

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 Recompletion Date _____ 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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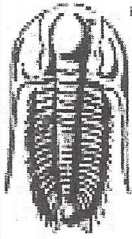
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Bird Dog Oil, LLC
Well Name	W. GATES KAISER 1-14
Doc ID	1634869

All Electric Logs Run

DIL
CDNL
Micro
Sonic



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bird Dog Oil LLC
 1801 Braod way STE #200
 Denver, CO 80202
 ATTN: Jeff Lawler

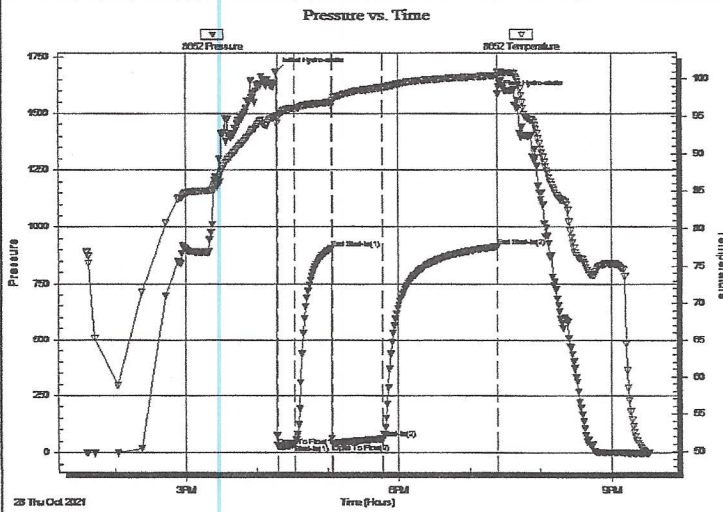
W. Gates Kaiser#1-14
14-22-14 Stafford,KS
 Job Ticket: 68260 **DST#: 1**
 Test Start: 2021.10.28 @ 13:36:00

GENERAL INFORMATION:

Formation: **LKC A-F**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 16:17:45 Tester: Dustin Day
 Time Test Ended: 21:32:15 Unit No: 70
 Interval: **3444.00 ft (KB) To 3520.00 ft (KB) (TVD)** Reference Elevations: 1938.00 ft (KB)
 Total Depth: 3520.00 ft (KB) (TVD) 1930.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: 8652 **Outside**
 Press@RunDepth: 61.18 psig @ 3445.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.10.28 End Date: 2021.10.28 Last Calib.: 2021.10.28
 Start Time: 13:36:05 End Time: 21:32:14 Time On Btm: 2021.10.28 @ 16:17:15
 Time Off Btm: 2021.10.28 @ 19:24:00

TEST COMMENT: IF-15- Built to 8"
 S11-30- No Return
 FF-45- BOB in 28 min., Built to 17"
 S12-90- No return



PRESSURE SUMMARY

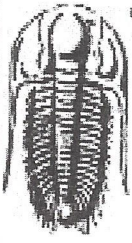
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1683.82	95.07	Initial Hydro-static
1	29.00	94.64	Open To Flow (1)
15	36.35	96.02	Shut-In(1)
46	905.69	96.80	End Shut-In(1)
47	39.34	96.79	Open To Flow (2)
90	61.18	98.86	Shut-In(2)
187	913.92	100.45	End Shut-In(2)
187	1584.06	100.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	SOCWM 2%oil 18%w ater 80%mud	0.88
30.00	mud 100%	0.42
1.00	Oil 100%	0.01

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bird Dog Oil LLC
 1801 Braodw ay STE #200
 Denver, CO 80202
 ATTN: Jeff Lawler

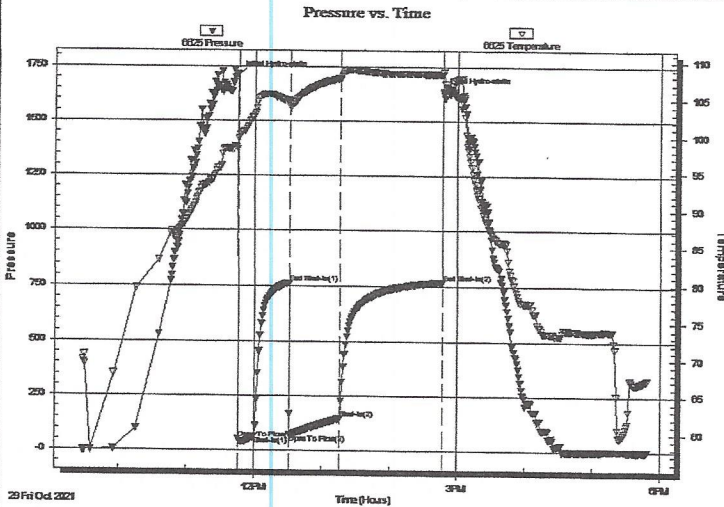
W. Gates Kaiser#1-14
14-22-14 Stafford,KS
 Job Ticket: 68261 **DST#: 2**
 Test Start: 2021.10.29 @ 09:28:00

GENERAL INFORMATION:

Formation: **LKC H-1**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:45:30
 Time Test Ended: 17:47:30
 Interval: **3558.00 ft (KB) To 3594.00 ft (KB) (TVD)**
 Total Depth: 3520.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Dustin Day
 Unit No: 70
 Reference Elevations: 1938.00 ft (KB)
 1930.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6625 Inside
 Press@RunDepth: 144.14 psig @ 3559.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.10.29 End Date: 2021.10.29 Last Calib.: 2021.10.29
 Start Time: 09:28:05 End Time: 17:47:29 Time On Btm: 2021.10.29 @ 11:44:45
 Time Off Btm: 2021.10.29 @ 14:46:45

TEST COMMENT: IF-15- BOB in 40 sec., Built to 246"
 SI1-30- Surface Blow
 FF-45- BOB in 10 Sec., Built to 594" GTS @ end of FF w hen bleeding off for SI2
 SI2-90- BOB in 14 min., Built to 17 3/4" in 26 min., Died off to 12 1/4"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1710.42	98.21	Initial Hydro-static
1	49.96	99.66	Open To Flow (1)
15	63.39	102.80	Shut-In(1)
46	762.45	104.78	End Shut-In(1)
46	71.01	104.07	Open To Flow (2)
91	144.14	107.80	Shut-In(2)
182	767.44	108.35	End Shut-In(2)
182	1636.58	108.68	Final Hydro-static

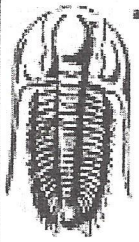
Recovery

Length (ft)	Description	Volume (bbl)
63.00	GWMCO 70% oil 20% gas 5% mud 5% w:0.88	
250.00	GO 60% oil 40% gas	3.51
0.00	GTS	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Bird Dog Oil LLC
1801 Braodway STE #200
Denver, CO 80202
ATTN: Jeff Lawler

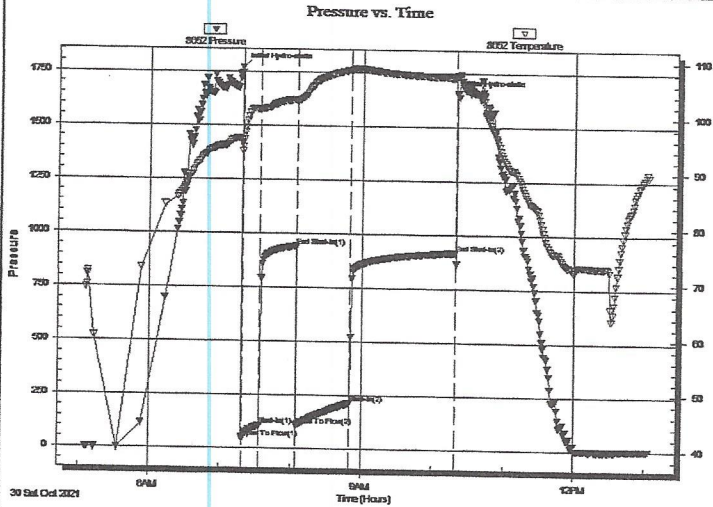
W. Gates Kaiser#1-14
14-22-14 Stafford,KS
Job Ticket: 68262 DST#: 3
Test Start: 2021.10.30 @ 05:06:00

GENERAL INFORMATION:

Formation: **LKC J - K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:18:45
Time Test Ended: 13:02:45
Interval: **3595.00 ft (KB) To 3680.00 ft (KB) (TVD)**
Total Depth: 3680.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Dustin Day
Unit No: 70
Reference Elevations: 1938.00 ft (KB)
1930.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8652 **Outside**
Press@RunDepth: 212.57 psig @ 3596.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2021.10.30 End Date: 2021.10.30 Last Calib.: 2021.10.30
Start Time: 05:06:05 End Time: 13:02:44 Time On Btm: 2021.10.30 @ 07:18:15
Time Off Btm: 2021.10.30 @ 10:19:45

TEST COMMENT: IF-15- BOB in 7 min 20 sec, Built to 20"
SI1-30- No return
FF-45- BOB in 14 min., Built to 29 3/4"
SI2-90- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1767.20	95.04	Initial Hydro-static
1	47.08	94.49	Open To Flow (1)
16	107.45	101.41	Shut-In(1)
46	942.03	103.15	End Shut-In(1)
46	109.11	102.79	Open To Flow (2)
92	212.57	108.49	Shut-In(2)
181	917.37	107.30	End Shut-In(2)
182	1650.58	107.70	Final Hydro-static

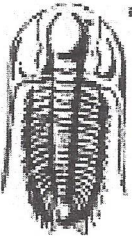
Recovery

Length (ft)	Description	Volume (bbl)
126.00	MCW 10% mud 90 % water	1.77
189.00	MW 50% w ater 50% mud	2.65
30.00	GWCM 10 %gas 10% water 80% mud	0.42

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Bird Dog Oil LLC
 1801 Broadway STE #200
 Denver, CO 80202
 ATTN: Jeff Lawler

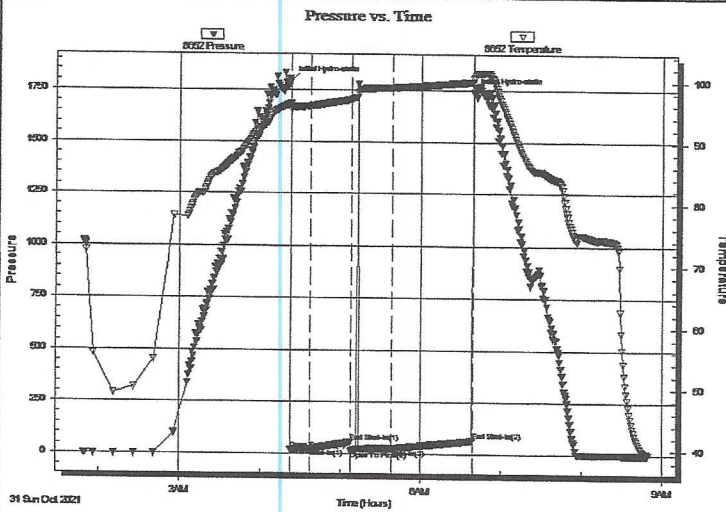
W. Gates Kaiser#1-14
14-22-14 Stafford, KS
 Job Ticket: 68263 **DST#: 4**
 Test Start: 2021.10.31 @ 01:49:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:22:45
 Time Test Ended: 08:49:15
 Interval: **3698.00 ft (KB) To 3761.00 ft (KB) (TVD)**
 Total Depth: 3791.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Dustin Day
 Unit No: 70
 Reference Elevations: 1938.00 ft (KB)
 1930.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8652 Outside
 Press@RunDepth: 26.82 psig @ 3699.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.10.31 End Date: 2021.10.31 Last Calib.: 2021.10.31
 Start Time: 01:49:05 End Time: 08:49:14 Time On Btm: 2021.10.31 @ 04:22:30
 Time Off Btm:

TEST COMMENT: IF-15- weak surface blow
 SI1-30- No Return
 FF-30- No blow, Flushed tool, Built to 1/4"
 SI2-60- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1794.30	96.31	Initial Hydro-static
1	20.23	95.49	Open To Flow (1)
15	22.91	95.96	Shut-In(1)
45	57.46	97.04	End Shut-In(1)
46	16.62	97.05	Open To Flow (2)
76	26.82	98.99	Shut-In(2)
137	66.19	99.95	End Shut-In(2)
137	1740.60	100.57	Initial Hydro-static

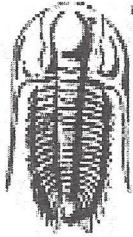
Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100% mud w /oil spots	0.21

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Bird Dog Oil LLC
 1801 Braodway STE #200
 Denver, CO 80202
 ATTN: Jeff Lawler

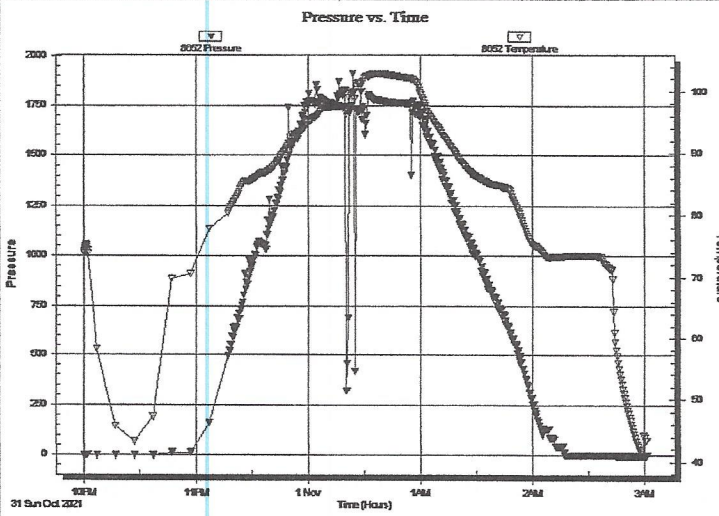
W. Gates Kaiser#1-14
14-22-14 Stafford,KS
 Job Ticket: 68264 DST#: 5
 Test Start: 2021.10.28 @ 13:36:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened:
 Time Test Ended:
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Dustin Day
 Unit No: 70
 Interval: **3758.00 ft (KB) To 3820.00 ft (KB) (TVD)**
 Total Depth: 3520.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches
 Hole Condition:
 Reference Elevations: 1938.00 ft (KB)
 1930.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8652 **Outside**
 Press@RunDepth: psig @ 3759.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.10.31 End Date: 2021.11.01 Last Calib.: 1899.12.30
 Start Time: 22:00:05 End Time: 03:00:59 Time On Btm:
 Time Off Btm:

TEST COMMENT: Packer Failure, Tagged 7' high on fill, came down n to set packers, packers held for about 20 sec, then tool slid about 1.5', Lost packer seat. Tried 2 more times, Did not hold.

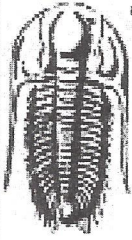


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
234.00	Mud	3.28

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Bird Dog Oil LLC
 1801 Braodw ay STE#200
 Denver, CO 80202
 ATTN: Jeff Lawler

W. Gates Kaiser#1-14
14-22-14 Stafford,KS
 Job Ticket: 68265 **DST#: 6**
 Test Start: 2021.11.01 @ 03:22:00

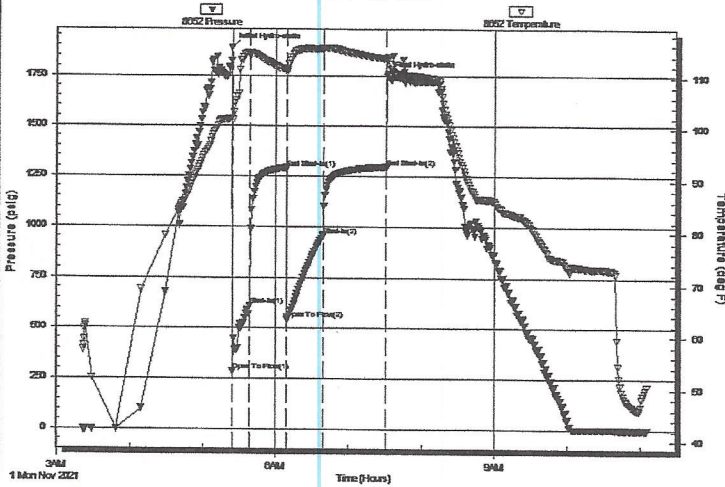
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:24:30
 Time Test Ended: 11:05:30
 Interval: **3748.00 ft (KB) To 3820.00 ft (KB) (TVD)**
 Total Depth: 3820.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Dustin Day
 Unit No: 70
 Reference Elevations: 1938.00 ft (KB)
 1930.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8652 Outside
 Press@RunDepth: 957.76 psig @ 3749.00 ft (KB)
 Start Date: 2021.11.01 End Date: 2021.11.01
 Start Time: 03:22:05 End Time: 11:05:29
 Capacity: 8000.00 psig
 Last Calib.: 2021.11.01
 Time On Btm: 2021.11.01 @ 05:23:45
 Time Off Btm: 2021.11.01 @ 07:31:30

TEST COMMENT: IF-15- BOB in 1 min., Built to 94 3/4"
 SI1-30- No return
 FF-30- BOB 1 1/2 min., Built to 211"
 SI2-45- No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1886.76	102.00	Initial Hydro-static
1	284.65	101.68	Open To Flow (1)
15	612.47	114.34	Shut-In(1)
46	1290.86	111.54	End Shut-In(1)
46	542.67	111.15	Open To Flow (2)
76	957.76	115.52	Shut-In(2)
128	1295.65	113.57	End Shut-In(2)
128	1749.54	113.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
630.00	VSMCW 4% mud 96% w ater	8.84
819.00	MCW 10% mud 90% w ater	11.49
577.00	HWCM 60% mud 40% w ater	8.09

* Recovery from multiple tests

Gas Rates

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

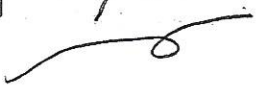
QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

785-483-1071
785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 2099

Date	3/1/2021	Sec.	14	Twp.	22	Range	14	County	Stafford	State	Kansas	On Location		Finish	10:30 PM		
Lease								W. Gates-Lea		Well No.		L-14					
Contractor								Southwind Drilling		Owner							
Type Job								Surface		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size				12 1/4				T.D.		430							
Csg.				8 5/8				Depth		429.83							
Tbg. Size								Depth									
Tool								Depth									
Cement Left in Csg.				30				Shoe Joint		30							
Meas Line								Displace		25.5							
EQUIPMENT								Common									
Pumptrk		18		No.		Cementer		Tim		Helper		360					
Bulktrk		9		No.		Driver		David		Driver		90					
Bulktrk		15		No.		Driver		Doug		Driver		9					
Bulktrk				No.		Driver				Driver		16					
JOB SERVICES & REMARKS								Hulls									
Remarks:								Salt									
Rat Hole								Flowseal 225 #									
Mouse Hole								Kol-Seal									
Centralizers								Mud CLR 48									
Baskets								CFL-117 or CD110 CAF 38									
D/V or Port Collar								Sand									
								Handling 475									
Ran 8 5/8 and est. circulation								Mileage									
Cemented 8 5/8 with 450 sks								FLOAT EQUIPMENT									
Displaced 25.5 barrel								Guide Shoe									
								Centralizer									
								Baskets									
								AFU Inserts									
								Float Shoe									
								Latch Down									
Cement did circulate								Pumptrk Charge Surface									
								Mileage 26									
X Signature <u>Tracy J. Rance</u>								Thanks 								Tax	
																Discount	
																Total Charge	

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 2607

Date	Sec.	Twp.	Range	County	State	On Location	Finish
11-2-21	14	22	14	Stafford	Ks		3:00 PM

Lease W. Gates Kaiser Location 281 + K19 Jct, SW, 25, 1/4 E, N1/2

Well No. 1-14 Owner To Quality Oilwell Cementing, Inc.

Contractor Discovery #2 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Type Job Long string Charge To Bird Dog oil

Hole Size 7 7/8" ~~8"~~ T.D. 3870' Street

Csg. 5 1/2" 15.50# New Depth 3866.93 City State

Tbg. Size Depth 3866.93 The above was done to satisfaction and supervision of owner agent or contractor.

Tool Depth Cement Left in Csg. 42.26 Shoe Joint 42.26 Cement Amount Ordered 200 5x Q Proc - C 10% salt

Meas Line Displace 91 BLS 5% Gilsomite - 500 gal mud clear

EQUIPMENT

Pumptrk <u>16</u> No. Cementer <u>David</u>	Common <u>200 Qproc</u>
Bulktrk <u>2</u> No. Driver <u>David</u>	Poz. Mix
Bulktrk <u>P.M.</u> No. Driver <u>Rick</u>	Gel.
	Calcium

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole <u>30 5x</u>	Salt <u>17</u>
Mouse Hole <u>20 5x</u>	Flowseal
Centralizers <u>1, 3, 5, 7, 9, 11, 13, 15</u>	Kol-Seal <u>800#</u>
Baskets <u>14</u>	Mud CLR 48 <u>500 gal</u>
D/V or Port Collar <u>Pipe on bottom, break</u>	CFL-117 or CD110 CAF <u>88</u>
<u>Circulation. Pump 500gal mud</u>	Sand <u>KCL 20 BLS</u>
<u>Flush. Plug Rat hole w/ 30 5x</u>	Handling <u>225</u>
<u>mousehole w/ 20 5x. Hook to</u>	Mileage

FLOAT EQUIPMENT

<u>5 1/2" casing + mix 150 5x Cement</u>	Guide Shoe
<u>shut down wash pump + lines</u>	Centralizer <u>8</u>
<u>Released plug + Displaced w/ 91 BLS</u>	Baskets <u>1</u>
<u>of water. Released + Held.</u>	AFU Inserts
<u>lift Pressure 800#</u>	Float Shoe <u>1</u>
	Latch Down <u>1</u>

Land plug 1500#

Pumptrk Charge Prod String
Mileage 23

X Signature [Signature]

Thanks

Tax
Discount
Total Charge

OPERATOR

Company: BIRD DOG OIL, LLC
 Address: 1801 BROADWAY
 STE #200
 DENVER, CO 80202
 Contact Geologist: MATTHEW STEWART
 Contact Phone Nbr: (303) 534-1686
 Well Name: W. GATES - LEA #1-14
 Location: NE SW SW NW Sec. 14 - 22S - 14W
 API: 15-185-24075
 Pool:
 State: Kansas
 Field: N/A
 Country: USA



BIRD DOG OIL, LLC

Scale 1:240 Imperial

Well Name: W. GATES - LEA #1-14
 Surface Location: NE SW SW NW Sec. 14 - 22S - 14W
 Bottom Location:
 API: 15-185-24075
 License Number: 34655
 Spud Date: 3/1/2021 Time: 2:30 PM
 Region: STAFFORD COUNTY
 Drilling Completed: 3/8/2021 Time: 12:27 PM
 Surface Coordinates: 2190' FNL & 375' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 1931.00ft
 K.B. Elevation: 1941.00ft
 Logged Interval: 2900.00ft To: 3880.00ft
 Total Depth: 3880.00ft
 Formation: LANSING-KANSAS CITY; VIOLA; ARBUCKLE
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -98.837861
 Latitude: 38.139061
 N/S Co-ord: 2190' FNL
 E/W Co-ord: 375' FWL

LOGGED BY

Company: BIG CREEK CONSULTING, INC
 Address: 3504 DUNCAN ST
 ST. JOE, MO 64507

Phone Nbr: (785) 259-3737

CONTRACTOR

Contractor: SOUTHWIND DRILLING
 Rig #: 1
 Rig Type: MUD ROTARY
 Spud Date: 3/1/2021
 TD Date: 3/8/2021
 Rig Release: 3/9/2021
 Time: 2:30 PM
 Time: 12:27 PM
 Time: 9:00 AM

ELEVATIONS

K.B. Elevation: 1941.00ft
 K.B. to Ground: 10.00ft
 Ground Elevation: 1931.00ft

NOTES


AFTER LOG ANALYSIS AND LACK OF ECONOMICAL RECOVERY DECISION WAS MADE TO PLUG AND ABANDON THE W. GATES - LEA #1-14.

RESPECTFULLY SUBMITTED,
 JEFF LAWLER

WELL COMPARISON SHEET

FORMATION	W. GATES - LEA #1-14				NE SE NE 15-22-14				E/2 SW SE 15-22-14				NE SW NW 14-22-14				SE SW NW 14-22-14			
	KB		GL		KB		1945		KB		1942		KB		1946		KB		1941	
	LOG TOPS		SAMPLE TOPS		LOG		LOG		SMPL.		LOG		SMPL.		LOGS		LOG		SMPL.	
	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.
ANHYDRITE TOP			853	1088	826	1119			830	1112										
BASE			870	1071																
TOPEKA					3004	-1059														
HEEBNER SHALE			3302	-1361	3304	-1359			3320	-1378			3304	-1358			3299	-1358		- 3
TORONTO			3325	-1384	3325	-1380														
BROWN LIME			3430	-1489	3430	-1485			3449	-1507			3432	-1486			3427	-1486		- 3
LKC			3443	-1502	3440	-1495			3461	-1519			3444	-1498			3437	-1496		- 6
BKC			3670	-1729					3682	-1740			3651	-1705			3667	-1726		- 3
VIOLA			3711	-1770					3762	-1820			3719	-1773			3712	-1771		+ 1
SIMPSON			3755	-1814					3805	-1863			3751	-1805			3750	-1809		- 5
ARBuckle			3805	-1864					3849	-1907			3806	-1860			3804	-1863		- 1
TOTAL DEPTH			3880	-1939	3660	-1715			3869	-1927			3825	-1879			3813	-1872		- 67

DST #1 LKC H - I 3553' - 3595'



TRIOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bird Dog Oil **14 - 22 - 14**

1801 Broadway, STE #200 **W. Gates - Lea #1-14**
 Denver Co, 80202

Job Ticket: 47695 **DST#: 1**

ATTN: Jeff Lawler Test Start: 2021.03.06 @ 11:24:00

GENERAL INFORMATION:

Formation: **LKC - I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:54:30

Time Test Ended: 17:51:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #77

Interval: **3553.00 ft (KB) To 3595.00 ft (KB) (TVD)**

Reference Elevations: 1941.00 ft (KB)

Total Depth: 3595.00 ft (KB) (TVD)

1931.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8671 **Outside**

Press@RunDepth: 32.97 psig @ 3554.00 ft (KB) Capacity: 8000.00 psig

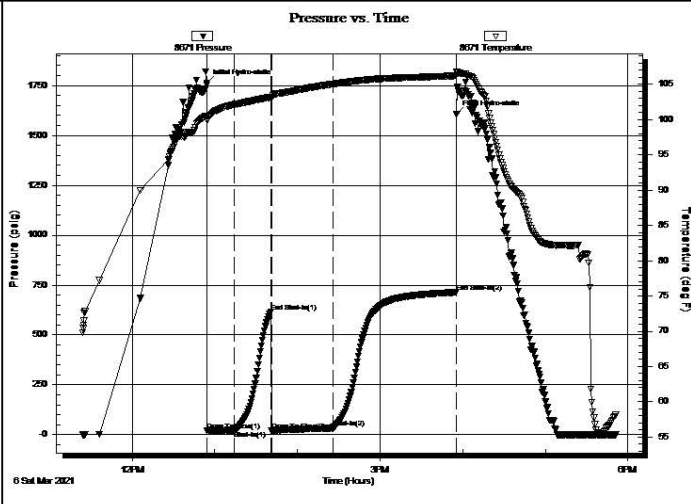
Start Date: 2021.03.06 End Date: 2021.03.06 Last Calib.: 2021.03.06

Start Time: 11:24:05 End Time: 17:50:59 Time On Btm: 2021.03.06 @ 12:54:15

Time Off Btm: 2021.03.06 @ 15:55:30

TEST COMMENT: 15 - IF - Blow slowly built up to 4"

30 - ISI - No Return
 45 - FF - Blow slowly built to 1.5"
 90 - FSI - No Return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1762.52	100.50	Initial Hydro-static
1	20.12	99.90	Open To Flow (1)
20	22.81	102.14	Shut-In(1)
47	614.82	103.19	End Shut-In(1)
47	19.49	103.11	Open To Flow (2)
92	32.97	105.05	Shut-In(2)
181	713.38	106.23	End Shut-In(2)
182	1608.37	106.82	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
35.00	OCM - 3%o - 97% m	0.36


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

Trilobite Testing, Inc

Ref. No: 47695

Printed: 2021.03.07 @ 08:12:16

DST #2 LKC J-L 3590' - 3670'

 TRILOBITE TESTING, INC	DRILL STEM TEST REPORT	
	Bird Dog Oil 1801 Broadway, STE #200 Denver Co, 80202 ATTN: Jeff Lawler	14 - 22 - 14 W. Gates - Lea #1-14 Job Ticket: 47696 DST#: 2 Test Start: 2021.03.07 @ 02:48:43

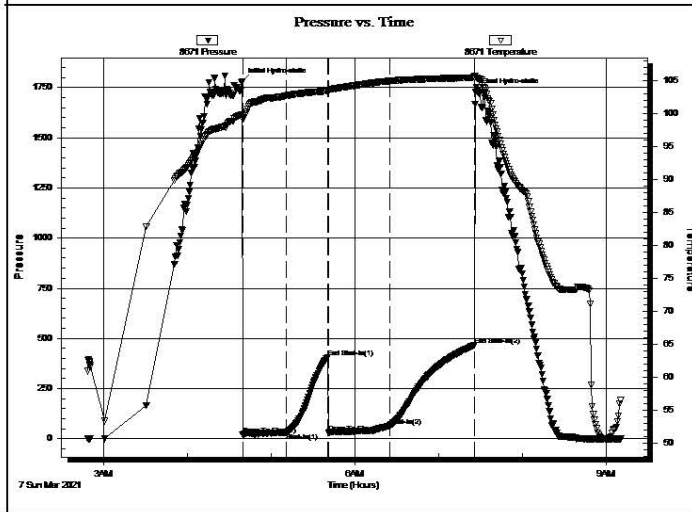
GENERAL INFORMATION:

Formation: JKL	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Royal Fisher
Time Tool Opened: 04:39:43	Unit No: #77
Time Test Ended: 09:10:43	Reference Elevations: 1941.00 ft (KB)
Interval: 3590.00 ft (KB) To 3670.00 ft (KB) (TVD)	1931.00 ft (CF)
Total Depth: 3670.00 ft (KB) (TVD)	KB to GR/CF: 10.00 ft
Hole Diameter: 7.88 inches Hole Condition: Poor	

Serial #: 8671

Press@RunDepth: 63.72 psig @ ft (KB)	Capacity: 8000.00 psig
Start Date: 2021.03.07 End Date: 2021.03.07	Last Calib.: 2021.03.07
Start Time: 02:48:48 End Time: 09:10:42	Time On Btm: 2021.03.07 @ 04:39:28
	Time Off Btm: 2021.03.07 @ 07:26:28

TEST COMMENT: 30 - IF - Blow built up to 2 1/2"
 30 - ISI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1781.06	99.86	Initial Hydro-static
1	21.40	99.21	Open To Flow (1)
32	31.60	102.74	Shut-In(1)
61	406.28	103.45	End Shut-In(1)
62	29.49	103.51	Open To Flow (2)
106	63.72	104.97	Shut-In(2)
167	466.04	105.51	End Shut-In(2)
167	1726.85	105.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	OSWM - 40%w - 60%w - Oil Spots	585896.73

Gas Rates


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

Trilobite Testing, Inc

Ref. No: 47696

Printed: 2021.03.07 @ 13:02:29

DST #3 VIOLA 3658' - 3760'

 TRILOBITE TESTING, INC	DRILL STEM TEST REPORT	
	Bird Dog Oil 1801 Broadway, STE#200 Denver Co, 80202 ATTN: Jeff Lawler	14 - 22 - 14 W. Gates - Lea #1-14 Job Ticket: 47697 DST#: 3 Test Start: 2021.03.07 @ 20:30:00

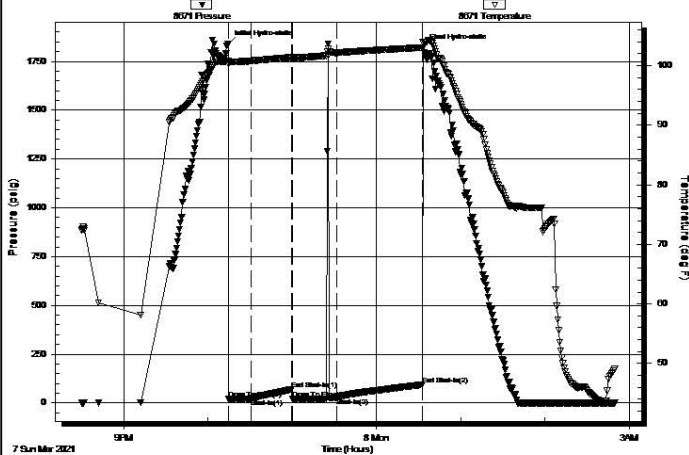
GENERAL INFORMATION:

Formation: Viola	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Royal Fisher
Time Tool Opened: 22:14:30	Unit No: #77
Time Test Ended: 02:50:00	Reference Elevations: 1941.00 ft (KB)
Interval: 3658.00 ft (KB) To 3760.00 ft (KB) (TVD)	1931.00 ft (CF)
Total Depth: 3760.00 ft (KB) (TVD)	KB to GR/CF: 10.00 ft
Hole Diameter: 7.88 inches Hole Condition: Poor	

Serial #: 8671 Outside	Capacity: 8000.00 psig
Press@RunDepth: 27.01 psig @ 3659.00 ft (KB)	Last Calib.: 2021.03.08
Start Date: 2021.03.07 End Date: 2021.03.08	Time On Btm: 2021.03.07 @ 22:14:15
Start Time: 20:30:05 End Time: 02:49:59	Time Off Btm: 2021.03.08 @ 00:33:00

TEST COMMENT: 15 - IF - Blow slowly built up to 3/4"
30 - IS - No Return
30 - FF - No blow for the first 15mins flushed tool w weak blow
60 - FSI - No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1841.25	100.83	Initial Hydro-static
1	20.65	100.28	Open To Flow (1)
17	21.73	100.78	Shut-In(1)
46	69.34	101.39	End Shut-In(1)
46	22.79	101.36	Open To Flow (2)
77	27.01	102.16	Shut-In(2)
138	93.71	103.03	End Shut-In(2)
139	1819.71	103.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud - 100%m	0.05

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 47697

Printed: 2021.03.08 @ 07:23:47

ROCK TYPES

Cht	Dolsec	shale, grn	Carbon Sh	Shcol
Dolprim	Lmst fw7>	shale, gry	shale, red	

ACCESSORIES

MINERAL

* Sandy

STRINGER

~ Chert
 * Sandstone

OTHER SYMBOLS

MISC

- Daily Report
- Digital Photo
- Document
- Folder
- Link
- Vertical Log File
- Horizontal Log File
- Core Log File
- Drill Cuttings Rpt

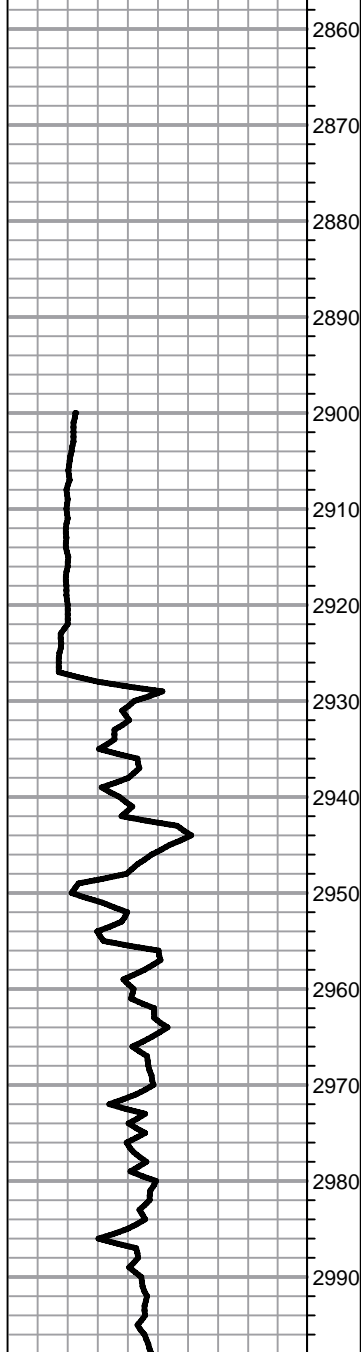
DST

- DST Int
- DST alt
- Core

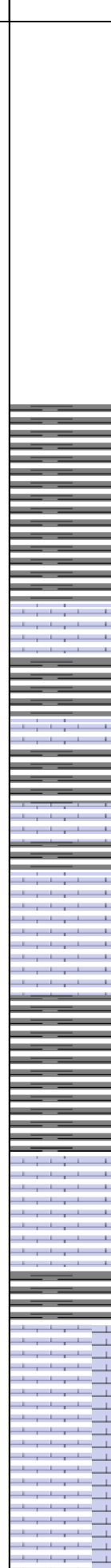
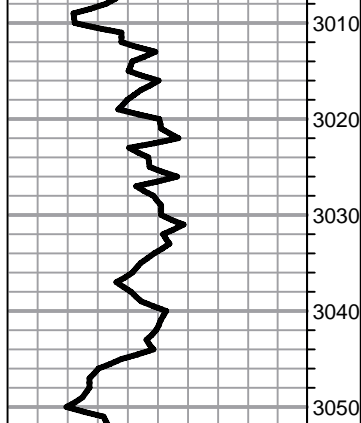
Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)

Curve Track #1	ROP (min/ft)	Gamma (API)	Cal (in)	Depth Intervals	DST	Lithology	Well Show	Geological Descriptions	TG, C1 - C5
									Total Gas (units) C1 (units) C2 (units) C3 (units) C4 (units)

1:240 Imperial
 0 ROP (min/ft) 5
 0 Gamma (API) 150
 6 Cal (in) 16



1:240 Imperial
 0 ROP (min/ft) 5
 0 Gamma (API) 150
 6 Cal (in) 16



1' DRILL TIME THROUGH ANHYDRITE FROM 850' - 920'
1' DRILL TIME FROM 2850' - RTD
10' WET/DRY SAMPLES FROM 2900' - RTD

GEOLOGICAL SUPERVISION BY JEFF LAWLER FROM 2900' - RTD

8 5/8" SURFACE PIPE SET @ 429' SURVEY 1 deg.

ANHYDRITE TOP 853' (+1088) E-LOG 822' (+1119)
ANHYDRITE BASE 870' (+1071)E-LOG 841' (+1100)

Sh- Gray, some silty & calcareous, some sl sandy & micaceous
 Lm- Buff Tan, VF-XLN, dense, well cemented, tight w/ min. vis. porosity

Lm- Cream Off White, FXLN, some sl dolomitic w/ consistent XLN porosity, other sl fsl w/ sctrd XLN porosity, barren, soft chalk

Sh- Gray Maroon Green, dense & sl waxy, gritty & earthy

TOPEKA 2998' (-1057) Lm- Buff Cream Gray, VF-FXLN, dense, well cemented, some sl sandy in part, dense XLN porosity

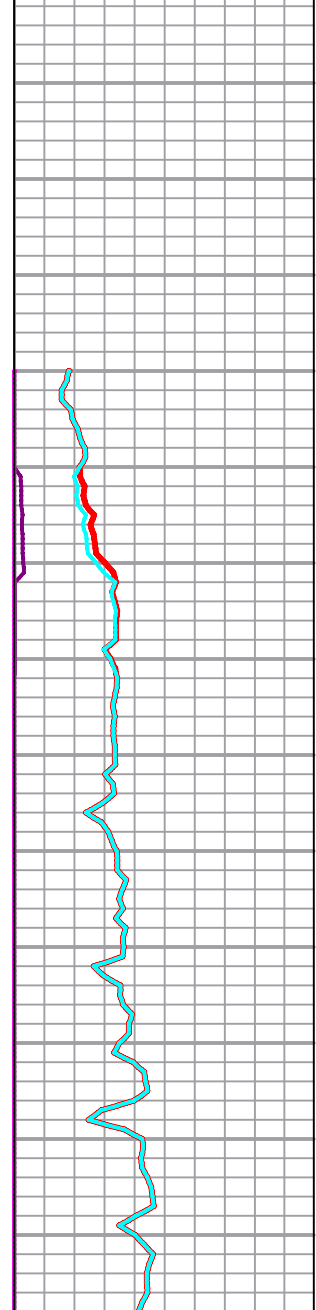
Lm- Cream, FXLN, few sl fsl, sctrd micro XLN & XLN porosity

Lm- Cream Tan Buff, VF-FXLN, mix of dense & tight, sl fsl & mottled w/ sctrd XLN porosity, & sl chalky in part, trashy w/ XLN porosity, some soft white chalk

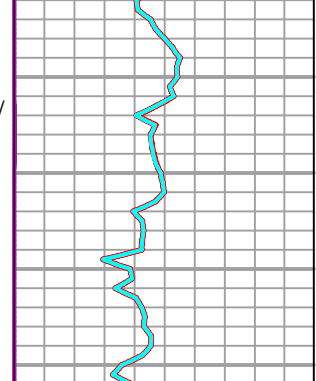
Lm- Cream Tan, FXLN, mix of sl cherty, fsl w/ sctrd XLN porosity & fsl & fusulinids, dense XLN porosity, some soft white chalk, barren

Lm- Cream, FXLN, granular, sl fsl, dense XLN & fn ppt porosity, barren

1:240 Imperial
 0 Total Gas (units) 100
 0 C1 (units) 100
 0 C2 (units) 100
 0 C3 (units) 100
 0 C4 (units) 100



1:240 Imperial
 0 Total Gas (units) 100
 0 C1 (units) 100
 0 C2 (units) 100
 0 C3 (units) 100
 0 C4 (units) 100



3060
3070
3080
3090
3100
3110
3120
3130
3140
3150
3160
3170
3180
3190
3200
3210
3220
3230
3240
3250
3260
3270

Lm- Cream Tan, FXLN, loosely cemented, sl mottled, dense XLN porosity, chalky in part

Lm- Cream Off White, FXLN, well cemented, fsl, dense XLN porosity, some soft white chalk, few sl trashy

Lm- A/A

Sh- Black Gray Maroon, fissile & carbonaceous, silty & calcareous, gritty

Lm- Cream Off White, FXLN, granular, sl fsl, dense XLN & sctrd fn ppt porosity, barren

Lm- Buff Gray Tan, VFXLN, dense, well cemented, poorly dev. w/ no vis. porosity

Lm- Cream Off White, FXLN, fsl w/ dense XLN porosity, sl granular, abundant soft white chalk

Lm- A/A w/ influx of chalk

A/A

Lm- Buff Gray, FXLN, fsl, dense XLN porosity, barren

Sh- Black Gray, fissile & carbonaceous, soft & flaky

Lm- Cream Off White, FXLN, very granular, loosely cemented, vry dense XLN porosity, mottled, some sl trashy, much soft white chalk

A/A w/ few pcs of sl dolomitic Ls & few pcs of cherty Ls A/A

Lm- Buff, FXLN, fsl, sctrd to dense XLN porosity, some soft white chalk

Lm- Off White Cream, VFXLN, fsl, dense, well cemented, poorly developed w/ min. vis. porosity

Lm- Buff Cream, A/A, few sl fsl, A/A, tight

0
0
6

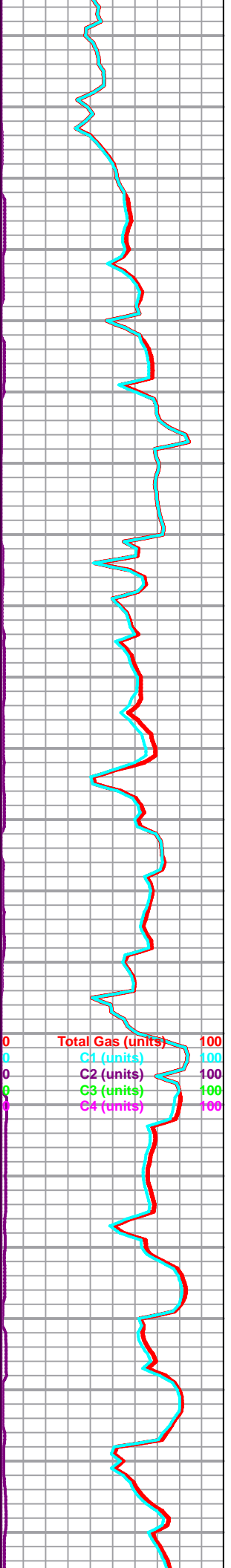
ROP (min/ft)
Gamma (API)
Cal (in)

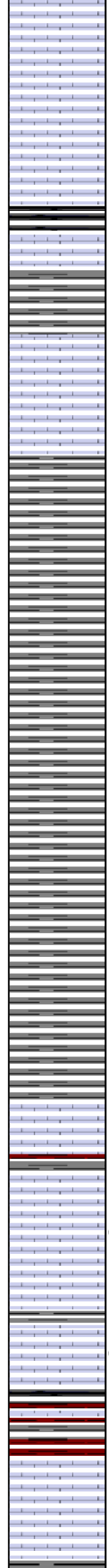
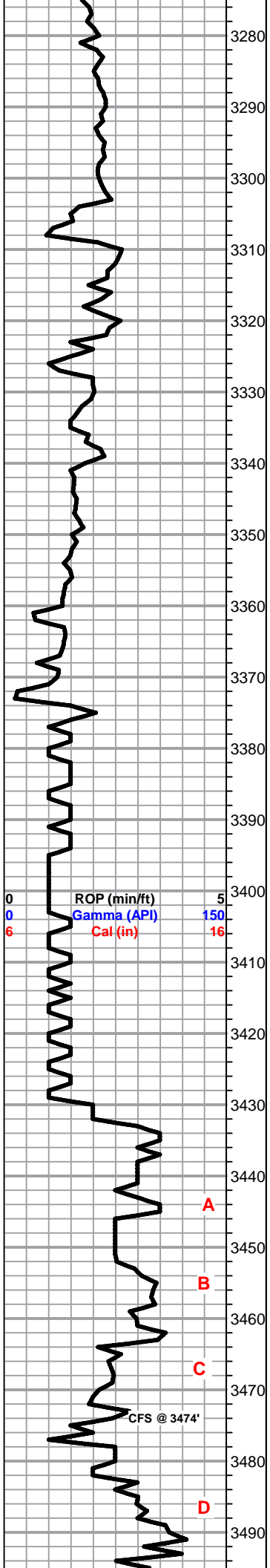
5
150
16

0
0
0
0
0

Total Gas (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)

100
100
100
100
100





A/A

HEEBNER 3302' (-1361) E-LOG 3301' (-1360) Sh- Black Gray Maroon, fissile & carbonaceous, platy & semi-waxy, gritty & earthy

TORONTO 3325' (-1384) E-LOG 3323' (-1382) Lm- Cream Buff, FXLN, well cemented, sl fsl, sctrd XLN porosity

Sh- Gray Maroon Brown, gritty & earthy

A/A w/ influx of gray argillaceous clumps/wash

A/A

A/A some sl sandy & micaceous

SHORT TRIP @ 3430'

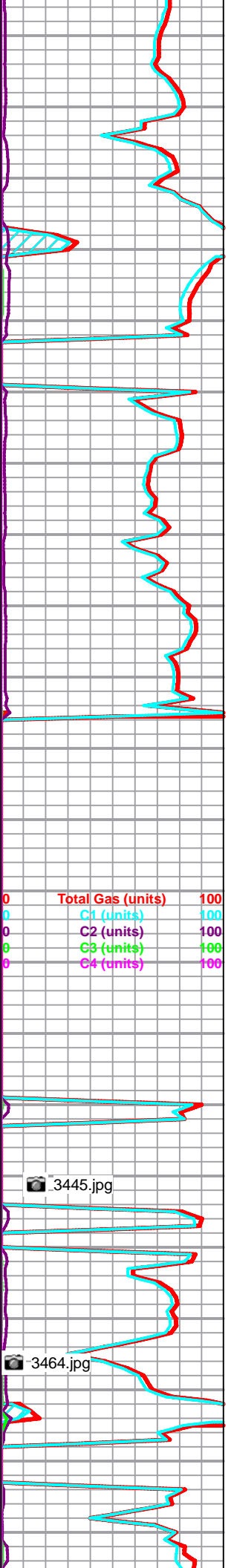
BROWN LIME 3430' (-1489) E-LOG 3429' (-1488) Lm- Brown, FXLN, fsl, dense XLN porosity, barren

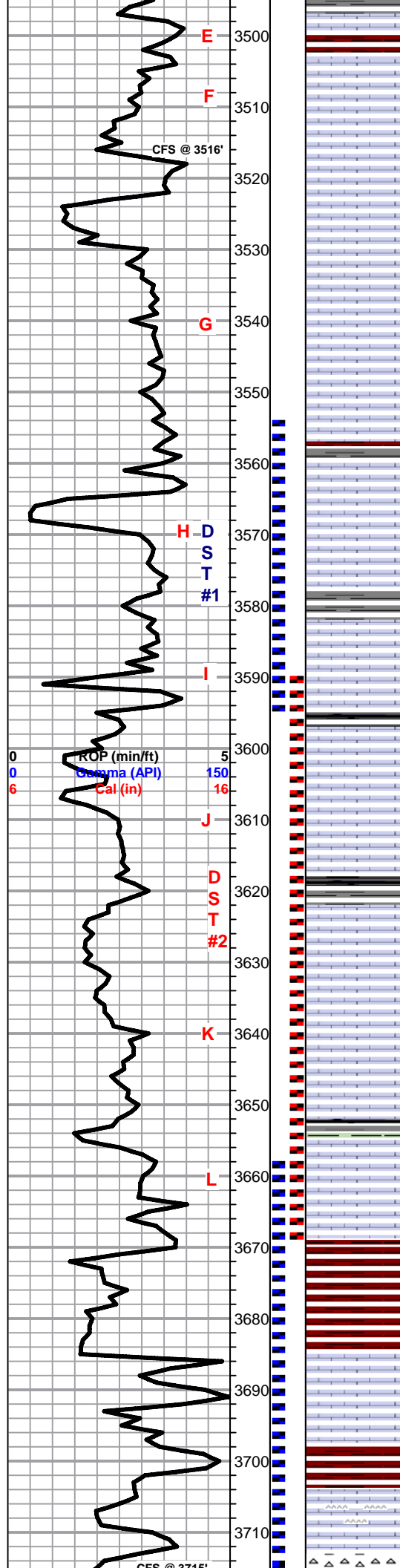
LKC 3443' (-1502) E-LOG 3440' (-1499) Lm- Cream Off White, FXLN, fsl, sctrd XLN porosity, LT SCTRD STN, NSFO, TR ODR

Lm- Cream Tan, FXLN, sl fsl, some sl dolomitic Ls w/ sctrd-dense XLN porosity, barren, some chalky in part w/ poor vis. porosity, some soft white chalk

Lm- Cream Off White, FXLN, fsl & sl oolitic, mod. dev. w/ dense XLN & sctrd fn ppt porosity, SCTRD LT STN, NSFO, FR ODR

Lm- Buff Cream, FXLN, fsl, poorly dev. w/ sctrd XLN porosity, some chalky in part & soft white chalk, barren





Lm- Gray Tan, FXLN, vry fsl, trashy, clastic, dense XLN porosity, possible fracturing, barren

Lm- Off White, FXLN, fsl, sctrd dev. w/ micro XLN-XLN porosity, few w/ trace of ppt porosity & reXLN w/in, 3-4 PCS W/ TR DEAD EDGE STN, NSFO, NO ODR

Lm- Cream Tan, FXLN, fsl, mix of sl dolomitic Ls w/ sctrd-consistent XLN porosity, clear replacement cementation & few pcs of fsl vitreous chert w/o vis. porosity, all barren, some soft white chalk

Lm- Tan, VF-FXLN, densely packed small oolites, sl oomoldic, sctrd small vugular porosity, dense XLN porosity, 2 PCS W/ LT TR STN, NSFO, NO ODR

Lm- Tan, VFXLN, dense, well cemented & tight, sctrd XLN porosity, barren

Lm- Tan Buff, A/A

Sh- Gray Maroon, slaty slivers, gritty & earthy

Lm- Cream, FXLN, fsl & sl oolitic, well dev. w/ consistent XLN & sctrd fn ppt porosity, DRK LIVELY STN, FR O, FR ODR

Lm- Cream Tan, VF-FXLN, dense, well cemented, tight w/ sctrd XLN porosity, barren

Lm- White Cream, Med XLN, fsl & oolitic, mostly well dev. w/ sctrd ppt porosity, SCTRD DRK & DO STN, TR FRO, WK ODR

Sh- Black Gray Green, fissile & carbonaceous, slivers, argillaceous clumps

Lm- Cream Buff, FXLN, fsl & oolitic, sctrd oomoldic, dense XLN porosity, mostly throughout, some sctrd vuggy porosity, some sctrd clear replacement cementation, DRK STN, SHW FO, FR ODR

Lm- Cream Tan, VF-FXLN, dense, tight to loosely cemented, some mud supported matrix & soft white chalk

Sh- Black Gray Maroon, carbonaceous, slaty, earthy

Lm- Cream Tan, VF-FXLN, dense, & mostly tight w/ sctrd XLN porosity some chalky in part, all barren

Sh- Black Gray Green, fissile & carbonaceous, dense semi-waxy & platy, gummy clumps

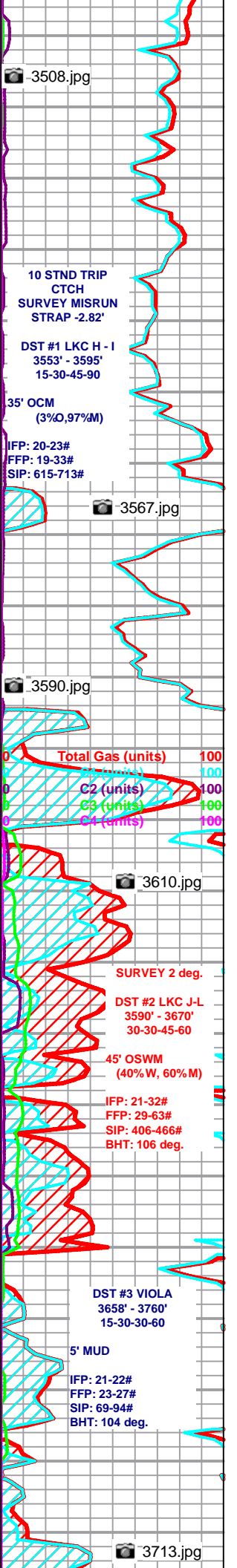
Lm- Off White, FXLN, fsl & sl oolitic w/ sctrd clear replacement cementation, sctrd micro XLN & XLN porosity, barren

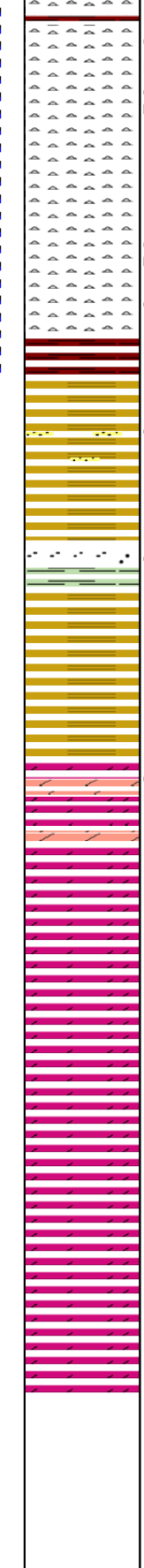
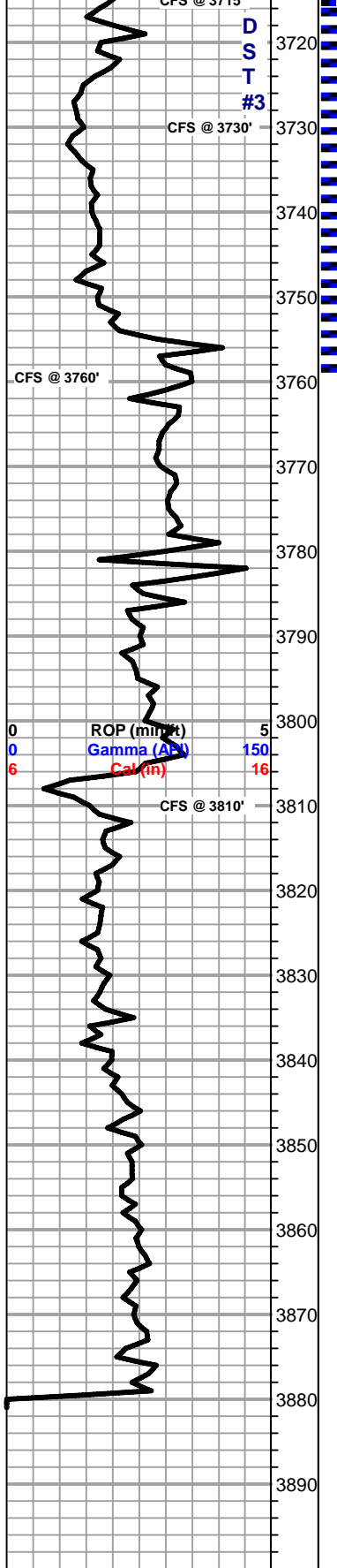
BKC 3670' (-1729) E-LOG 3659' (-1718) Sh- Maroon Gray Brown, gritty & earthy

Sh- Maroon Gray Brown, gritty & earthy, gummy clumps/wash, waxy, gritty & earthy

Lm- Tan, VFXLN, dense, well cemented, sctrd-dense micro XLN porosity, barren

Lm/Chert- Buff Salmon, VFXLN, dense, well cemented, gritty dolomitic & cherty Ls, tight w/ consistent micro XLN porosity, barren, several pcs of detrital & fresh bedded chert





VIOLA 3711' (-1770) E-LOG 3717' (-1776) Chert- White, opaque, well cemented, SCTRDR-SAT BLK DO STN, NSFO, NO ODR, DULL YLW FLOR

● Chert- White, massive, well cemented w/ mostly consistent XLN porosity, SCTRDR TO SAT BRWN STN, SHW FO, GD ODR, STRM WET CUT FLOR.

● Chert- Bone White Milky White, cryptoXLN, porcelain like vitreous w/o vis. porosity

● Chert- White, consistent XLN porosity throughout, SAT DRK STN, SHW FO, FR-GD ODR, YLW FLOR

● A/A w/ influx of barren white vitreous chert w/ SCTRDR STN A/A

SIMPSON SHALE 3755' (-1814) E-LOG 3762' (-1821) Sh- Green Maroon Green Purple, earthy, waxy, slatey, gummy clumps

● A/A w/ vfn grn dolomitic cemented Ss, mod. sorting w/ mix of consolidation, friable, most are consolidated, some sl shaley, SCTRDR DRK RESIDUAL STN, NSFO, NO ODR

● Sh/Ss- Mint Green waxy, some w/ fn grn qtz inclusions Ss- Clear/Frosted Fn-Med Grn, consolited & med. sorting, mod. cementation, SCTDR BLK DEAD OIL STN, NSFO, NO ODR

● Sh- A/A, abundant argillaceous clumps

ARBUCKLE 3805' (-1864) E-LOG 3805' (-1864) Dol- Cream Lt Pink Translucent, mix of oolitic/oomoldic dolomite w/ consistent micro XLN porosity throughout, mostly barren, few pcs of translucent oolitic vitreous chert, friable translucent Fn-Med grn. sandy dolomite, Med XLN w/ consistent XLN & sctrdr fn ppt porosity, ALL MEMBERS W/ FEW PCS W/ SCTRDR BLK DO STN, NSFO, TR PUNGENT ODR

● Dol- Lt Pink Buff, Med-Crs, massive, well dev. w/ consistent XLN to fn ppt porosity, sl sucrosic, barren

● Dol- Buff Tan, FXLN, dense, consistent micro XLN porosity, barren

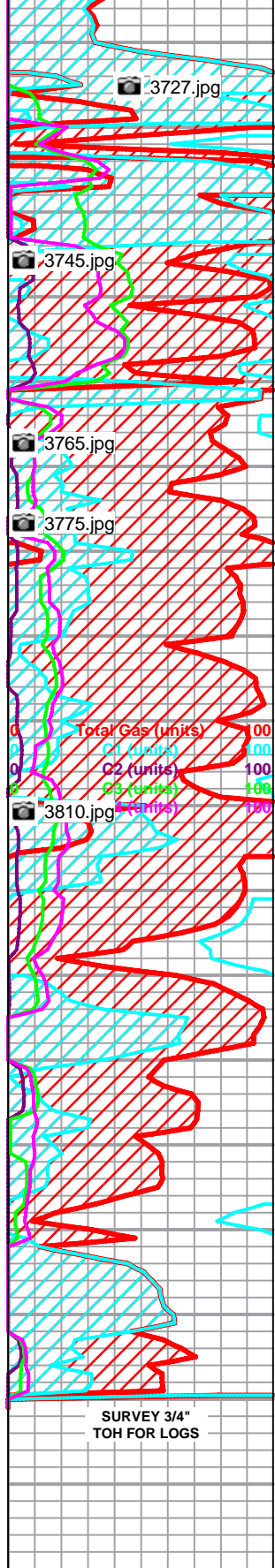
● Dol- VF-FXLN, A/A w/ influx of soft white chalk

● Dol- Buff Cream, VF-FXLN, dense, dense micro XLN-XLN porosity, barren

● Dol- A/A semi-sucrosic, barren

● Dol- Buff, F-MedXLN, massive, semi-sucrosic, vis. rhombs, consistent XLN porosity, barren

RTD 3880' (-1939) LTD 3877' (-1936) @ 12:32 3/8/2021



SURVEY 3/4"
TOH FOR LOGS



3445'







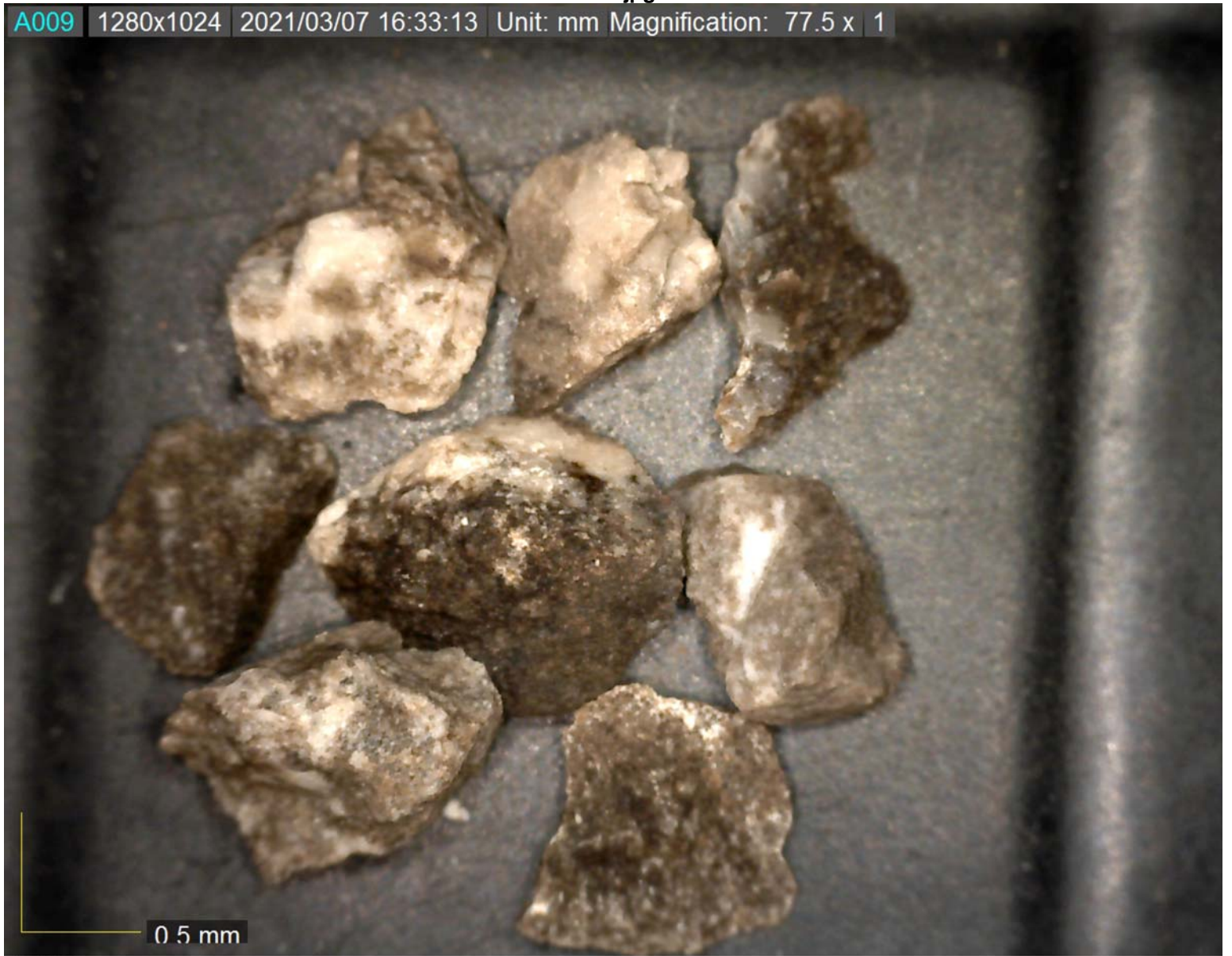


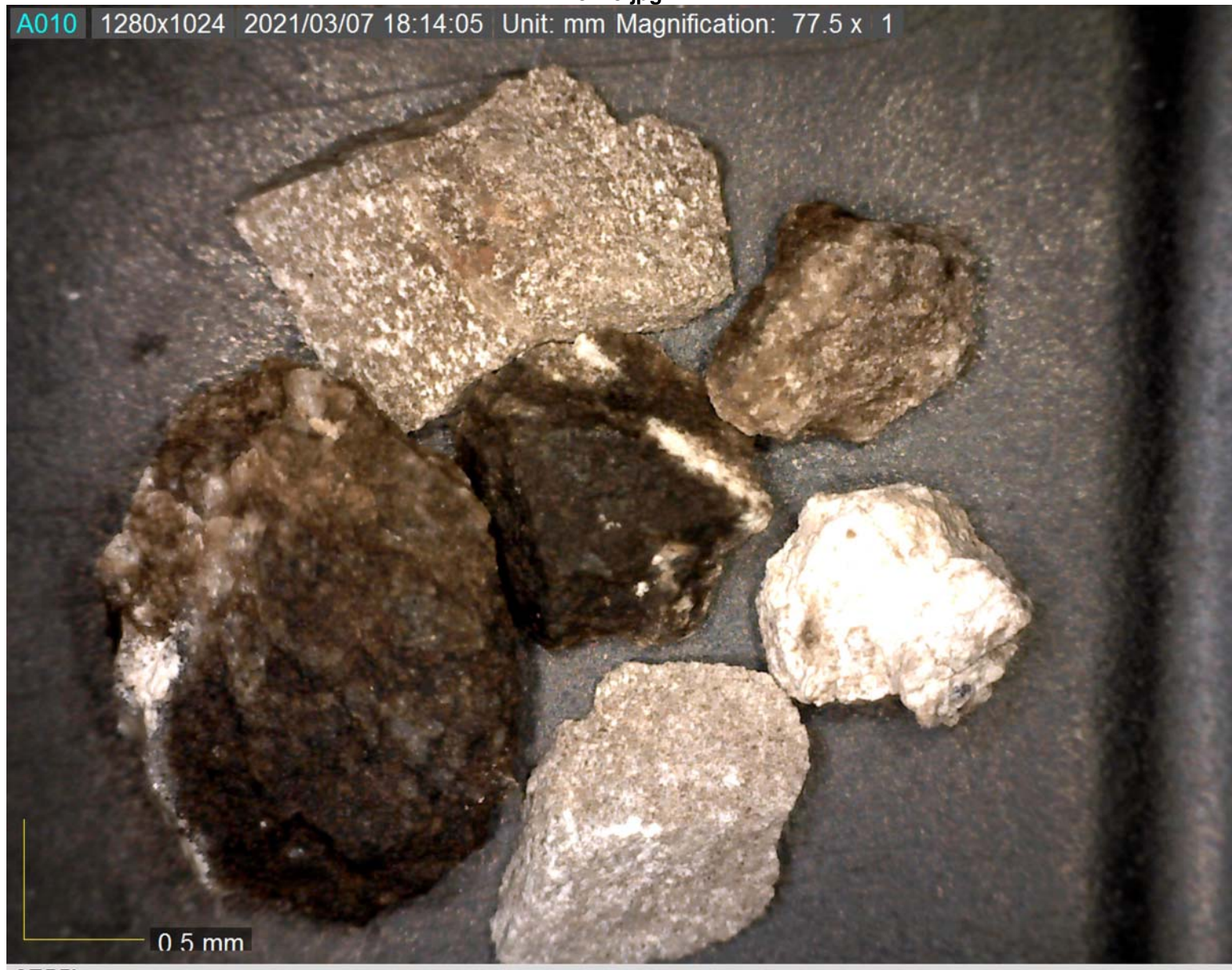
0.5 mm

3590









3755'



0.5 mm

3765'





3810'