

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs 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
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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				

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	Shakespeare Oil Co., Inc.
Well Name	ALDAG 1-20
Doc ID	1466815

All Electric Logs Run

Dual Induction
Neutron/Density
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	ALDAG 1-20
Doc ID	1466815

Tops

Name	Top	Datum
Base Anhydrite	2480	+673
Heebner	4004	-851
Lansing	4045	-892
Muncie Creek	4231	-1078
Stark Shale	4329	-1176
Hushpuckney	4374	-1221
Marmaton	4484	-1331
Pawnee	4550	-1397
L. Cherokee Shale	4633	-1480
Johnson	4676	-1523
Mississippian	4818	-1665



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



Invoice

DATE	INVOICE #
7/5/2019	32283

BILL TO
Shakespeare Oil Company, Inc 202 West Main Street Salem, IL 62881

- Acidizing
- Cement
- Tool Rental

INT

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-20	Aldag	Scott	Duke Drlg Rig #4	Oil	Development	Cement Surface ...	Blaine
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				80	Miles	5.00	400.00
576D-S	Pump Charge - Shallow Surface (< 500 Ft.)				1	Job	925.00	925.00
325	Standard Cement				175	Sacks	13.50	2,362.50T
279	Bentonite Gel				3	Sack(s)	30.00	90.00T
278	Calcium Chloride				8	Sack(s)	40.00	320.00T
276	Flocele				50	Lb(s)	3.00	150.00T
290	D-Air				2	Gallon(s)	42.00	84.00T
581D	Service Charge Cement				175	Sacks	1.85	323.75
583D	Drayage				688	Ton Miles	0.95	653.60
	Subtotal							5,308.85
	Sales Tax Scott County						8.50%	255.55

RECEIVED
JUL 12 2019

*502-5
DH*

We Appreciate Your Business!

Total

\$5,564.40

DW



TICKET 032283

CHARGE TO: Shakespeare
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

PAGE 1 OF 1

WELL/PROJECT NO. 1-20 LEASE Alag COUNTY/PARISH Scott CITY Pence DATE 5/21/19 OWNER
 TICKET TYPE SERVICE SALES CONTRACTOR DUKE RIG NAME/NO. 4 SHIPPED VIA CT DELIVERED TO location ORDER NO.
 WELL TYPE oil WELL CATEGORY Development JOB PURPOSE Cement surface pipe WELL PERMIT NO. _____ WELL LOCATION 20-16-34
 INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT							
575		1			MILEAGE	TRX 114	80	mi	5.00	400.00
5765		1			Pump Charge	shallow surface	1	ea	925.00	925.00
325		1			Standard cement		175	sk	13.50	2362.50
271		1			Bentonite gel		300	lb	30.00	90.00
278		1			Calcium Chloride		50	lb	40.00	320.00
276		1			Floccle		2	gal	3.00	150.00
290		1			D-AIR		175	sk	47.00	8400.00
581		1			Service charge		1720	lb	1.85	323.75
583		1			Drayage		688	TM	0.95	653.60

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.

X

DATE SIGNED _____ TIME SIGNED _____ A.M. P.M.

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

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

PAGE TOTAL 5308.95
 TOTAL 5304.40

Scott
 8.5%

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

SWIFT OPERATOR ASJ APPROVAL _____

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 5 Jul 19 PAGE NO. 1

CUSTOMER Shakespeare WELL NO. 1-20 LEASE Aldag JOB TYPE cement surface pipe TICKET NO. 32283

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sk standard cement 20 gal 3% CC 1/4" flocc 88" x 23" casing 6jts 264'
	1130							on loc TRK114 Drilling
	1305							start 88" x 23" casing in well
	1350							circulate well
	1408	3 3/4	44					MIX STD 2% 3% cement 175 sk @ 14.7 PPG
		3 3/4	15 1/2					Displace w/ H ₂ O cement to surface shot in 88" ←
	1430							wash truck Rack up job complete 15 sk 10 PPG Plugs Blaise, Flint & Squaton

GLOBAL OIL FIELD SERVICES, LLC

24 S. Lincoln
RUSSELL, KS 67665

Invoice

Date	Invoice #
7/16/2019	13767

Bill To
SHAKESPEARE OIL COMPANY INC 202 W MAIN SALEM,IL 62881

P.O. No.	Terms	Project
ALDOG#1-20	Due on receipt	

Quantity	Description	Rate	Amount
270	60/40 POZMIX CEMENT	13.75	3,712.50
10	BENTONITE GEL	30.00	300.00
67.5	FLO-SEAL	2.00	135.00
280	HANDLING	1.90	532.00
	BULK MILEAGE	950.00	950.00
1	TRI-PLEX PUMP CHARGE FOR PLUG	850.00	850.00
45	HEAVY EQUIPMENT. ONE WAY	6.50	292.50
45	LMV- ONE WAY	2.75	123.75
	15% DISCOUNT IF PAID WITHIN 15 DAYS OF INVOICE	8.50%	0.00
	SCOTT CO SALES TAX		

502-5

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JUL 22 2019

Thank you for your business.

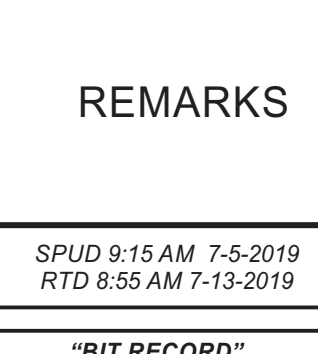
Phone #	Fax #
785-445-3525	785-445-3526

Total \$6,895.75

GEOLOGIST'S REPORT
 DRILLING TIME AND SAMPLE LOG

COMPANY	Shakespeare Oil Co., Inc	ELEVATIONS	KB 3153'
LEASE	Aldag #1-20	DF	
FIELD	Wildcat	GL	3144'
LOCATION	870 FNL, 550' FEL, NE/4	Measurements Are All	From 3153' KB
SEC	20	TWSP	16s RGE 34w
COUNTY	Scott	STATE	Ks
CONTRACTOR	Duke Drilling Rig #4	CASING	CONDUCTOR SURFACE 8 5/8" @ 264' PRODUCTION None
SPUD	7-5-2019	COMP	7-13-2019
RTD	4900'	LT D	4894'
MUD UP	3500'	TYPE MUD	Chemical
SAMPLES SAVED FROM	3700 TO RTD	ELECTRICAL SURVEYS	Pioneer Stack - Sonic, DCP/L, DIL, ML Engr. Justin Hennickson
DRILLING TIME KEPT FROM	3700 TO RTD		
SAMPLES EXAMINED FROM	3700 TO RTD		
GEOLOGICAL SUPERVISION FROM	3845 RTD		
GEOLOGIST ON WELL	Tim J. Lauer		

FORMATION TOP	ELECTRIC LOG	SAMPLE LOG
Anhydrite	2462 (+691)	2468 (+685)
Heebner	4004 (-851)	4010 (-857)
Lansing	4046 (-893)	4051 (-898)
Muncie Creek	4232 (-1079)	4242 (-1089)
Stark	4494 (-1331)	4498 (-1335)
Marmaton	4633 (-1480)	4639 (-1486)
Cherokee Shale	4675 (-1522)	4680 (-1527)
Johnson Zone	4820 (-1667)	4824 (-1671)
Mississippian	4894 (-1741)	4900 (-1747)
Total Depth		



REMARKS Due to drill stem test results, and log evaluation, operator elected to plug and abandon the location without any further testing.

*Note: Error on Board resulting in all rotary meas. to be moved uphole 6 ft to match log measurements. Strap and Re-strap confirm. LT D 6" shallow to RTD. Move DST measurements and Tops up hole 6 feet to match Ellog.

Respectfully submitted,
 [Signature]
 Tim J. Lauer
 7/14/2019

Lat: 38.653856698
 Long: 101.093712673
 NAD 83
 API: 15-171-21,254-00-00

DEPTH	SAMPLE DESCRIPTION	REMARKS
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2450
 RTD 9:15 AM 7-5-2019
 RTD 8:55 AM 7-13-2019

"BIT RECORD"
 1) Smith FH24Y (New)
 Under Surface to 4900' RTD

"VERTICAL SURVEYS"
 1/4" @ 264'
 0" @ 948'
 3/4" @ 1973'
 3/4" @ 2471'
 3/4" @ 2971'
 1/4" @ 3563'
 3/4" @ 4560'
 1" @ 4900'

"DAILY ACTIVITY REPORT"
 7-5-2019 - 7:00 AM
 Prep to Spud
 7-6-2019 - 7:00 AM
 Drig @ 780'
 set 9-8' @ 264'
 7-7-2019 - 7:00 AM
 Drig @ 2180'
 7-8-2019 - 7:00 AM
 Drig @ 3045'
 7-9-2019 - 7:00 AM
 Drig @ 3584'

7-10-2019 - 7:00 AM
 Drig @ 4160'
 7-11-2019 - 7:00 AM
 Drig @ 4554'

7-12-2019 - 7:00 AM
 Drig @ 4875'
 7-13-2019 - 7:00 AM
 RTD @ 4900'
 Ran OH Pioneer Ellogs
 Plug and Abd location

Call Point 3550'
 12:00 AM 8.9-2019
 Rig down for 7.5 hours
 working on pump at 3584'

Geologist on location 3845'
 5:30 PM 7-9-2019
 Rig Check:
 vis: 52 wt 9.0 LCM: 1#

Rig Check:
 vis: 51 wt 8.9 LCM: 1#

Rig Check:
 vis: 51 wt 8.9 LCM: 1#

Rig Check:
 vis: 59 wt 9.2 LCM: 1#

Mud Check at 4183:
 LCM: 57 wt 9.3 Chlor: 2,000
 LCM: 1# Ph: 11.0 WL: 7.2

Rig Check:
 vis: 59 wt 9.2 LCM: 1#

Mud Check at 4560 before DST:
 vis: 53 wt 9.3 Chlor: 3,000
 LCM: 1# Ph: 11.0 WL: 8.0
 35 Stand Short Trip at 4560'
 Pulled 30-50 over on
 stands 2 through 17

Pipe Strap on DST (1):
 Board: 4585.53'
 Strap: 4578.60'
 Diff: 6.93' short

DST (1) 4440' - 4560'
 30-30-30-30
 Blow: weak 1/2" deep in 19 min on IFP,
 no blowback on ISIP,
 no blow on FSP,
 no blowback on FFP.
 10% Mud, Oil spots in tool
 DST: NA
 IHP: 2311 FFP: 32-30
 IHP: 30-31 FSP: 355'
 ISIP: 424' FHP: 2174
 Temp: 114F
 Chlorides: 3,000 PPM
 DST: NA
 Rst: NA
 *Notes: Both Shale curves still bldg,
 straight line curves, no breakover
 FFP shows minor plugging action.

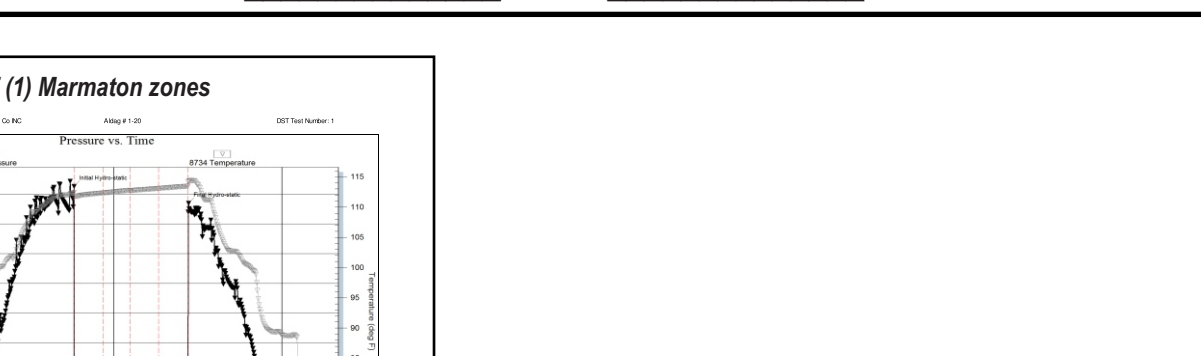
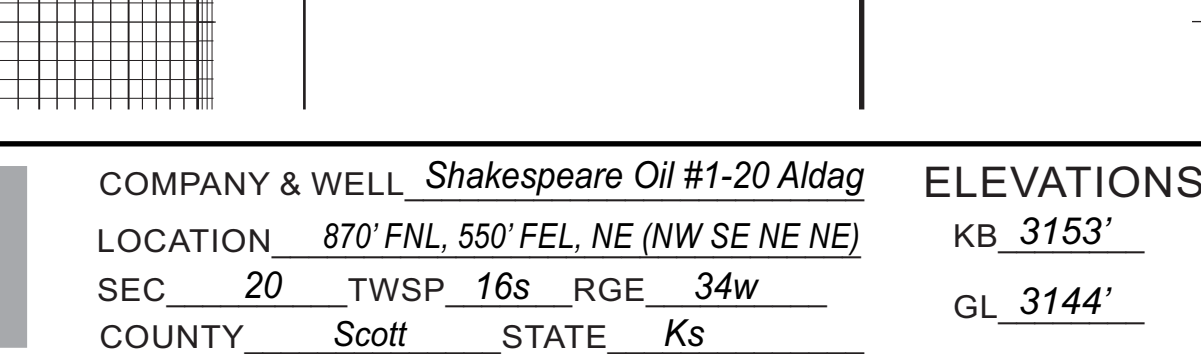
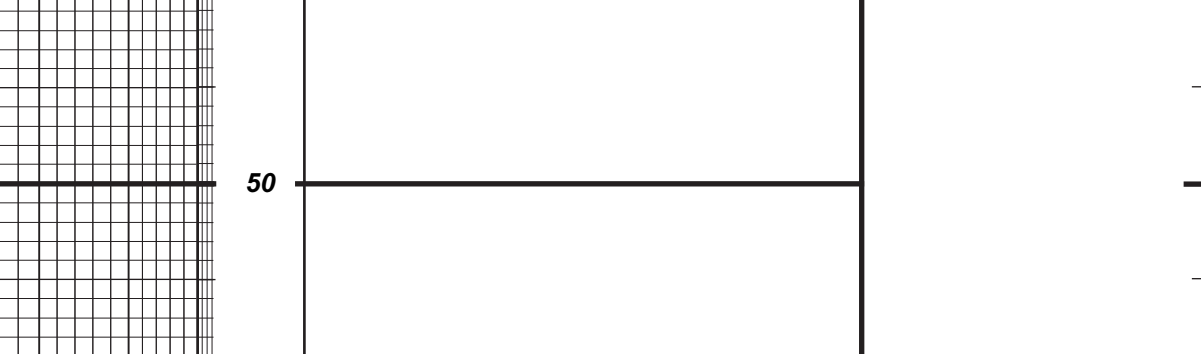
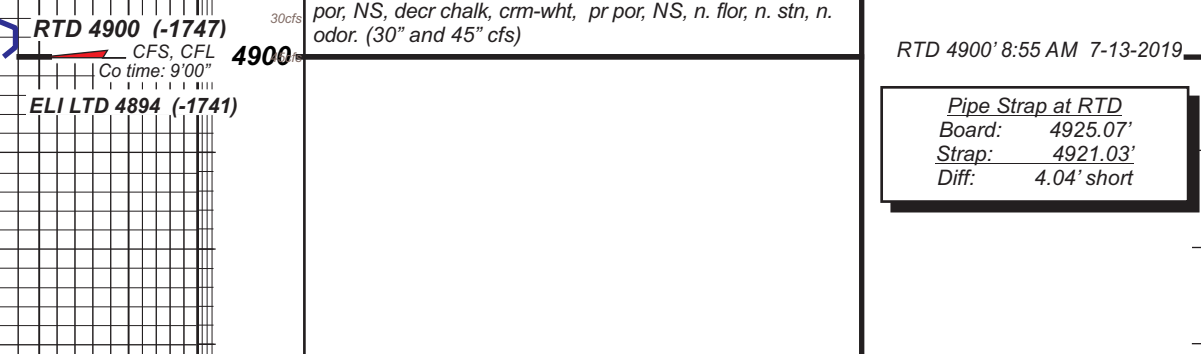
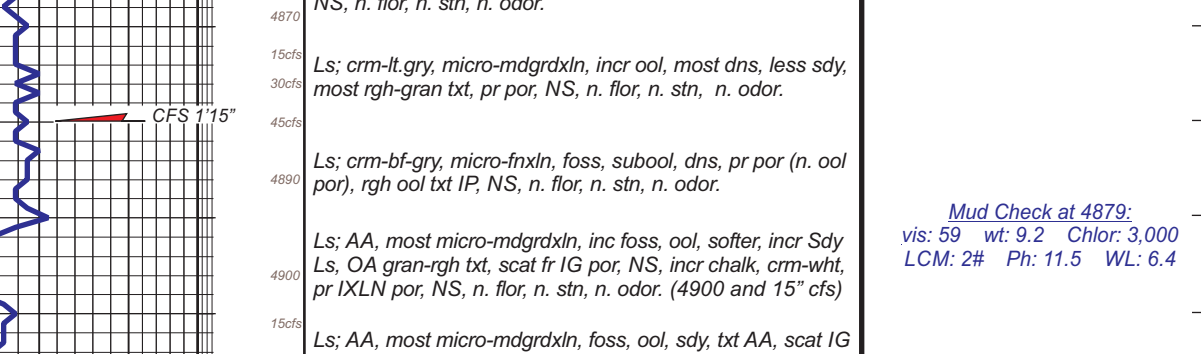
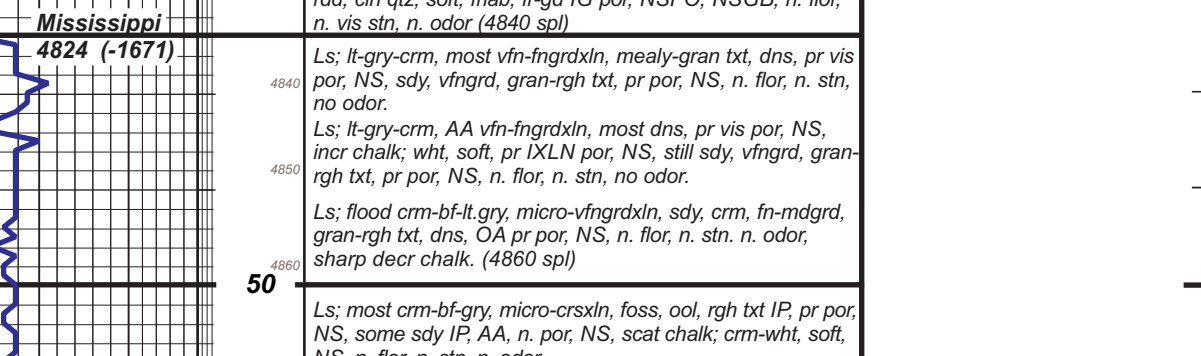
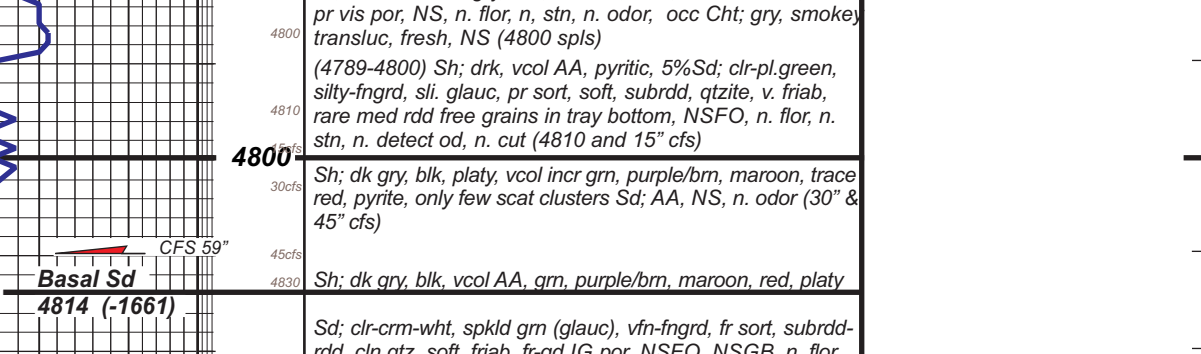
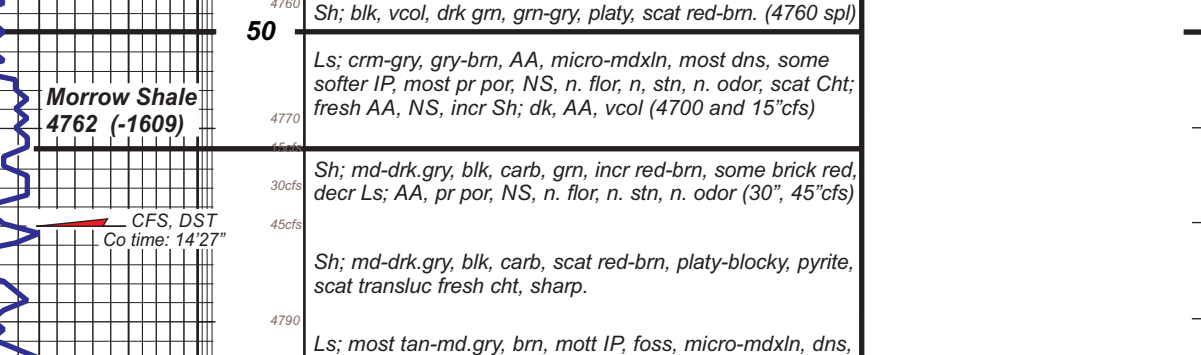
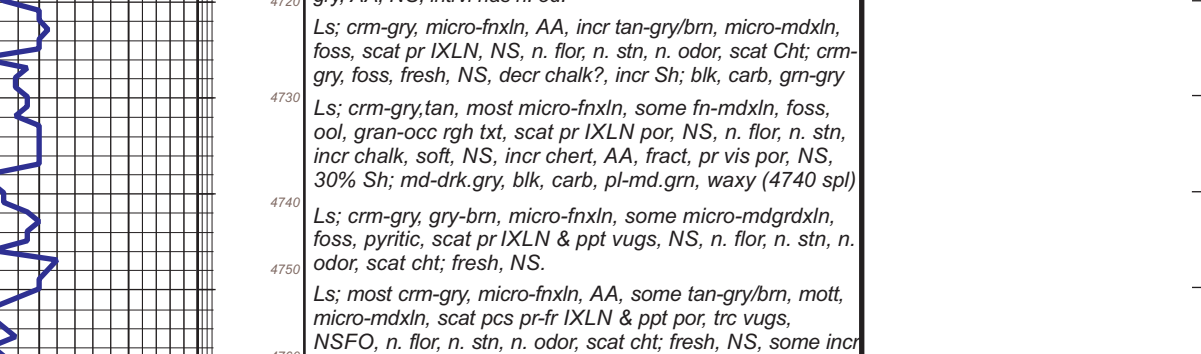
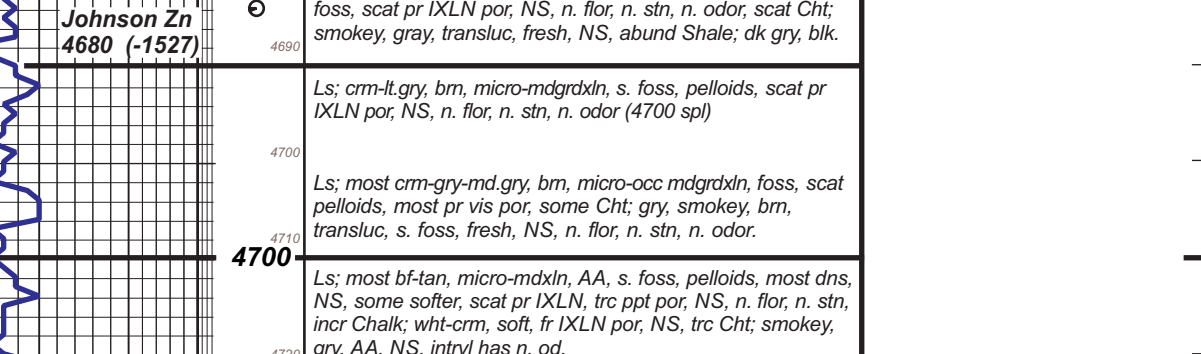
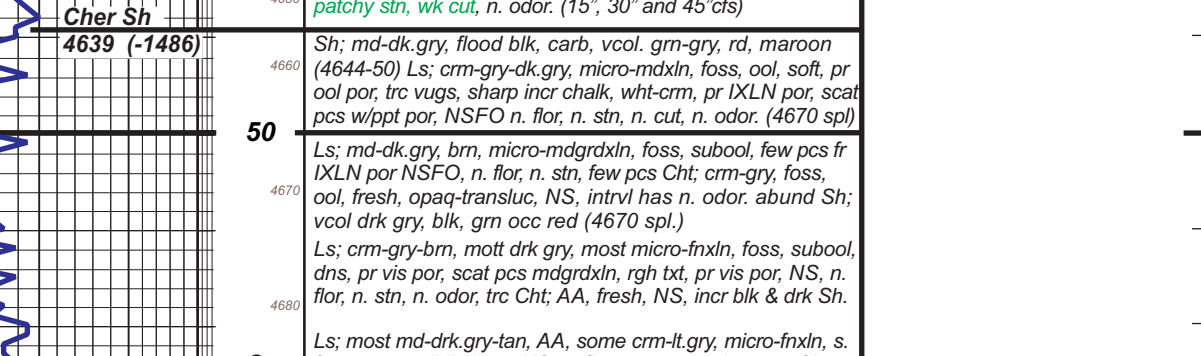
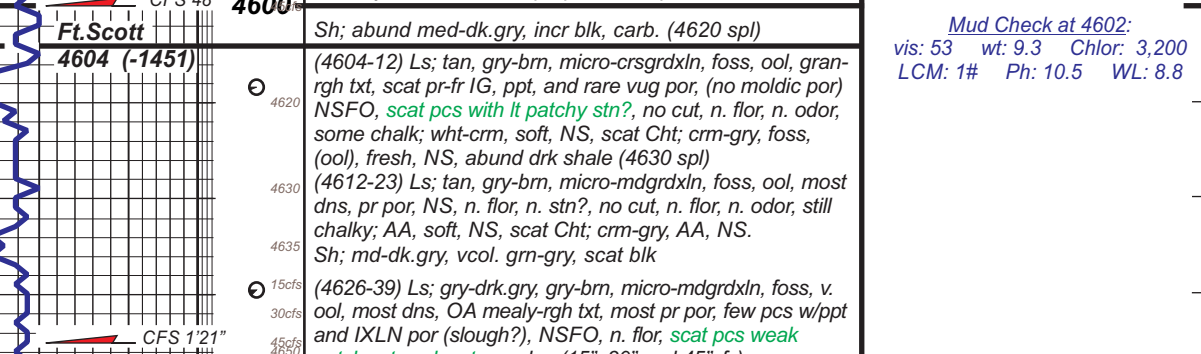
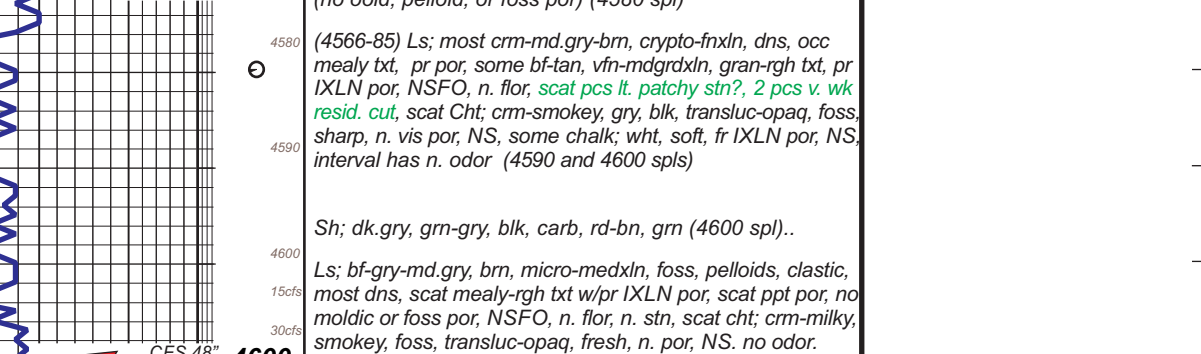
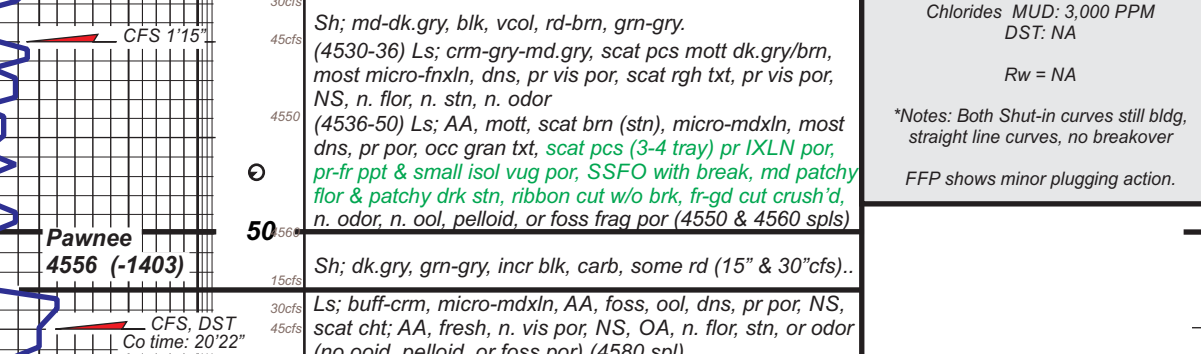
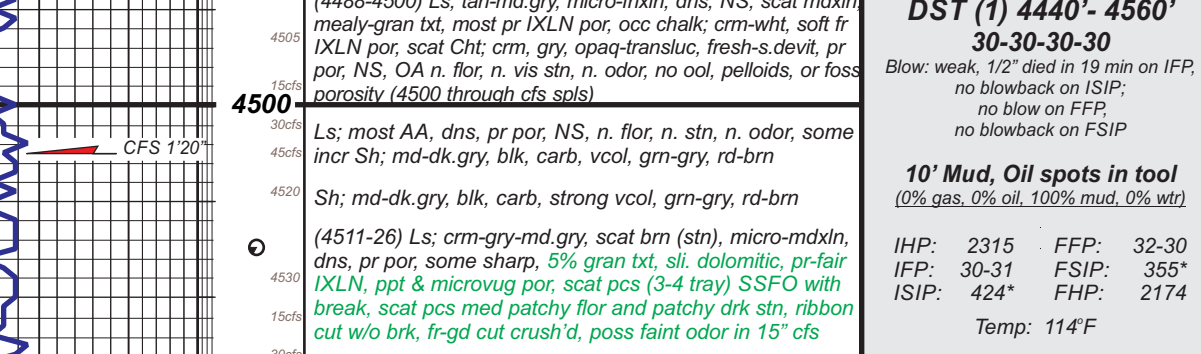
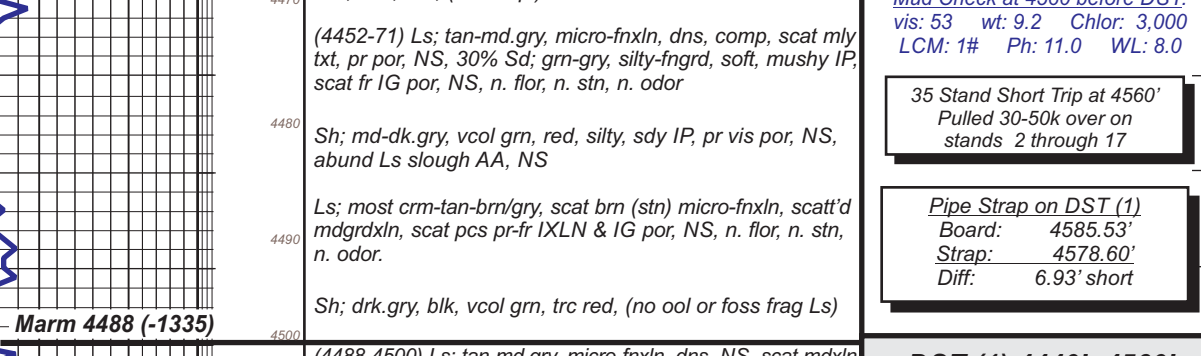
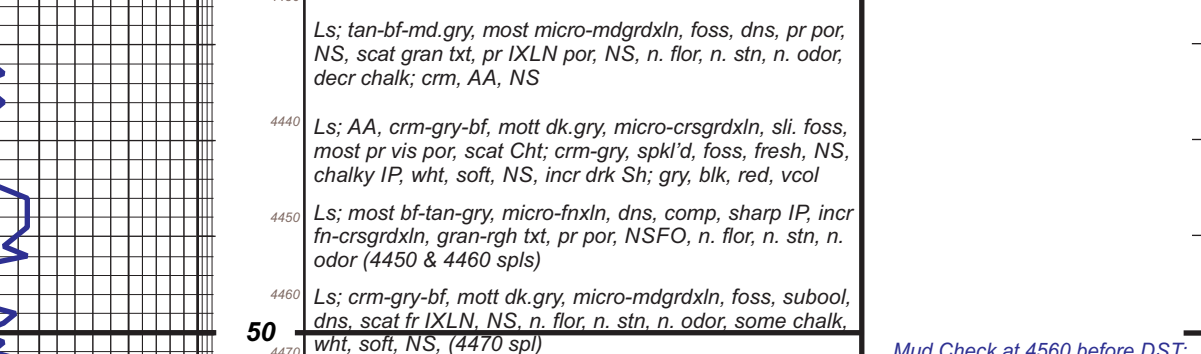
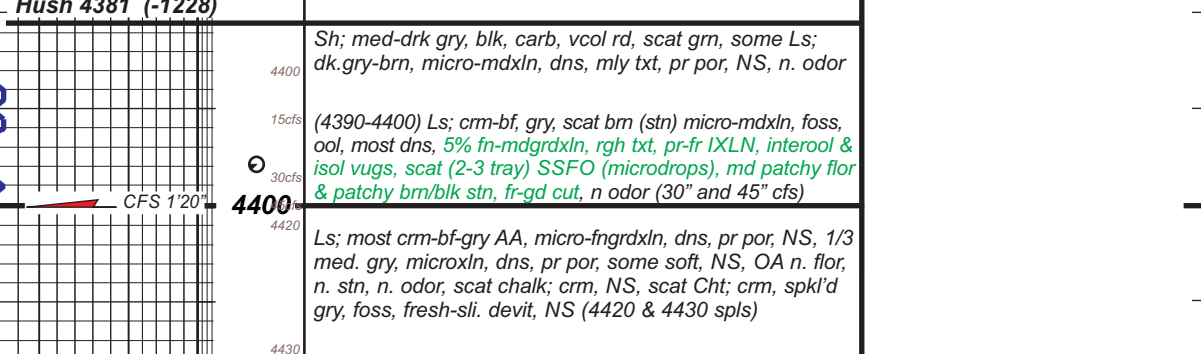
Mud Check at 4602:
 vis: 53 wt 9.2 Chlor: 3,200
 LCM: 1# Ph: 10.5 WL: 8.8

Mud Check at 4879:
 vis: 53 wt 9.2 Chlor: 3,000
 LCM: 2# Ph: 11.5 WL: 6.4

RTD 4900' 8:55 AM 7-13-2019
 Pipe Strap at RTD
 Board: 4925.07'
 Strap: 4921.03'
 Diff: 4.04' short

COMPANY & WELL Shakespeare Oil #1-20 Aldag
 LOCATION 870' FNL, 550' FEL, NE (NW SE NE NE)
 SEC 20 TWSP 16s RGE 34w
 COUNTY Scott STATE Ks

ELEVATIONS KB 3153' GL 3144'





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co INC

20 - 16S. - 34W. Scott, KS

202 W. Main
Salem, IL 62881

Aldag # 1-20

Job Ticket: 64362

DST#: 1

ATTN: Tim Lauer

Test Start: 2019.07.11 @ 17:06:00

GENERAL INFORMATION:

Formation: **Marmaton " A - C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:17:10

Time Test Ended: 00:38:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 82

Interval: **4440.00 ft (KB) To 4560.00 ft (KB) (TVD)**

Reference Elevations: 3153.00 ft (KB)

Total Depth: 4560.00 ft (KB) (TVD)

3144.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8734 Outside

Press@RunDepth: 30.21 psig @ 4441.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.07.11

End Date:

2019.07.12

Last Calib.:

2019.07.12

Start Time: 17:06:01

End Time:

00:38:00

Time On Btm:

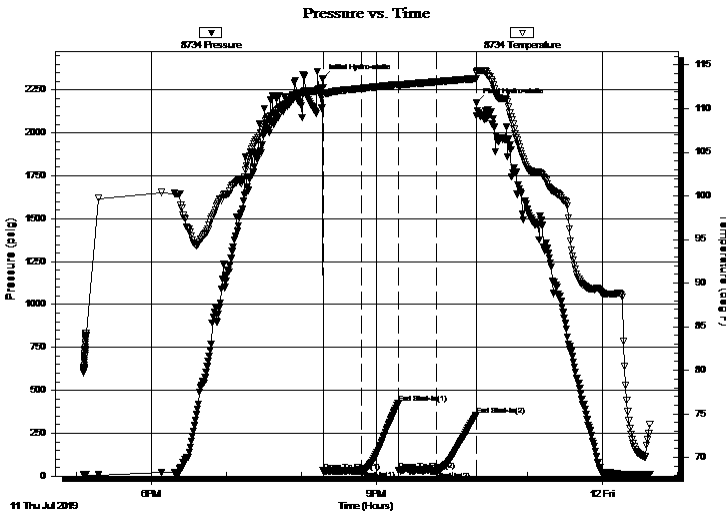
2019.07.11 @ 20:17:00

Time Off Btm:

2019.07.11 @ 22:19:39

TEST COMMENT: 30-IF-1/2" blow dead @ 19 mins
30-ISI-No blow back
30-FF-No blow
30-FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2315.38	112.43	Initial Hydro-static
1	30.07	111.63	Open To Flow (1)
32	31.47	112.34	Shut-In(1)
61	423.98	112.76	End Shut-In(1)
61	31.68	112.59	Open To Flow (2)
91	30.21	113.07	Shut-In(2)
123	355.13	113.45	End Shut-In(2)
123	2173.54	114.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Mud	0.14
0.00	Oil spots in tool	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co INC

20 - 16S. - 34W. Scott, KS

202 W. Main
Salem, IL 62881

Aldag # 1-20

Job Ticket: 64362

DST#: 1

ATTN: Tim Lauer

Test Start: 2019.07.11 @ 17:06:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100% Mud	0.140
0.00	Oil spots in tool	0.000

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

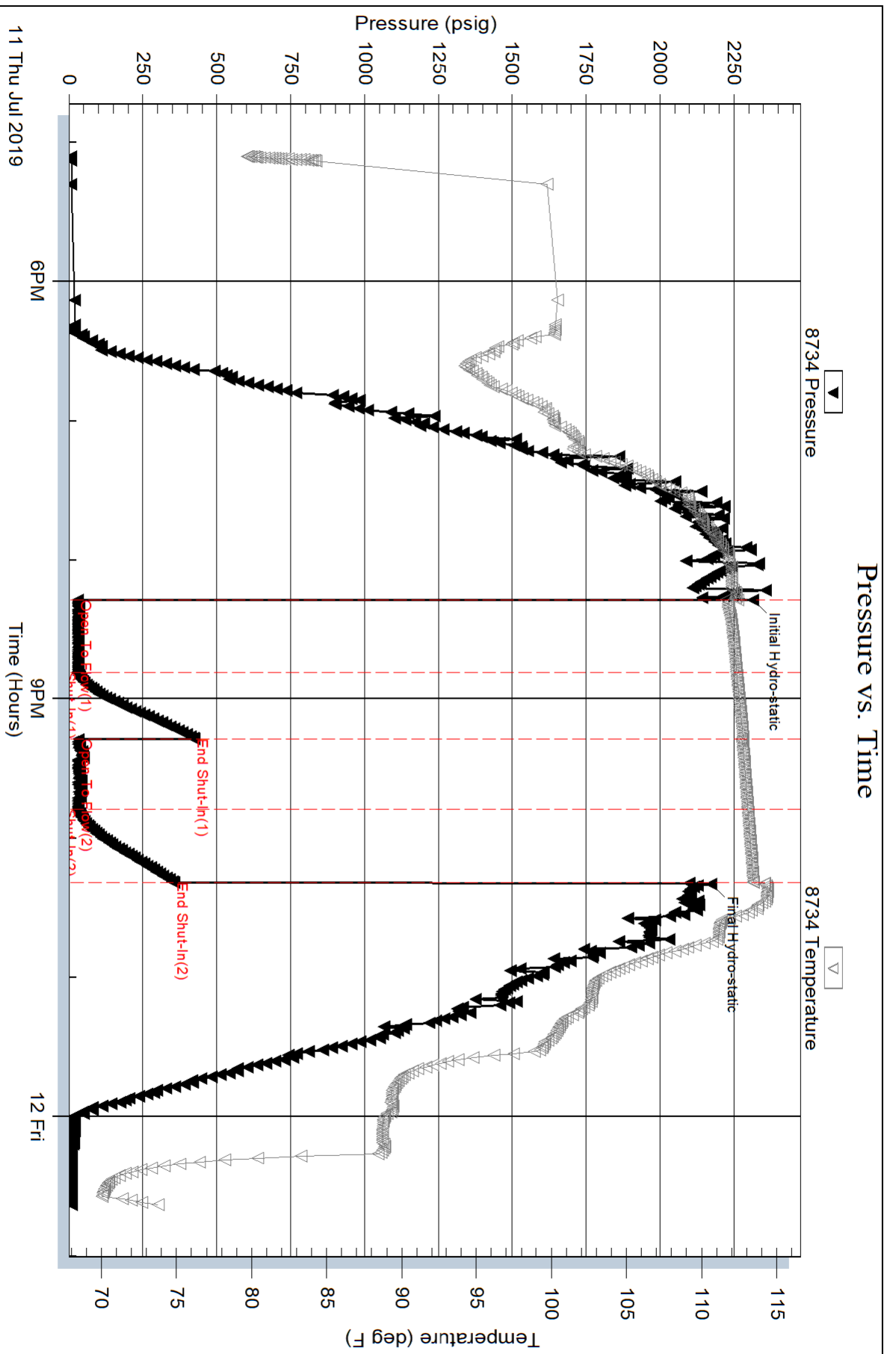
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 8959

Inside

Shakespeare Oil Co INC

Aldag # 1-20

DST Test Number: 1

