



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1316611
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
-----------------------------------	-----------------	---

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: _____

1316611

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. <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	BOYD 3-3
Doc ID	1316611

All Electric Logs Run

CND
DIL
MICRO
Dev



CONSOLIDATED
Oil Well Services, LLC

6363
6266

TICKET NUMBER 51567
LOCATION Oakley Ks
FOREMAN Walt Dunkel

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

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice #808254

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-1-16	2777	Boyd 3-3	3	12 S	32 W	Logan
CUSTOMER		Oadley				
MAILING ADDRESS		6-5014				
CITY		3/4 W				
STATE		S.S.				
ZIP CODE		79135				
TRUCK #		DRIVER		TRUCK #		DRIVER
753		Miles Shaw				
772-T129		Walt Dunkel				

JOB TYPE PTA HOLE SIZE 7 7/8 HOLE DEPTH 4810' CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 4 1/2 xlt TUBING _____ OTHER _____
 SLURRY WEIGHT 13.5 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting, Rig up on Southwind Drls #8, Plugs ordered

- 50 SKs @ 2600'
 - 100 SKs @ 1600'
 - 50 SKs @ 320'
 - 10 SKs @ 40' w/ Plug
 - 30 SKs in RH
 - 15 SKs in MH
- 255 SKs 6 7/8" opor, 4 1/2" gel, 3/4" # Flu Seal

Thanks You
Walt & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CEC 450	1	PUMP CHARGE	1,500.00	1,500.00
CEC 002	5	MILEAGE	7.15	35.75
CEC 711	10.99	Ten Mileage Delivery	660.00	660.00
CC 5829	2.55 SKs	Lite-Weight Blend V	16.00	4080.00
CC 6075	64 #	Flu Seal	3.00	192.00
CP 8228	1	8 5/8 Plug	165.00	165.00
				6,632.75
		Less 4.5% Disc.		-2,984.74
				3,648.01
		SALES TAX		195.23
		ESTIMATED TOTAL		3,843.24

AVIN 3737
 AUTHORIZATION [Signature] TITLE Toolpusher DATE 8-2-16

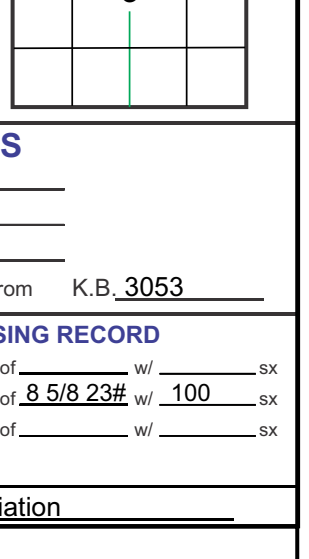
I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

GEOLOGICAL REPORT

Larry A. Nicholson

NAD 83
390456339
100.86461774

COMPANY **Culbreath Oil & Gas Company, Inc.**
 LEASE **Boyd #3-3** FIELD **Hockessmith South**
 LOCATION **SE NE NW NW**
 SURVEY **380' FNL 1260' FWL**
 SECTION **3** TWP **12S** RGE **32W**
 COUNTY **Logan** STATE **Kans**



CONTRACTOR **Southwind** Rig # **_____**
 SPUD **5:30 pm 7-22-16** COIMP. **K.B. 3053**
 RTD **4:17 9:36 pm 07-30-16** LTD **4810** D.F. **_____**
 MUD UP AT **3388** G.L. **3043**
 MUD TYPE **Chemical Andy's Mud** All measurements from **K.B. 3053**

SAMPLES SAVED FROM **7000** TO **RTD**
 DRILLING TIME FROM **7000** TO **RTD**
 SAMPLES EXAMINED FROM **7000** TO **RTD**
 GEOLOGICAL SUPERVISION BY **LARRY A. NICHOLSON**
 WELL SITE GEOLOGIST **LARRY A. NICHOLSON**

ELEVATIONS
 Surface Bl. Road 12 1/4 R. (3-153), sat 266'
 Bit No. 1 Reed S25P 7-78" (3-153), in sat 266' - total 415'
 Bit No. 1 Reed S25P 7-78" (3-153), in sat 266' - total 415'
 Bit No. 1 Reed S25P 7-78" (3-153), in sat 266' - total 415'

CASING RECORD
 Conductor _____ of _____ in
 Surface _____ of **8.9 23w** w/ **100** sh
 Production _____ of _____ w/ _____ sh

ELECTRICAL SURVEYS & STRUCTURAL TOPS & STRATIGRAPHY

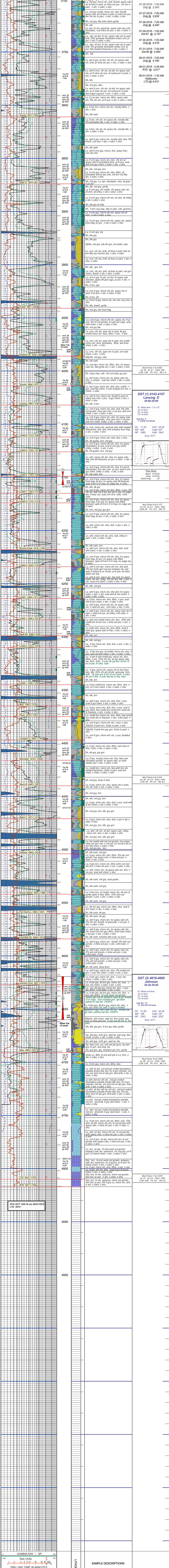
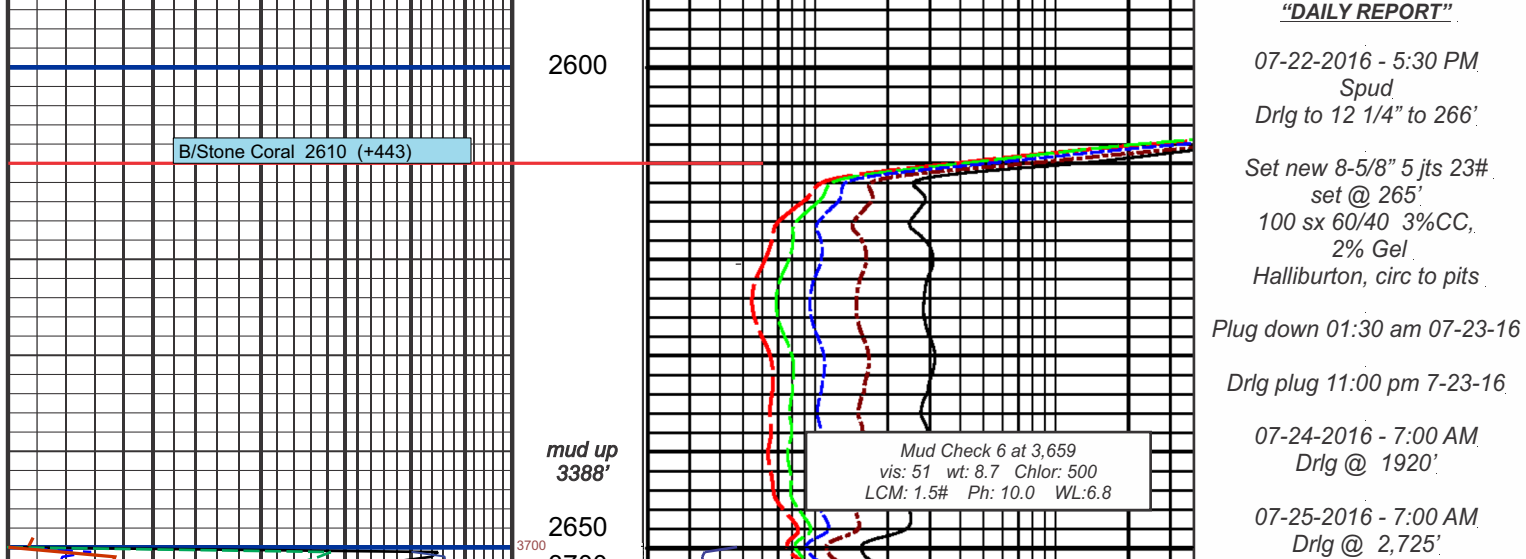
FORMATION	SAMPLE TOPS	SURSEA DATUM	ELEC LOG		SURSEA TOPS		REFERENCE WELL	
			TOPS	DATUM	A	B	A	B
Anhydrite	2597	+456	2590	+463	2562	+473	-10	
BuAnhydrite	2624	+452	2610	+459	2592	+457	-11	
Topeka	3812	-759	3811	-758	3792	-747	-11	
Healden Sh	4036	-985	4036	-983	4008	-973	-10	
Lansing	4082	-1029	4082	-1029	4052	-1017	-12	
Stark Sh	4301	-1248	4299	-1246	4272	-1237	-9	
BKC	4365	-1312	4365	-1312	4337	-1302	-10	
Marmaton	4418	-1365	4416	-1363	4387	-1352	-11	
Cherokee Sh	4584	-1531	4584	-1531	4554	-1519	-12	
Johnson Zone	4625	-1572	4627	-1574	4597	-1562	-12	
Miss	4686	-1633	4690	-1637	4657	-1622	-15	
RTD	4817	-1764	4817	-1764	4765	-1730	-34	
LTD			4810	-1757	4756	-1721		

REFERENCE WELLS A: **Culbreath O&G, Boyd #2-3, Sec. 3-T12S-R32W, NW SW SE NW** KB 3035
 B: _____

REMARKS & RECOMMENDATIONS:
 Based on sample shows and light dst results the well was P&A

LAN 762, Modified 5/05, 11/11, 4/12 Hanover, KS 66845
 1inch = 25.4mm 8.5 x 9.5 216 mm x 2460 mm

LEGEND



COMPANY **Culbreath Oil & Gas Company, Inc.** ELEVATIONS **K.B. 3053**
 LEASE **Boyd #3-3 SE NE NW NW** D.F. **_____**
 LOCATION **380' FNL 1260' FWL** SEC **3** TWP **12S** RGE **32W** G.L. **3043**
 COUNTY **Logan** STATE **Ks** All measurements from **K.B. 3053**

Field Ticket Number: 0903438643	Field Ticket Date: Wednesday, July 20, 2016	Planning Order #: NA
--	--	-----------------------------

Bill To:
 CULBREATH OIL & GAS
 1532 S PEORIA
 TULSA
 74120

Job Name: 8.625" Surface Casing
Order Type: ZOH
Well Name: Boyd 3-3
Company Code: 1100
Customer PO No.: NA
AFE:
Shipping Point: El Reno, OK
Sales Office: Mid-Continent BD
Well Type: OIL
Well Category: Development
Rig Name#: SOUTHWIND 3

Ship To:
 BOYD #3-3,LOGAN

 OAKLEY
 67748

Material	Description	QTY	UOM	Unit Amount	Gross Amount	Discount	Net Amount	
7521	CMT SURFACE CASING BOM.	1.00	JOB	0.00	0.00		0.00	
2	MILEAGE FOR CEMENTING CREW <i>Number of Units</i>	200.00 1	MI	5.76 USD/1 MI	1,152.00	864.00	288.00	
1	ZI-MILEAGE FROM NEAREST HES BASE,/UNIT <i>Number of Units</i>	200.00 1	MI	9.79 USD/1 MI	1,958.00	1,468.50	489.50	
16091	ZI - PUMPING CHARGE <i>FEET/METERS (FT/M)</i> <i>DEPTH</i>	1.00 266	EA	5,290.00 USD/1 EA	5,290.00	3,967.50	1,322.50	
	NOTE: above pump charge is for 4 hrs.							
141	RCM II W/ADC,/JOB,ZI <i>ENTER FEET/METER/JOB/DAY</i> <i>NUMBER OF JOBS</i> <i>NUMBER OF UNITS</i>	1.00 JOB 1 1	JOB	1,990.00 USD/1 JOB	1,990.00	1,492.50	497.50	
132	PORT. DAS W/CEMWIN;ACQUIRE W/HES, ZI <i>NUMBER OF DAYS</i>	1.00 1	JOB	1,649.00 USD/1 JOB	1,649.00	1,236.75	412.25	
74038	ZI PLUG CONTAINER RENTAL-1ST DAY <i>HR/DAY/WEEK/MTH/YEAR/JOB/RUN</i> <i>DAYS OR FRACTION (MIN1)</i>	1.00 DAY 1	EA	1,322.00 USD/1 EA	1,322.00	991.50	330.50	
101227839	PLUG,CMTG, TOP,8 5/8,HWE,7.20 MIN/8.09 MA	1.00	EA	380.00 USD/1 EA	380.00	247.00	133.00	
452009	CMT, VariCem (TM) cement	50.00	SK	0.00	3,209.06	1,929.00	1,280.06	
101509387	CHEM, CALCIUM CHLORIDE-PELLET, 50 LB SK <i>Calcium Chloride, Pellet</i>	1.00	SK	180.30 USD/1 SK	180.30	135.23	45.07	
101216940	CHEM, Pol-E-Flake, 25 lb bag <i>Poly-E-Flake</i>	13.00	LB	8.31 USD/1 LB	108.03	81.02	27.01	
452009	CMT, VariCem (TM) cement	50.00	SK	0.00	3,209.06	1,929.00	1,280.06	
101509387	CHEM, CALCIUM CHLORIDE-PELLET, 50 LB SK <i>Calcium Chloride, Pellet</i>	1.00	SK	180.30 USD/1 SK	180.30	135.23	45.07	
101216940	CHEM, Pol-E-Flake, 25 lb bag <i>Poly-E-Flake</i>	13.00	LB	8.31 USD/1 LB	108.03	81.02	27.01	
76400	MILEAGE,CMT MTLs DEL/RET MIN <i>NUMBER OF TONS</i>	100.00 4.95	MI	3.35 USD/1 MI	1,658.25	1,243.69	414.56	
3965	HANDLE&DUMP SVC CHRg, CMT&ADDITIVES,ZI <i>Unit of Measurement</i> <i>NUMBER OF EACH</i>	111.00 EA 1	CF	5.49 USD/1 CF	609.39	457.04	152.35	
100008028	CHEM, SUGAR,GRANULATED, 50LB BAG	100.00	LB	6.96 USD/1 LB	696.00	487.20	208.80	
Totals					USD	23,699.42	16,746.18	6,953.24

Field Ticket Signature

Field Ticket Number: 0903438643 Field Ticket Date: Wednesday, July 20, 2016 Planning Order #: NA

Bill To:
CULBREATH OIL & GAS
1532 S PEORIA
TULSA
74120

Job Name: 8.625" Surface Casing
Order Type: ZOH
Well Name: Boyd 3-3
Company Code: 1100
Customer PO No.: NA
AFE :
Shipping Point: El Reno, OK
Sales Office: Mid-Continent BD
Well Type: OIL
Well Category: Development
Rig Name#: SOUTHWIND 3

Ship To:
BOYD #3-3,LOGAN

OAKLEY
67748

THIS OUTPUT DOES NOT INCLUDE TAXES. APPLICABLE SALES TAX WILL BE BILLED ON THE FINAL INVOICE. CUSTOMER HEREBY ACKNOWLEDGES RECEIPT OF THE MATERIALS AND SERVICES DESCRIBED ABOVE, ON ANY PRECEDING PAGES, AND ATTACHED DOCUMENTS.

Gross Amount Total: 23,699.42
Item Discount Total: 16,746.18
Net Amount Total: 6,953.24 USD

Customer Representative Signature:

Harold

Customer Representative

Date:

Tracy Downing

Halliburton Representative

Was our HSE performance satisfactory? (Health, Safety, Environment)
 Yes No

Were you satisfied with our equipment?
 Yes No

Were you satisfied with our people?
 Yes No

Comments:

Field Ticket Number: 0903438643	Field Ticket Date: Saturday, July 23, 2016	Planning Order #: NA
Bill To: CULBREATH OIL & GAS, 1532 S PEORIA, TULSA, OK, 74120	Job Name: 8.625" Surface Casing Order Type: ZOH Well Name: Boyd 3-3 Company Code: 1100 Customer PO No.: NA AFE: Shipping Point: El Reno, OK Shipping Point Sales Office: MID-CONTINENT BD Well Type: OIL Well Category: DEVELOPMENT Rig Name/##: SOUTHWIND 3	
Ship To: BOYD #3-LOGAN, OAKLEY, KS, 67748		

Material	Description	QTY	UOM	Unit Amount	Gross Amount	Discount	Net Amount	
7521	CMT SURFACE CASING BOM	1	JOB		0.00		0.00	
2	MILEAGE FOR CEMENTING CREW <i>Number of Units</i>	200 1	MI	5.76 USD / 1.00 MI	1,152.00	\$ 864.00	288.00	
1	ZI-MILEAGE FROM NEAREST HES BASE./UNIT <i>Number of Units</i>	200 1	MI	9.79 USD / 1.00 MI	1,958.00	\$ 1,468.50	489.50	
16091	ZI - PUMPING CHARGE <i>DEPTH FEET/METERS (FT/M)</i>	1 266 FT	EA	5,290.00 USD / 1.00 EA	5,290.00	\$ 3,967.50	1,322.50	
NOTE: above pump charge is for 4 hrs.								
141	RCM II WADC./JOB,ZI ENTER FEET/METER/JOB/DAY <i>NUMBER OF UNITS</i> <i>NUMBER OF JOBS</i>	1 JOB 1 1	JOB	1,990.00 USD / 1.00 JOB	1,990.00	\$ 1,492.50	497.50	
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101509387	CHEM, CALCIUM CHLORIDE-PELLET, 50 LB SK <i>Calcium Chloride, Pellet</i>	1	SK	180.30 USD / 1.00 SK	180.30	\$ 135.23	45.07	
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100008028	CHEM, SUGAR, GRANULATED, 50LB BAG	100	LB	6.96 USD / 1.00 LB	696.00	\$ 487.20	208.80	
Totals					USD	\$ 23,763.02	\$ 16,803.94	\$ 6,959.08

Field Ticket Signature

Field Ticket Number: 0903438643 Field Ticket Date: Saturday, July 23, 2016 Planning Order #: NA

Bill To:
CULBREATH OIL & GAS,
1532 S PEORIA,
TULSA, OK, 74120

Job Name: 8.625" Surface Casing
Order Type: ZOH
Well Name: Boyd 3-3
Company Code: 1100
Customer PO No.: NA
AFE :
Shipping Point: EI Reno, OK Shipping Point
Sales Office: MID-CONTINENT BD
Well Type: OIL
Well Category: DEVELOPMENT
Rig Name#: SOUTHWIND 3

Ship To:
BOYD #3-3, LOGAN,
OAKLEY, KS, 67748

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Gross Amount Total: \$ 23,763.02
Item Discount Total: \$ 16,803.94
Net Amount Total: \$ 6,959.08 USD

Harold

Customer Representative Signature:

Date:

Harold
Customer Representative

Rayland Thompson
Halliburton Representative

Was our HSE performance satisfactory? (Health, Safety, Environment)
 Yes No

Were you satisfied with our equipment?
 Yes No

Were you satisfied with our people?
 Yes No

Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath Oil&Gas Oil Co Inc

3-12s-32w Logan

3501 S. Yale Ave
Tulsa Ok 74135--8014

Boyd 3-3

Job Ticket: 63056

DST#: 1

ATTN: Keven Howard, Larry

Test Start: 2016.07.28 @ 19:50:09

GENERAL INFORMATION:

Formation: **LKC "E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:44:49

Time Test Ended: 03:08:33

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 77

Interval: 4143.00 ft (KB) To 4157.00 ft (KB) (TVD)

Reference Elevations: 3059.00 ft (KB)

Total Depth: 4157.00 ft (KB) (TVD)

3049.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8018

Inside

Press@RunDepth: 24.51 psig @ 4144.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.07.28

End Date:

2016.07.29

Last Calib.:

2016.07.29

Start Time: 19:50:09

End Time:

03:08:33

Time On Btm:

2016.07.28 @ 21:42:49

Time Off Btm:

2016.07.29 @ 01:19:18

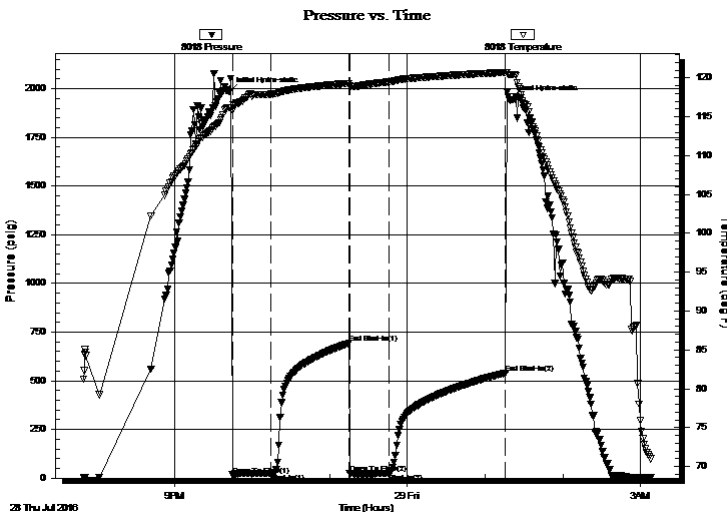
TEST COMMENT: 30-IFP-w k bl thru-out 1"to 1/2"bl

60-ISIP-no bl

30-FFP-no bl

90-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1985.60	116.17	Initial Hydro-static
2	17.11	115.83	Open To Flow (1)
32	24.88	117.91	Shut-In(1)
93	692.90	119.31	End Shut-In(1)
93	25.28	118.95	Open To Flow (2)
124	24.51	119.52	Shut-In(2)
213	537.56	120.71	End Shut-In(2)
217	1942.62	120.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	SOCM 1%O99%M	0.07

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath Oil&Gas Oil Co Inc

3501 S. Yale Ave
Tulsa Ok 74135--8014

ATTN: Keven Howard, Larry

3-12s-32w Logan

Boyd 3-3

Job Ticket: 63056

DST#: 1

Test Start: 2016.07.28 @ 19:50:09

GENERAL INFORMATION:

Formation: **LKC "E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:44:49

Time Test Ended: 03:08:33

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 77

Interval: 4143.00 ft (KB) To 4157.00 ft (KB) (TVD)

Reference Elevations: 3059.00 ft (KB)

Total Depth: 4157.00 ft (KB) (TVD)

3049.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8700

Outside

Press@RunDepth: psig @ 4144.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.07.28

End Date:

2016.07.29

Last Calib.:

2016.07.29

Start Time: 19:50:53

End Time:

03:10:32

Time On Btm:

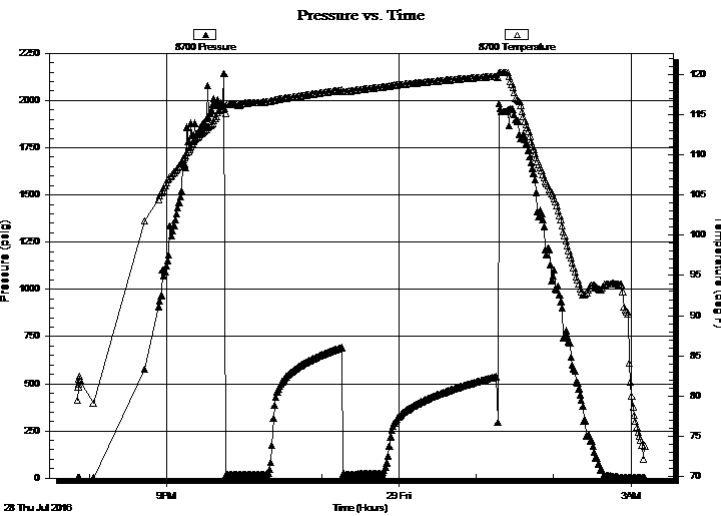
Time Off Btm:

TEST COMMENT: 30-IFP-w k bl thru-out 1"to 1/2"bl

60-ISIP-no bl

30-FFP-no bl

90-FSIP-no bl



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	SOCM 1%O99%M	0.07

Gas Rates

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

Serial #: 8018

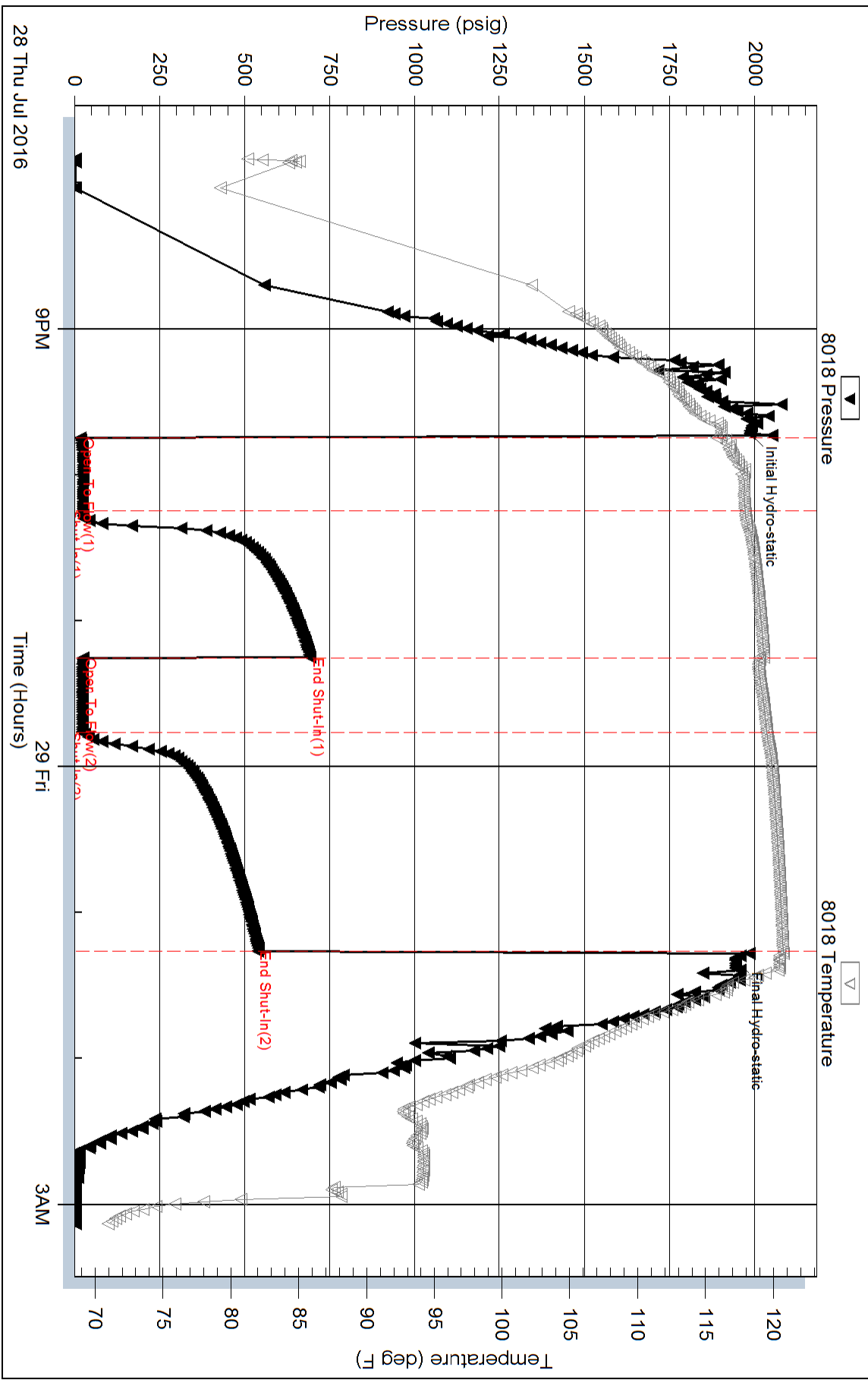
Inside

Culbreath Oil&Gas Oil Co Inc

Boyd 3-3

DST Test Number: 1

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 63056

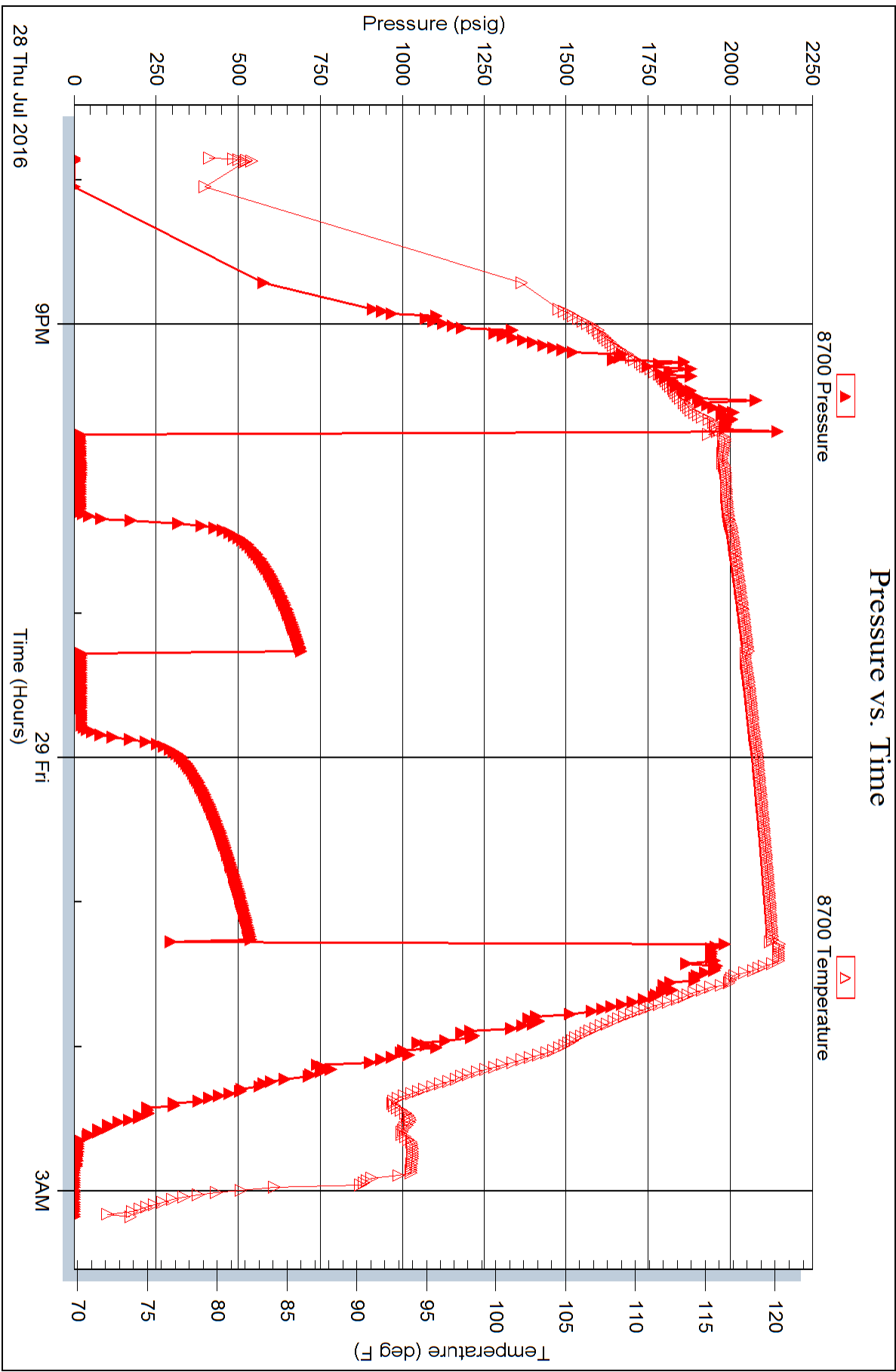
Printed: 2016.07.29 @ 04:00:23

Serial #: 8700

Outside Culbreath Oil&Gas Oil Co Inc

Boyd 3-3

DST Test Number: 1





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Culbreath Oil&Gas Oil Co Inc

3-12s-32w Logan

3501 S. Yale Ave
Tulsa Ok 74135--8014

Boyd 3-3

Job Ticket: 64592

DST#: 2

ATTN: Larry Nicholson

Test Start: 2016.07.31 @ 09:02:15

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:04:45

Time Test Ended: 15:47:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4619.00 ft (KB) To 4660.00 ft (KB) (TVD)

Reference Elevations: 3059.00 ft (KB)

Total Depth: 4660.00 ft (KB) (TVD)

3049.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8737 Outside

Press@RunDepth: 39.29 psig @ 4655.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.07.31

End Date:

2016.07.31

Last Calib.:

2016.07.31

Start Time: 09:02:15

End Time:

15:47:00

Time On Btm:

2016.07.31 @ 11:04:30

Time Off Btm:

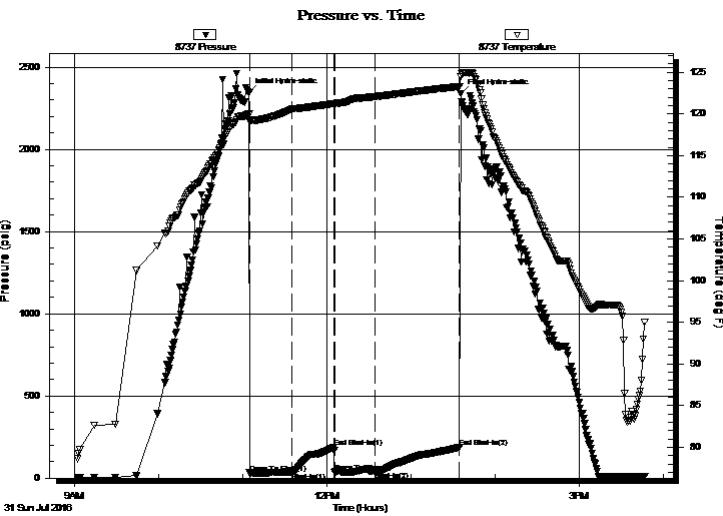
2016.07.31 @ 13:35:15

TEST COMMENT: IF: Built to weak surface blow

IS: No return blow

FF: No blow

FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2343.64	119.97	Initial Hydro-static
1	31.20	119.12	Open To Flow (1)
31	36.68	120.56	Shut-In(1)
61	188.23	121.24	End Shut-In(1)
61	35.59	121.23	Open To Flow (2)
90	39.29	122.06	Shut-In(2)
150	187.49	123.30	End Shut-In(2)
151	2337.16	124.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud with oil spots	0.14

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath Oil&Gas Oil Co Inc

3-12s-32w Logan

3501 S. Yale Ave
Tulsa Ok 74135--8014

Boyd 3-3

ATTN: Larry Nicholson

Job Ticket: 64592

DST#: 2

Test Start: 2016.07.31 @ 09:02:15

GENERAL INFORMATION:

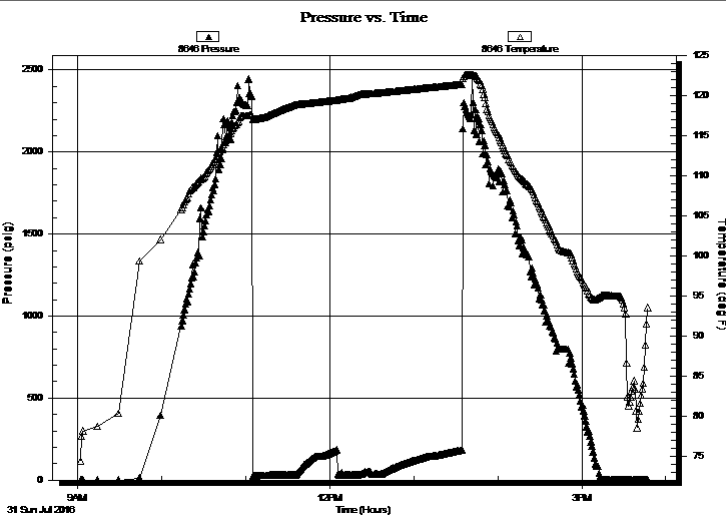
Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:04:45
 Time Test Ended: 15:47:00
 Interval: **4619.00 ft (KB) To 4660.00 ft (KB) (TVD)**
 Total Depth: 4660.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 81
 Reference Elevations: 3059.00 ft (KB)
 3049.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8646

Inside

Press@RunDepth: psig @ 4655.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.07.31 End Date: 2016.07.31 Last Calib.: 2016.07.31
 Start Time: 09:02:15 End Time: 15:47:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Built to weak surface blow
 IS: No return blow
 FF: No blow
 FS: No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud with oil spots	0.14

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath Oil&Gas Oil Co Inc

3-12s-32w Logan

3501 S. Yale Ave
Tulsa Ok 74135--8014

Boyd 3-3

Job Ticket: 64592

DST#: 2

ATTN: Larry Nicholson

Test Start: 2016.07.31 @ 09:02:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 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
10.00	mud w ith oil spots	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

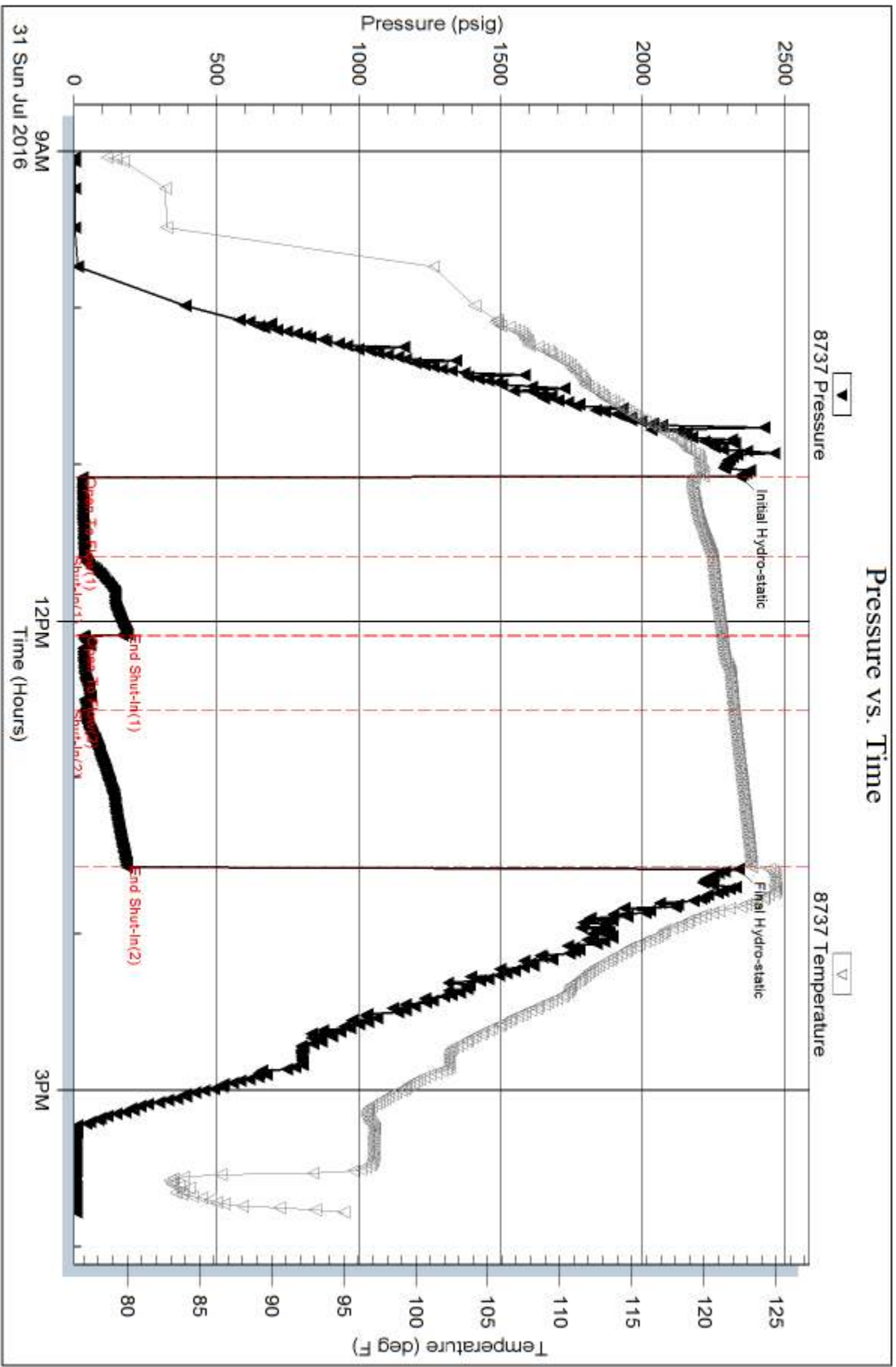
Recovery Comments:

Serial #: 8737

Outside Culbreath Oil&Gas Oil Co Inc

Boyd 3-3

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 64592

Printed: 2016.07.31 @ 21:02:55

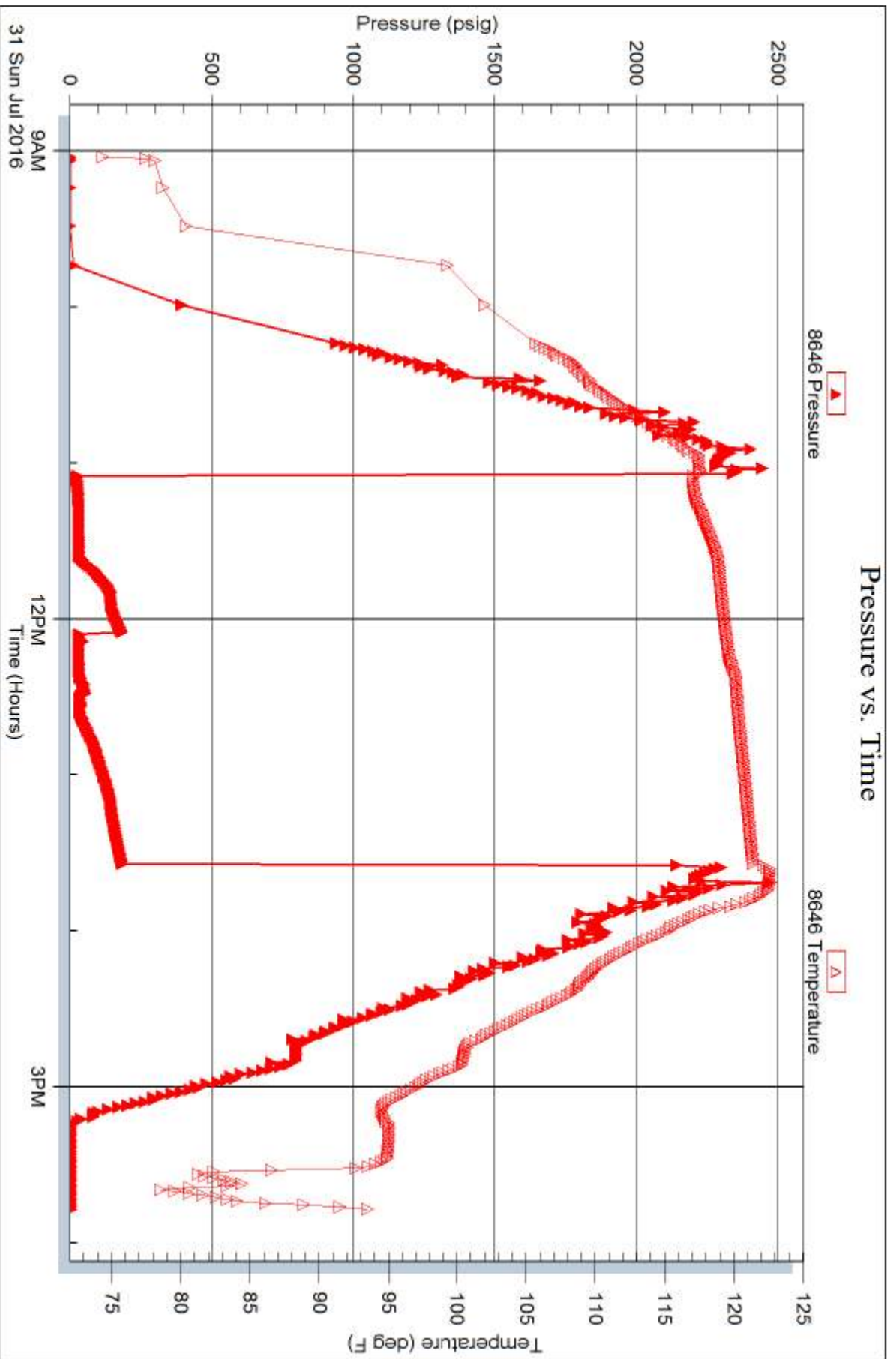
Serial #: 8646

Inside

Culbreath Oil&Gas Oil Co Inc

Boyd 3-3

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 64592

Printed: 2016.07.31 @ 21:02:55