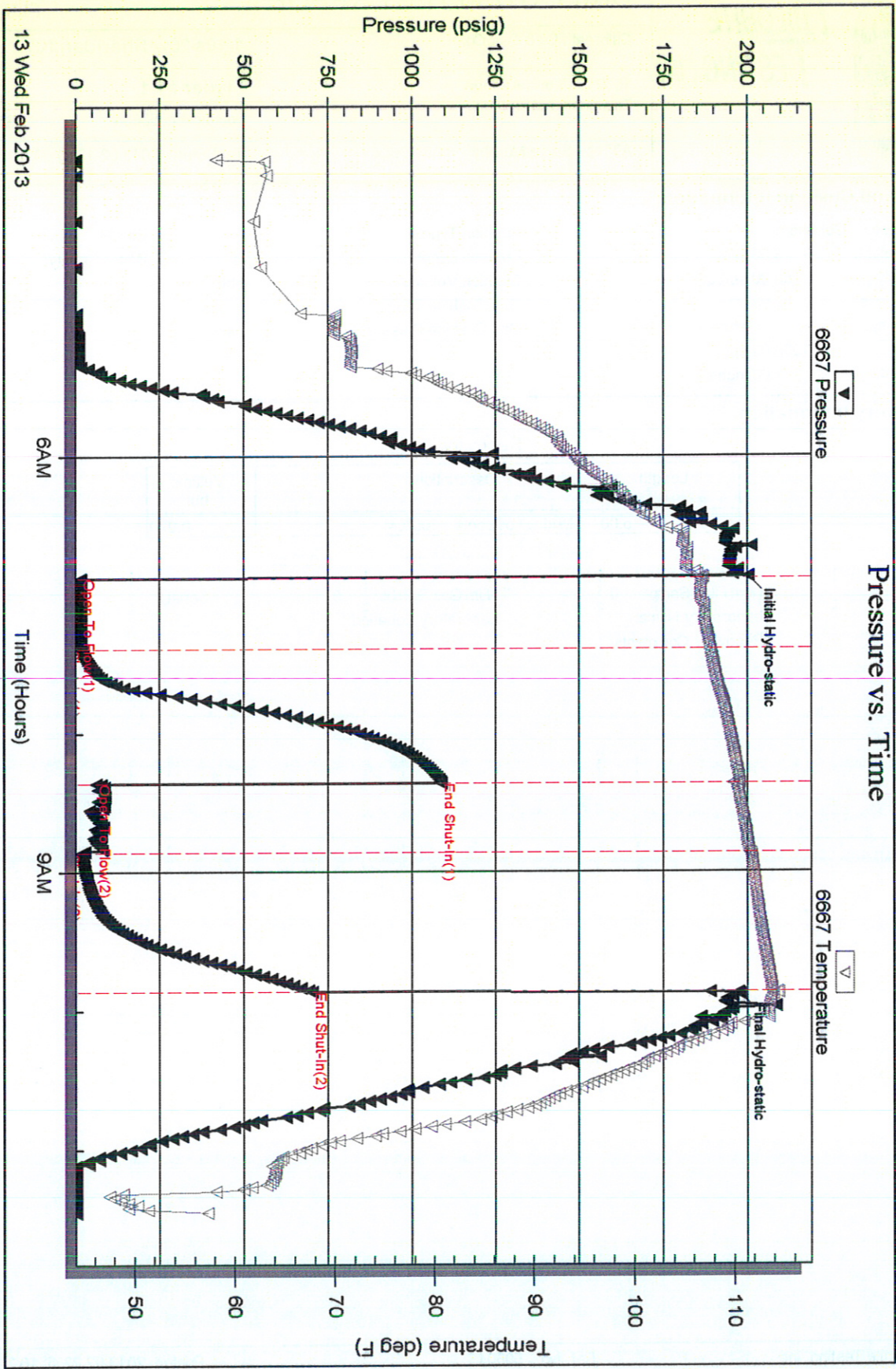
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

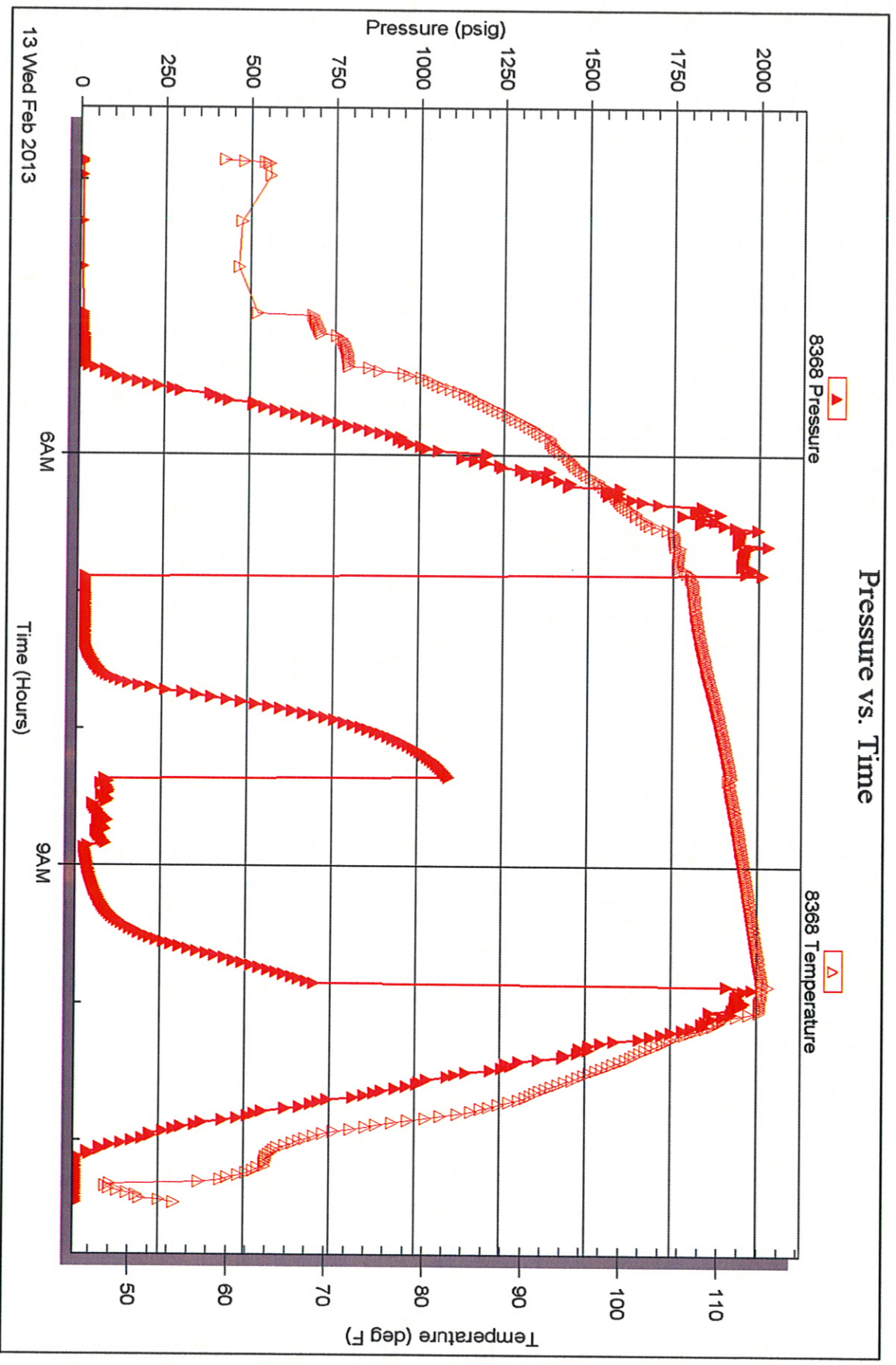


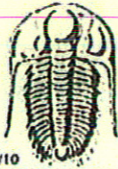
Serial #: 8368

Outside Culbreath Oil & Gas Co.

Mader #1-1

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51399

Well Name & No. Culbreath Oil & Gas Co. 5 Test No. 1 Date 02/9/13
 Company Mader #1-1 Elevation 2579 KB ~~2579~~ 2579
 Address 1532 S. Peoria Avenue Tulsa OK, 74120
 Co. Rep / Geo. Steve Murphy Rig Maverick 108
 Location: Sec. 1 Twp. 10S Rge. 26W Co. Sheridan State KS

Interval Tested 3796-3830 Zone Tested Tronto "A"
 Anchor Length 34' Drill Pipe Run 3782' Mud Wt. 9
 Top Packer Depth 3791 Drill Collars Run 0' Vis 48
 Bottom Packer Depth 3796 Wt. Pipe Run 0' WL 8.0
 Total Depth 3830 Chlorides 1000 ppm System LCM 2

Blow Description IF - Surface blow built to 1 1/2"
ISI - No return
FF - No blow
FSE - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30'</u>	<u>Mud w/oil spots</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30' BHT 113" Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1893 Test 1150 T-On Location 20:00
 (B) First Initial Flow 18 Jars 250 T-Started 21:55
 (C) First Final Flow 24 Safety Joint 75 T-Open 01:21
 (D) Initial Shut-In 703 Circ Sub NC T-Pulled 04:43
 (E) Second Initial Flow 55 Hourly Standby X 2 200 T-Out 07:20
 (F) Second Final Flow 30 Mileage 122 RT 189.10
 (G) Final Shut-In 691 Sampler _____
 (H) Final Hydrostatic 1808 Straddle _____

Initial Open 30 Shale Packer _____
 Initial Shut-In 60 Extra Packer _____
 Final Flow 40 Extra Recorder _____
 Final Shut-In 60 Day Standby _____
 Accessibility _____

Sub Total 1864.10

Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1864.10
 MP/DST Disc'l _____

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss entered 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. 51400

Well Name & No. Mude # 1-1 Test No. 2 Date 2/10/13
 Company Culbreath Oil & Gas Co. Elevation 2579 KB 2570 GL
 Address 1532 S. Peoria Avenue Tulsa, OK 74120
 Co. Rep / Geo. Steve Murphy Rig Maverick 108
 Location: Sec. 1 Twp. 10S Rge. 26W Co. Sheridan State KS

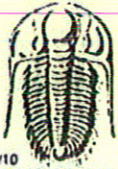
Interval Tested 3866-3886 Zone Tested LKC "D"
 Anchor Length 20' Drill Pipe Run 3844' Mud Wt. 9.4
 Top Packer Depth 3861 Drill Collars Run 0' Vis 51
 Bottom Packer Depth 8866 WI. Pipe Run 0' WL 8.8
 Total Depth 3886 Chlorides 1000 ppm System LCM 3
 Blow Description LF - 1/2" blow built to BOB in 30 mins (in diesel)
TSI - No return
FF - Surface blow started @ 2 mins built to 7 1/2"
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
62'	OCW	20	80		
62'	MCW		95	5	
62'	MCW		90	10	

Rec Total 186' BIT 122 Gravity — API RW .770@ 26 °F Chlorides 24000 ppm

(A) Initial Hydrostatic <u>1918</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>18:00</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>18:50</u>
(C) First Final Flow <u>63</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>20:00</u> <u>12</u>
(D) Initial Shut-In <u>402</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>01:42</u>
(E) Second Initial Flow <u>72</u>	<input checked="" type="checkbox"/> Hourly Standby <u>X 1</u> <u>100</u>	T-Out <u>04:16</u>
(F) Second Final Flow <u>101</u>	<input checked="" type="checkbox"/> Mileage <u>122 RT</u> <u>189.10</u>	Comments _____
(G) Final Shut-In <u>375</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1863</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	Total <u>1764.10</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1764.10</u>	

Approved By _____ Our Representative Steve Murphy
 Trilobite Testing Inc. shall not be liable for damaged or 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. 50602

Well Name & No. Mader #1-1 Test No. 3 Date 2/11/13
 Company Culbreath Oil & Gas Co. Elevation 2579 KB 2970 GL
 Address 1532 S. Peoria Avenue Tulsa, OK 74120
 Co. Rep / Geo. Steve Murphy Rig Maverick 108
 Location: Soc. 1 Twp. 10S Rge. 26W Co. Sheridan State KS

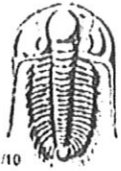
Interval Tested 3896-3920 Zone Tested LKC "E-F"
 Anchor Length 24' Drill Pipe Run 3876' Mud Wt. 9.3
 Top Packer Depth 3891 Drill Collars Run 0' Vis 58
 Bottom Packer Depth 3896 Wt. Pipe Run 0' WL 8
 Total Depth 3920 Chlorides 1000 ppm System LCM 4

Blow Description IF - 1" blow built to 7 1/2" (in diesel)
ISI - No return
FF - Surface blow started @ 3 mins built to 5 1/2"
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>@ 26'</u>	<u>WCM w/oil spots</u>		<u>45</u>	<u>55</u>	
<u>62'</u>	<u>MCW</u>		<u>70</u>	<u>30</u>	
<u>62'</u>	<u>MCW</u>		<u>75</u>	<u>25</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec Total	<u>150'</u>	BHT <u>118°</u>	Gravity <u>—</u>	API RW <u>.676 @ 36° F</u>	Chlorides <u>18,000</u> ppm

(A) Initial Hydrostatic 1937 Test 1150 T-On Location 13:50
 (B) First Initial Flow 20 Jars 250 T-Started 13:55
 (C) First Final Flow 49 Safety Joint 75 T-Open 16:50
 (D) Initial Shut-In 616 Circ Sub NC T-Pulled 20:35
 (E) Second Initial Flow 62 Hourly Standby _____ T-Out 22:39
 (F) Second Final Flow 86 Mileage 122 RT 189.10
 (G) Final Shut-In 613 Sampler _____
 (H) Final Hydrostatic 1860 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1664.10
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 90 Sub Total 1664.10

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50603

Well Name & No. Mader #1-1 Test No. 4 Date 2/12/13
 Company Culbreath Oil & Gas Co. Elevation 2579 KB 2570 GL
 Address 1532 S. Peoria Avenue @ Tulsa, OK 74120
 Co. Rep / Geo. Steve Murphy Rig Maverick 108
 Location: Sec. 1 Twp. 10S Rgo. 26W Co. Sheridan State KS

Interval Tested 3994 - 4020 Zone Tested LKC "J"
 Anchor Length 26' Drill Pipe Run 3969' Mud Wt. 9.7
 Top Packer Depth 3989 Drill Collars Run 0' Vis 68
 Bottom Packer Depth 3994 Wt. Pipe Run 0' WL 8.0
 Total Depth 4020 Chlorides 1000 ppm System LCM 4

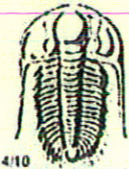
Blow Description IF - Bob in 2 mins (in diesel)
ISI - Surface blow built to Bob in 7.0 mins
FF - Bob in 2 mins
FSI - Surface blow built to Bob in 10 mins

Rec	Feet of	%gas	%oil	%water	%mud
0	0				
<u>1302'</u>	<u>60</u>	<u>.20</u>	<u>80</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1302 BHT 127° Gravity 36 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2001</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>11:50</u>
(B) First Initial Flow <u>71</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>12:00</u>
(C) First Final Flow <u>288</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>13:41</u>
(D) Initial Shut-In <u>1188</u>	<input checked="" type="checkbox"/> Circ Sub <u>50</u>	T-Pulled <u>17:01</u>
(E) Second Initial Flow <u>309</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>20:12</u>
(F) Second Final Flow <u>491</u>	<input checked="" type="checkbox"/> Mileage <u>1.22 RT</u> 189.10	Comments
(G) Final Shut-In <u>1174</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1973</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1814.10</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1814.10</u>	

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50604

Well Name & No. Mader # 1-1 Test No. 5 Date 2/13/13
 Company Calbreath Oil & Gas Co. Elevation 2579 KB 2570 GL
 Address 1532 S. Peoria Avenue Tulsa, OK 74120
 Co. Rep / Geo. Steve Murphy Rig Maverick 108
 Location: Soc. 1 Twp. 10S Rge. 26W Co. Sheridan State KS

Interval Tested 4018 - 4036 Zone Tested LKC "K"
 Anchor Length 18' Drill Pipe Run 4000' Mud Wt. 9.3
 Top Packer Depth 4013 Drill Collars Run 0' Vis 58
 Bottom Packer Depth 4018 Wt. Pipe Run 0' WL 8
 Total Depth 4036 Chlorides 1000 ppm System LCM 4

Blow Description IF - Surface blow started @ 4 mins built to 1 1/2" (indical)
ISI - No return
FF - No blow
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</u>	<u>Mud w/oil spots</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 1140 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2000 2064</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>03:30</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>03:51</u>
(C) First Final Flow <u>18</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>06:51</u>
(D) Initial Shut-In <u>1088</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>09:51</u>
(E) Second Initial Flow <u>63</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>11:27</u>
(F) Second Final Flow <u>19</u>	<input checked="" type="checkbox"/> Mileage <u>122 RT</u> 189.10	Comments _____
(G) Final Shut-In <u>704</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>1974</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1764.10</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1764.10</u>	

Approved By _____ Our Representative Steve Murphy

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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

March 17, 2013

Charles Culbreath
Culbreath Oil & Gas Company, Inc.
1532 S PEORIA AVE
TULSA, OK 74120-6202

Re: ACO1
API 15-179-21325-00-00
Mader 1-01
NW/4 Sec.01-10S-26W
Sheridan County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Charles Culbreath