

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	W.D. Short Oil Co., LLC
Well Name	BROWN 15
Doc ID	1668056

All Electric Logs Run

Dual Induction Log
Micro Log
Litho Density Neutron Log
Gamma Ray/Cement Bond Log



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



Date	Invoice #
9/28/2022	6723

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

Job Date	9/27/2022
Lease Information	
Brown #15	
County	Cowley
Foreman	KM

Item	Description	Qty	Terms	Net 15
			Rate	Amount
C101	Cement Pump-Surface	1	950.00	950.00
C107	Pump Truck Mileage (one way)	75	5.00	375.00
C200	Class A Cement-94# sack	125	18.55	2,318.75T
C205	Calcium Chloride	350	0.75	262.50T
C206	Gel Bentonite	235	0.30	70.50T
C209	Flo-Seal	30	2.80	84.00T
C108B	Ton Mileage-per mile (one way)	441	1.50	661.50
D101	Discount on Services		-99.32	-99.32
D102	Discount on Materials		-136.79	-136.79T

*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

<b>Subtotal</b>	\$4,486.14
<b>Sales Tax (6.5%)</b>	\$168.93
<b>Total</b>	\$4,655.07
Payments/Credits	\$0.00
<b>Balance Due</b>	\$4,655.07

**PAID**  
 26666 10-5-22  
 Ch. total 14,778.78

IDC



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



Lighthouse  
 Dril  
 Rig 1

**Cement or Acid Field Report**  
 Ticket No. **6723**  
 Foreman Kevin McCoy  
 Camp EUREKA

API # 15-035-24773

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State	
9-27-22	1019	BROWN # 15	2	34S	SE	Cowley	Ks	
Customer <u>W.D. Short Oil, LLC</u>			Safety Meeting KM AM SM		Unit #	Driver	Unit #	Driver
Mailing Address <u>P.O. Box 729</u>					104	ALAN M.		
City <u>OXFORD</u>			State <u>Ks</u>		114	STEVE M.		
Zip Code <u>67119</u>								

Job Type SURFACE Hole Depth 233' K.B. Slurry Vol. 30 BBL Tubing \_\_\_\_\_  
 Casing Depth 213' G.L. Hole Size 12 1/4" Slurry Wt. 15\* Drill Pipe \_\_\_\_\_  
 Casing Size & Wt. 8 5/8" 23" Cement Left in Casing 20' ± Water Gal/SK \_\_\_\_\_ Other \_\_\_\_\_  
 Displacement 13.2 BBL Displacement PSI \_\_\_\_\_ Bump Plug to \_\_\_\_\_ BPM \_\_\_\_\_

Remarks: Safety Meeting: Rig up to 8 5/8" casing. Break Circulation w/ 10 BBL Fresh water. Mixed 125 SKS CLASS A Cement w/ 3% CaCl2, 2% Gel, 1/4" FloSeal/SK @ 15\*/GAL yield 1.35 = 30 BBL Slurry. Displace w/ 13.2 BBL Fresh water. Shut casing in. Good Cement Returns to SURFACE = 5 BBL Slurry to Pit. Job Complete. Rig down.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 101	1	Pump Charge	950.00	950.00
C 107	75	Mileage	5.00	375.00
C 200	125 SKS	CLASS A Cement	18.55	2318.75
C 205	350 #	CaCl2 3%	.75 #	262.50
C 206	235 #	Gel 2%	.30 #	70.50
C 208	30 #	FloSeal 1/4"/SK	2.80 #	84.00
C 108.B	5.88 TONS	Ton Mileage 75 miles	1.50	661.50
			Sub TOTAL	4722.26
			Less 5%	245.00
			Sales Tax	177.82
Authorization <u>By Charlie Coulter</u> Title <u>Lighthouse Dril Toolpusher</u>			Total	4,655.07

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 #
9/30/2022	6727

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

Job Date	9/30/2022
Lease Information	
Brown #15	
County	Cowley
Foreman	KM

Item	Description	Qty	Rate	Amount
C102	Cement Pump-Longstring	1	1,180.00	1,180.00
C107	Pump Truck Mileage (one way)	75	5.00	375.00
C203	Pozmix Cement 60/40	190	15.75	2,992.50T
C206	Gel Bentonite	980	0.30	294.00T
C208	Pheno Seal	380	1.55	589.00T
C201	Thick Set Cement	75	24.25	1,818.75T
C207	KolSeal	375	0.56	210.00T
C208	Pheno Seal	150	1.55	232.50T
C108B	Ton Mileage-per mile (one way)	922.5	1.50	1,383.75
C421	5 1/2" Latch Down Plug	1	285.00	285.00T
C661	5 1/2" AFU Float Shoe	1	364.00	364.00T
C504	5 1/2" Centralizer	7	59.00	413.00T
C222	KCL	1.5	32.00	48.00T
D101	Discount on Services		-146.94	-146.94
D102	Discount on Materials		-362.34	-362.34T

*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

<b>Subtotal</b>	\$9,676.22
<b>Sales Tax (6.5%)</b>	\$447.49
<b>Total</b>	\$10,123.71
Payments/Credits	\$0.00
<b>Balance Due</b>	\$10,123.71

**PAID**  
 26666 10-5-22  
 ck. total 14,778.78

**PAID**  
**ELITE**

IDC



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



Lighthouse  
 DR19  
 R19 1

**Cement or Acid Field Report**

Ticket No. **6727**  
 Foreman Kevin McCoy  
 Camp EUREKA

API # 15-035-24773

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
9-30-22	1019	BROWN # 15	2	345	SE	Cowley	Ks
Customer			Unit #	Driver	Unit #	Driver	
W. D. Short Oil Company			104	ALAN M.			
Mailing Address			112	Steve M.			
P.O. Box 729			114	SHANNON F.			
City	State	Zip Code					
Oxford	Ks	67119					

Job Type Longstring Hole Depth 3435' Slurry Vol. 43 BBL LEAD Tubing \_\_\_\_\_  
24 BBL TAIL  
 Casing Depth 3425' K.B. Hole Size 7 7/8 Slurry Wt. 12.8" - 13.8" Drill Pipe \_\_\_\_\_  
 Casing Size & Wt. 5 1/2" 15.50" Cement Left in Casing 0' Water Gal/SK \_\_\_\_\_ Other \_\_\_\_\_  
 Displacement 83.5 BBL Displacement PSI 1100 Bump Plug to 1600 PSI BPM \_\_\_\_\_

Remarks: Safety Meeting: Rig up to 5 1/2 casing. Break Circulation w/ 10 BBL Fresh water. Mixed 145 SKS 60/40 Pozmix Cement w/ 6% Gel, 2# PhenoSeal/sk @ 12.8"/gal, yield 1.66 = 43 BBL SLURRY. TAIL IN w/ 75 SKS THICK Set Cement w/ 5" Kol-Seal/sk, 2# PhenoSeal/sk @ 13.8"/gal, yield 1.80 = 24 BBL SLURRY. Wash out pump & lines. Shut down, Release Latch down plug. Displace plug to Seat w/ 83.5 BBL Fresh water. (KCL in first 20 BBL) Final pumping pressure 1100 PSI. Bump Plug to 1600 PSI. Wait 2 mins. Release pressure, Float & Plug Held. Good Circulations while Cement was coming around the shoe. Job Complete. Rig down.

Note: No Circulation first 20 BBL of Displacement.

plug R.H. & M.H.  
Centralizers on # 1, 2, 3, 4, 5, 6, 7

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 102	1	Pump Charge	1180.00	1180.00
C 107	75	Mileage	5.00	375.00
C 203	190 SKS	60/40 Pozmix Cement	15.75	2992.50
C 206	980 *	Gel 6%	.30 *	294.00
C 208	380 *	PhenoSeal 2"/sk	1.55 *	589.00
		145 SKS on Longstring 25 SKS R.H. 20 SKS M.H.		
C 201	75 SKS	THICK Set Cement	24.25	1818.75
C 207	375 *	Kol-Seal 5"/sk	.56 *	210.00
C 208	150 *	PhenoSeal 2"/sk	1.55 *	232.50
		TAIL Cement		
C 108 B	12.30 TONS	Ton Mileage 75 miles	1.50	1383.75
C 421	1	5 1/2 Latch down Plug	285.00	285.00
C 661	1	5 1/2 AFU Float Shoe w/ Latch down insert	364.00	364.00
C 504	7	5 1/2 x 7 7/8 Centralizers	59.00	413.00
C 222	1.5 gals	KCL (in first 20 BBL Displacement water)	32.00	48.00
			Sub TOTAL	10,185.50
			Less 5%	532.83
			Sales Tax	471.04

THANK YOU

Authorization By Charlie Coulter Title Lighthouse DR19 R19 1 Total 10,123.71

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- (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

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

**Drilling & Geological  
Summary Report**

**W.D.SHORT OIL CO., LLC.**

125 S. River Road /P.O. Box 729  
Oxford, Kansas 67119  
Don Short 620-218-1809

**BROWN 15**

760' FSL 1950'FEL  
2-34S-5E  
Cowley Co, Kansas  
Elevation: GL 1262' KB 1274'

**Contractor: Lighthouse Drilling**

API # 15-035-24773

W.D. Short Geologist POC Joe Baker /316-253-9696 /Email: j baker931@sbcglobal.net

**Wellsite Geologist:**

Brandon Wolfe 620-441-2704  
E-Mail: bwolfe@gmail.com

	W.D Short Brown 15 760' FSL 1950'FEL 2-34S-5E Cowley Co, Kansas E-Log Tops KB 1274'			+/-	W,D, Short Brown #13 2037'FSL 1970' FEL 2-35S-5E Cowley Co, Ks E-Log Tops KB: 1278'		COMMENTS
IATAN	1874	-600	+12		1890	-612	
STALNAKER	1930	-656	-9		1925	-647	
IOLA/Layton Lime	2343	-1069	+11		2358	-1080	
LAYTON SD	2378	-1104	+2		2384	-1106	
KANSAS CITY	2534	-1260	flat		2538	-1260	
MARMATON	2770	-1496	-2		2772	-1494	
CHEROKEE	2900	-1626	-5		2899	-1621	
MISS CHERT	3150	-1876	-8		3146	-1868	
MISS LIME	3169	-1895	-7		3166	-1888	
KINDERHOOK	NP						
ARBUCKLE	NP				3598	-2320	
RTD	3435	-2161			3503	-2225	
LTD	3437	-2163					

NP: Not Penetrated

9/26/22 Spud set 213' 85/8 @ 12:30 am 9/27/22

9/27/22 Geologist on location @ 1800'

9/28/22 1240' @ midnight

9/29/22 RTD 3435' 9:45 pm

**SHOWS:**

**Miss Chert:** 3150-60: CHT: off wht to buff, blue to gry mott, opaque, wthrd, re wrked, occ tripo, sec frac, gd vug & PP por, lt live stn, sli SFO, trc SGB, fr milky cut w/ mod hvy res rng, 5-10% brght yllw/grn flor, strng odor.

**Miss Lime**

**3168-80** LS: lt brn to buff, fn xln, dns, wthrd, chrty, sil xln incl, pyr, occ frac, occ fr interxln por, trc vug, sli SFO, trc lt stn, 5% brght yllw flor, fr odor

**3180-3200:** LS: lt brn to off wht to br, fn xln, dns, hrd, occ wthrd, sec frac, foss, cherty, frsh cht, xln incl, mstly pr interxln por to sm fr, trc lt stn, no SFO,