

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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CHARGE TO: *Curtis Oil Operation*

ADDRESS

CITY, STATE, ZIP CODE

TICKET 032738

PAGE 1 OF

SERVICE LOCATIONS 1. <i>Hays Ks</i> 2. <i>Ness City Ks</i>	WELL/PROJECT NO. # <i>1</i>	LEASE <i>Schlessinger</i>	COUNTY/PARISH <i>Barton</i>	STATE <i>Ks</i>	CITY	DATE <i>1-26-2020</i>	OWNER
TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <i>Southwind</i>	RIG NAME/NO. <i>Rig # 3</i>	SHIPPED VIA <i>CT</i>	DELIVERED TO <i>location</i>	ORDER NO.		
WELL TYPE <i>oil</i>	WELL CATEGORY <i>development</i>	JOB PURPOSE <i>Top to Bottom Long String</i>	WELL PERMIT NO.	WELL LOCATION			
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE <i>Trk # 110</i>	70		MI		5.00	350.00
579		1			<i>Pump Change - Top to Bottom</i>	1		EA		1900.00	1900.00
290		1			<i>D-Air</i>	5		gal		42.00	210.00
221		1			<i>Livins Kcl</i>	2		gal		25.00	50.00
281		1			<i>Mudflush</i>	500		gal		1.50	750.00
402		1			<i>Centralizer</i>	10		TA	<i>5 1/2</i>	75.00	750.00
403		1			<i>Cement Bracket</i>	2		EA		275.00	550.00
406		1			<i>latch Down plug & Baffle</i>	1		EA		250.00	250.00
407		1			<i>Insert Floor shoe w/ Auto Fill</i>	1		EA		325.00	325.00
419		1			<i>Rotating Head Rental</i>	1		EA		250.00	250.00
		1			<i>Swift</i>	1		EA		15.00	15.00

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.

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	AGREE	UNDECIDED	DISAGREE	PAGE TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				5400.00
WE UNDERSTOOD AND MET YOUR NEEDS?				10804.85
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				16204.85
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				<i>Bartram</i> 8741.13
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL 17078.98
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				

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

SWIFT OPERATOR *David Edgerton* APPROVAL _____

Thank You!



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

TICKET CONTINUATION

TICKET No. 32738

CUSTOMER: *Curts oil operation* WELL: *Schlessinger #1* DATE: *1-26-2020* PAGE: *1* OF: *1*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY	U/M	QTY	U/M		
330		2				Swift Multi Density	235	sk			17.00	3995.00
325		2				Standard Cement	200	sk			13.50	2700.00
284		2				Causeal	10	sk			40.00	400.00
283		2				Salt	1100	lbs			.25	275.00
292		2				HALAD-322	100	lbs			8.50	850.00
276		2				Flocele	100	lbs			3.00	300.00
581		2				SERVICE CHARGE Cement					1.85	804.75
583		2				MILEAGE CHARGE	44514	TOTAL WEIGHT	70	LOADED MILES	1.95	1480.10

CONTINUATION TOTAL 10804.85

SWIFT Services, Inc.

DATE 1-26-2020 PAGE NO. _____

JOB LOG

CUSTOMER CHART NO.	TIME	RATE (BPM)	WELL NO. #1		LEASE		JOB TYPE	TICKET NO.	DESCRIPTION OF OPERATION AND MATERIALS
			VOLUME (BBL) (GAL)	PUMPS T C	TUBING	CASING			
Curts Oil	1900					Schlessiger	Top to Bottom	32738	On location
									5 1/2 x 14 #
									Rtd - 3400
									Set @ 3397.07
									Centrifizers 2,3,4,5,7,9,11,3,15,17
									Baskets - 48749
									Start Running Csg
	2240								Circ on Bottom
	2340	2.5	8						Plug cast hole - 30 sks cmt
		5.5	12						pump mud flush - 500 gal
	000	5.5	20						pump kcal spacer
									Start Cmt - 205 sks smd @ 11.2M
		6	116						Pump EA - 2 - 200 sks @ 15.5M
		4.5	46						Drop plug - Wash Pac
									Start Disp
	0145	6	0						Land plug Lift psi - 800 #
	100	5	81						Land - 1500 #
									Release psi Dry
									Did not Circ Cmt
									Jobs Complete
									Thanks
									PAUL ZAED & KIRBY



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

Invoice

DATE	INVOICE #
1/26/2020	32738

BILL TO

Curt's Oil Operations, LLC
P. O. Box 8
Great Bend, KS 67530-0008

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator		
Net 30	#1	Schlessinger	Barton	Southwind Rig #3	Oil	Development	Top to Btm Long...	David E		
PRICE REF.	DESCRIPTION						QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way						70	Miles	5.00	350.00
579D	Pump Charge - Two-Stage & Top To Bottom LongString						1	Job	1,900.00	1,900.00
290	D-Air						5	Gallon(s)	42.00	210.00T
221	Liquid KCL (Clayfix)						2	Gallon(s)	25.00	50.00T
281	Mud Flush						500	Gallon(s)	1.50	750.00T
402-5	5 1/2" Centralizer						10	Each	75.00	750.00T
403-5	5 1/2" Cement Basket						2	Each	275.00	550.00T
406-5	5 1/2" Latch Down Plug & Baffle						1	Each	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill						1	Each	325.00	325.00T
419-5	5 1/2" Rotating Head Rental						1	Each	250.00	250.00T
299	Sugar						1		15.00	15.00
330	Swift Multi-Density Standard (MIDCON II)						235	Sacks	17.00	3,995.00T
325	Standard Cement						200	Sacks	13.50	2,700.00T
284	Calseal						10	Sack(s)	40.00	400.00T
283	Salt						1,100	Lb(s)	0.25	275.00T
292	Halad 322						100	Lb(s)	8.50	850.00T
276	Flocele						100	Lb(s)	3.00	300.00T
581D	Service Charge Cement						435	Sacks	1.85	804.75
583D	Drayage						1,558	Ton Miles	0.95	1,480.10
	Subtotal									16,204.85
	Sales Tax Barton County								7.50%	874.13
We Appreciate Your Business!								Total		\$17,078.98

Geo Log Header
WellSight Systems
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Schlessinger 1
Well Id:
Location: Section 9 - 20S - 11W Barton Co, Kansas
License Number: API # 15-009-26284-0000
Spud Date: 1/20/2020
Surface Coordinates: 355 FSL & 1115 FEL
Region: Chase-Silica
Drilling Completed: 1/26/2020

Bottom Hole
Coordinates:
Ground Elevation (ft): 1768' K.B. Elevation (ft): 1777'
Logged Interval (ft): 2600 To: 3400 Total Depth (ft): 3400
Formation: Arbuckle
Type of Drilling Fluid: Chemical Gel/Polymer Fresh Water -Based

Printed by WellSight LogViewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: CURT'S OIL OPERATION, LLC
Address: P. O. Box 8
Great Bend, KS 67530

GEOLOGIST

Name: Clayton Camozzi
Company:
Address: 1474 S St Paul St
Denver CO 80210
Cell: 303.968.4999

REMARKS

After review of the open hole logs, DST data and geological log data it was recommended to run 5-1/2" production casing on the Schlessinger 1 for an Arbuckle completion. *Note - Drill time, DST intervals, and sample tops are 3' higher/shallower to the E-logs. The sample will be delivered, processed, and available for review at the KGS Library located in Wichita, Kansas
Respectfully, Clayton Camozzi

Curt's Oil Operation, LLC

WELL COMPARISON SHEET

Company: Curt's Oil Operation, LLC
 PO Box 8
 Great Bend KS
 Contact: Francis Hitschmann (Cell) 785 550 2702

Well: Schlessinger 1
 Location: 355 FSL / 1115 FEL
 9 - 20S - 11W
 Barton Co., KS
 Wellsite Geologist: Clayton Camozzi Cell: (303) 968-4999

Elevation: 1777' KB 1768' GL
 Field: Chase-Silica
 API No: 15-009- 26284-0000
 Surface Casing: 8 5/8" set @ 263' KB

Drilling Contractor: Southwind Rig #3, Rig Phone (620-566-7014), Tool Pusher Jay Krier (620-617-4477)

Formation	DRILLING WELL			COMPARISON WELL		
	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea
STONE CORAL	502	1275	505	1272		
BASE ROOT SHALE	2336	-559	2330	-553		
TOPEKA	2656	-879	2651	-874		
LECOMPTON	2759	-982	2756	-979		
QUENN HILL SH	2809	-1032	2805	-1028		
HEEBNER	2903	-1126	2900	-1123		
TORONTO	2919	-1142	2916	-1139		
DOUGLAS SHALE	2934	-1157	2930	-1153		
BROWN LIME	3028	-1251	3026	-1249		
LANSING	3047	-1270	3046	-1269		
LANSING "D" ZONE	3088	-1311	3084	-1307		
LANSING "H" ZONE	3180	-1403	3175	-1398		
STARK SHALE	3240	-1463	3236	-1459		
ARBUCKLE	3294	-1517	3290	-1513		
Total Depth	3400	-1623	3398	-1621		

3' Up-Hole Correction
 Drill Time, DST Intervals
 & Tops to the E-logs

Formation	COMPARISON WELL			COMPARISON WELL		
	Log	Sub-Sea	Sample	Sub-Sea	Log	Sample
Miller 1	496	1278	-3	-6		
Chris Batchman Inc	2320	-546	-13	-7		
950 FNL / 2515 FEL 16 - 20S - 11W	2649	-875	-4	1		
	2754	-980	-2	1		
	2804	-1030	-2	2		
	2900	-1126	0	3		
	2915	-1141	-1	2		
	2931	-1157	0	4		
	3026	-1252	1	3		
	3044	-1270	0	1		
	3084	-1310	-1	3		
	3174	-1400	-3	2		
	3236	-1462	-1	3		
	3280	-1506	-11	-7		
	3344	-1570	-53	-51		

Formation	COMPARISON WELL			COMPARISON WELL		
	Log	Sub-Sea	Sample	Sub-Sea	Log	Sample
Peters 5	509	1279	-4	-7		
Rains & Williams: D&A	2348	-560	1	7		
990 FNL / 1650 FWL 9 - 20S - 11W	2666	-878	-1	4		
	2772	-984	2	5		
	2820	-1032	0	4		
	2913	-1125	-1	2		
	2930	-1142	0	3		
	2946	-1158	1	5		
	3038	-1250	-1	1		
	3058	-1270	0	1		
	3098	-1310	-1	3		
	3192	-1404	1	6		
	3252	-1464	1	5		
	3304	-1516	-1	3		
	3375	-1587	-36	-34		



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Curt's Oil Operation
P.O. Box 8
Great Bend KS 67530+0008
ATTN: Clayton Camozzi

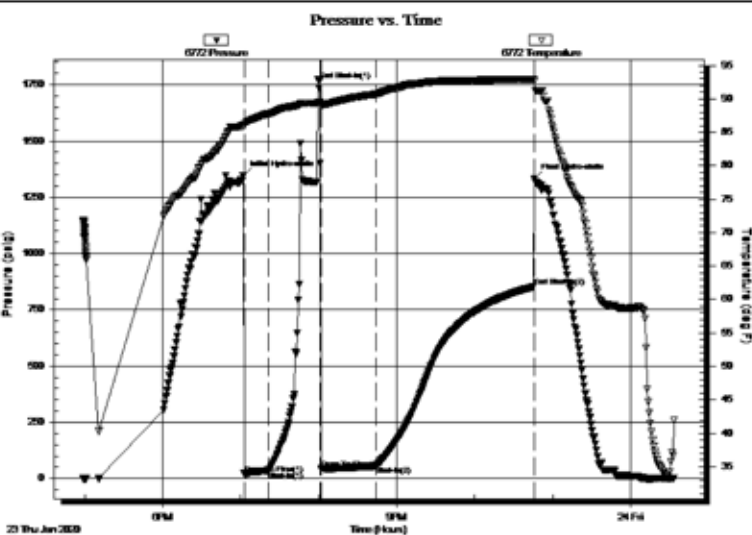
9-20-11 Barton,KS
Shlessinger #1
Job Ticket: 65719 **DST#: 1**
Test Start: 2020.01.23 @ 16:59:00

GENERAL INFORMATION:

Formation: **Plattsmouth**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:02:40
Time Test Ended: 00:34:00
Test Type: Conventional Straddle (Initial)
Tester: Benny Mulligan
Unit No: 66
Interval: **2834.00 ft (KB) To 2853.00 ft (KB) (TVD)**
Reference Elevations: 1777.00 ft (KB)
Total Depth: 2865.00 ft (KB) (TVD) 1768.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 6772 Inside
Press@RunDepth: 55.14 psig @ 2835.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2020.01.23 End Date: 2020.01.24 Last Calib.: 2020.01.24
Start Time: 16:59:01 End Time: 00:34:00 Time On Btm: 2020.01.23 @ 19:01:50
Time Off Btm: 2020.01.23 @ 22:46:00

TEST COMMENT: IF-15-BOB 7mins 20secs total build of 30"
ISI-60- 1" blow back Tool slid during initial shutin 6"
FF-40- BOB 1min 30secs total build of 60"
FSI-120- 2 1/2 " blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1347.16	86.08	Initial Hydro-static
1	21.99	86.01	Open To Flow (1)
20	33.06	87.77	Shut-In(1)
59	1771.39	89.52	End Shut-In(1)
60	43.65	88.99	Open To Flow (2)
103	55.14	90.69	Shut-In(2)
224	852.32	92.93	End Shut-In(2)
225	1333.75	92.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GOCM 20%G 20%O 60%M	1.13
0.00	GIP 60'	0.00

Gas Rates

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

ROCK TYPES

LITHOLOGY

	Anhy	
	Bent	
	Brec	
	Cht	
	Clyst	
	Coal	
	Congl	
	Dol	
	Gyp	
	Igne	
	Lmst	
	Meta	
	Mrlst	
	Salt	
	Shale	
	Shcol	
	Shgy	
	Sltst	
	Ss	
	Till	
	Sltstn	
	Shale	
	Sandylms	
	Lms	
	Gry sh	
	Dtd	
	Dol	
	Carb sh	
	pipesymbol	
	unknown lith	
	Red shale	

MINERAL

	Silty
	Sand
	Dol
	Chlorite
	Anhy
	Arggrn
	Arg
	Bent
	Bit
	Brecfrag
	Calc
	Carb
	Chtdk
	Chtlt
	Dol

	Amph
	Belm
	Bioclst
	Brach
	Bryozoa
	Cephal
	Coral
	Crin
	Echin
	Fish
	Foram
	Fossil
	Gastro
	Oolite
	Ostra
	Pelec
	Pellet
	Pisolite
	Plant
	Strom

STRINGER

	Sh
	Sandylms
	Lms
	Gryslt
	Grysh
	Dol
	Clystn
	Carbsh
	Anhy
	Arg
	Bent
	Coal
	Dol
	Gyp
	Ls
	Mrst
	Sltstrg

Ssstrg

TEXTURE

	Boundst
	Chalky
	Cryxln
	Earthy
	Finexln
	Grainst
	Lithogr
	Microxln
	Mudst
	Packst
	Wackest

OIL SHOW

	Gas show
	Even
	Spotted
	Ques
	Dead

INTERVAL

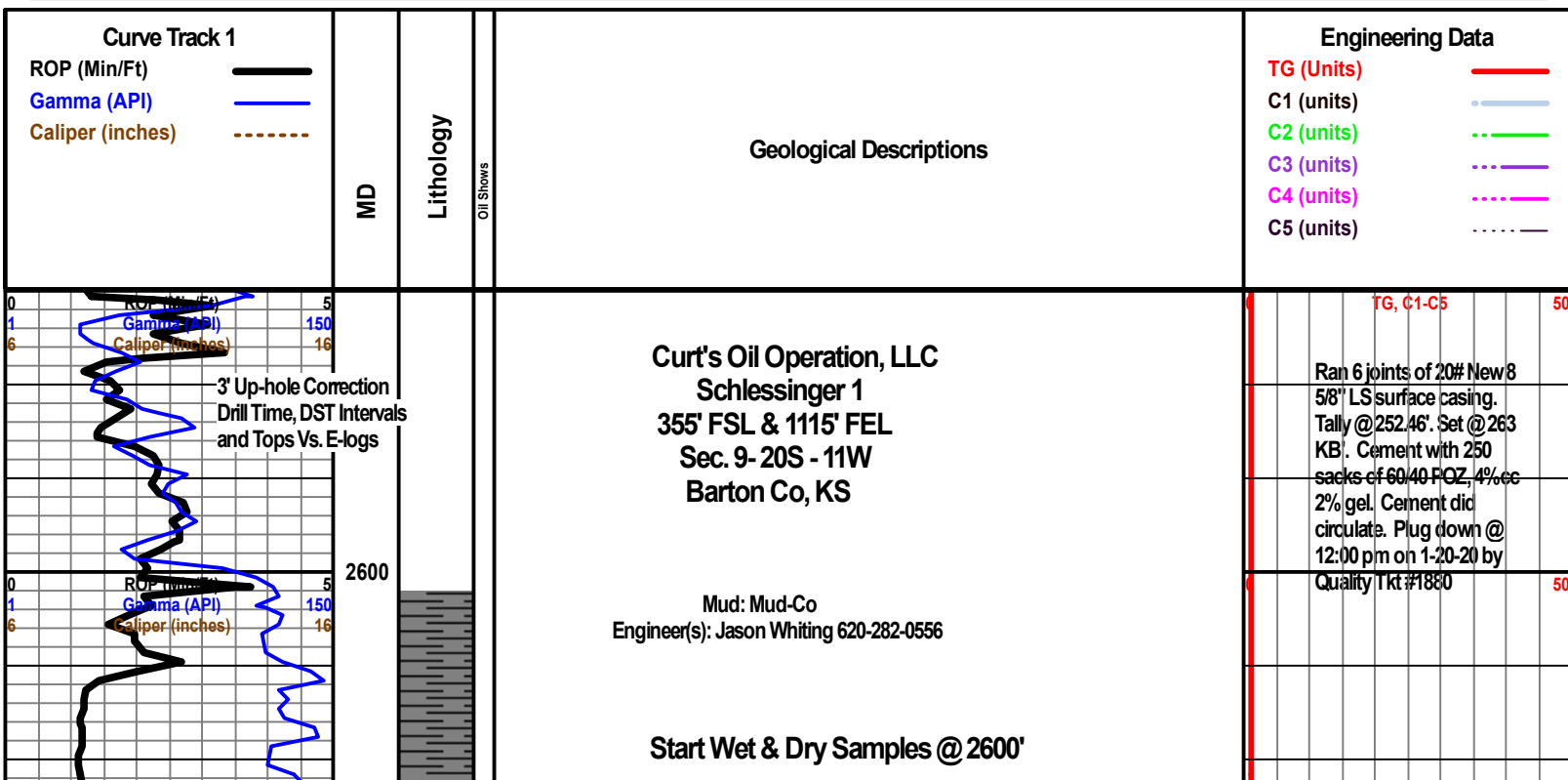
	Dst
	Core
	Dst
	Straddle test tail pipe

EVENT

	Rft
	Sidewall
	Dst
	Open hole
	Perforations

FOSSIL

	Oomoldic
	Fuss
	Algae



Geologist, Clayton Camozzi on Location @ 2700'
7:10 am January 23, 2020

Drilling Company: Soutwind Drilling
Rig #3 620-566-7014 Tool Pusher: Jay Krier 620-566-7014

Topeka 2656 (-879)

Limestone, light gray to scattered cream, microcrystalline matrix scattered sub sucrosic matrix with abundant shale inclusions, no visible porosity, no odor, no fluorescence no show, pyrite in part, abundant tight gray hard dense splinty shale

Limestone light gray to scattered light brown, hard dense, microcrystalline matrix with abundant shale inclusions, no visible porosity, no odor, no fluorescence, no show

Limestone to shaly lime, hard to scattered soft, light gray to gray, microcrystalline matrix with abundant shale inclusions, no visible porosity, no fluorescence no show, scattered trace light gray silstone, micaceous, no fluorescence no show

Limestone, cream to to gray, hard, microcrystalline matrix throughout, trace imbedded shale, no visible porosity, no fluorescence no show, trace fusulinids in part

Limestone cream to abundant gray, hard dense to scattered brittle, microcrystalline matrix, trace imbedded light gray shale in part, no visible porosity, no odor, no show

Shale, black, soft, carbonaceous, no fluorescence

Limestone gray to cream, hard to brittle, microcrystalline chalky matrix with scattered light gray shale stringers, no visible porosity, no odor no, no show, scattered fossil frags throughout, trace soft white chalk

LeCompton 2759 (-982)

Limestone, cream to light gray, hard to brittle, microcrystalline matrix with shale stringers in part, no visible porosity, no odor, no fluorescence, no show, trace fusulinids in part, trace pyrite in part

Limestone as above

Limestone light gray, soft to brittle, microcrystalline throughout, abundant shale frags in matrix, no visible porosity, no fluorescence, no odor, no show oil

Queen Hill Sh 2809 (-1032)

Shale, black, soft, carbonaceous

Limestone, light gray to light brown, hard dense microcrystalline matrix with trace calcite veins, no visible porosity, no odor, no fluorescence, no show oil

Limestone, light gray to light brown, hard dense, microcrystalline matrix trace scattered calcite veins, poor intercrystalline porosity to no visible porosity, no odor no fluorescence, no show, scattered fusulinids

Mud-Co Check @ 2725'
7:15 AM 1/23/20
Vis 51 Wt 8.7
PV 14 YP 13
WL 8.8
Cake 1
PH 11.5
CHL 6,700 ppm
CA 10
Sol 2.6
LCM: 1# / bbl
DMC: \$948.32
CMC: \$6,065.60

Recalibrate Gas

TG, C1-C5

2650

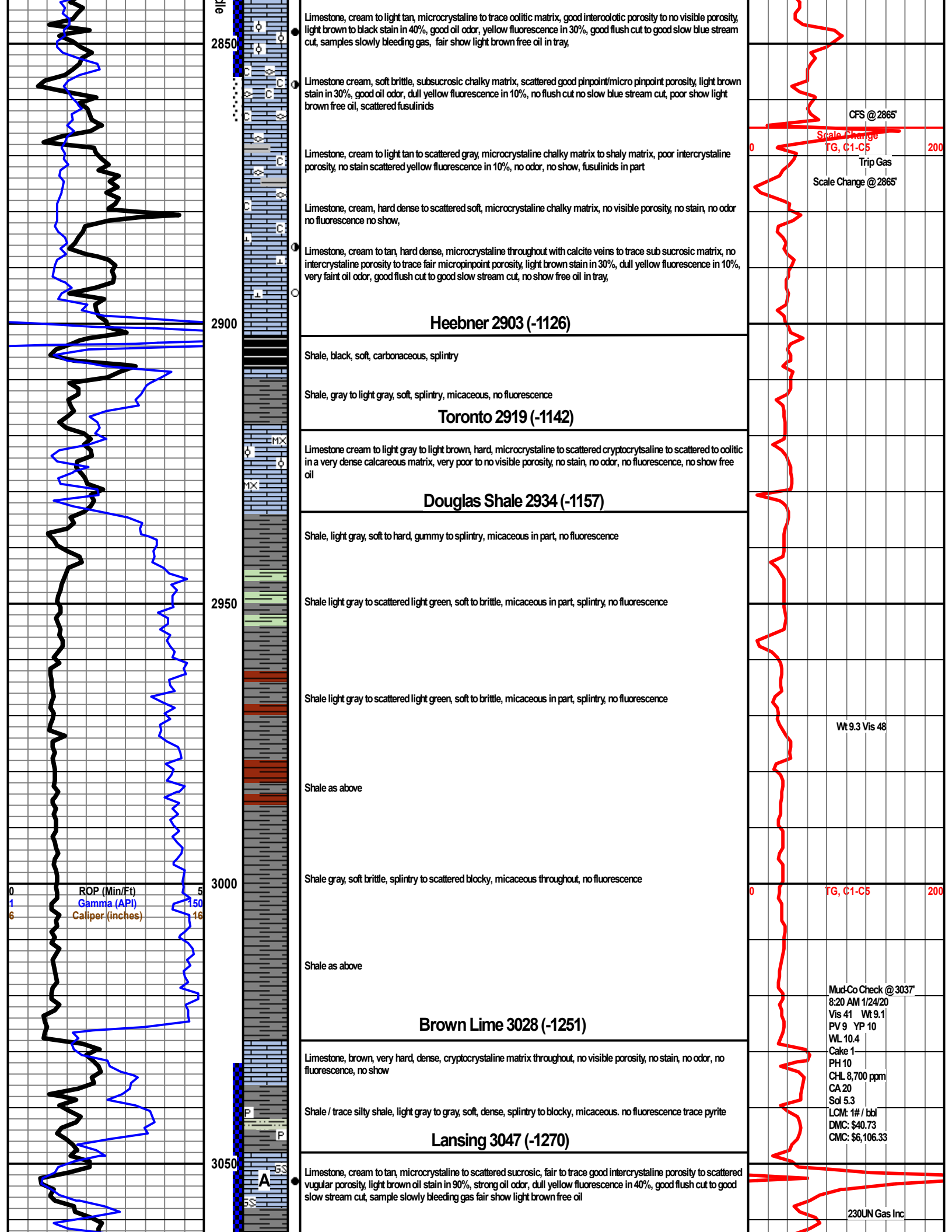
2700

2750

2800

Res (Min/Ft) 5
Gamma (API) 150
Caliper (Inches) 4.6

DST #1 2834'-2853' Strad



eif

2850

Limestone, cream to light tan, microcrystalline to trace oolitic matrix, good interoolitic porosity to no visible porosity, light brown to black stain in 40%, good oil odor, yellow fluorescence in 30%, good flush cut to good slow blue stream cut, samples slowly bleeding gas, fair show light brown free oil in tray,

Limestone cream, soft brittle, subsucrosic chalky matrix, scattered good pinpoint/micro pinpoint porosity, light brown stain in 30%, good oil odor, dull yellow fluorescence in 10%, no flush cut no slow blue stream cut, poor show light brown free oil, scattered fusulinids

Limestone, cream to light tan to scattered gray, microcrystalline chalky matrix to shaly matrix, poor intercrystalline porosity, no stain scattered yellow fluorescence in 10%, no odor, no show, fusulinids in part

Limestone, cream, hard dense to scattered soft, microcrystalline chalky matrix, no visible porosity, no stain, no odor no fluorescence no show,

Limestone, cream to tan, hard dense, microcrystalline throughout with calcite veins to trace sub sucrosic matrix, no intercrystalline porosity to trace fair micropinpoint porosity, light brown stain in 30%, dull yellow fluorescence in 10%, very faint oil odor, good flush cut to good slow stream cut, no show free oil in tray,

Heebner 2903 (-1126)

Shale, black, soft, carbonaceous, splintry

Shale, gray to light gray, soft, splintry, micaceous, no fluorescence

Toronto 2919 (-1142)

Limestone cream to light gray to light brown, hard, microcrystalline to scattered cryptocrystalline to scattered to oolitic in a very dense calcareous matrix, very poor to no visible porosity, no stain, no odor, no fluorescence, no show free oil

Douglas Shale 2934 (-1157)

Shale, light gray, soft to hard, gummy to splintry, micaceous in part, no fluorescence

Shale light gray to scattered light green, soft to brittle, micaceous in part, splintry, no fluorescence

Shale light gray to scattered light green, soft to brittle, micaceous in part, splintry, no fluorescence

Shale as above

Shale gray, soft brittle, splintry to scattered blocky, micaceous throughout, no fluorescence

Shale as above

Brown Lime 3028 (-1251)

Limestone, brown, very hard, dense, cryptocrystalline matrix throughout, no visible porosity, no stain, no odor, no fluorescence, no show

Shale / trace silty shale, light gray to gray, soft, dense, splintry to blocky, micaceous. no fluorescence trace pyrite

Lansing 3047 (-1270)

Limestone, cream to tan, microcrystalline to scattered sucrosic, fair to trace good intercrystalline porosity to scattered vugular porosity, light brown oil stain in 90%, strong oil odor, dull yellow fluorescence in 40%, good flush cut to good slow stream cut, sample slowly bleeding gas fair show light brown free oil

CFS @ 2865'

Scale Change
TG, C1-C5

Trip Gas

Scale Change @ 2865'

Wt 9.3 Vis 48

Mud-Co Check @ 3037'

8:20 AM 1/24/20

Vis 41 Wt 9.1

PV 9 YP 10

WL 10.4

Cake 1

PH 10

CHL 8,700 ppm

CA 20

Sol 5.3

LCM: 1# / bbl

DMC: \$40.73

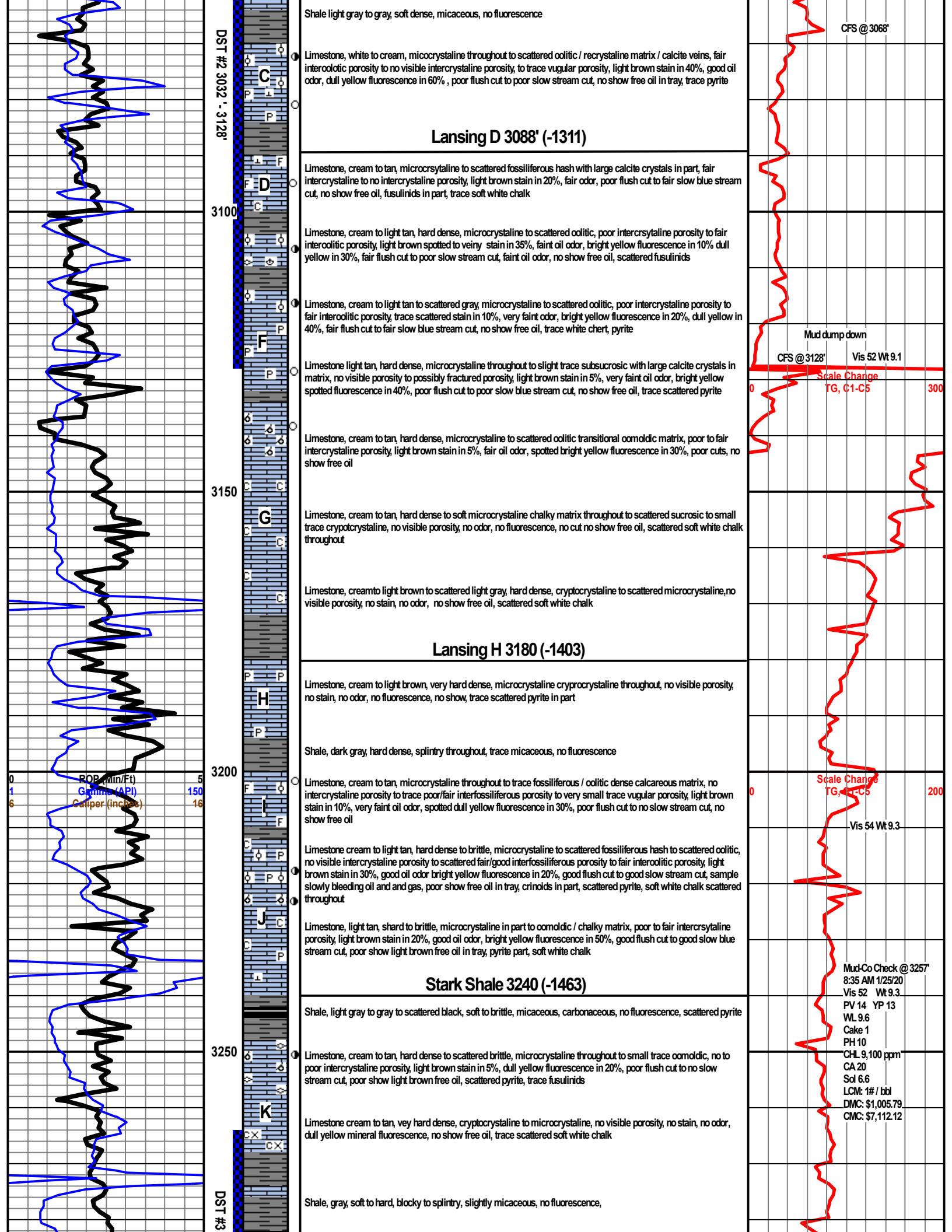
CMC: \$6,106.33

230UN Gas Inc

ROP (Min/Ft) 5
Gamma (API) 1.50
Caliper (inches) 1.6

3000

3050



Limestone, tan to brown to cream, microcrystalline throughout to small trace submicroscopic matrix, no visible porosity, no stain, no odor, spotted yellow fluorescence in 20%, no cuts, no show free oil

Arbuckle 3294 (-1517)

① Dolomite, cream to trace white, hard dense, sub-rhombic to small trace rhombic in a dense dolomitic matrix, fair to trace good intercrystalline porosity, light brown stain in 60%, good oil odor, bright yellow fluorescence in 70%, fair flush cut to good slow stream cut, samples slowly bleeding light brown oil, fair/good show light brown free oil in tray, slight trace chalk

● Dolomite, cream to light tan, hard dense, sub-rhombic to rhombic with trace chalky matrix, scattered dense, good intergranular porosity, light brown oil stain in 40%, strong oil odor, bright yellow fluorescence in 80%, good flush cut to fair slow stream cut, 10% samples bleeding light brown oil, good show free oil in tray, trace chalk

○ Dolomite, cream to light tan, hard dense, sub-rhombic to dense dolomitic matrix in part, fair to trace good intergranular porosity, light brown stain in 25%, good oil odor, bright yellow fluorescence in 30% to dull yellow throughout, poor flush cut to poor slow stream cut, no show free oil, trace chalk

① Dolomite, light tan, microcrystalline in part to oomoldic in part, to rhombic scattered throughout, good intercrystalline porosity, stain in 40%, strong oil odor, bright yellow fluorescence in 80%, good flush cut to poor slow stream cut, poor show light brown free oil in tray

① Dolomite, light tan, hard, to trace off white, microcrystalline throughout to rhombic in part, poor to fair to trace good intercrystalline porosity, stain in 20% to black dead stain in 40%, good oil odor, dull yellow fluorescence throughout, poor flush cut to poor slow stream cut, poor show free oil in tray

○ Dolomite, light tan, hard, microcrystalline throughout to scattered rhombic in part, very good intercrystalline porosity, black dead oil stain in 30%, strong oil odor, dull yellow fluorescence throughout, poor flush cut to poor slow blue stream cut, no show free oil

Dolomite, light tan, hard, microcrystalline throughout to trace sub rhombic in part, fair to trace good intergranular porosity, black dead stain in 5%, good oil odor, dull yellow fluorescence throughout, no cuts, no show free oil, scattered soft white chalk

Dolomite, cream, hard dense, microcrystalline to sub rhombic to trace rhombic, no visible to good intercrystalline porosity, black tarry stain in 5%, good oil odor, dull yellow fluorescence throughout, no cuts, no show free oil, trace chalk

Dolomite, cream, hard dense, subrhombic to rhombic matrix, possible fracture, poor to scattered good intercrystalline porosity, very slight black spotty stain in 5%, no odor, dull yellow fluorescence throughout, no cuts no show free oil

Dolomite, light tan, hard dense, microcrystalline to sub-rhombic to small trace rhombic, poor to scattered good intercrystalline porosity in part, no stain, good odor, dull yellow fluorescence throughout, no cuts, no show free oil, scattered white chert

Dolomite, cream to light tan, hard dense, microcrystalline to sub-rhombic in part, fair to small trace good intercrystalline porosity, no stain, faint oil odor, dull yellow fluorescence throughout, no cuts, no show free oil, scattered translucent to white chert throughout

TD @ 3400', 5:30am CDT, 1-26-2020

3264-3303'

3300'

3350'

3400'

Geograph down

0	ROP (Min/Ft)	5
1	Gamma (API)	150
6	Caliper (inches)	16

CFS @ 3303'

CFS @ 3314'

Mud-Co Check @ 3400'
 8:35 AM 1/26/20
 Vis 47 Wt 9.4
 PV 12 YP 13
 WL 10.0
 Cake 1
 PH 9.5
 CHL 10,600 ppm
 CA 20
 Sol 7.2
 LCM: Tr
 DMC: \$33.80
 CMC: \$7,145.92

CFS @ 3400'

0 TG, C1-C5 200

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



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

Susan K. Duffy, Chair
Shari Feist Albrecht, Commissioner
Dwight D. Keen, Commissioner

Laura Kelly, Governor

June 03, 2020

Francis Hitschmann
Curt's Oil Operation, LLC
PO BOX 328
Hoisington, KS 67544

Re: ACO-1
API 15-009-26284-00-00
SCHLESSINGER 1
SE/4 Sec.09-20S-11W
Barton County, Kansas

Dear Francis Hitschmann:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 1/20/2020 and the ACO-1 was received on June 02, 2020 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Curt's Oil Operation
P.O. Box 8
Great Bend KS 67530+0008
ATTN: Clayton Camozzi

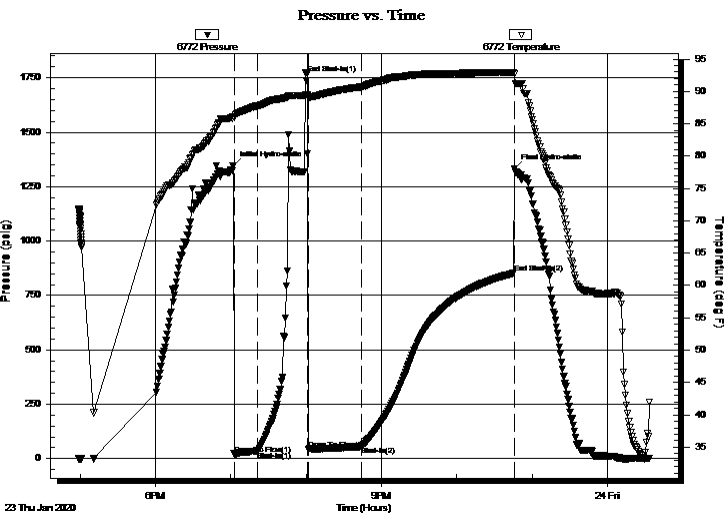
9-20-11 Barton, KS
Shlessinger #1
Job Ticket: 65719 **DST#: 1**
Test Start: 2020.01.23 @ 16:59:00

GENERAL INFORMATION:

Formation: **Plattsmouth**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:02:40
Time Test Ended: 00:34:00
Interval: **2834.00 ft (KB) To 2853.00 ft (KB) (TVD)**
Total Depth: 2865.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 1777.00 ft (KB)
1768.00 ft (CF)
KB to GR/CF: 9.00 ft
Test Type: Conventional Straddle (Initial)
Tester: Benny Mulligan
Unit No: 66

Serial #: 6772 Inside
Press@RunDepth: 55.14 psig @ 2835.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2020.01.23 End Date: 2020.01.24 Last Calib.: 2020.01.24
Start Time: 16:59:01 End Time: 00:34:00 Time On Btm: 2020.01.23 @ 19:01:50
Time Off Btm: 2020.01.23 @ 22:46:00

TEST COMMENT: IF-15-BOB 7mins 20secs total build of 30"
ISI-60- 1" blow back Tool slid during initial shutin 6"
FF-40- BOB 1min 30secs total build of 60"
FSI-120- 2 1/2 " blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1347.16	86.08	Initial Hydro-static
1	21.99	86.01	Open To Flow (1)
20	33.06	87.77	Shut-In(1)
59	1771.39	89.52	End Shut-In(1)
60	43.65	88.99	Open To Flow (2)
103	55.14	90.69	Shut-In(2)
224	852.32	92.93	End Shut-In(2)
225	1333.75	92.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GOCM 20%G 20%O 60%M	1.13
0.00	GIP 60'	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Curt's Oil Operation

9-20-11 Barton,KS

P.O. Box 8
Great Bend KS 67530+0008

Shlessinger #1

Job Ticket: 65719

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2020.01.23 @ 16:59:00

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	GOCM 20%G 20%O 60%M	1.128
0.00	GIP 60'	0.000

Total Length: 120.00 ft Total Volume: 1.128 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Initial shut ini pressure is invalid

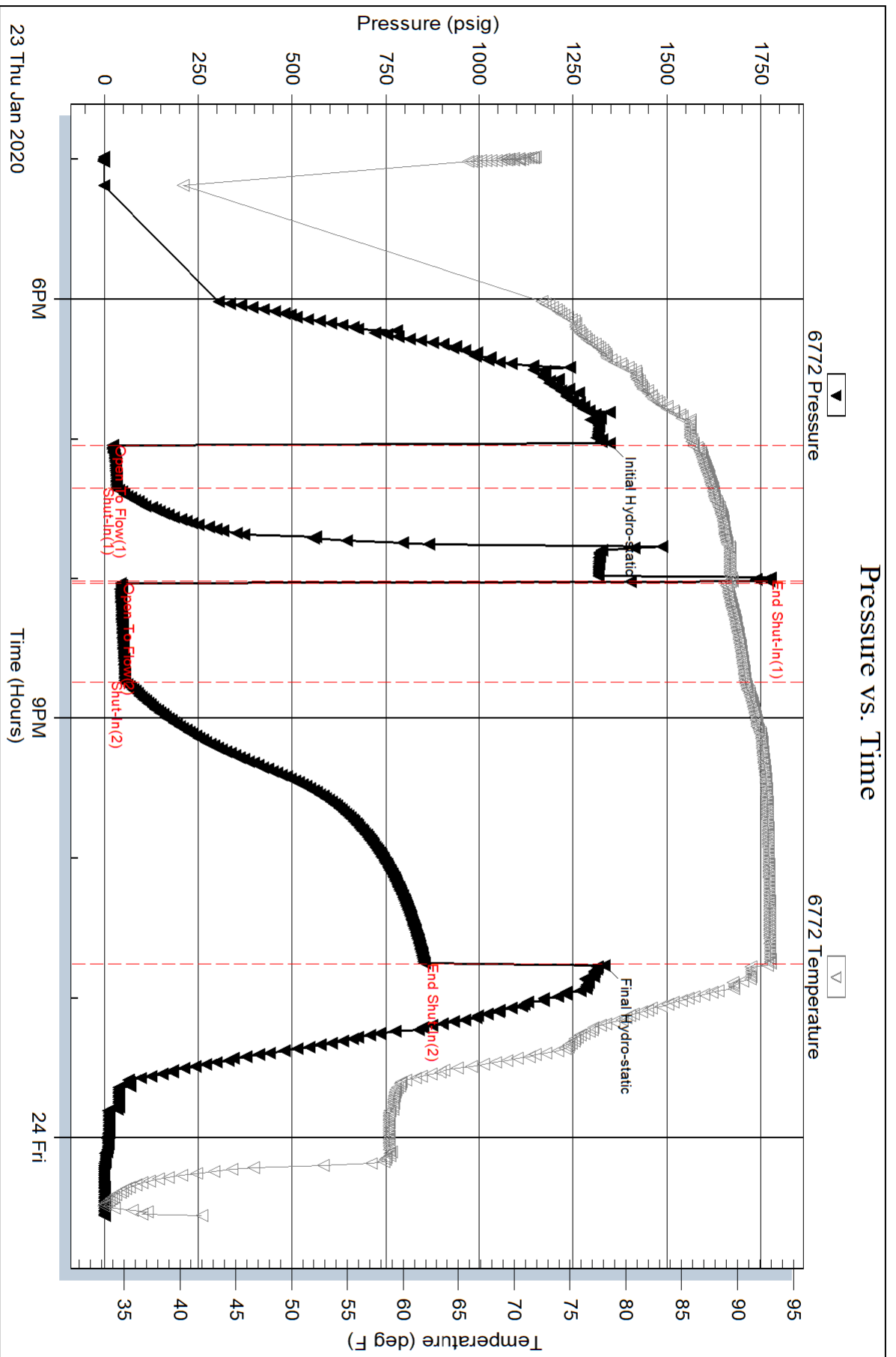
Serial #: 6772

Inside

Curt's Oil Operation

Shlessinger #1

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Curt's Oil Operation
 P.O. Box 8 Great Bend KS 67530+0008
 ATTN: Clayton Camozzi

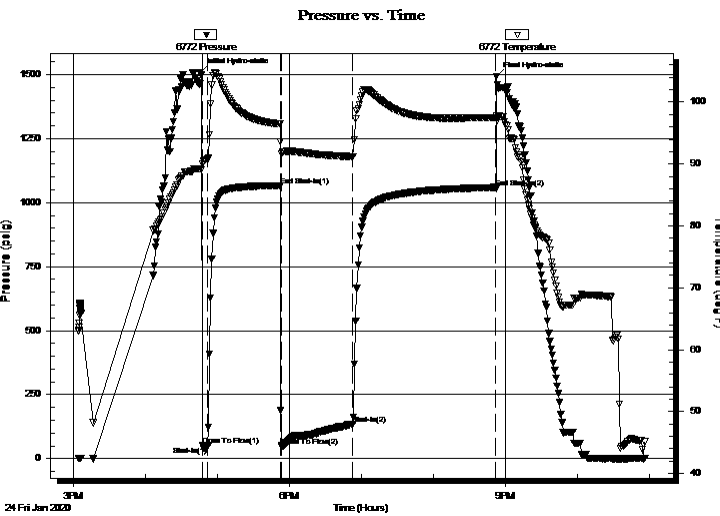
9-20-11
Schlessinger #1
 Job Ticket: 65720 **DST#: 2**
 Test Start: 2020.01.24 @ 15:04:00

GENERAL INFORMATION:

Formation: **Lansing A-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:47:10
 Time Test Ended: 22:56:09
 Interval: **3032.00 ft (KB) To 3128.00 ft (KB) (TVD)**
 Total Depth: 3128.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Benny Mulligan
 Unit No: 66
 Reference Elevations: 1777.00 ft (KB)
 1768.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6772 Inside
 Press@RunDepth: 135.41 psig @ 3033.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.01.24 End Date: 2020.01.24 Last Calib.: 2020.01.24
 Start Time: 15:04:01 End Time: 22:56:10 Time On Btm: 2020.01.24 @ 16:45:30
 Time Off Btm: 2020.01.24 @ 20:52:20

TEST COMMENT: IF-5- BOB 25secs total build of 377"
 ISI-60- weak surface blow back
 FF-60- BOB 15 secs built to 61 psi @ 3/8 choke
 FSI-120- 2" blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1508.49	89.24	Initial Hydro-static
2	52.51	90.02	Open To Flow (1)
7	47.84	90.76	Shut-In(1)
67	1065.11	96.48	End Shut-In(1)
68	49.07	91.70	Open To Flow (2)
128	135.41	91.17	Shut-In(2)
247	1059.09	97.54	End Shut-In(2)
247	1493.33	97.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	G.M. 20%G 80%M	2.52
0.00	GIP 2,730	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	27.00	15.50
Last Gas Rate	0.38	61.00	276.21
Max. Gas Rate	0.38	61.00	276.21



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Curt's Oil Operation

9-20-11

P.O. Box 8 Great Bend KS 67530+0008

Schlessinger #1

Job Ticket: 65720

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2020.01.24 @ 15:04:00

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: 41.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	G.M. 20%G 80%M	2.525
0.00	GIP 2,730	0.000

Total Length: 180.00 ft Total Volume: 2.525 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Curt's Oil Operation

9-20-11

P.O. Box 8 Great Bend KS 67530+0008

Schlessinger #1

Job Ticket: 65720

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2020.01.24 @ 15:04:00

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	5	0.13	27.00	15.50
2	10	0.25	42.00	89.47
2	20	0.25	41.00	87.89
2	30	0.25	46.00	95.82
2	40	0.25	53.00	106.92
2	50	0.38	58.00	265.22
2	60	0.38	61.00	276.21

Serial #: 6772

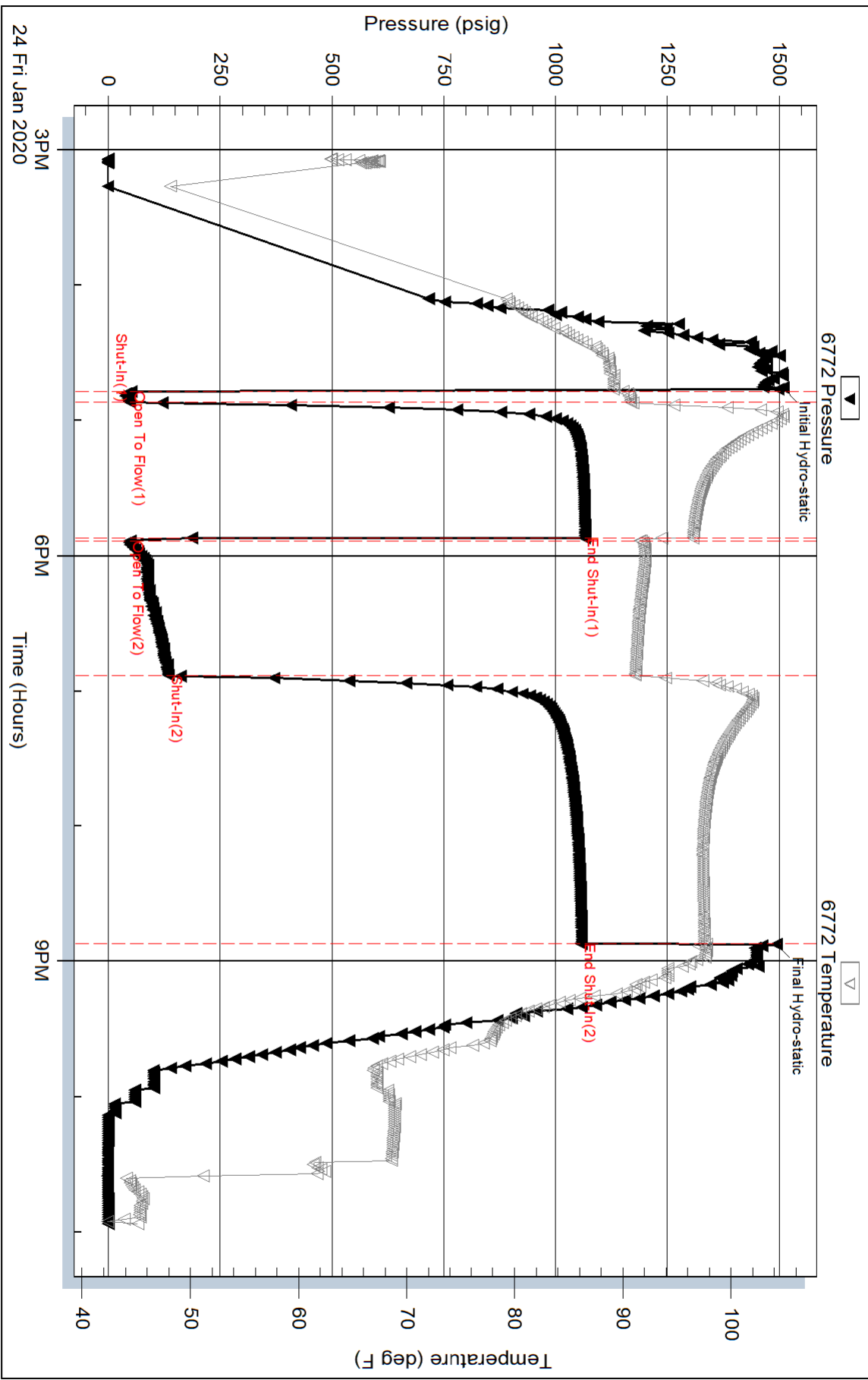
Inside

Curt's Oil Operation

Schlessinger #1

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 65720

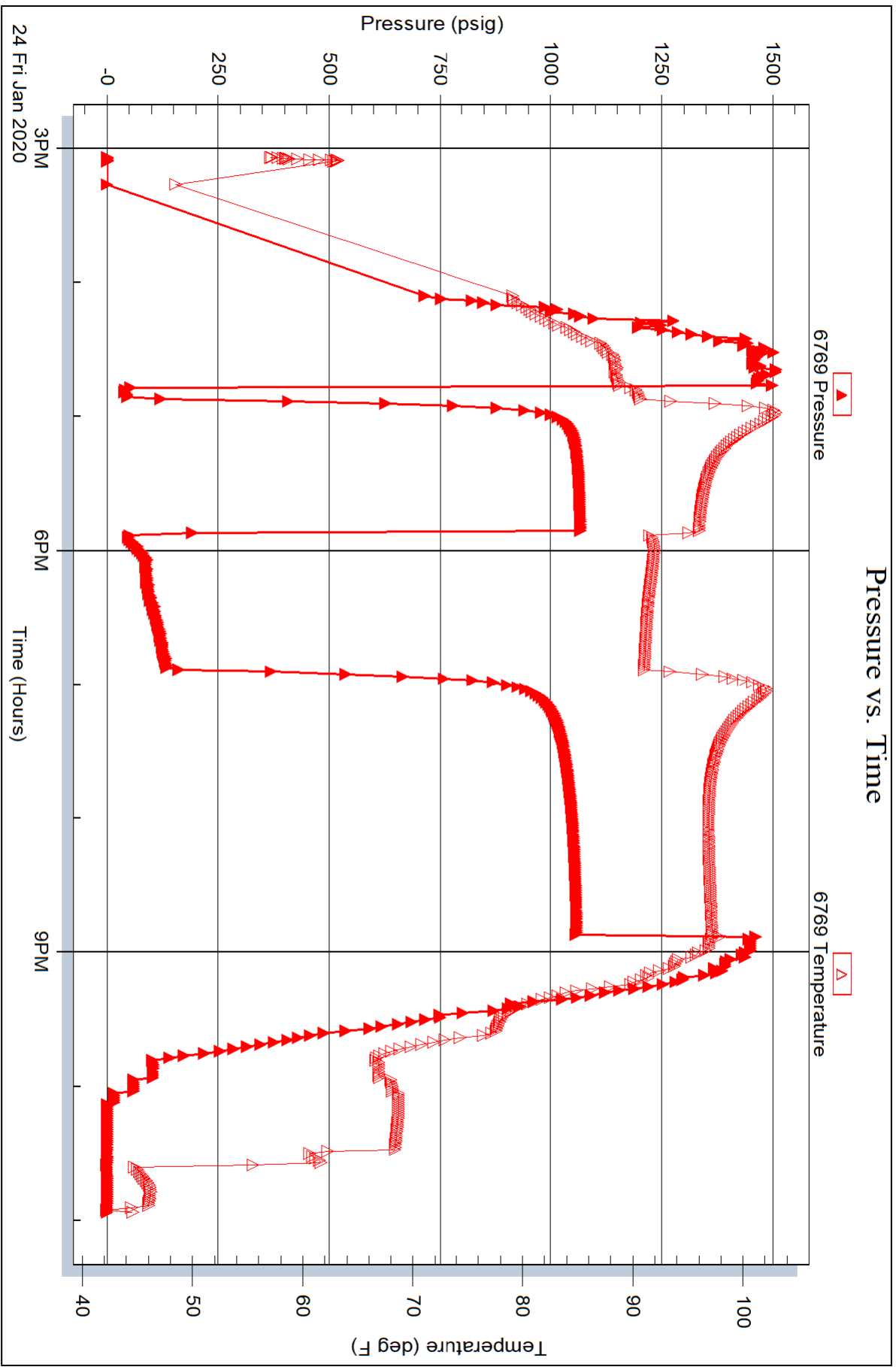
Printed: 2020.01.25 @ 00:53:21

Serial #: 6769

Outside Curt's Oil Operation

Schlessinger #1

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Curt's Oil Operation
P.O. Box 8 Great Bend KS 67530+0008
ATTN: Clayton Camozzi

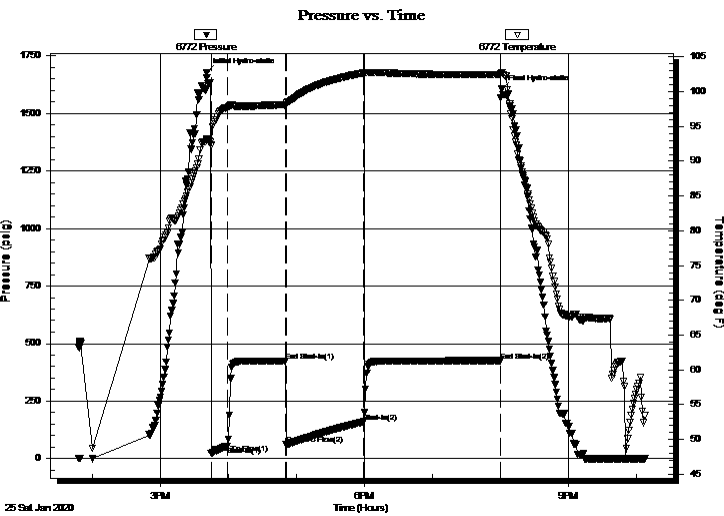
9-20-11
Schlessinger #1
Job Ticket: 65721 **DST#: 3**
Test Start: 2020.01.25 @ 13:48:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:44:40
Time Test Ended: 22:07:09
Interval: **3264.00 ft (KB) To 3303.00 ft (KB) (TVD)**
Total Depth: 3303.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Benny Mulligan
Unit No: 66
Reference Elevations: 1777.00 ft (KB)
1768.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6772 Inside
Press@RunDepth: 160.50 psig @ 3265.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2020.01.25 End Date: 2020.01.25 Last Calib.: 2020.01.25
Start Time: 13:48:01 End Time: 22:07:10 Time On Btm: 2020.01.25 @ 15:41:00
Time Off Btm: 2020.01.25 @ 20:01:10

TEST COMMENT: IF-15- BOB 11mins total build of 15"
ISI-60- weak surace blow back
FF-60- BOB 14mins total build of 55"
FSI-120- 11 1/2" blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1677.70	93.01	Initial Hydro-static
4	22.76	92.24	Open To Flow (1)
19	55.43	97.77	Shut-In(1)
70	423.51	98.08	End Shut-In(1)
70	60.94	98.10	Open To Flow (2)
139	160.50	102.69	Shut-In(2)
259	425.18	102.47	End Shut-In(2)
261	1604.49	102.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	GWMCO 10%G 70%O 10%W 10%M	0.91
60.00	GWM 20%G 40%W 40%M	0.84
180.00	MW 80%W 20%M	2.52
0.00	GIP 420"	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Curt's Oil Operation

9-20-11

P.O. Box 8 Great Bend KS 67530+0008

Schlessinger #1

Job Ticket: 65721

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2020.01.25 @ 13:48:00

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:

39000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
65.00	GWMCO 10%G 70%O 10%W 10%M	0.912
60.00	GWM 20%G 40%W 40%M	0.842
180.00	MW 80%W 20%M	2.525
0.00	GIP 420"	0.000

Total Length: 305.00 ft

Total Volume: 4.279 bbl

Num Fluid Samples: 0

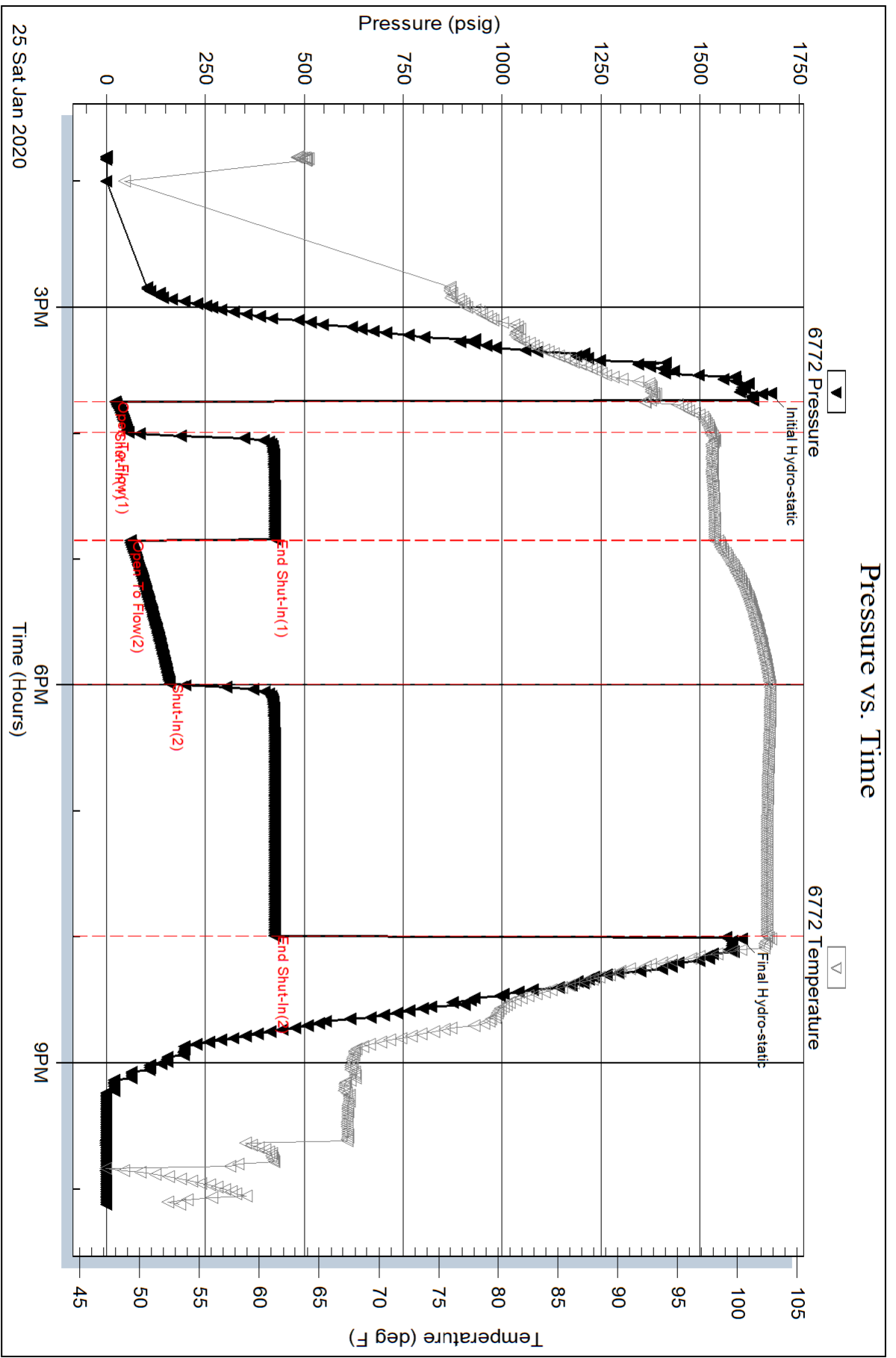
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 6769

Outside

Curt's Oil Operation

Schlessinger #1

DST Test Number: 3

