

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
--	---

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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
---	--	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	W.D. Short Oil Co., LLC
Well Name	WALDSCHMIDT 8
Doc ID	1531367

All Electric Logs Run

Gamma Ray/Cement Bond Log
Sonic Log
Dual Induction Log
Neutron Log

Elite Cementing & Acidizing of KS, LLC
 PO Box 92
 Eureka, KS 67045



Date	Invoice #
8/27/2020	5164

Bill To	
W.D. Short Oil Company PO Box 729 Oxford, KS 67119	
Customer ID#	1019

Job Date	8/25/2020
Lease Information	
M.K. Waldschmidt #8	
County	Cowley
Foreman	KM

Item	Description	Qty	Rate	Amount
C102	Cement Pump-Longstring	1	1,100.00	1,100.00
C107	Pump Truck Mileage (one way)	75	4.20	315.00
C201	Thick Set Cement	150	20.50	3,075.00T
C208	Pheno Seal	300	1.30	390.00T
C108B	Ton Mileage-per mile (one way)	618.75	1.40	866.25
C404	5 1/2" Top Rubber Plug	1	74.00	74.00T
C761	5 1/2" Type B Basket Shoe	1	1,355.00	1,355.00T
C604	5 1/2" Cement Basket	1	236.00	236.00T
C504	5 1/2" Centralizer	6	50.00	300.00T
D101	Discount on Services		-114.06	-114.06
D102	Discount on Materials		-271.50	-271.50T

We appreciate your business!

Phone #	Fax #	E-mail
620-583-5561	620-583-5524	rene@elitecementing.com

Send payment to:
 Elite Cementing & Acidizing of KS, LLC
 PO Box 92
 Eureka, KS 67045

Subtotal	\$7,325.69
Sales Tax (6.5%)	\$335.30
Total	\$7,660.99
Payments/Credits	\$0.00
Balance Due	\$7,660.99

810 E 7TH
 PO Box 92
 EUREKA, KS 67045
 (620) 583-5561



Cement or Acid Field Report
 Ticket No. **5164**
 Foreman Kevin McCoy
 Camp EUREKA

API 15-035-24720-00-00

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State		
8-25-20	1019	M.K. WALDSCHMIDT #8	5	345	6E	Cowley	Ks		
Customer	Mailing Address	City	State	Zip Code	Safety Meeting	Unit #	Driver	Unit #	Driver
W.D. Short Oil Company LLC	P.O. Box 729	Oxford	Ks	67119	KM AM SM	104	ALAN M.	113	Steve M.

Job Type Longstring Hole Depth 3755' Slurry Vol. 46 BBL Tubing _____
 Casing Depth 3420.63' K.B. Hole Size 7 7/8 Slurry Wt. 13.8 # Drill Pipe _____
 Casing Size & Wt. 5 1/2" 15.50 # Cement Left in Casing 3' Water Gal/SK 7.0 Other _____
 Displacement 82.2 BBL Displacement PSI 900 Bump Plug to 1400 PSI BPM _____

Remarks: Safety Meeting: 5 1/2" 15.50 # Casing w/ Basket Shoe Set @ 3420.63' K.B. Circulate for 45 minutes w/ mud pump to thin down mud viscosity. Rig up to cement. Set Basket Shoe @ 900 PSI. Pump 15 BBL fresh water ahead. Mixed 150 SKS THICK Set Cement w/ 2 # PhenoSeal / SK @ 13.8 # / gal yield 1.72 = 46 BBL slurry. wash out pump & lines. Shut down, Release Plug. Displace Plug to Seat w/ 82.2 BBL fresh water. Final pumping pressure 900 PSI, Bump Plug to 1400 PSI. Wait 2 mins. Release pressure. Float held. Good Circulation @ ALL times while cementing. Job Complete. Rig down.

CENTRALIZERS ON #1, 3, 5, 7, 9, 11 Basket on Top of #12

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 102	1	Pump Charge	1100.00	1100.00
C 107	75	Mileage	4.20	315.00
C 201	150 SKS	THICK Set Cement	20.50	3075.00
C 208	300 #	PhenoSeal 2 # / SK	1.30	390.00
C 108 B	8.25 Tons	Ton Mileage 75 miles	1.40	866.25
C 404	1	5 1/2 Top Rubber	74.00	74.00
C 761	1	5 1/2 Type B BASKET SHOE	1355.00	1355.00
C 604	1	5 1/2 Cement BASKET	236.00	236.00
C 504	6	5 1/2 x 7 7/8 CENTRALIZERS	50.00	300.00
			Sub Total	7,711.25
			Less 5%	403.21
			Sales Tax 6.5%	352.95

THANK YOU
MA

Authorization By Don Short Title _____ Total 7,660.99

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

TERMS

In consideration of the prices to be charged by Elite Cementing & Acidizing of Kansas, LLC (ELITE) services, equipment and products and for the performance of services and supplying of materials, Customer agrees to the following terms and conditions.

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

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

All ELITE prices are subject to change without notice.

SERVICE CONDITIONS

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

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

(b) Unless a claim is the result of the sole willful misconduct or gross negligence of ELITE, Customer shall be responsible for and indemnify and hold ELITE harmless from any claim for: (1) reservoir loss or damage, or property damage resulting from sub-surface pressure, losing control of the well and/or a well blowout; (2) damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by ELITE; (3) injury to or death of persons, other than employees of ELITE, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole; (4) well damage or reservoir damaged caused by (i) loss of circulation, cement invasion, cement misplacement, pumping

cement or cement plugs on wells with loss of circulation, including the failure to displace plug to proper depth, (ii) subsurface pressure and resulting failure to complete pumping of cement or cement plug, including dehydration of cement slurry or flashing, plugged float shoe, annulus bridging or plugging, or (iii) down hole tools being lost or left in the well, or becoming stuck in the well for any reason and by any cause. ELITE may furnish down-hole tools and may supply supervision for the running and placement of such tools but will not be liable for any damage or loss resulting from the use of such tools. Customer will be responsible for the cost to replace such tools if they are lost or left in the well.

- (c) ELITE makes no guarantee of the effectiveness of any ELITE products, supplies or materials, or the results of any ELITE treatment or services.
- (d) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, ELITE is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by ELITE. ELITE personnel will use their best efforts in gathering such information and their best judgment in interpreting it. Customer agrees that ELITE shall not be responsible for any damage arising from the use of such information except where due to ELITE's gross negligence or willful misconduct in the preparation or furnishing of it.
- (e) ELITE may buy and resell to Customer down hole equipment, including but not limited to float equipment, DV tools, port collars, type A & B packers, and Customer agrees that ELITE is not an agent or dealer for the companies who manufacture such items, and further agrees that Customer shall be solely responsible for and indemnify ELITE against any claim with regard to the effectiveness, malfunction of, or functionality of such items.

WARRANTIES – LIMITATION OF LIABILITY

ELITE warrants its title to the products, supplies, and materials used or sold to the customer. **ELITE MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, NOR ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** ELITE's liability and Customer's exclusive remedy in any claim (whether in contract, tort, breach of warranty or otherwise,) arising out of the sale or use of any ELITE products or services is expressly limited to the replacement of such or their return to ELITE or, at ELITE's option, an allowance to Customer of credit for the cost of such items.

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

Elite Cementing & Acidizing of KS, LLC
 PO Box 92
 Eureka, KS 67045



Date	Invoice #
8/25/2020	5133

Bill To	
W.D. Short Oil Company PO Box 729 Oxford, KS 67119	
Customer ID#	1019

Job Date	8/21/2020
Lease Information	
Waldschmidt #8	
County	Cowley
Foreman	DG

Item	Description	Qty	Rate	Amount
C101	Cement Pump-Surface	1	890.00	890.00
C107	Pump Truck Mileage (one way)	75	4.20	315.00
C200	Class A Cement-94# sack	220	15.75	3,465.00T
C205	Calcium Chloride	620	0.63	390.60T
C206	Gel Bentonite	415	0.21	87.15T
C209	Flo-Seal	55	2.35	129.25T
C108B	Ton Mileage-per mile (one way)	775.5	1.40	1,085.70
D101	Discount on Services		-114.54	-114.54
D102	Discount on Materials		-203.60	-203.60T

We appreciate your business!

Phone #	Fax #	E-mail
620-583-5561	620-583-5524	rene@elitecementing.com

Send payment to:
 Elite Cementing & Acidizing of KS, LLC
 PO Box 92
 Eureka, KS 67045

Subtotal	\$6,044.56
Sales Tax (6.5%)	\$251.45
Total	\$6,296.01
Payments/Credits	\$0.00
Balance Due	\$6,296.01

10/10/10
10/10/10

10/10/10
10/10/10

10/10/10
10/10/10

10/10/10
10/10/10

10/10/10
10/10/10

Year	Month	Day	Amount	Description	Balance
2010	10	10	100.00	Initial deposit	100.00
2010	10	15	50.00	Withdrawal	50.00
2010	10	20	25.00	Deposit	75.00
2010	10	25	10.00	Withdrawal	65.00
2010	10	30	15.00	Deposit	80.00
2010	10	31	0.00	Final balance	80.00

10/10/10
10/10/10
10/10/10
10/10/10
10/10/10

10/10/10
10/10/10
10/10/10
10/10/10
10/10/10

810 E 7TH
 PO Box 92
 EUREKA, KS 67045
 (620) 583-5561



Cement or Acid Field Report
Ticket No. 5133
 Foreman David Gardner
 Camp Eureka

API# 15-035-24720

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
8-21-20	1019	Waldschmidt #8	6	34 S	6 E	Cowley	KS
Customer			Safety Meeting	Unit #	Driver	Unit #	Driver
W.D. Short Oil Company			DG	105	Jason		
Mailing Address			SH	110	Zeni		
PO Box 729			ZA				
City	State	Zip Code					
Oxford	KS	67119					

Job Type Surface Hole Depth 343' K.B. Slurry Vol. 53 Bbl Tubing _____
 Casing Depth 323' G.L. Hole Size 12 1/4" Slurry Wt. 15# Drill Pipe _____
 Casing Size & Wt. 8 5/8" 29# Cement Left in Casing 15' +/- Water Gal/SK _____ Other _____
 Displacement 20 1/4 Bbl Displacement PSI _____ Bump Plug to _____ BPM _____

Remarks: Safety Meeting. Rig up to 8 5/8" casing. Break circulation w/ 15 Bbl fresh water. Mixed 220 sks Class A cement w/ 3% Cactz, 2% Gel, + 1/4" Floseal/sk @ 15#/gal, yield 1.35 = 53 Bbl Slurry. Displace w/ 20 1/4 Bbl fresh water. Shut down. Close well in. Good circulation @ all times. Good cement returns to surface = 20 Bbl slurry to pit. Job complete. Rig down.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C101	1	Pump Charge	890.00	890.00
C107	75	Mileage	4.20	315.00
C200	220 sks	Class A Cement	15.75	3465.00
C205	620#	Cactz 3%	.63	390.60
C206	415#	Gel 2%	.21	87.15
C209	55#	Floseal 1/4"/sk	2.35	129.25
C108B	10.34 Tons	Ton Mileage - Bulk Truck	1.40	1085.70
<u>Thank You</u>				
			Sub Total	6,362.70
			Less 5%	331.37
			Sales Tax	264.68

Authorization by Charlie Coulter Title Tool Pusher - Lighthouse Drlg. Total 6,296.01

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

TERMS

In consideration of the prices to be charged by Elite Cementing & Acidizing of Kansas, LLC (ELITE) services, equipment and products and for the performance of services and supplying of materials, Customer agrees to the following terms and conditions.

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

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

All ELITE prices are subject to change without notice.

SERVICE CONDITIONS

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

- (a) ELITE shall not be responsible for any claim, cause of action or demand (hereinafter referred to as a "claim") for damage to property, injury to or death of employees and representatives of Customer or the well owner (if different from Customer), unless such damage, injury or death is caused by the willful misconduct or gross negligence of ELITE, including but not limited to sub-surface damage and surface damage arising from sub-surface damage.
- (b) Unless a claim is the result of the sole willful misconduct or gross negligence of ELITE, Customer shall be responsible for and indemnify and hold ELITE harmless from any claim for: (1) reservoir loss or damage, or property damage resulting from sub-surface pressure, losing control of the well and/or a well blowout; (2) damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by ELITE; (3) injury to or death of persons, other than employees of ELITE, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole; (4) well damage or reservoir damaged caused by (i) loss of circulation, cement invasion, cement misplacement, pumping

cement or cement plugs on wells with loss of circulation, including the failure to displace plug to proper depth, (ii) subsurface pressure and resulting failure to complete pumping of cement or cement plug, including dehydration of cement slurry or flashing, plugged float shoe, annulus bridging or plugging, or (iii) down hole tools being lost or left in the well, or becoming stuck in the well for any reason and by any cause. ELITE may furnish down-hole tools and may supply supervision for the running and placement of such tools but will not be liable for any damage or loss resulting from the use of such tools. Customer will be responsible for the cost to replace such tools if they are lost or left in the well.

- (c) ELITE makes no guarantee of the effectiveness of any ELITE products, supplies or materials, or the results of any ELITE treatment or services.
- (d) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, ELITE is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by ELITE. ELITE personnel will use their best efforts in gathering such information and their best judgment in interpreting it. Customer agrees that ELITE shall not be responsible for any damage arising from the use of such information except where due to ELITE's gross negligence or willful misconduct in the preparation or furnishing of it.
- (e) ELITE may buy and resell to Customer down hole equipment, including but not limited to float equipment, DV tools, port collars, type A & B packers, and Customer agrees that ELITE is not an agent or dealer for the companies who manufacture such items, and further agrees that Customer shall be solely responsible for and indemnify ELITE against any claim with regard to the effectiveness, malfunction of, or functionality of such items.

WARRANTIES – LIMITATION OF LIABILITY

ELITE warrants its title to the products, supplies, and materials used or sold to the customer. **ELITE MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, NOR ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** ELITE's liability and Customer's exclusive remedy in any claim (whether in contract, tort, breach of warranty or otherwise,) arising out of the sale or use of any ELITE products or services is expressly limited to the replacement of such or their return to ELITE or, at ELITE's option, an allowance to Customer of credit for the cost of such items.

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

LOCATION AND LEGALS DATA

WellSight Systems

Scale 1:240 (5"=100') Imperial

Measured Depth Log

Well Name: Waldschmidt 8

API: 15-035-24720

Location: SW SE NE SE S6-T34S-R6E

License Number: 33608

Spud Date: 8/20/20

Surface Coordinates: 1385' North 595' West from SE corner

Region: Cowley County, KS

Drilling Completed: 8/24/20

Bottom Hole

Coordinates:

Ground Elevation (ft): 1116'

K.B. Elevation (ft): 1128'

Logged Interval (ft): Surface To: 3440'

Total Depth (ft): 3755'

Formation: Arbuckle

Type of Drilling Fluid: WATER BASED

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

Formation

Sample Tops

Log Tops

Iatan	1649' (-521)	1636' (-508)
Stalnaker	1676' (-548)	1664' (-536)
Iola	2114' (-986)	2101' (-973)
Layton	2154' (-1026)	2142' (-1014)
Kansas City	2304' (-1176)	2293' (-1165)
Doods Creek	2314' (-1176)	2303' (-1175)
Altamont	2536' (-1408)	2526' (-1398)
Pawnee	2596' (-1468)	2588' (-1460)
Cherokee	2672' (-1544)	2664' (-1536)
Bartlesville	2851' (-1723)	2843' (-1715)
Mississippi Chert	2940' (-1812)	2928' (-1800)
Mississippi Lime	2952' (-1824)	2941' (-1813)
Kinderhook	3340' (-2212)	3330' (-2202)
Arbuckle	3396' (-2268)	3386' (-2258)

OPERATOR

Company: W.D. Short Oil Co., LLC

Address: 125 S River Rd
Oxford, KS 67119


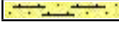

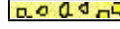

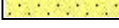








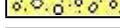


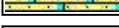
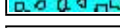


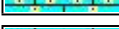



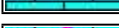



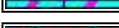


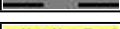
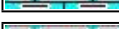






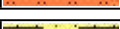

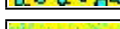
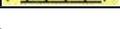
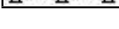

GEOLOGIST

Name: Brandon Wolfe
 Company:
 Address: 1016 N Biddle St
 Moline, KS 67353

COMMENTS






















5 1/2" Casing was ran to the top of the Arbuckle and cemented

ROCK TYPES

 Anhydrite	 Shaly_ss_ii	 Cherty_dolo	 Qtz_wash
 Arkose	 Sandstone	 Dolomite	 Qtz_wash_ii
 Ark_shale	 Shaly_limy_ss	 Limy_dolo	 Argil_qtz_wash
 Granite	 Washy_limy_ss	 Cement	 Ark_qtz_wash
 Coal	 Limy_ss	 Carb_wash	 Sdy_gw
 Limy_sh	 Sdy_ls	 Sdy_carb_wash	 Shaly_gw
 Shale	 Limestone	 Shaly_sdy_carb	 Gw_a
 Hot_shale	 Dolo_ls	 Shaly_limy_qtz_w	 Gw_b
 Hot_shale_ii	 Shaly_ls	 Shaly_limy_qtz_w	 Gw_c
 Siltstone	 Carb_shaly_ls	 Limy_qtz_wash	 Gw_d
 Siltstone_ii	 Cherty_ls	 Limy_qtz_wash_ii	
 Shaly_ss	 Chert	 Limy_qtz_wash_iii	

ACCESSORIES

FOSSIL

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

MINERAL

	Anhy
	Arggrn
	Arg
	Bent
	Bit
	Brecfrag
	Calc
	Carb
	Chtdk
	Chtlt
	Dol
	Feldspar
	Ferrpel
	Ferr
	Glau
	Gyp
	Hvymin
	Kaol
	Marl
	Minxl
	Nodule
	Phos
	Pyr



Salt



Sandy



Silt



Sil




Sulphur



Tuff

STRINGER

	Arkosic inclusion
	Chert inclusion
	Anhydrite
	Arkosic qtz str
	Arkosic qtz str ii
	Arkosic str
	Arkosic str ii
	Carb wash str
	Sandy carb wash str
	Coal/carb sh
	Dolomite
	Granite str
	Limestone
	Limy ss str
	Qtz wash str
	Limy qtz wash str



Sandy ls str



Shale














Siltstone



Sandstone

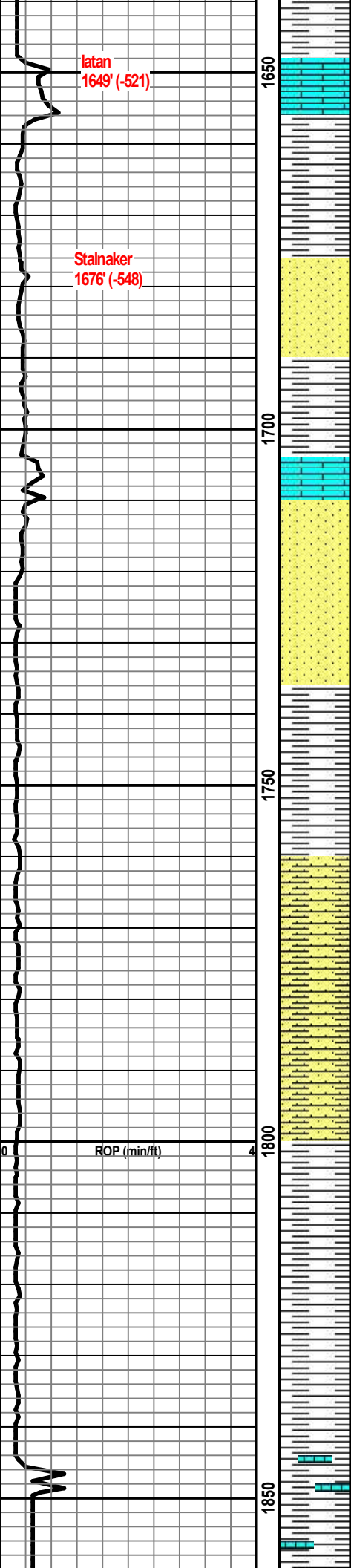
TEXTURE

	Boundst
	Chalky
	Cryxln
	Earthy
	Finexln
	Grainst
	Lithogr
	Microxln
	Mudst
	Packst
	Wackst

OIL SHOW

	Even
	Spotted
	Ques
	Dead

Penetration Rate ROP (min/ft)	TVD Lithology	Geological Descriptions	Oil Shows	Remarks
<p>ROP (min/ft) 4 14</p> <p>Note: Depth Scale is from 0-4 min/ft</p> <p>Note: Drill Depth is 10'-12' off (low) from the Log Depth.</p> <p>ROP (min/ft) 4 1600</p>		<p>323' of Surface Pipe was set @ 4:00AM on 8/21/20</p> <p>Geo showed up on location @ 12:30AM on 8/22/20 - Depth: 1504'</p> <p>Note: Drill Depth is 10'-12' off (low) from the Log Depth.</p> <p>Start Kelly Down (KD) Wet & Dry Samples</p> <p>Sh: gry, slty. Few Pc Ss: lt gry, vry fn gm, sub md, wll srted, fr ig por, NS.</p> <p>Sh: gry to lt gry. Fw Pc Ss: lt gry, vry fn gm, sub md, wll srted, sli mica, fr ig por, NS.</p> <p>Sh: gry to occ lt gry.</p> <p>Sh: gry, sft.</p> <p>Sh: gry, sli fm</p> <p>Mud Up @ Connection @ 1629'</p> <p>Sh: gry Fwnc l s: hm to tan fn xln dns foss nvr</p>		<p>Note: Drill Depth is 10'-12' off (low) from the Log Depth.</p> <p>Midnight Depth on 8/22/20: 1480'</p> <p>Survey @ 1501: 3/4 degree</p>



latan
1649' (-521)

Stalnaker
1676' (-548)

Ls: tan to bm, fn xln, dns, hrd, foss, NS. Sh: gry to occ drk gry.

Sh: gry to occ drk gry, sli mica. 10% Ls: tan to bm, fn xln, dns, vry foss, NS. Fw pc Ss: lt tan, fn gm, sub md, wll srted, sli mica, sli calc, gd ig por, scat oil str, show oil @ break, fw pcs brght yllw flor, fr odor.

Ss: lt tan, fn gm, sub md, wll srted, sli mica, gd ig por, scat oil str, show oil @ break, vry sli sfo, 55% yllw flor in Ss, stmg odor. Sh: gry, sli mica. Fw pc Ls:

Threw out joint of bad drill pipe @ connection

Ss: lt gry, fn gm, sli mica, gd ig por, no odor, NS. Sh: gry to occ drk gry

Ss: lt gry, fn gm, sli mica, gd ig por, scat str, no odor, NS. Sh: AA.

Sh: gry, occ sli mica.

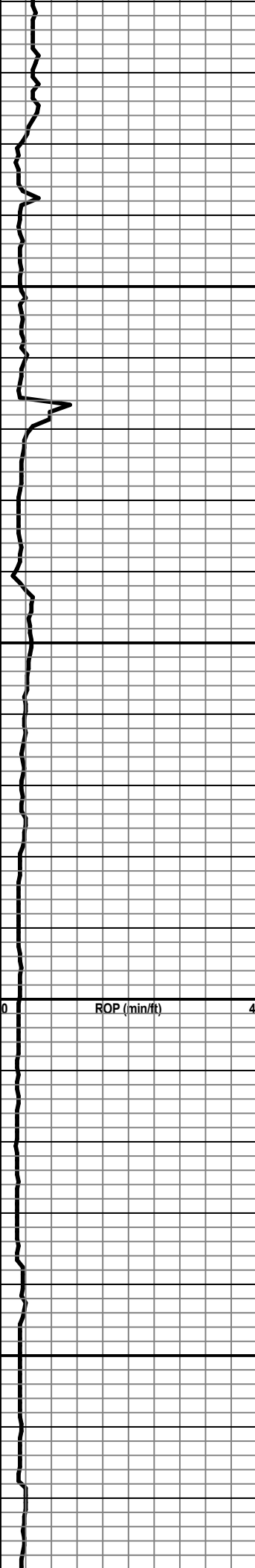
Sh: gry sli frm. Vry fw pc Ls.

latan
1649' (-521)

Stalnaker
1676' (-548)

• Show Oil @ Break
Fair Odor

• Very Sli Show of Free Oil
Show Oil @ Break
Strong Odor



Sh: AA. Fw pc Ls: lt bm to bm, fn xln, dns.

Ss: lt gry, vry fn to fn gm, sli mica, sli shly, no odor, NS. Sh: gry, sly.

WT 8.9, VIS 32

Sh: gry, sly. Ls: tan to lt bm, fn xln, dns, foss, NS. Ss: AA.

Sh: gry, sly. 10% Ss: lt gry, vry fn gm, sli mica, NS.

Sh: gry, sli fm.

Sh: gry to occ drk gry.

Sh: AA.



2100

Sh: gry, sli fm.

lola
2114' (-986)

2150

Sh: gry. Fwpc Ls: gry, fn xln, dns.

Layton
2154' (-1026)

2200

ROP (min/ft)

Ss: lt gry to gry, mstly vry fn gm to occ fn gm, sub md, mod srted, sli mica, frig por, vry scat
bm stn, no flor, no odor, NS.

Ss: lt gry to gry, vry fn gm, sub md, wl srted, mica, frig por, no odor, NS

Ss: lt gry, fn gr, md, wl srted, gd ig por, friable, mica, NS.

2250

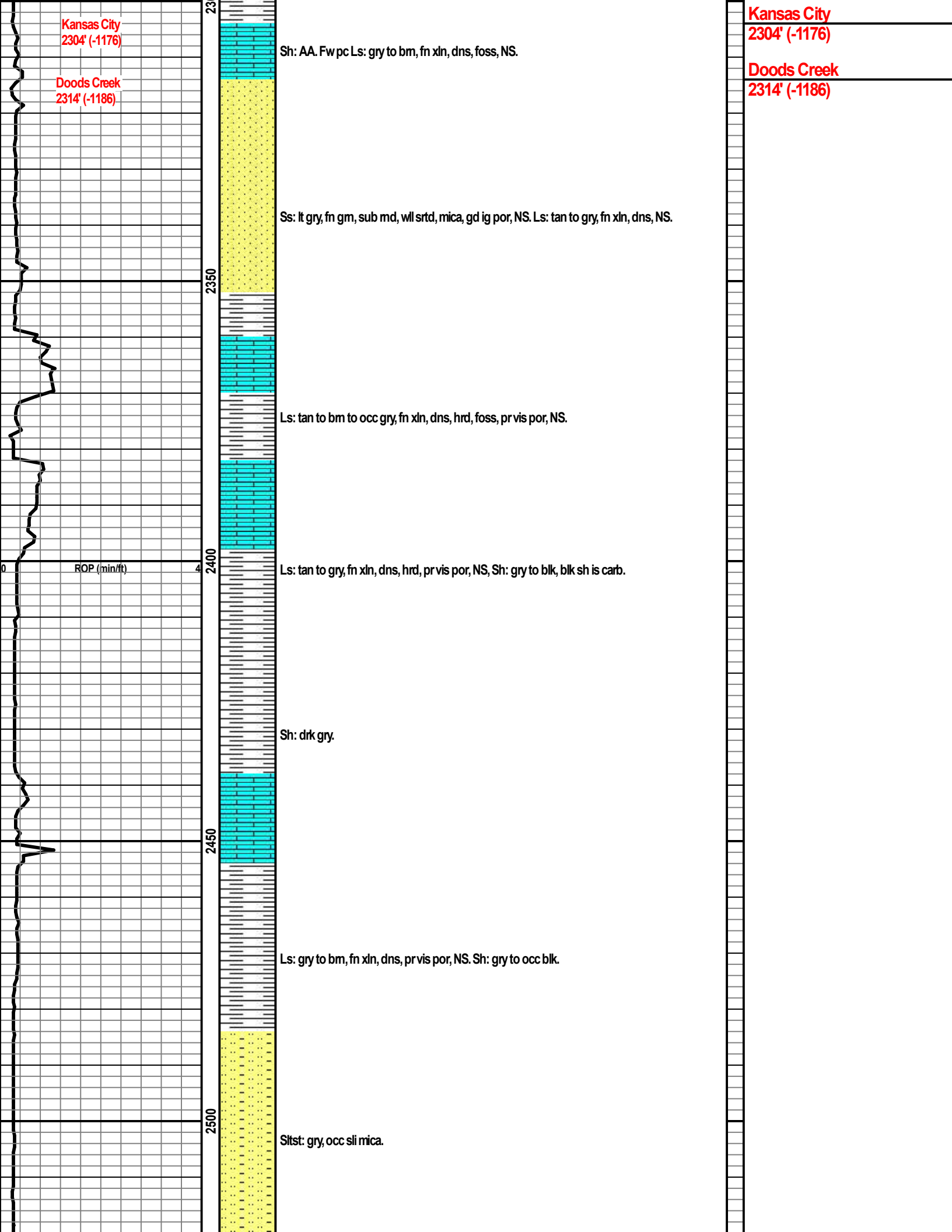
Ss: lt gry to lt tan, sub md, wl to mod srted, gd ig por, sli mica, shly, NS.

2300

Sh: gry to drk gry.

lola
2114' (-986)

Layton
2154' (-1026)



Kansas City
2304' (-1176)

Doods Creek
2314' (-1186)

Kansas City
2304' (-1176)

Doods Creek
2314' (-1186)

Sh: AA. Fw pc Ls: gry to bm, fn xln, dns, foss, NS.

Ss: lt gry, fn gm, sub md, wl srted, mica, gd ig por, NS. Ls: tan to gry, fn xln, dns, NS.

Ls: tan to bm to occ gry, fn xln, dns, hrd, foss, pr vis por, NS.

Ls: tan to gry, fn xln, dns, hrd, pr vis por, NS, Sh: gry to blk, blk sh is carb.

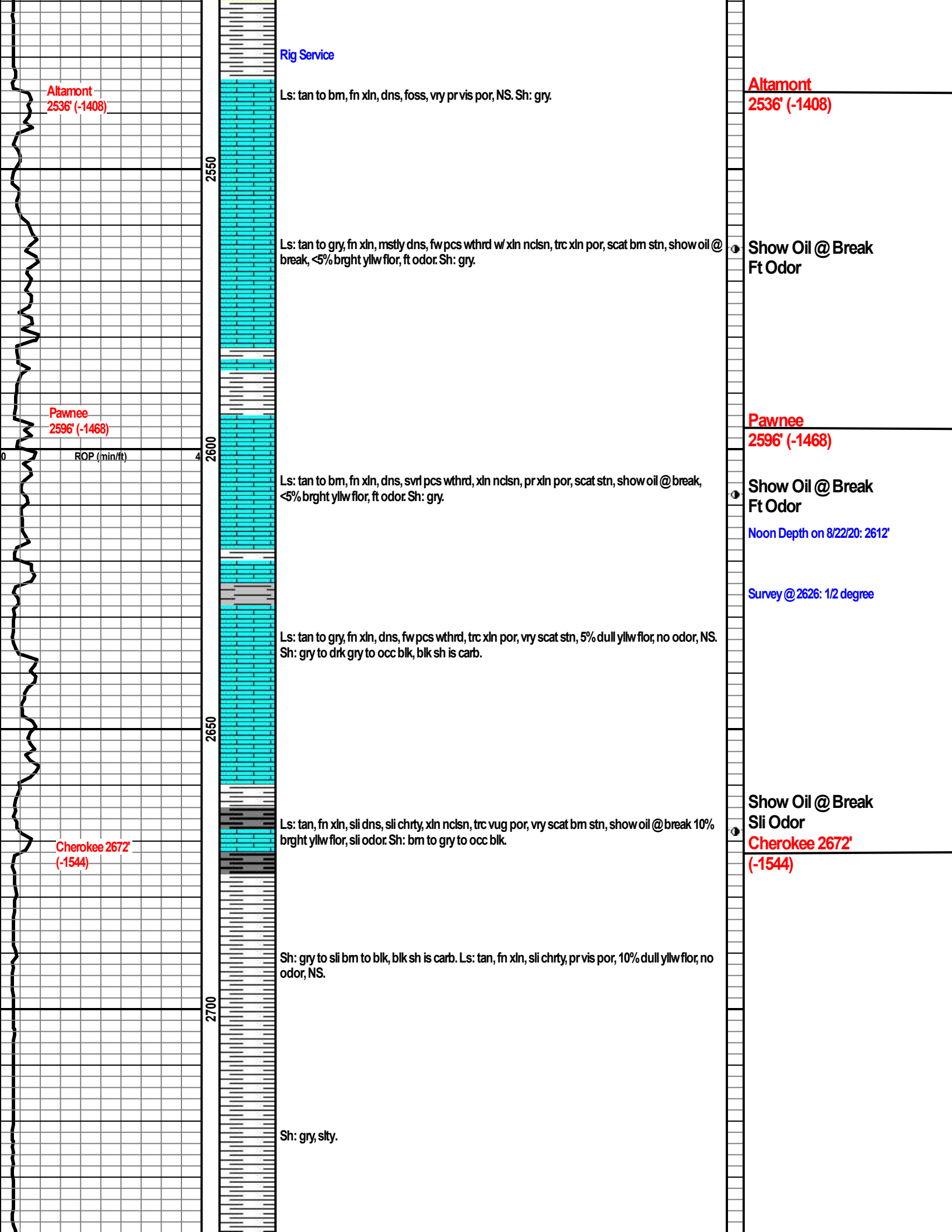
Sh: drk gry.

Ls: gry to bm, fn xln, dns, pr vis por, NS. Sh: gry to occ blk.

Sstst: gry, occ sli mica.

ROP (min/ft)

23
2350
2400
2450
2500



Altamont
2536' (-1408)

Rig Service

Ls: tan to bm, fn xln, dns, foss, vry pr vis por, NS. Sh: gry.

Altamont
2536' (-1408)

2550

Ls: tan to gry, fn xln, mstly dns, fw pcs wthrd w xln nclsn, trc xln por, scat bm stn, show oil @ break, <5% brght yllw flor, ft odor. Sh: gry.

Show Oil @ Break
Ft Odor

Pawnee
2596' (-1468)

ROP (min/ft)

2600

Ls: tan to bm, fn xln, dns, svrl pcs wthrd, xln nclsn, pr xln por, scat stn, show oil @ break, <5% brght yllw flor, ft odor. Sh: gry.

Pawnee
2596' (-1468)

Show Oil @ Break
Ft Odor

Noon Depth on 8/22/20: 2612'

Survey @ 2626: 1/2 degree

2650

Ls: tan to gry, fn xln, dns, fw pcs wthrd, trc xln por, vry scat stn, 5% dull yllw flor, no odor, NS. Sh: gry to drk gry to occ blk, blk sh is carb.

Cherokee 2672'
(-1544)

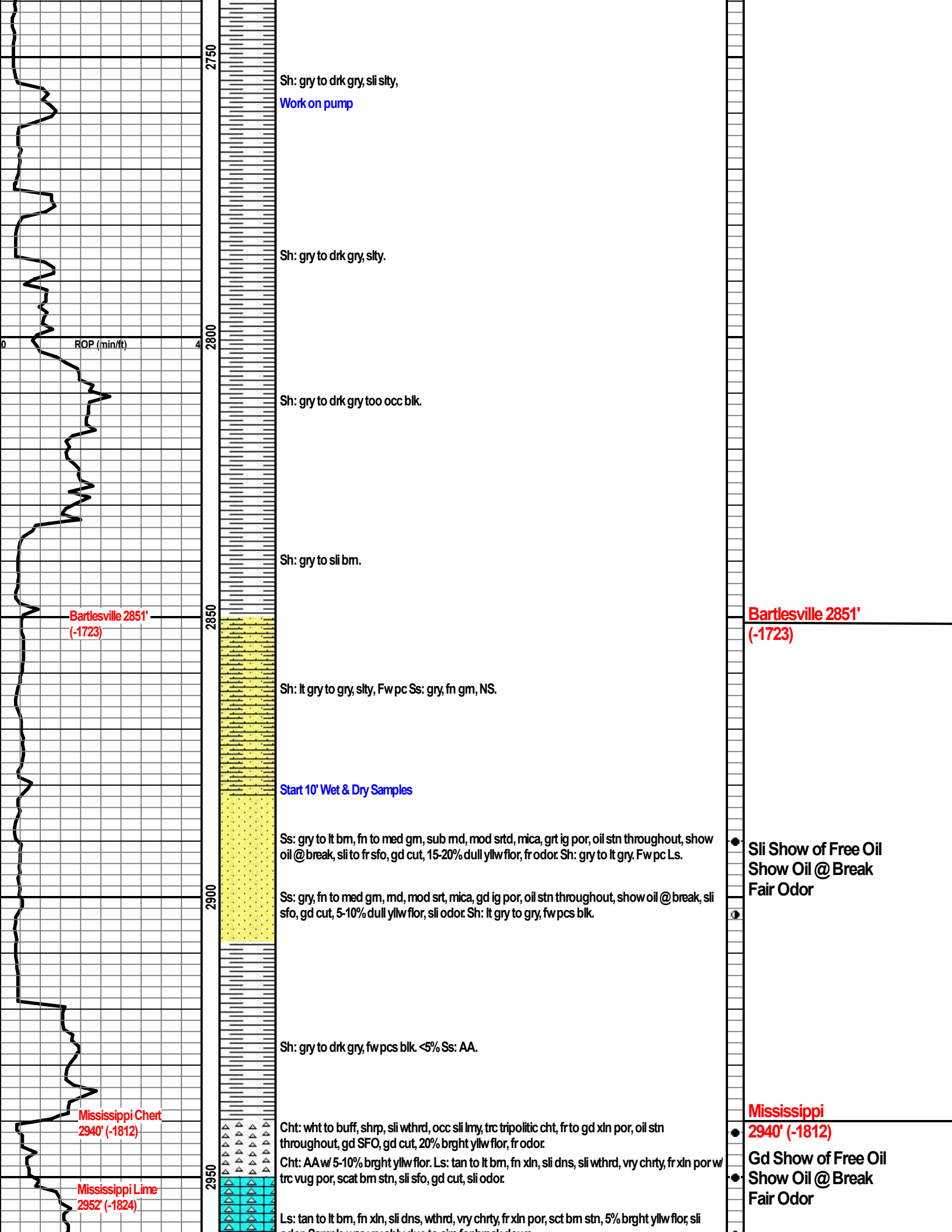
Ls: tan, fn xln, sli dns, sli chrty, xln nclsn, trc vug por, vry scat bm stn, show oil @ break 10% brght yllw flor, sli odor. Sh: bm to gry to occ blk.

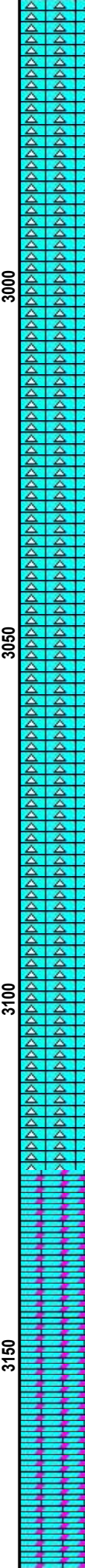
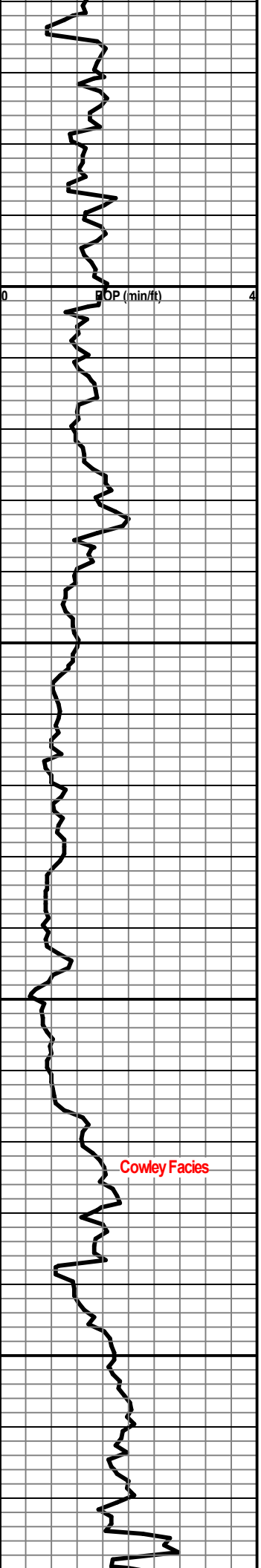
Show Oil @ Break
Sli Odor
Cherokee 2672'
(-1544)

2700

Sh: gry to sli bm to blk, blk sh is carb. Ls: tan, fn xln, sli chrty, pr vis por, 10% dull yllw flor, no odor, NS.

Sh: gry, stly.





odor. Sample was vry snly due to circ for break down.

Circ for 50 min while repairing something on the rig
 Ls: lt bm, fn xln, dns, sli wthrd, vry chrty, fr vis por, very scat brght flor, no odor. Fw pc Cht, buff to wht, sli shrp, sli wthrd, bm stn on xln edge.

Ls: lt bm to gry to tan, fn xln, dns, wthrd, vry chrty, pr to fr vis por, scat oil stn, vry sli sfo, gd cut, 10%-15% brght flor, vry ft odor.

Ls: gry to lt bm, fn xln, dns, wthrd, chrty, fr vis por, scat stn, vry sli sfo, wk cut, 5% brght flor, ft odor.

Ls: AA w 5% brght flor, ft odor.

Ls: gry to lt bm, fn xln, dns, sli wthrd, chrty, fr vis por, vry sfo, <5% flor, no odor.

Ls: gry to lt bm, fn xln, dns, chrty, pr vis por, scat bm stn, vry scat flor, no odor.

Ls: gry to lt bm, fn xln, dns, chrty, pr vis por, no flor, no odor, NS.

Ls: gry to lt bm ot off wht, fn xln, dns, sli wthrd, chrty, chlky, pr vis por, no flor, no odor, NS.

Ls: AA w vry sli sfo, vry scat brght flor, no odor.

Wt 9.3, Vis 40, LCM 2
 Ls: gry to lt bm, fn xln, dns, sli chrty, pr vis por, no flor, no odor, NS.

Ls: lt bm to gry, fn xln, dns, sli wthrd, sli chrty, vry chlky, pr vis por, no flor, no odor, NS.

Ls: bm to gry to occ lt bm, fn xln, dns, sli wthrd, sli chrty, occ trc sli dolo, vry chlky, pr vis por, no flor, no odor, NS.

Ls: lt bm to gry, fn xln, dns, sli wthrd, sli chrty, sli chlky, occ sli dolo, foss, no flor, no odor, NS.

Ls: bm to gry, fn xln, dns, wthrd, sli chrty, chlky, sli dolo, vry sli sfo, vry scat flor, no odor.

Ls: lt bm to gry, fn xln, dns, wthrd, chrty, no flor, no odor, NS.

Ls: AA.

Ls: bm, fn to vryfn xln, dns, hrd, dolo, pr to no vis por, NS.

Ls: bm - drkness incrs with depth, vryfn xln, dns, vry hrd, dolo, no vis por, NS.

Ls: drk bm to bm, vryfn xln, dns, hrd, trc chrty nclsn, dolo, no vis pr, NS.

Ls: drk bm to bm, vryfn xln, dns, hrd, dolo, no vis por, NS.

Very Sli Show of Free Oil Ft to Sli Odor

Very Sli Show of Free Oil Vry Ft Odor

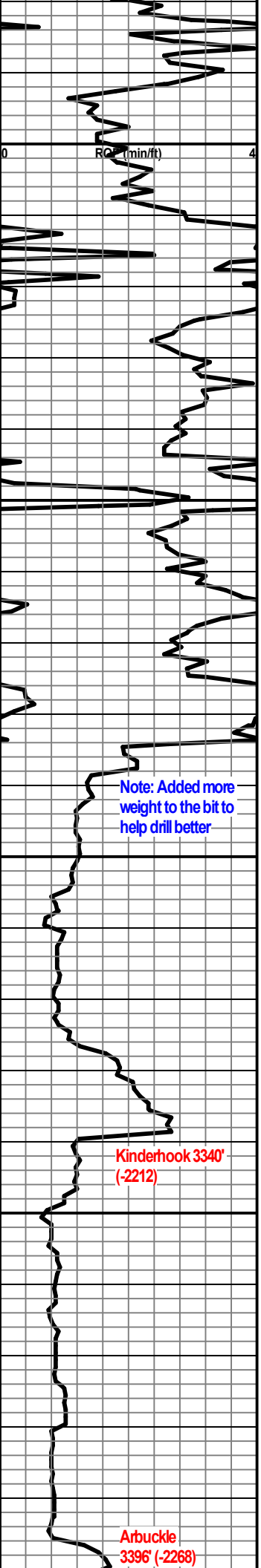
Very Sli Show of Free Oil Ft Odor

Survey @ 3035: 3/4 degree

Very Sli Show of Free Oil

Very Sli Show of Free Oil

Midnight Depth on 8/23/20: 3175'



Ls: drk bm to bm, fn xln, dns, hrd, dolo, no vis por, NS.

Ls: drk bm to bm to occ gry, fn xln, dns, hrd, dolo, trc sli chrty, pr vis por, NS.

Ls: bm to gry, fn xln, dns, hrd, dolo, no vis por, NS.

Wt 9.3 Vis 47 LCM 5

Ls: AA.

Ls: drk bm to bm, fn to vryfn xln, dns, vry hrd, dolo, no vis por, NS.

Ls: drk bm to gry, vryfn xln, dns, vry hrd, dolo, no vis por, NS.

Ls: drk bm, vryfn xln, vry dns, hrd, dolo, NS.

Ls: drk bm, vryfn xln, dns, hrd, dolo, trc xln grwth on edge, NS.

Ls: brk bm to gry, fn xln, dns, hrd, dolo, trc scat xln grwth on edge, NS.

Ls: gry to bm, fn xln, dns, sli hrd, sli dolo, NS.

Ls: bm to gry, fn xln, dns, hrd, dolo, no vis por, NS.

Ls: bm to gry, fn xln, dns, sli hrd, sli dolo, no vis por, NS.

Ls: AA. Svrl pcs Dol: drk gry to drk bm, fn xln, dns, NS.

Ls: AA. Fw pc Dol: AA. Few pc Sh: lt gry, frm.

Sh: lt gry, frm, sub chnky, svrl pc pyr.

Ls: lt gry to tan, fn xln, dns, pr vis por, no flor, no odor, NS.

Ls: AA. Svrl pc Sh: gry to drk gry.

Sh: drk gry to occ blk, sub carb.

Sh: drk gry to occ blk, sub carb.

Sh: vry drk gry to blk, carb, sh odor.

Sh: blk to vry drk gry, carb, sh odor.

Sh: AA.

Wt 9.5 Vis 54 LCM 4

Dol: cm to lt bm, fn xln, sli dns, fr interxln por w/ trc vug por, scat bm stn, no sfo, dull mnd

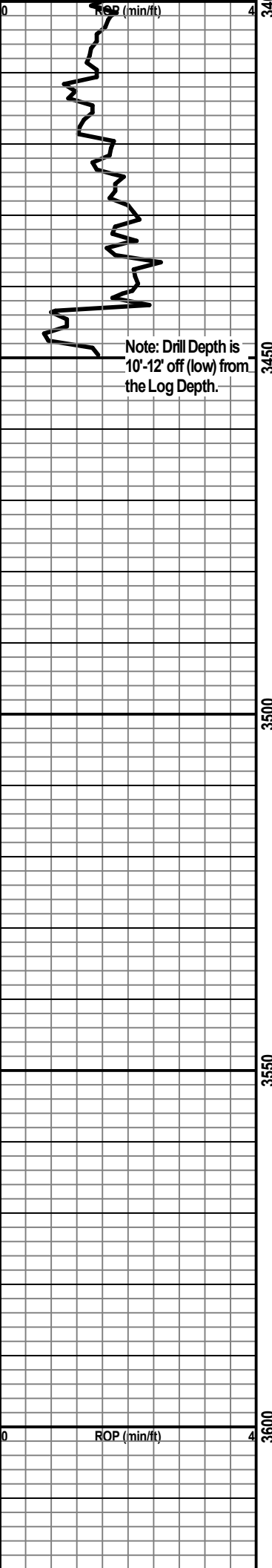
Note: Added more weight to the bit to help drill better

Kinderhook 3340' (-2212)

Arbuckle 3396' (-2268)

Kinderhook 3340' (-2212)

Arbuckle 3396' (-2268)



fior throughout, ft odor. Fw pc Cht: wht to off wht, shrp, frsh.

Dol: tan to lt bm, fn to vryfn xln, dns, sli chrty, xln nclsn, pr to no vis por, dull mnrl flor, no odor, NS. Cht: wht to off wht, mstly frsh, shrp, fw pcs chlky,

Dol: tan to lt bm, vry fn xln, dns, sli chrty, xln nclsn, no vis por, NS. Cht: off wht to crm, frsh, shrp.

Dol: tan to lt bm, vry fn xln, dns, hrd, no vis por, NS. Cht: off wht, chlky.

Dol: lt gry to tan, vry fn xln, dns, hrd, no vis por, NS. Cht: off wht to gry, frsh, shrp.

Dol: AA. Cht: off wht to clr, frsh, shrp, hrd.

Circulated for 1 hr before short trip. Short tripped to above the Stalnaker & back down & circulated for 1.5 hr before tripping out to log.

Note: Short trip pulled tight through & above the Layton.

LTD: 3440' @ 7:30PM on 8/23/20

Note: Pulled PDC off & put a Tricone on to drill the rest of the Arbuckle.

Note: Drill Depth is 10'-12' off (low) from the Log Depth.

Samples not observed, well was deepened after the logs were run

Ft Odor

LTD

3440' (-2312)

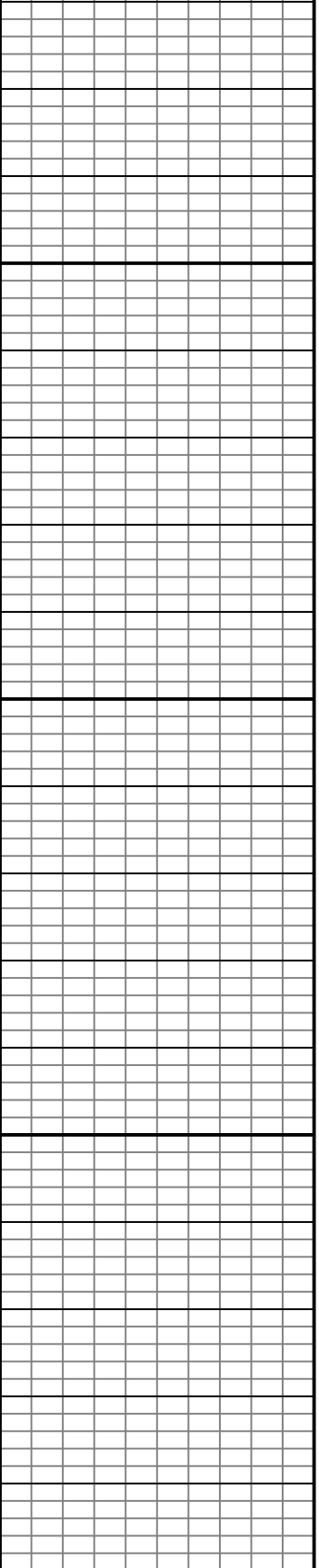
Survey @ 3450: 7/8 degree

Noon Depth on 8/23/20: 3450'

Midnight Depth on 8/24/20: 3450'

Note: Drill Depth is 10'-12' off (low) from the Log Depth.

Noon Depth on 8/24/20: 3598'



RTD: 3440' @ 11:40PM on 8/24/20

