

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (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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HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:
C & G DRILLING INC
701 EAST RIVER ST
EUREKA, KS 67045

Invoice Date: 5/20/2024
Invoice #: 0376564
Lease Name: Joseph A
Well #: 2 (New)
County: Butler, Ks
Job Number: EP13455
District: Eureka

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
Depth Charge 0'-500'	1.000	1,000.000	1,000.00
Heavy Equipment Mileage	45.000	4.000	180.00
Light Eq Mileage	45.000	2.000	90.00
Ton Mileage	289.400	1.500	434.10
Cement Class A	130.000	20.000	2,600.00
Calcium Chloride	365.000	0.750	273.75
Bentonite Gel	245.000	0.450	110.25
Cello Flake	32.000	1.750	56.00

✓# 3225
6-18-24

Total 4,744.10

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!



Customer	C & G Drilling, Inc.	Lease & Well #	Joseph A #2	Date	5/20/2024
Service District	Eureka	County & State	Butler, KS	Legals S/T/R	14 24S 4E
Job Type	Surface	<input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD	Legals S/T/R New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	Job #
					Ticket #
					EP13455

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures					
1003	David	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging		
1203	Broker	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection		
1214	Jake	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input checked="" type="checkbox"/> Specific Job Sequence/Expectations		
		<input type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations		
		<input type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below			

Comments	
	API# 15-015-24231. RTD - 210' KB. 8 5/8" Casing set @ 200' GL.

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
D010	Depth Charge: 0'-500'	job	1.00	\$1,000.00
M010	Heavy Equipment Mileage	mi	45.00	\$180.00
M015	Light Equipment Mileage	mi	45.00	\$90.00
M020	Ton Mileage	tm	289.40	\$434.10
CP010	Class A Cement	sack	130.00	\$2,600.00
CP100	Calcium Chloride	lb	365.00	\$273.75
CP095	Bentonite Gel	lb	245.00	\$110.25
CP120	Cello-flake	lb	32.00	\$56.00

Customer Section: On the following scale how would you rate Hurricane Services, Inc.?

	Total Taxable	\$ -	Tax Rate:		Net:	\$4,744.10
Based on this job, how likely is it you would recommend HSI to a colleague? <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10	State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.		Sale Tax:	\$ -	Total:	\$ 4,744.10

HSI Representative: *David Gardner*

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

Timmy Stack

CUSTOMER AUTHORIZATION SIGNATURE



HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:
C & G DRILLING INC
701 EAST RIVER ST
EUREKA, KS 67045

Invoice Date: 5/22/2024
Invoice #: 0376567
Lease Name: Joseph A
Well #: 2 (New)
County: Butler, Ks
Job Number: EP13495
District: Eureka

Date/Description	HRS/QTY	Rate	Total
Longstring	0.000	0.000	0.00
Depth Charge 2001'-3000'	1.000	2,000.000	2,000.00
Heavy Equipment Mileage	45.000	4.000	180.00
Light Eq Mileage	45.000	2.000	90.00
Ton Mileage	425.590	1.500	638.39
Thixotropic	165.000	30.000	4,950.00
Pheno Seal	330.000	1.750	577.50
5 1/2" Floatshoe-Flapper AFU	1.000	375.000	375.00
5 1/2" LD Plug & Baffle	1.000	350.000	350.00
Centralizers 5 1/2"	6.000	60.000	360.00
Casing Swivel	1.000	150.000	150.00
KCL-CS701	1.000	30.000	30.00
Service Supervisor	1.000	275.000	275.00

✓#
3225
6-18-24

Total 9,975.89

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 1/2% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!



Customer	C & G Drilling, Inc	Lease & Well #	Joseph A #2	Date	5/22/2024
Service District	Eureka, KS	County & State	Butler, KS	Legals S/T/R New Well?	14 24S 4E <input checked="" type="checkbox"/> YES <input type="checkbox"/> No
Job Type	Longstring	<input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD		Job #	
Equipment #	Driver	Ticket #			

Job Safety Analysis - A Discussion of Hazards & Safety Procedures					
1003	David	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
1203	Broker	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
1210	Jake	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input checked="" type="checkbox"/> Specific Job Sequence/Expectations
		<input type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations
		<input type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	

Comments
 API# 15-015-24231. R.T.D.-2590' K.B. 5 1/2" Mixed Used Casing set @ 2578.32' G.L. Rotate Casing while Displacing plug. Centralizers on #1,3,4,5,6,7. 130 sks on Longstring, Plug R.H. w/ 20 sks, M.H. w/ 15 sks.

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
D013	Depth Charge: 2001'-3000'	job	1.00	\$2,000.00
M010	Heavy Equipment Mileage	mi	45.00	\$180.00
M015	Light Equipment Mileage	mi	45.00	\$90.00
M020	Ton Mileage	tm	425.59	\$638.39
CP060	H854 Thixo	sack	165.00	\$4,950.00
CP125	Pheno Seal	lb	330.00	\$577.50
FE145	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00	\$375.00
FE170	5 1/2" Latch Down Plug & Baffle	ea	1.00	\$350.00
FE125	5 1/2" Centralizer	ea	6.00	\$360.00
C040	Casing Swivel	job	1.00	\$150.00
AF055	Liquid KCL Substitute	gal	1.00	\$30.00
R061	Service Supervisor	day	1.00	\$275.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?		Net:	\$9,975.89
Based on this job, how likely is it you would recommend HSI to a colleague?		Total Taxable	\$ -
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10		Tax Rate:	
##### Card # 1 2 3 4 5 6 7 8 9 10 H (alph) # (int)		State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.	Sale Tax: \$ -
		Total:	\$ 9,975.89

HSI Representative: *David Gardner*

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

Judd Gulick

CUSTOMER AUTHORIZATION SIGNATURE



CEMENT TREATMENT REPORT

Customer: C & G Drilling, Inc	Well: Joseph A #2	Ticket: EP13495
City, State: Eureka, KS	County: Butler	Date: 5/22/2024
Field Rep: Judd Gulick	S-T-R: 14 24S 4E	Service: Longstring

Downhole Information		Calculated Slurry - Lead				Calculated Slurry - Tail			
Hole Size:	7 7/8 in	Blend:	H854,2#Phenoseal			Blend:			
Hole Depth:	2590 ft	Weight:	13.8 ppg			Weight:	ppg		
Casing Size:	5 1/2 in	Water / Sx:	9.0 gal / sx			Water / Sx:	gal / sx		
Casing Depth:	2578.32 ft	Yield:	1.85 ft ³ / sx			Yield:	ft ³ / sx		
Tubing / Liner:	in	Annular Bbls / Ft.:	bbs / ft.			Annular Bbls / Ft.:	bbs / ft.		
Depth:	ft	Depth:	ft			Depth:	ft		
Tool / Packer:		Annular Volume:	0.0 bbls			Annular Volume:	0 bbls		
Tool Depth:	ft	Excess:				Excess:			
Displacement:	63.0 bbls	Total Slurry:	43.0 bbls			Total Slurry:	0.0 bbls		
		Total Sacks:	130 sx			Total Sacks:	0 sx		

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
				-	Safety Meeting:
				-	Rig up to 5 1/2" Mixed Used Casing set @ 2578.32' G.L. w/ Rotating Head & Manifold.
4.0	100.0		10.0	10.0	Break circulation w/ 10 bbl fresh water.
5.0	100.0		43.0	53.0	Mixed 130 sks Thick Set Cement w/ 5# Kolseal/sk, 2# Phenoseal/sk @ 13.8ppg, yield 1.85 = 43 bbl slurry.
				53.0	Wash out pump and lines. Shut down. Release Latch Down Plug. Start Rotating casing.
5.0	1,100.0		63.0	116.0	Displace plug to seat w/ 63 bbl fresh water (KCL in 1st 20 bbl displacement water). Stop Rotating casing @ 55 bbl displaced.
				116.0	Final pumping pressure of 1100 psi. Bump plug to 1600 psi. Shut down. Wait 2 mins. Release pressure.
				116.0	Float and plug held. Good circulation @ all times while cementing.
				116.0	Job complete. Rig down.
				116.0	
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				116.0	
				116.0	

CREW		UNIT	SUMMARY		
Cementer:	David	1003	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Broker	1203	4.7 bpm	433 psi	116 bbls
Bulk #1:	Jake	1210			
Bulk #2:					

LOCATION AND LEGALS DATA

WellSight Systems

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

Well Name: Joseph A 2
API: 15-015-24231
Location: SE SE NW S14 T24S R4E
License Number: 32701
Spud Date: 5/20/24
Surface Coordinates: 2310' FNL 2310' FWL
Region: Butler County, KS
Drilling Completed: 5/22/24
Bottom Hole Coordinates:
Ground Elevation (ft): 1402' K.B. Elevation (ft): 1411'
Logged Interval (ft): 2000' To: RTD Total Depth (ft): 2590'
Formation: Mississippi Chert
Type of Drilling Fluid: Chemical

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

OPERATOR

Company: C & G Drilling, Inc.
Address: 701 E River St
Eureka, KS 67045

GEOLOGIST

Name: Brandon Wolfe
Company: Lone Wolf Well Logging, LLC
Address: 1016 N Biddle St
Moline, KS 67353

CONTRACTORS

Drilling Rig: (Rig 2) C&G Drilling
Drilling FLuids: C&G Drilling
Open Hole Logs: ELI Wireline
Cementing: HSI (Eureka Camp)




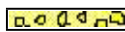






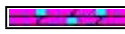



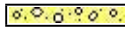



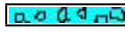


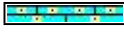


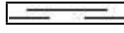

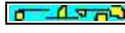



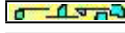





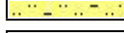






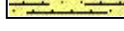
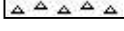

COMMENTS

5.5" production casing was set to further evaluate the Mississippi Chert

Well	Joseph A 2
G.L.	1402'
K.B.	1411'

<u>Formation</u>	<u>Sample Top</u>		<u>Log Top</u>	
Brown Lime	1733	-322	1730	-319
Lansing	1818	-407	1814	-403
Kansas City	2096	-685	2092	-681
B/ Kansas City	2247	-836	2244	-833
Marmaton	2317	-905	2313	-901
Cherokee	2436	-1025	2433	-1022
Mississippi Chert	2461	-1050	2458	-1047
Mississippi Lime	2549	-1138	2545	-1134
Kinderhook	2582	-1171	2579	-1168
Total Depth	2590	-1179	2587	-1176

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		Conglomerate		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
- Breclrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr

- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

- Sandy ls str
- Shale
- Siltstone
- Sandstone

STRINGER

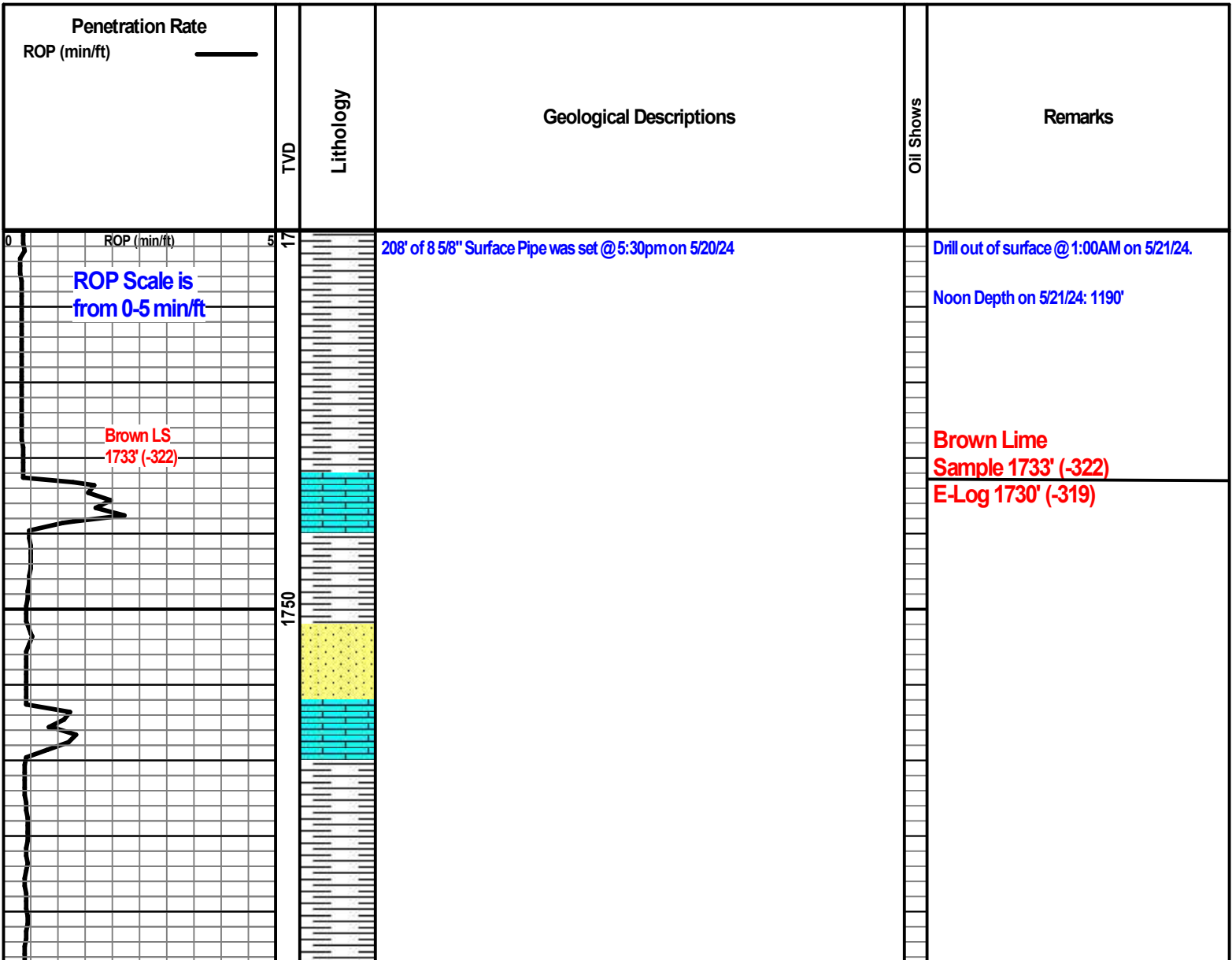
- Arkosic inclusion
- Chert inclusion
- Anhydrite
- Arkosic qtz str
- Arkosic qtz str ii
- Arkosic str
- Arkosic str ii
- Carb wash str
- Sandy carb wash str
- Coal/carb sh
- Dolomite
- Granite str
- Limestone
- Limy ss str
- Qtz wash str
- Limy qtz wash str

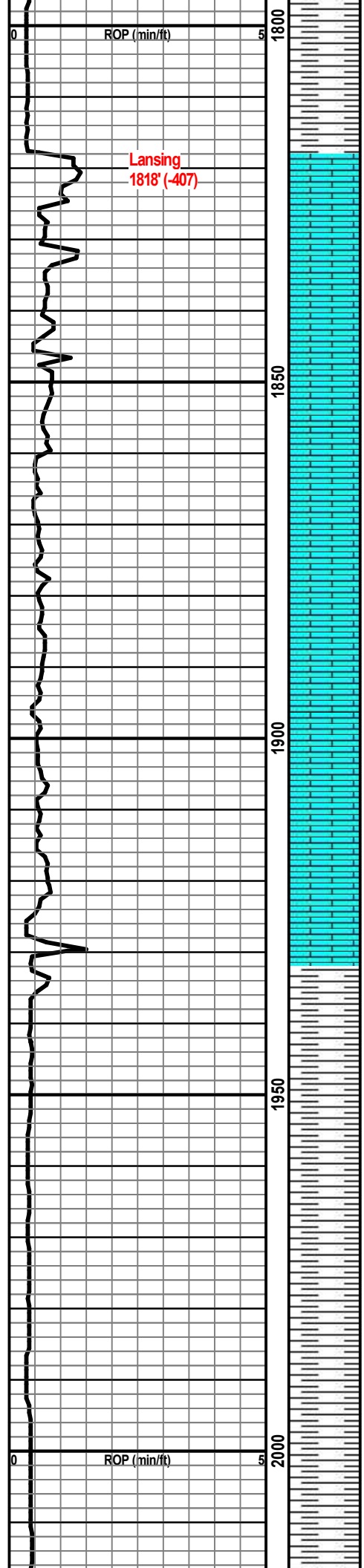
TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OIL SHOW

- Even
- Spotted
- Ques
- Gas show
- Dead



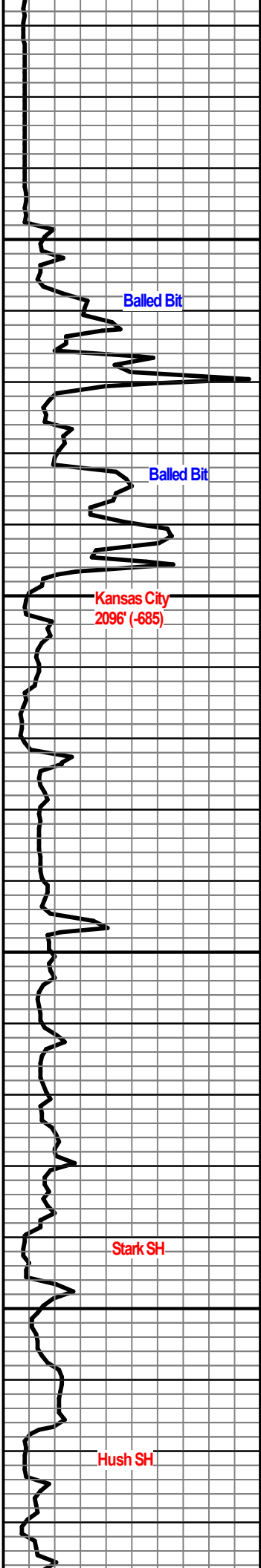


Lansing
Sample 1818' (-407)
E-Log 1814' (-403)

Start 20' Samples

SH: gry, slty, carb incl.

Wt 9.3



2050
2100
2150
2200

SH: AA.

SH: gry, chlky, sft.

SH: gry, chlky, sft, pyr.

LS: gry to lt bm to bm, fn xln, dns, sli shly IP, mstly pr vis por, NS.

SH: gry, pyr.

LS: lt bm to tan, fn to med xln, dns, wthrd, scat foss, sli chrtly, occ r interxln por, sli SFO, scat brght yllw flwr, fr odor.

LS: AAw/ NS.

LS: lt gry to gry, sm tan, fn xln, dns, foss, sli chrtly, pr vis por, NS.

LS: lt gry to tan, fn xln, dns, foss, pr vis por, NS.

SH: mstly blk, hghky carb, micro pyr.

LS: cm to lt bm to off wht, fn to med xln, dns, sli wthrd, chrtly, foss, fr interxln por, mnrl flwr, NS.

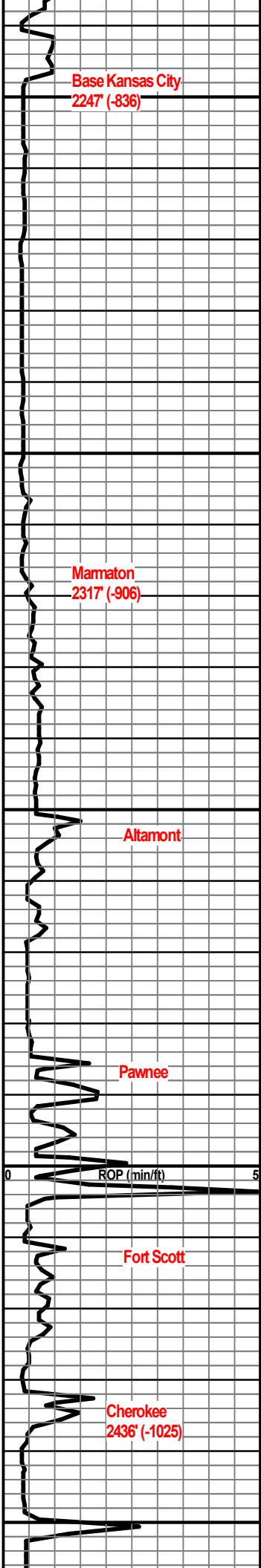
SH: mstly blk, hghky carb, micro pyr.

LS: cm to lt bm, fn xln, dns, wthrd, chlky, dolo, occ fr interxln por, brght mnrl flwr, NS.

Midnight Depth on 5/22/24: 2070'

Kansas City
Sample 2096' (-685)
E-Log 2092' (-681)

Sli Show of Free Oil
Fair Odor



Base Kansas City
2247' (-836)

Marmaton
2317' (-906)

Altamont

Pawnee

Fort Scott

Cherokee
2436' (-1025)

Base Kansas City
Sample 2247' (-836)
E-Log 2244' (-833)

Marmaton
Sample 2317' (-906)
E-Log 2313' (-902)

Cherokee
Sample 2436' (-1025)
E-Log 2433' (-1022)

Mississippi Chert

LS: mstly gry, fn xln, dns, pr vis por, NS.

SH: gry, slty, sndy, hghly lam carb strks, pyr.

SH: AA.

SH: gry to sm drk gry, sft, chlky, mshy.

SH: AA.

LS: bm to lt bm, gry, fn xln, dns, sli shly, pr vis por, NS.

Stop drilling @2632'. Circ 45min. Short trip to 1450'. Circ 45min. Drill ahead.

SH: gry, limy, calc, pyr.

LS: gry to buff, fn xln, dns, hrd, pr vis por, brght mnrl flor, NS.

SH: drk gry to sm blk, sub carb, pyr.

SH: gry to sm drk gry, sub carb, pyr.

Start 10' Samples

LS: mstly gry to lt gry, fn xln, dns, SH incl, trc foss, pr vis por, NS.

LS: AA w NS.

SH: mstly blk, hghky carb, micro pyr.

LS: mstly gry to sm bm, fn xln, dns, foss, sli chrty, pr vis por, NS.

SH: mstly blk, hghky carb, pyr.

SH: AA.

SH: drk gry to gry, sli slty, chlky.

SS: gry transl, fn to med gm, ang, sil cmnt, tght, carb incl, pyr, pr ig por, NS.

