



Confidentiality Requested:

Yes No

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: _____

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 <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 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
<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> <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	Minney 1-12
Doc ID	1358334

All Electric Logs Run

CND
DIL
Micro
Dev

Form	ACO1 - Well Completion
Operator	Culbreath Oil & Gas Company, Inc.
Well Name	Minney 1-12
Doc ID	1358334

Tops

Name	Top	Datum
Anhydrite	2870	308
Base Ahydrite	2909	+269
Topeka	3840	-662
Heebner	4060	-882
Lansing	4060	-882
Muncie	4177	-999
Stark	4252	-1074
Hushpukney	4285	-1107
BKC	4304	1126
Pawnee	4433	-1255
Fort Scott	4477	-1299
Cherokee	4506	-1328
Mississ	4748	570

Summary of Changes

Lease Name and Number: Minney 1-12

API/Permit #: 15-153-21130-00-00

Doc ID: 1358334

Correction Number: 1

Approved By: Karen Ritter

Field Name	Previous Value	New Value
Approved By	NAOMI JAMES	Karen Ritter
Approved Date	07/06/2015	06/26/2017
Completion Or Recompletion Date	05/06/2015	06/01/2015
Save Link	../../../../kcc/detail/operatorEditDetail.cfm?docID=1256637	../../../../kcc/detail/operatorEditDetail.cfm?docID=1358334



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1256637
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

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

CONFIDENTIAL 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: _____

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 <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 Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No 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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
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>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Culbreath Oil & Gas Company, Inc.
Well Name	Minney 1-12
Doc ID	1256637

All Electric Logs Run

CND
DIL
Micro
Dev

Form	ACO1 - Well Completion
Operator	Culbreath Oil & Gas Company, Inc.
Well Name	Minney 1-12
Doc ID	1256637

Tops

Name	Top	Datum
Anhydrite	2870	308
Base Ahydrite	2909	+269
Topeka	3840	-662
Heebner	4060	-882
Lansing	4060	-882
Muncie	4177	-999
Stark	4252	-1074
Hushpukney	4285	-1107
BKC	4304	1126
Pawnee	4433	-1255
Fort Scott	4477	-1299
Cherokee	4506	-1328
Mississ	4748	570

Form	ACO1 - Well Completion
Operator	Culbreath Oil & Gas Company, Inc.
Well Name	Minney 1-12
Doc ID	1256637

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	4513-18	1500 gal 15% MCA	



REMIT TO
 Consolidated Oil Well Services, LLC
 Dept:970
 P.O.Box 4346
 Houston, TX 77210-4346

MAIN OFFICE

P.O.Box884
 Chanute, KS 66720
 620/431-9210, 1-800/467-8676
 Fax 620/431-0012

Invoice

Invoice#

804250

Invoice Date: 05/20/15

Terms: Net 30

Page 1

CULBREATH OIL & GAS CO.INC

1532 S. PEORIA AVE
 TULSA OK 74120
 USA
 9187493508

MINNEY 1-22

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0453	Cement Pump Charge 4001' - 5000'	1.000	3,175.0000	25.000	2,381.25
CE0002	Equipment Mileage Charge - Heavy Equipment	10.000	5.2500	25.000	39.38
CE0710	Cement Delivery Charge	1.000	476.8700	25.000	357.65
CC5800	Class A Cement	350.000	27.9200	25.000	7,329.00
CC5860	ThixdoBlend I	200.000	23.7000	25.000	3,555.00
CC6077	Kolseal	1,000.000	0.5600	25.000	420.00
4159	Float Shoe AFU 5 1/2	1.000	433.7500	25.000	325.31
4454	5 1/2 Latch Down Plug	1.000	318.2500	25.000	238.69
4130	Centralizer 5 1/2	10.000	61.0000	25.000	457.50
4104	Cement Basket 5 1/2	3.000	290.0000	25.000	652.50
4314	Reciprocating Scratchers	39.000	82.0000	25.000	2,398.50
CC6125	Mud Flush, Viscous	500.000	1.0000	25.000	375.00
CC5301	KCL-SubC, KCI Substitute	2.000	41.1000	25.000	61.65

Subtotal 24,788.57

Discounted Amount 6,197.14

SubTotal After Discount 18,591.43

Amount Due 26,454.22 If paid after 06/19/15

Tax: 1,249.24

Total: 19,840.67



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

2800

Invoice # 2158
884250
FIELD TICKET & TREATMENT REPORT

TICKET NUMBER 49447
LOCATION Oakley, KS
FOREMAN Kelly Gabe
Miles shaw

CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-6-15	2777	Minnex 1-22	12	5	36W	Rawlins
CUSTOMER			Levant			
MAILING ADDRESS			N TOP 53			
CITY			W to culv			
STATE			N TOP 59			
ZIP CODE			W to RD 7			
			S 2 mi			
			S 2 mi			

JOB TYPE Prod HOLE SIZE 7 7/8 HOLE DEPTH 4830 CASING SIZE & WEIGHT 5 1/2 15.5#
 CASING DEPTH 4813.32 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 112,148 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 41.13'
 DISPLACEMENT 113 1/2 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting, ran float equip. on jlt scratchers 4 per AT 5, 6, 7, 8, 9
 10, 11, 12, 128 scratchers, 13 cent 4, 6, 8, 10, 12, 14, 16, 18, 23, 46 baskets 5, 24, 47
 ran pipe to bottom & circulated for 1 hr mixed mud flush, 2000# KCL
 mixed 305SKSRH, mixed 320SKSCMD, tailed in with 200SKSOWC
 5# Kol-seal, washed out pumps, released Plug + displaced with 1/3 bbs water
 at pressure, 700# Plug landed @ 2100#. Had good returns throughout
 displacement

Cement did not circulate

Thank you
Miles Shaw + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	3175.00	3175.00
5406	10 mi	MILEAGE	52.50	525.00
5407A	27.25 ton	Ton mileage delivery	175	4768.75
1104D	350 SKS	CMD	27.92	9772.00
1126	200 SKS	OWC	23.70	4740.00
110A	1000#	Kol-seal	.56	560.00
4159	1	5 1/2 AFU Floatshoe (CI)	433.75	433.75
4154	1	5 1/2 latchdown / w Plug (w)	318.75	318.75
4130	10	5 1/2 centralizer (w)	61.00	610.00
4104	3	5 1/2 basket (w)	290.00	870.00
4314	39	5 1/2 reciprocating scratchers (w)	82.00	3198.00
11446	500 gal	mud flush	1.00	500.00
1142A	2 gal	KCL	41.10	82.20
		Sub		24,278.52
		less 2590		6194.64
		total		18,591.43
		SALES TAX		1249.24
		ESTIMATED TOTAL		19,840.67

AUTHORIZATION [Signature] TITLE _____ DATE 5-6-15

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

TERMS

In consideration of the prices to be charged for Consolidated Oil Well Services, LLC (COWS) services, equipment and products and for the performance of services and supplying of materials, Customer agrees to the following terms and conditions.

Terms. Cash in advance unless satisfactory credit is established. On credit sales, invoices are payable within 30 days of the invoice date. On all invoices not paid within 30 days, Customer agrees to pay COWS interest at the rate of 18% per annum or the maximum rate allowed by law, whichever is higher. In the event COWS retains an attorney to pursue collection of any account, Customer agrees to pay all collection costs and attorney's fees incurred by COWS.

Any applicable federal, state or local sales, use occupation, consumer's or emergency taxes shall be added to the quoted price. All process license fees required to be paid to others will be added to the scheduled prices.

All COWS' prices are subject to change without notice.

SERVICE CONDITIONS

Customer warrants that the well is in proper condition to receive the services, equipment, products and materials to be supplied by COWS. The Customer shall at all time have complete care, custody, and control of the well, the drilling and production equipment at the well, and the premises about the well. A responsible representative of the Customer shall be present to specify depths, pressures, or materials used for any service which is to be performed.

(a) COWS shall not be responsible for any claim, cause of action or demand (hereinafter referred to as a 'claim') for damage to property, or injury to or death of employees and representatives, of Customer or the well owner (if different from Customer), unless such damage, injury or death is caused by the willful misconduct or gross negligence of COWS, including but not limited to sub-surface damage and surface damage arising from sub-surface damage.

(b) Unless a claim is the result of the sole willful misconduct or gross negligence of COWS, Customer shall be responsible for and indemnify and hold COWS harmless from any claim for: (1) reservoir loss or damage, or property damage resulting from sub-surface pressure, losing control of the well and/or a well blowout; (2) damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by COWS; (3) injury to or death of persons, other than employees of COWS, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole; and (4) well damage or reservoir damage caused by (i) loss of circulation, cement invasion, cement misplacement, pumping cement or cement plugs on wells with loss of circulation, including the failure to displace plug to proper depth, (ii) sub-surface pressure and resulting failure to complete pumping of cement or cement plug, including dehydration of cement slurry or flashing; plugged float shoe, annulus bridging or plugging, or (iii) down hole tools being lost or left in the well, or becoming stuck in the well for any reason and by any cause. COWS may furnish down hole tools and may supply supervision for the running and placement of such tools but will not be liable for any damage, loss or result caused by the use of such tools.

Furthermore, Customer will be responsible for the cost to replace such tools if they are lost or left in the well.

(c) COWS makes no guarantee of the effectiveness of any COWS' products, supplies or materials, or the results of any COWS' treatment or services.

(d) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, COWS is unable to guarantee the accuracy of any chart interpretation, research, analysis, job recommendation or other data furnished by COWS. COWS' personnel will use their best efforts in gathering such information and their best judgement in interpreting it, but Customer agrees that COWS shall not be responsible for any damage arising from the use of such information except where due to COWS' gross negligence or willful misconduct in the preparation or furnishing of it.

(e) COWS may buy and re-sell to Customer down hole equipment, including but not limited to float equipment, DV tools, port collars, type A & B packers, and Customer agrees that COWS is not an agent or dealer for the companies who manufacture such items, and further agrees that Customer shall be solely responsible for and indemnify COWS against any claim with regard to the effectiveness, malfunction, of, or functionality of such items.

WARRANTIES - LIMITATION OF LIABILITY

COWS warrants title to the products, supplies and materials, and that the same are free from defects in workmanship and materials. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, NOR ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE, WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. COWS's liability and Customer's exclusive remedy in any claim (whether in contract, tort, breach of warranty or otherwise,) arising out of the sale or use of any COWS' products, supplies, materials or services is expressly limited to the replacement of such products, supplies, materials or services or their return to COWS or, at COWS' option, an allowance to Customer of credit for the cost of such items.

Customer waives and releases all claims against COWS for any special, incidental, indirect, consequential or punitive damages.



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Culbreath Oil & Gas Co., Inc.

12-5S-36W - Rawlins

3501 S. Yale Ave.
Tulsa Ok 74135

Minney #1-12

Job Ticket: 62365

DST#: 1

ATTN: Anthony Luna

Test Start: 2015.04.29 @ 16:14:00

GENERAL INFORMATION:

Formation: **LKC - 'H'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:12:30

Time Test Ended: 23:13:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: 4178.00 ft (KB) To 4218.00 ft (KB) (TVD)

Reference Elevations: 3178.00 ft (KB)

Total Depth: 4218.00 ft (KB) (TVD)

3173.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6753 Inside

Press@RunDepth: 72.20 psig @ 4179.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.04.29 End Date: 2015.04.29

Last Calib.: 2015.04.29

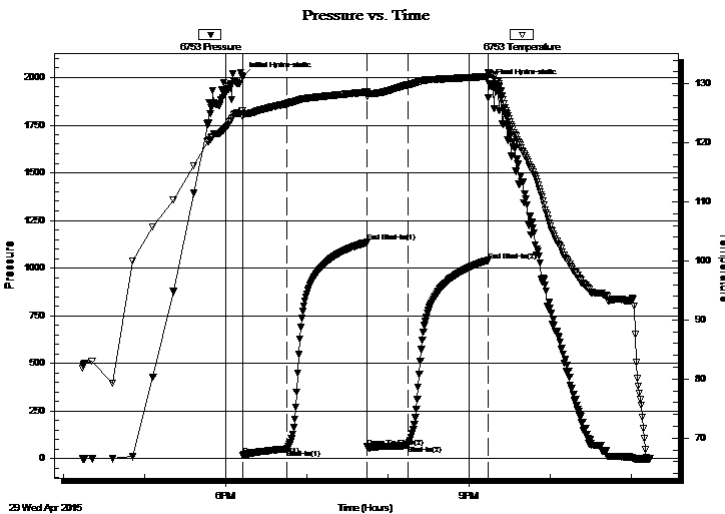
Start Time: 16:14:05 End Time: 23:13:29

Time On Btm: 2015.04.29 @ 18:12:15

Time Off Btm: 2015.04.29 @ 21:14:45

TEST COMMENT: 30 - IF - Surface blow built up to 3 1/2"
60 - ISI - No Return
30 - FF - Weak blow started in 10 mins. and built to 1 1/4"
60 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2002.99	125.44	Initial Hydro-static
1	17.51	124.46	Open To Flow (1)
33	50.60	126.61	Shut-In(1)
92	1135.58	128.58	End Shut-In(1)
93	61.88	127.90	Open To Flow (2)
123	72.20	129.82	Shut-In(2)
182	1040.45	131.25	End Shut-In(2)
183	1969.97	131.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	MCO = 45M - 55o	0.66
5.00	Free Oil	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath Oil & Gas Co., Inc.

12-5S-36W - Rawlins

3501 S. Yale Ave.
Tulsa Ok 74135

Minney #1-12

Job Ticket: 62365

DST#: 1

ATTN: Anthony Luna

Test Start: 2015.04.29 @ 16:14:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 5.59 in³

Resistivity: 0.00 ohm.m

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	MCO = 45M - 55o	0.661
5.00	Free Oil	0.070

Total Length: 131.00 ft Total Volume: 0.731 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

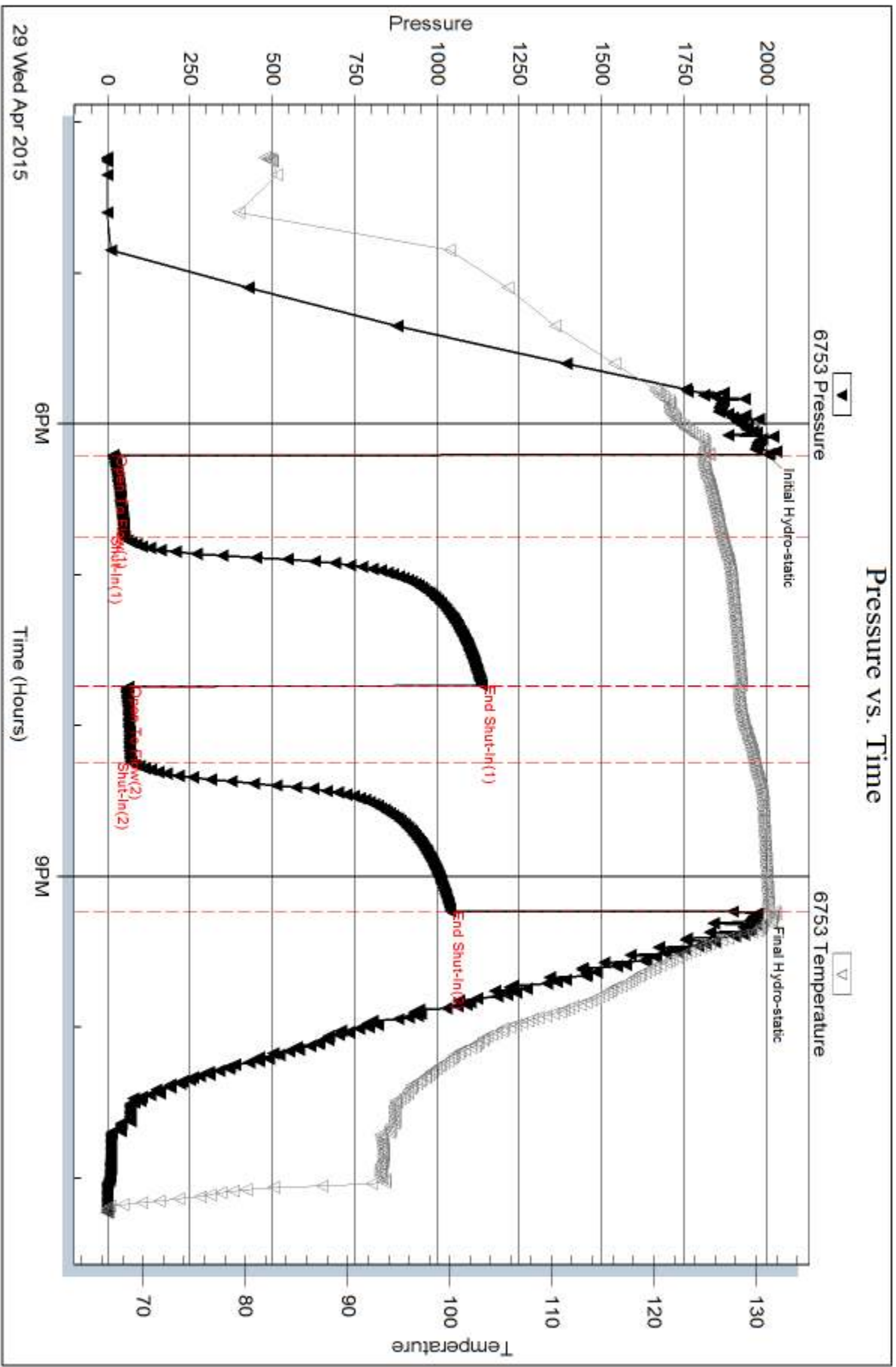
Serial #: 6753

Inside

Culbreath Oil & Gas Co., Inc.

Maney #1-12

DST Test Number: 1



29 Wed Apr 2015

Trilobite Testing, Inc

Ref. No: 62365

Printed: 2015.05.01 @ 08:28:09



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Culbreath Oil & Gas Co., Inc.

12-5S-36W - Rawlins

3501 S. Yale Ave.
Tulsa Ok 74135

Minney #1-12

Job Ticket: 62366

DST#: 2

ATTN: Anthony Luna

Test Start: 2015.04.30 @ 00:00:00

GENERAL INFORMATION:

Formation: **LKC - 'JKL'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: 4232.00 ft (KB) To 4312.00 ft (KB) (TVD)

Reference Elevations: 3178.00 ft (KB)

Total Depth: 4312.00 ft (KB) (TVD)

3173.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8368

Inside

Press@RunDepth: 1290.58 psig @ 4233.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.04.30

End Date:

2015.04.30

Last Calib.:

1899.12.30

Start Time:

14:23:05

End Time:

23:12:30

Time On Btm:

2015.04.30 @ 16:27:15

Time Off Btm:

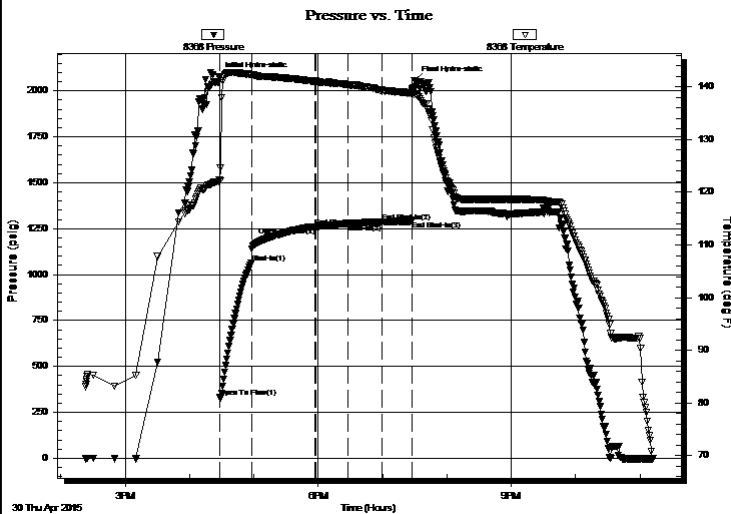
2015.04.30 @ 19:29:44

TEST COMMENT: 30 - IF - Built to bottom of the bucket in 1 min.

60 - ISI - bottom of the bucket

30 - FF - built up to 7 1/2"

60 - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2076.40	122.04	Initial Hydro-static
2	331.24	122.13	Open To Flow (1)
31	1062.84	142.32	Shut-In(1)
90	1261.32	141.02	End Shut-In(1)
90	1259.45	141.12	Open To Flow (2)
121	1278.24	140.40	Shut-In(2)
153	1286.54	139.35	End Shut-In(2)
181	1290.58	138.83	End Shut-In(3)
183	2056.68	138.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3024.00	MW - 90W - 10M	41.31

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath Oil & Gas Co., Inc.

12-5S-36W - Rawlins

3501 S. Yale Ave.
Tulsa Ok 74135

Minney #1-12

Job Ticket: 62366

DST#: 2

ATTN: Anthony Luna

Test Start: 2015.04.30 @ 00:00:00

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:

75000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3024.00	MW - 90W - 10M	41.312

Total Length: 3024.00 ft

Total Volume: 41.312 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

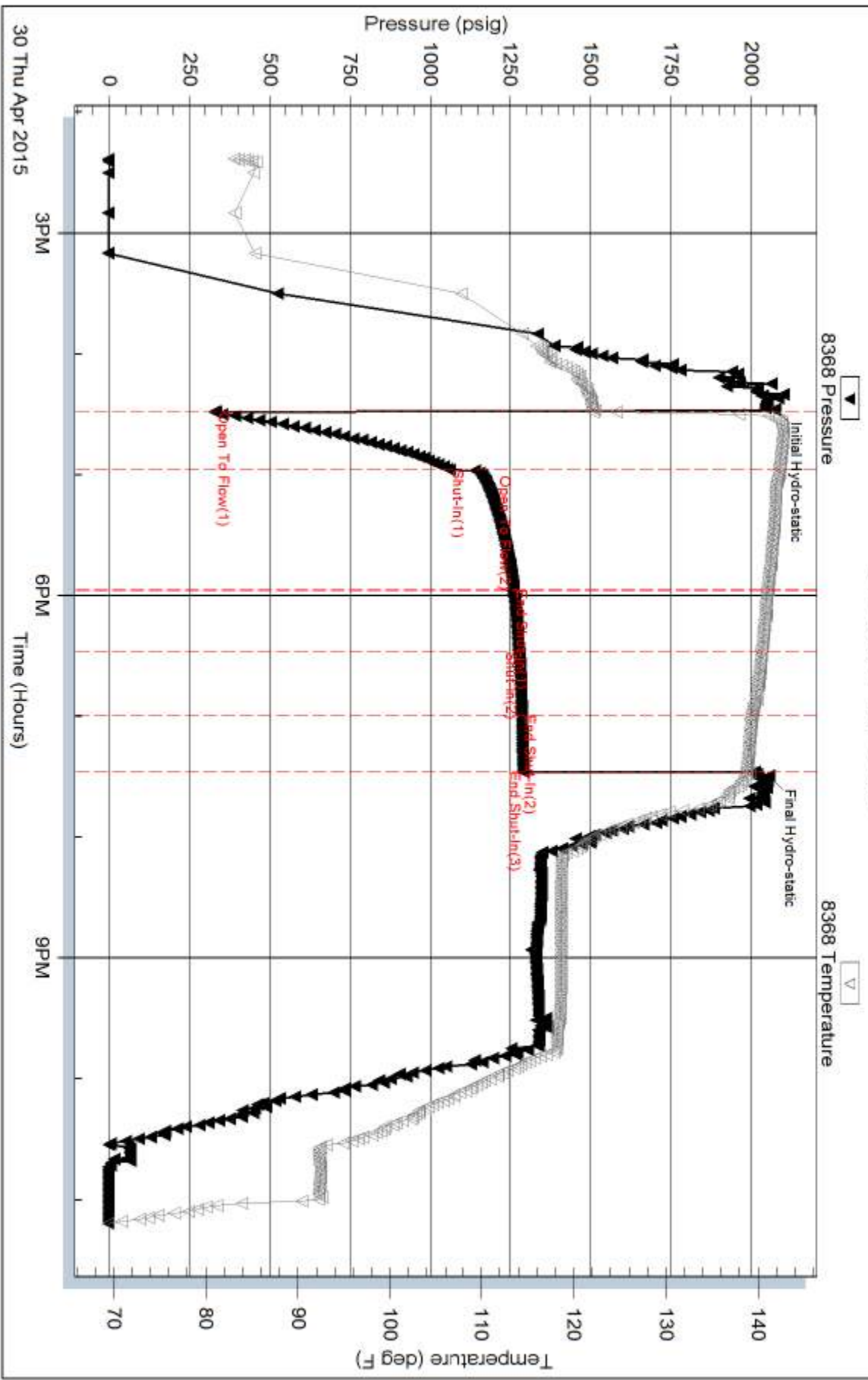
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath Oil & Gas Co., Inc.

12-5S-36W - Rawlins

3501 S. Yale Ave.
Tulsa Ok 74135

Minney #1-12

Job Ticket: 62367

DST#: 3

ATTN: Anthony Luna

Test Start: 2015.05.01 @ 19:03:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:58:15

Time Test Ended: 00:47:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: 4426.00 ft (KB) To 4460.00 ft (KB) (TVD)

Reference Elevations: 3178.00 ft (KB)

Total Depth: 4460.00 ft (KB) (TVD)

3173.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8368 Outside

Press @ Run Depth: 20.52 psig @ 4427.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.01 End Date: 2015.05.02

Last Calib.: 2015.05.02

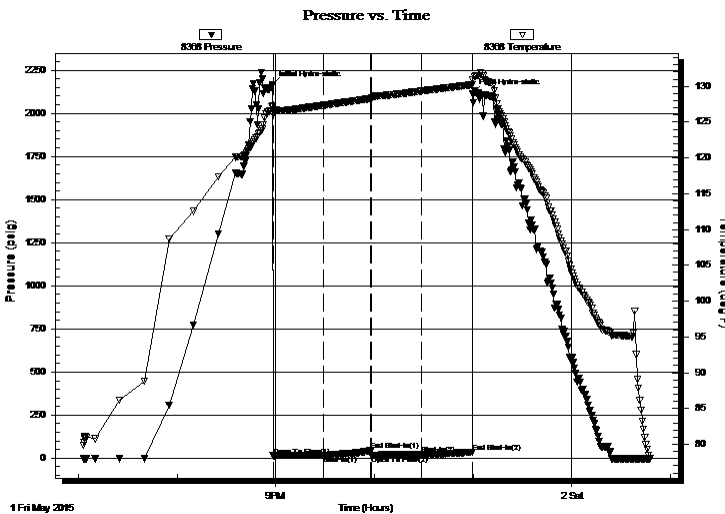
Start Time: 19:03:05 End Time: 00:47:44

Time On Btm: 2015.05.01 @ 20:58:00

Time Off Btm: 2015.05.01 @ 22:59:45

TEST COMMENT: 30 - IF - Surface blow built to 1/4" then died off to weak blow
30 - ISI - No Return
30 - FF - No Surface blow
30 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2163.60	127.27	Initial Hydro-static
1	14.23	126.08	Open To Flow (1)
31	16.96	127.35	Shut-In(1)
60	43.89	128.29	End Shut-In(1)
61	18.56	128.32	Open To Flow (2)
91	20.52	129.34	Shut-In(2)
122	33.70	130.24	End Shut-In(2)
122	2114.21	130.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM - 100M - Oil Spots	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath Oil & Gas Co., Inc.

12-5S-36W - Rawlins

3501 S. Yale Ave.
Tulsa Ok 74135

Minney #1-12

Job Ticket: 62367

DST#: 3

ATTN: Anthony Luna

Test Start: 2015.05.01 @ 19:03:00

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:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OSM - 100M - Oil Spots	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

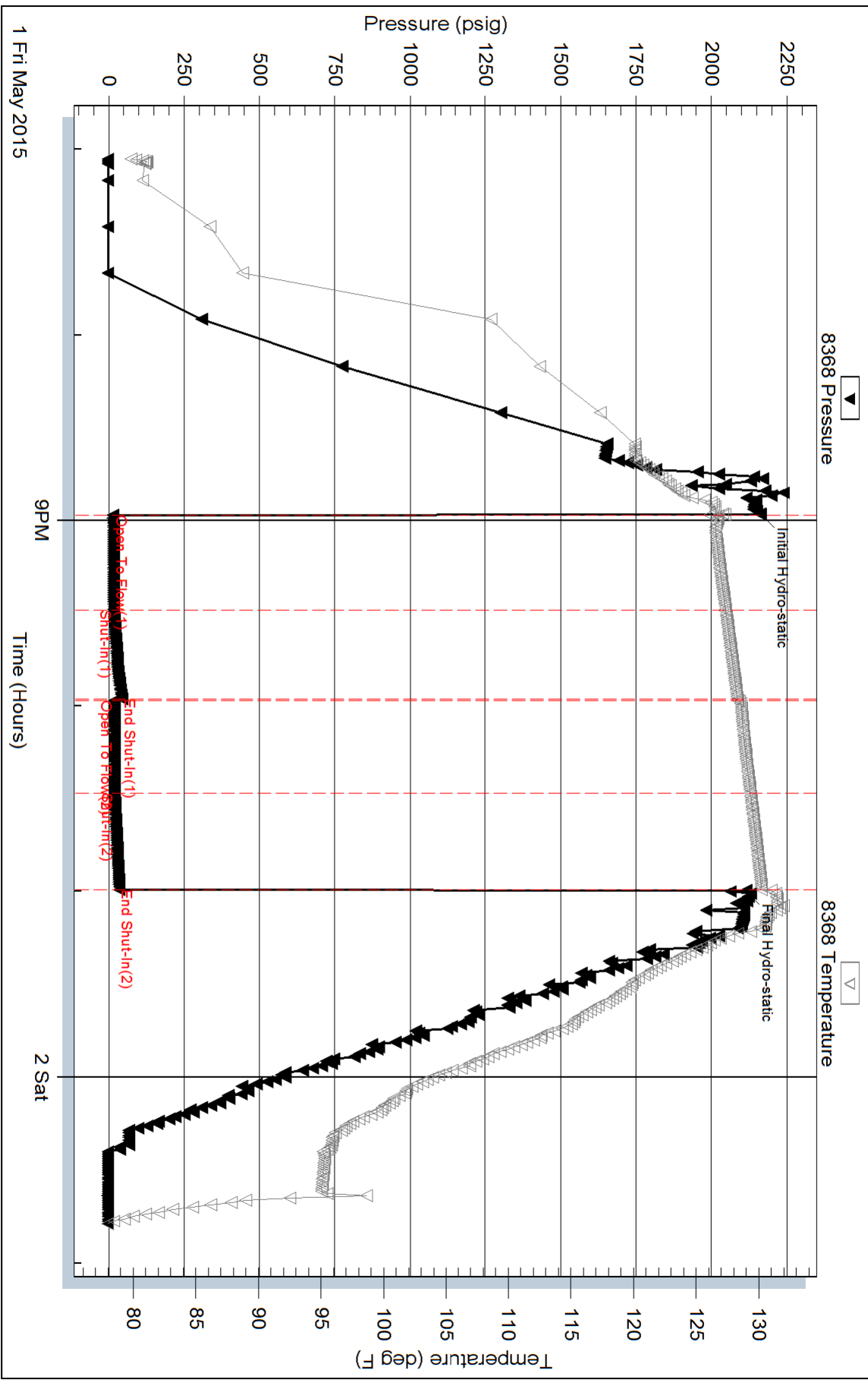
Serial #: 8368

Outside Culbreath Oil & Gas Co., Inc.

Miney #1-12

DST Test Number: 3

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 62367

Printed: 2015.05.02 @ 05:27:06



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath Oil & Gas Co., Inc.

12-5S-36W - Rawlins

3501 S. Yale Ave.
Tulsa Ok 74135

Minney #1-12

Job Ticket: 62368

DST#: 4

ATTN: Anthony Luna

Test Start: 2015.05.02 @ 14:32:00

GENERAL INFORMATION:

Formation: **Cherokee LS**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:29:15

Time Test Ended: 22:21:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: 4508.00 ft (KB) To 4540.00 ft (KB) (TVD)

Reference Elevations: 3178.00 ft (KB)

Total Depth: 4540.00 ft (KB) (TVD)

3173.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8368 Outside

Press @ Run Depth: 109.06 psig @ 4509.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.02 End Date: 2015.05.02

Last Calib.: 2015.05.02

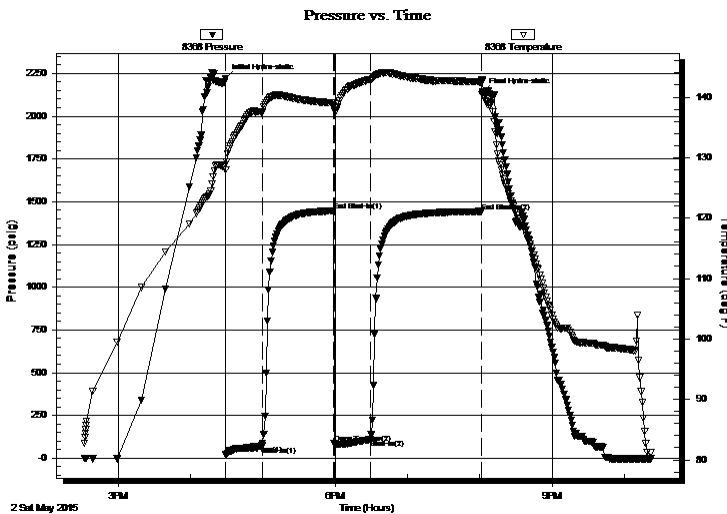
Start Time: 14:32:05 End Time: 22:21:44

Time On Btm: 2015.05.02 @ 16:29:00

Time Off Btm: 2015.05.02 @ 20:02:00

TEST COMMENT: 30 - IF - Surface blow built to bottom of the bucket in 22 mins.
60 - ISI - Return started in 3 mins. and built to
30 - FF - Surface blow built to bottom of the bucket in 20 mins.
90 - FSI - Return built to 3" in 40 mins. and stayed

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2218.21	128.85	Initial Hydro-static
1	20.39	128.04	Open To Flow (1)
31	71.63	137.55	Shut-In(1)
90	1446.51	139.01	End Shut-In(1)
90	88.57	138.21	Open To Flow (2)
121	109.06	142.92	Shut-In(2)
213	1442.99	142.50	End Shut-In(2)
213	2139.35	142.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	MCO - 15M - 85o	0.66
136.00	Free Oil	1.91
0.00	431 G.I.P	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath Oil & Gas Co., Inc.

12-5S-36W - Rawlins

3501 S. Yale Ave.
Tulsa Ok 74135

Minney #1-12

Job Ticket: 62368

DST#: 4

ATTN: Anthony Luna

Test Start: 2015.05.02 @ 14:32:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

25 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	MCO - 15M - 85o	0.661
136.00	Free Oil	1.908
0.00	431 G.I.P	0.000

Total Length: 262.00 ft Total Volume: 2.569 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

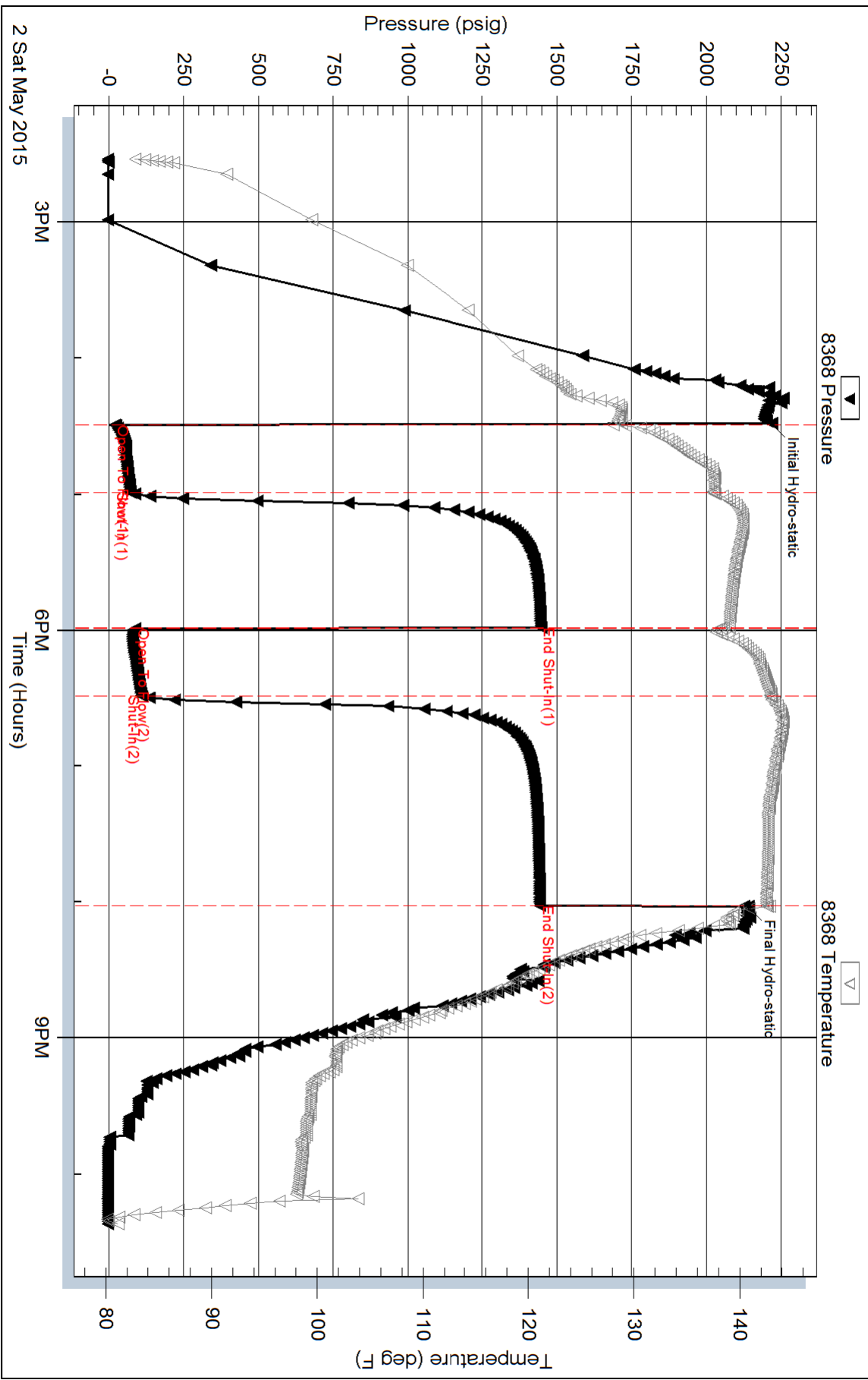
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Culbreath Oil & Gas Co., Inc.

12-5S-36W - Rawlins

3501 S. Yale Ave.
Tulsa Ok 74135

Minney #1-12

Job Ticket: 62369

DST#: 5

ATTN: Anthony Luna

Test Start: 2015.05.04 @ 18:03:00

GENERAL INFORMATION:

Formation: **Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:01:45

Time Test Ended: 02:06:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 54

Interval: 4544.00 ft (KB) To 4570.00 ft (KB) (TVD)

Reference Elevations: 3178.00 ft (KB)

Total Depth: 4570.00 ft (KB) (TVD)

3173.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8368 Outside

Press @ Run Depth: 353.82 psig @ 4545.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.04

End Date: 2015.05.05

Last Calib.: 2015.05.05

Start Time: 18:03:05

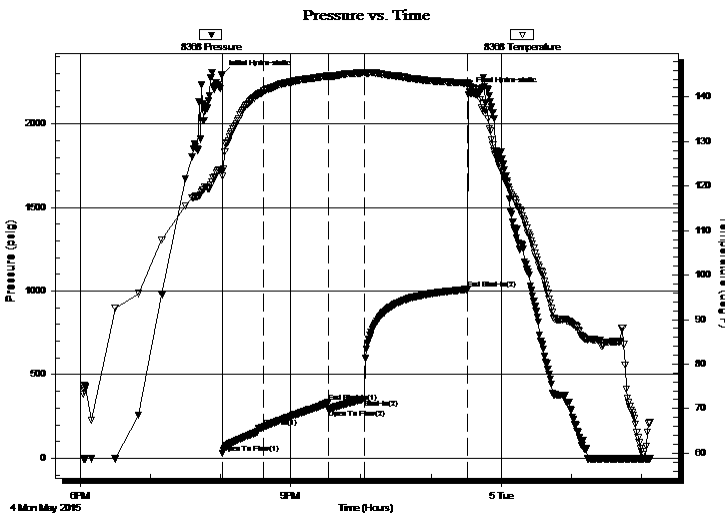
End Time: 02:06:44

Time On Btm: 2015.05.04 @ 20:01:30

Time Off Btm: 2015.05.04 @ 23:32:30

TEST COMMENT: 30 - IF - Surface blow built to bottom of bucket in 16 mins.
60 - ISI - Return built to bottom of the bucket in 40 mins.
30 - FF - Surface blow built to bottom of the bucket in 30 mins.
90 - ISI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2293.65	123.35	Initial Hydro-static
1	29.71	122.16	Open To Flow (1)
36	187.32	141.27	Shut-In(1)
91	334.36	144.65	End Shut-In(1)
91	292.79	144.60	Open To Flow (2)
122	353.82	145.47	Shut-In(2)
210	1009.42	143.11	End Shut-In(2)
211	2192.66	142.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
378.00	OSMW - Spots, 60W, 40M	4.20
315.00	OSMW - Spots, 90W, 10M	4.42
12.00	OSMW - Spots, 85W, 15M	0.17

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath Oil & Gas Co., Inc.

12-5S-36W - Rawlins

3501 S. Yale Ave.
Tulsa Ok 74135

Minney #1-12

Job Ticket: 62369

DST#: 5

ATTN: Anthony Luna

Test Start: 2015.05.04 @ 18:03:00

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:

30000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
378.00	OSMW - Spots, 60W, 40M	4.196
315.00	OSMW - Spots, 90W, 10M	4.419
12.00	OSMW - Spots, 85W, 15M	0.168

Total Length: 705.00 ft

Total Volume: 8.783 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

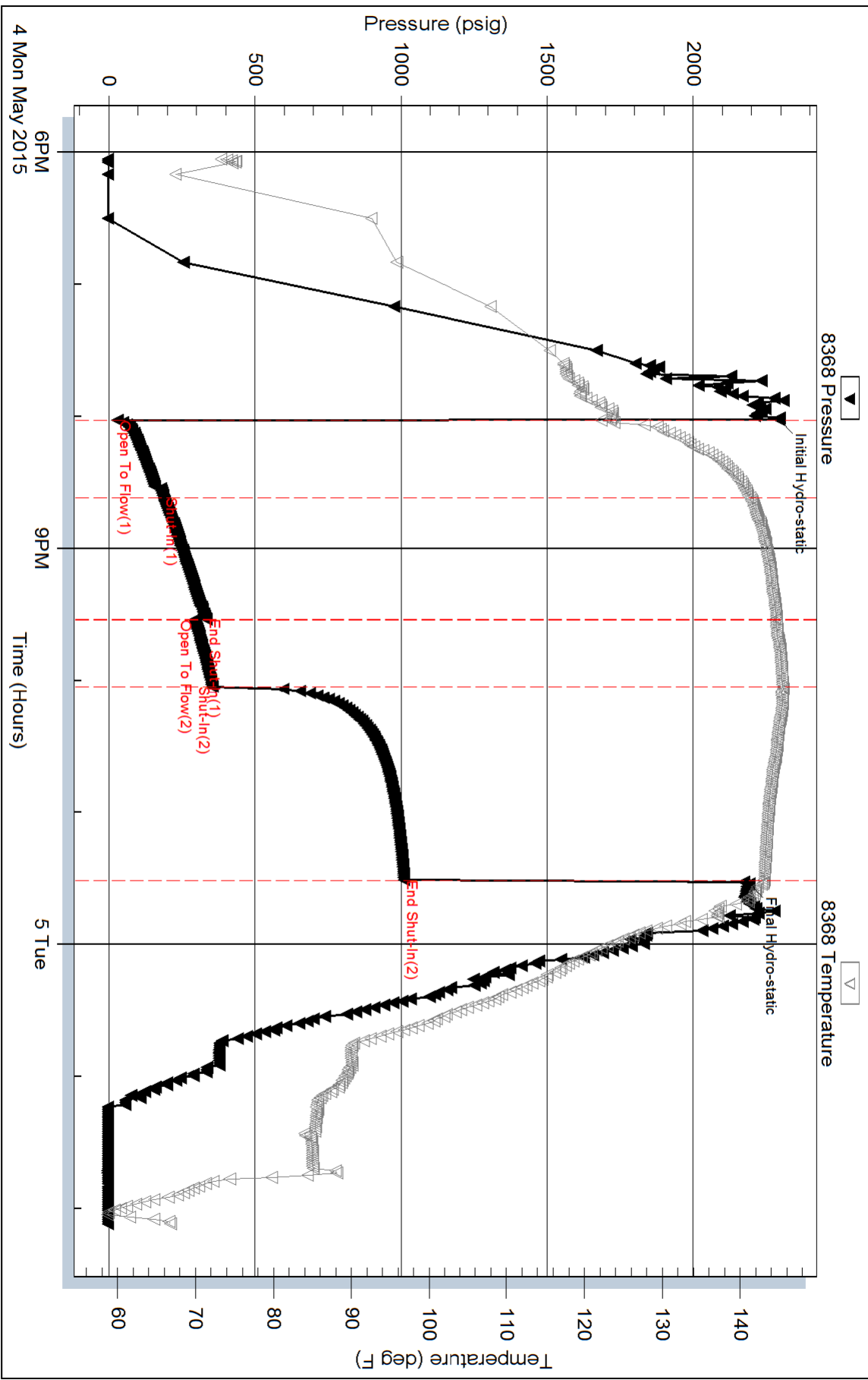
Serial #: 8368

Outside Culbreath Oil & Gas Co., Inc.

Minney #1-12

DST Test Number: 5

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 62369

Printed: 2015.05.05 @ 07:01:21



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 149391
Invoice Date: Apr 23, 2015
Page: 1

Federal Tax I.D.#: 20-8651475

Bill To:
Culbreath Oil & Gas Co., Inc. 1532 South Peoria Avenue Tulsa, OK 74120

D15020 205

Customer ID	Field Ticket #	Payment Terms	
Cul	64726	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Apr 23, 2015	5/23/15

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Minney #1-12		
325.00	CEMENT MATERIALS	Class A Common	17.90	5,817.50
916.00	CEMENT MATERIALS	Chloride	1.10	1,007.60
341.25	CEMENT SERVICE	Cubic Feet Charge	2.48	846.30
865.15	CEMENT SERVICE	Ton Mileage Charge	2.75	2,379.16
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
55.00	CEMENT SERVICE	Heavy Vehicle Mileage	7.70	423.50
55.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	242.00
1.00	CEMENT SUPERVISOR	Andrew Forslund		
1.00	CEMENT SUPERVISOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Darren Racette		

SCANNED

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

\$ 5,135.89 ✓

ONLY IF PAID ON OR BEFORE
May 23, 2015

Subtotal	12,228.31
Sales Tax	539.18
Total Invoice Amount	12,767.49
Payment/Credit Applied	
TOTAL	12,767.49

w/disc # 7631.60 ✓

ALLIED OIL & GAS SERVICES, LLC 064726

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Oakley

DATE <u>4-23-15</u>	SEC. <u>12</u>	TWP. <u>5</u>	RANGE <u>36</u>	CALLED OUT	ON LOCATION <u>12:30pm</u>	JOB START <u>7:00pm</u>	JOB FINISH <u>7:30pm</u>
LEASE <u>Minney</u>			WELL # <u>1-12</u>	LOCATION <u>Levant 15N Rd B 2WRD 10</u>		COUNTY <u>Rawlins</u>	STATE <u>KS</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)				<u>3N 1/2 W Rd E 2N Rd 9.5 2WRD 6.5</u>			
				<u>1 1/2 S rd 7 s into</u>			

CONTRACTOR <u>W + W 4</u>		OWNER <u>same</u>
TYPE OF JOB <u>Surface</u>		
HOLE SIZE <u>12 1/4</u>	T.D. <u>343'</u>	CEMENT
CASING SIZE <u>8 5/8</u>	DEPTH <u>343.72</u>	AMOUNT ORDERED <u>325 sks com 3%cc</u>
TUBING SIZE	DEPTH	
DRILL PIPE	DEPTH	
TOOL	DEPTH	
PRES. MAX	MINIMUM	COMMON <u>325 sks @ 12.90</u> <u>5817.50</u>
MEAS. LINE	SHOE JOINT	POZMIX @
CEMENT LEFT IN CSG. <u>15'</u>		GEL @
PERFS.		CHLORIDE <u>916 # @ 1.10</u> <u>1007.60</u>
DISPLACEMENT <u>20,93 BBL</u>		ASC @
EQUIPMENT		
PUMP TRUCK CEMENTER <u>Andrew Fordum</u>		<u>Material Total @</u> <u>6,825.10</u>
# <u>422</u>	HELPER <u>Paul Beaver</u>	<u>(2866.55 / 42%)</u>
BULK TRUCK		
# <u>323</u>	DRIVER <u>Darren Racette</u>	
BULK TRUCK		
#	DRIVER	
		HANDLING <u>341.25 cu/ft @ 2.48</u> <u>846.30</u>
		MILEAGE <u>2.25 ton/mile 15.23 ton</u> <u>2379.16</u>

REMARKS:

Cement did circulate

Thank you

CHARGE TO: Culbreth Oil + Gas

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <u>343.72</u>	
PUMP TRUCK CHARGE _____	<u>1512.25</u>
EXTRA FOOTAGE @	
MILEAGE <u>55 miles @ 7.70</u>	<u>423.50</u>
MANIFOLD @	
<u>Light vehicle @ 4.40</u>	<u>242.00</u>
TOTAL <u>5,403.01</u>	

PLUG & FLOAT EQUIPMENT

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

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.

PRINTED NAME _____

SIGNATURE [Signature]

SALES TAX (If Any) _____

TOTAL CHARGES 12,228.31

DISCOUNT 5,135.89 (42%) IF PAID IN 30 DAYS

7,092.42 Net



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Culbreath Oil & Gas Co., Inc.

12-5S-36W - Rawlins

3501 S. Yale Ave.
Tulsa Ok 74135

Minney #1-12

Job Ticket: 62365

DST#: 1

ATTN: Anthony Luna

Test Start: 2015.04.29 @ 16:14:00

GENERAL INFORMATION:

Formation: **LKC - 'H'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:12:30

Time Test Ended: 23:13:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: 4178.00 ft (KB) To 4218.00 ft (KB) (TVD)

Reference Elevations: 3178.00 ft (KB)

Total Depth: 4218.00 ft (KB) (TVD)

3173.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: 72.20 psig @ 4179.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.04.29

End Date:

2015.04.29

Last Calib.:

2015.04.29

Start Time: 16:14:05

End Time:

23:13:29

Time On Btm:

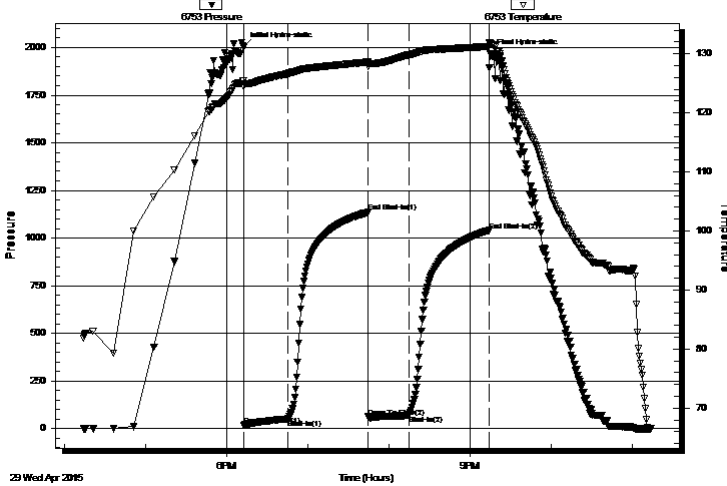
2015.04.29 @ 18:12:15

Time Off Btm:

2015.04.29 @ 21:14:45

TEST COMMENT: 30 - IF - Surface blow built up to 3 1/2"
60 - ISI - No Return
30 - FF - Weak blow started in 10 mins. and built to 1 1/4"
60 - FSI - No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2002.99	125.44	Initial Hydro-static
1	17.51	124.46	Open To Flow (1)
33	50.60	126.61	Shut-In(1)
92	1135.58	128.58	End Shut-In(1)
93	61.88	127.90	Open To Flow (2)
123	72.20	129.82	Shut-In(2)
182	1040.45	131.25	End Shut-In(2)
183	1969.97	131.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	MCO = 45M - 55o	0.66
5.00	Free Oil	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath Oil & Gas Co., Inc.

12-5S-36W - Rawlins

3501 S. Yale Ave.
Tulsa Ok 74135

Minney #1-12

Job Ticket: 62365

DST#: 1

ATTN: Anthony Luna

Test Start: 2015.04.29 @ 16:14:00

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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	MCO = 45M - 55o	0.661
5.00	Free Oil	0.070

Total Length: 131.00 ft Total Volume: 0.731 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6753

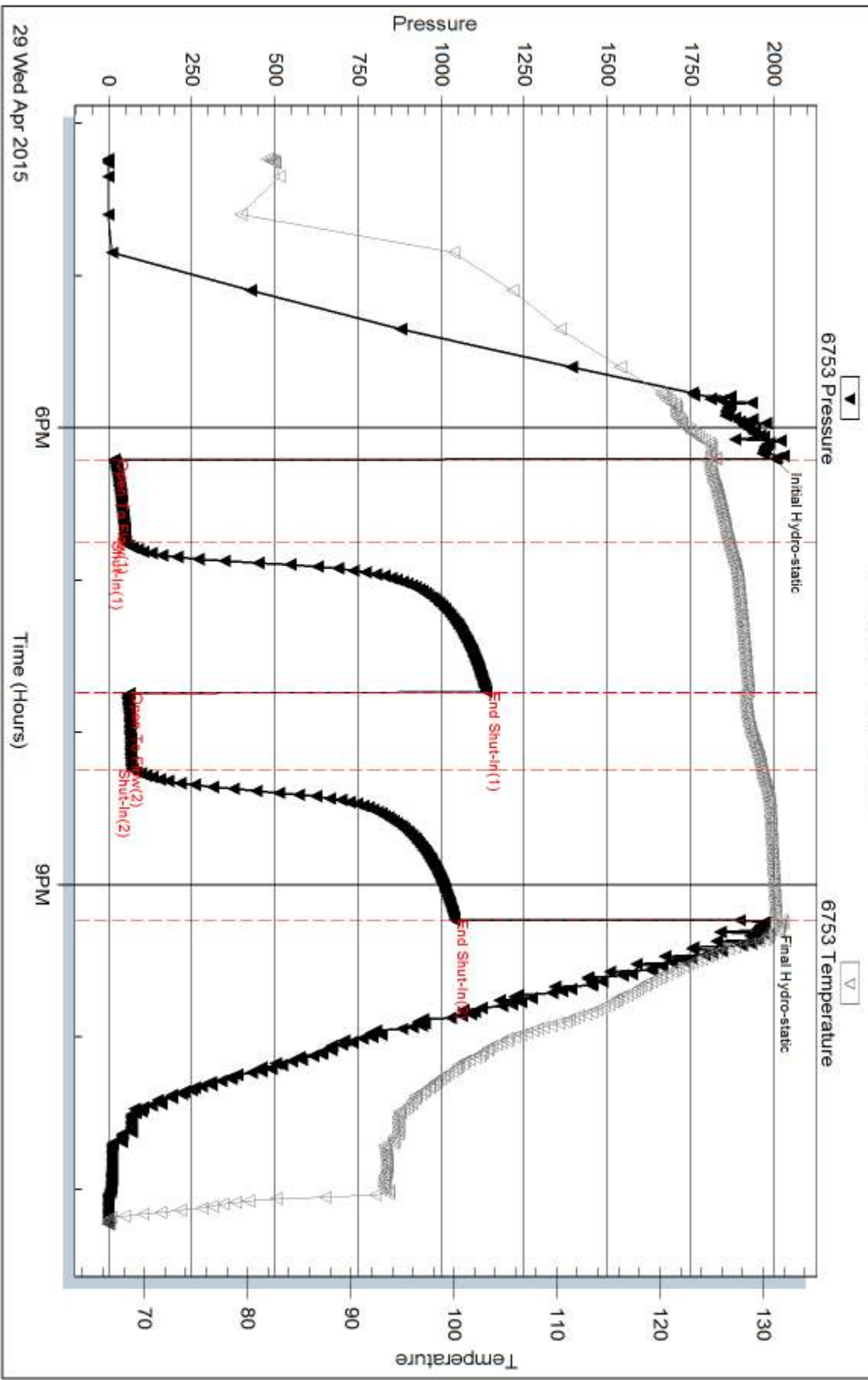
Inside

Culbreath Oil & Gas Co., Inc.

Maney #1-12

DST Test Number: 1

Pressure vs. Time



29 Wed Apr 2015

Trilobite Testing, Inc

Ref. No: 62365

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