

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



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

Well Name: Gratton 6-24
API: 15-113-21410
Location: SW SE NE SW S24-T19S-R2W
License Number: 5217
Spud Date: 8/2/24
Surface Coordinates: 1395' FSL 3114' FEL
Region: McPherson County, KS
Drilling Completed:

Bottom Hole
Coordinates:
Ground Elevation (ft): 1545' K.B. Elevation (ft): 1554'
Logged Interval (ft): 2000' To: Total Depth (ft):
Formation: Mississippi Disposal
Type of Drilling Fluid: Chemical

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

OPERATOR

Company: Koehn, Radell W. and Austin Koehn & Morgan Koehn
Address: 1977 Moccasin Rd
Galva, KS 67443

GEOLOGIST

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

CONTRACTORS

Drilling Rig: C&G Drilling Rig 2
Drilling FLuids: Mud Co (Rick Hughes)
Open Hole Logs:
Cement: HSI (Eureka Camp)

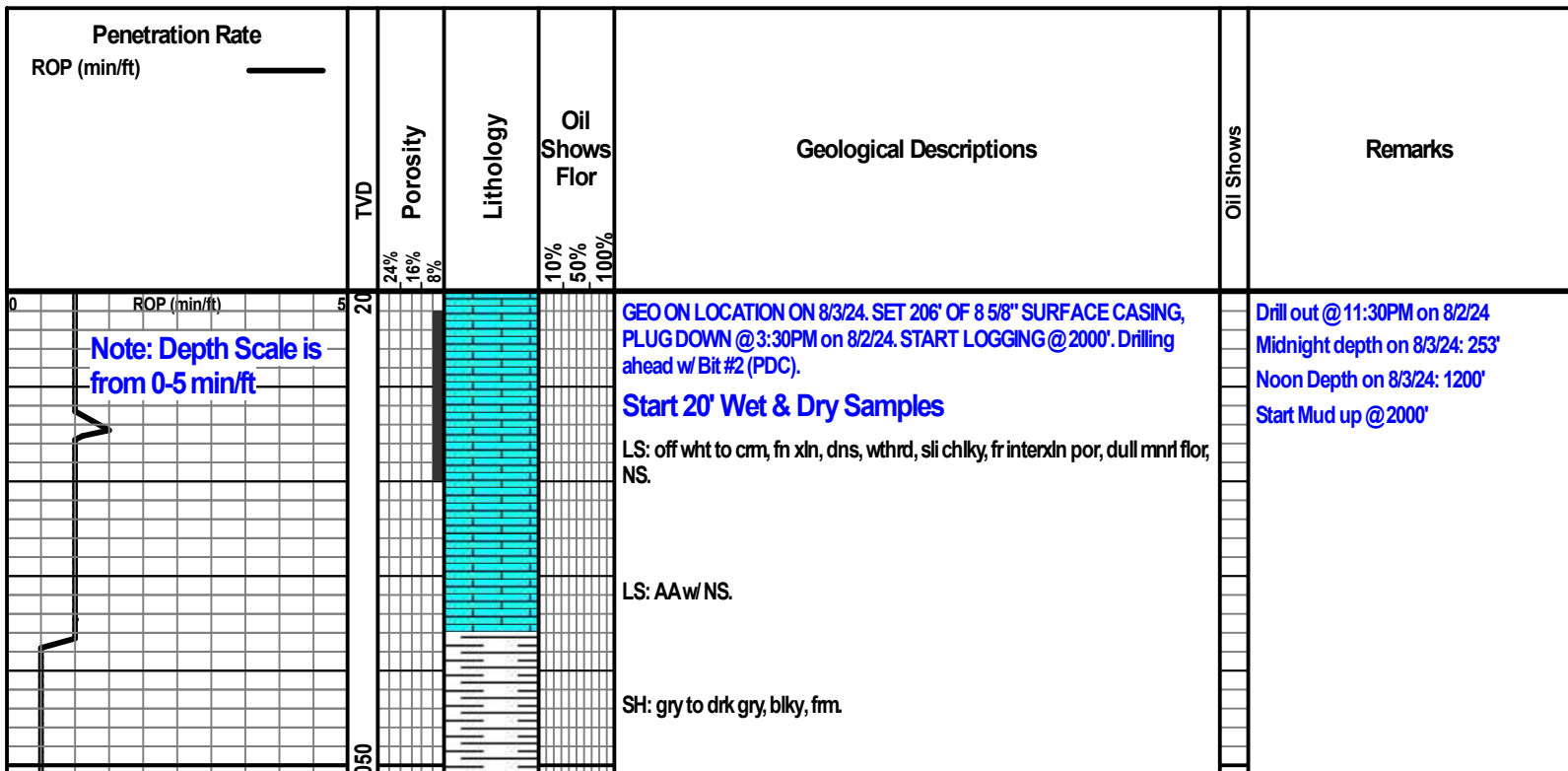
COMMENTS

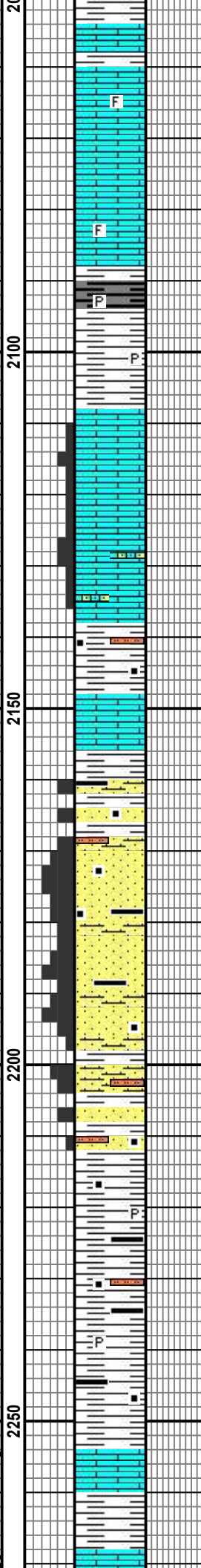
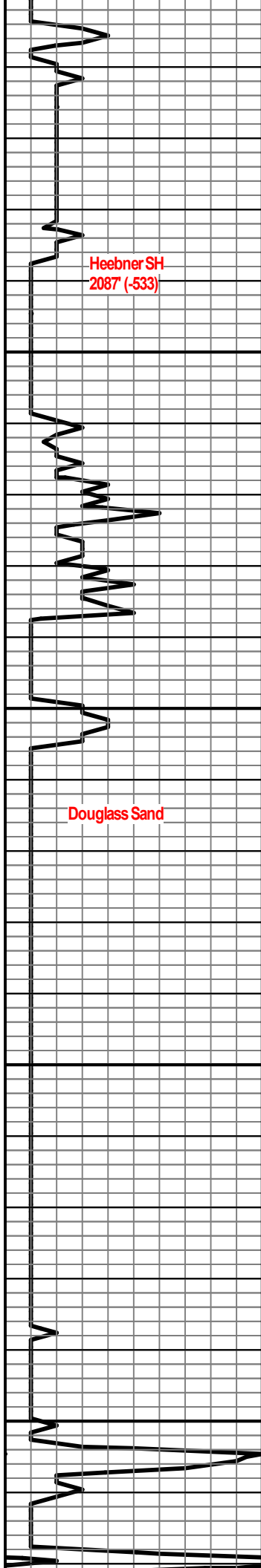
ROCK TYPES

	Anhydrite		Siltstone_ii		Shaly_Is		Shaly_sdy_carb_wa
	Arkose		Shaly_ss		Carb_shaly_Is		Shaly_limy_qtz_wa
	Ark_shale		Shaly_ss_ii		Cherty_Is		Shaly_limy_qtz_wa
	Granite		Sandstone		Chert		Limy_qtz_wash
	Coal		Shaly_limy_ss		Cherty_dolo		Limy_qtz_wash_ii
	Limy_sh		Washy_limy_ss		Dolomite		Limy_qtz_wash_iii
	Shale		Limy_ss		Limy_dolo		Qtz_wash
	Hot_shale		Sdy_Is		Conglomerate		Argil_qtz_wash
	Hot_shale_ii		Limestone		Carb_wash		Ark_qtz_wash
	Siltstone		Dolo_Is		Sdy_carb_wash		

ACCESSORIES

FOSSIL		MINERAL		STRINGER		TEXTURE	
	Algae		Anhy		Salt		Sandy ls str
	Amph		Arggrn		Sandy		Shale
	Belm		Arg		Silt		Siltstone
	Bioclst		Bent		Sil		Sandstone
	Brach		Bit		Sulphur		
	Bryozoa		Brecfrag		Tuff		
	Cephal		Calc				
	Coral		Carb				
	Crin		Chtdk				
	Echin		Chtlt				
	Fish		Dol				
	Foram		Feldspar				
	Fossil		Ferrpel				
	Gastro		Ferr				
	Oolite		Glau				
	Ostra		Gyp				
	Pelec		Hvymin				
	Pellet		Kaol				
	Pisolite		Marl				
	Plant		Minxl				
	Strom		Nodule				
			Phos				
			Pyr				





LS: lt bm to bm, fn xln, dns, sil incl in sec frac, pyr, trc foss, pr vis por, NS.

F

LS: buff to lt bm, fn xln, dns, pr vis por, NS.

F

SH: blk, fm, carb, micro pyr.

P

SH: drk gry to gry, pyr.

P

LS: mstly off wht to cm, fn xln, dns, sli wthrd, sm chiky, xln incl, sm fr interxln por, dull to brght mnrl flor, NS.

LS: AA w/ occ sndy bxt, fr interxln por, NS.

SH: gry to sm drk gry, blk, carb incl, sli slty.

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

SH: gry to sm drk gry, blk, carb incl, sli slty, lam sndy lns.

SS: mstly med gry, vry fn to fn gm, wll srted & cmntd, sli calc mtrx, lam carb strks & incl, scat limy lns, glac, mstly fr to sm gd ig por, NS.

SS: AA w/ gd ig por, NS.

SH: lt gry to gry, vry slty, sndy, lam carb strks, occ limy w/ LS stmgrs, micro emb pyr.

P

SH: AA.

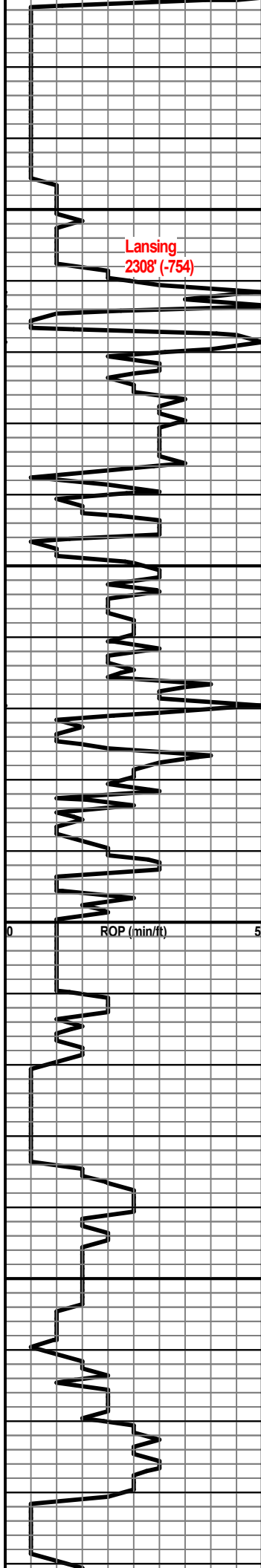
P

LS: cm to lt bm, fn to vry fn xln, dns, scat foss, trc foss, pr vis por, NS.

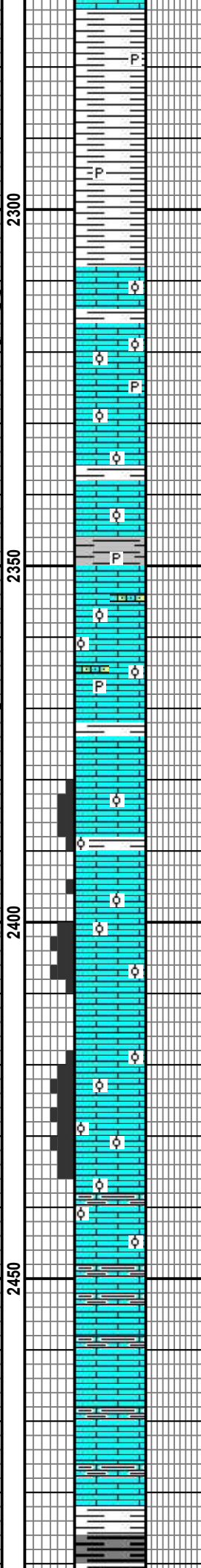
Midnight depth on 8/4/24: 2080'

Heebner SH
2087' (-533)

Wt 9.4
Vis 34



Lansing
2308' (-754)



SH: gry to red, sft, chlky, pyr, wshs drty red.

SH: AA.

LS: cm to off wht, fn xln, dns, ool foss, pr vis por, NS.

LS: cm to off wht to lt gry, fn xln, dns, ool foss, pyr, pr vis por, NS.

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

LS: gry to lt gry to bm, fn to vry fn xln, dns, ool foss, sli sndy txt, mstly pr vis por, dull mnrf flor, NS.

LS: lt bm to bm, cm to buff mott, fn xln, re xln, dns, ool foss, clr qrtz incl, sec frac, pyr, fr interxln por, NS.

LS: cm to lt bm, fn to med xln, re xln, dns, wthrd, hghly ool, occ sndy txt, scat clr qrtx, sli chrty IP, micro emb pyr, fr interxln por, brght mnrf flor, NS.

LS: lt bm to cm to lt gry, fn xln, re xln, dns, wthrd, hghly ool, sndy txt, pyr, xln incl, mnrf flor, NS.

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

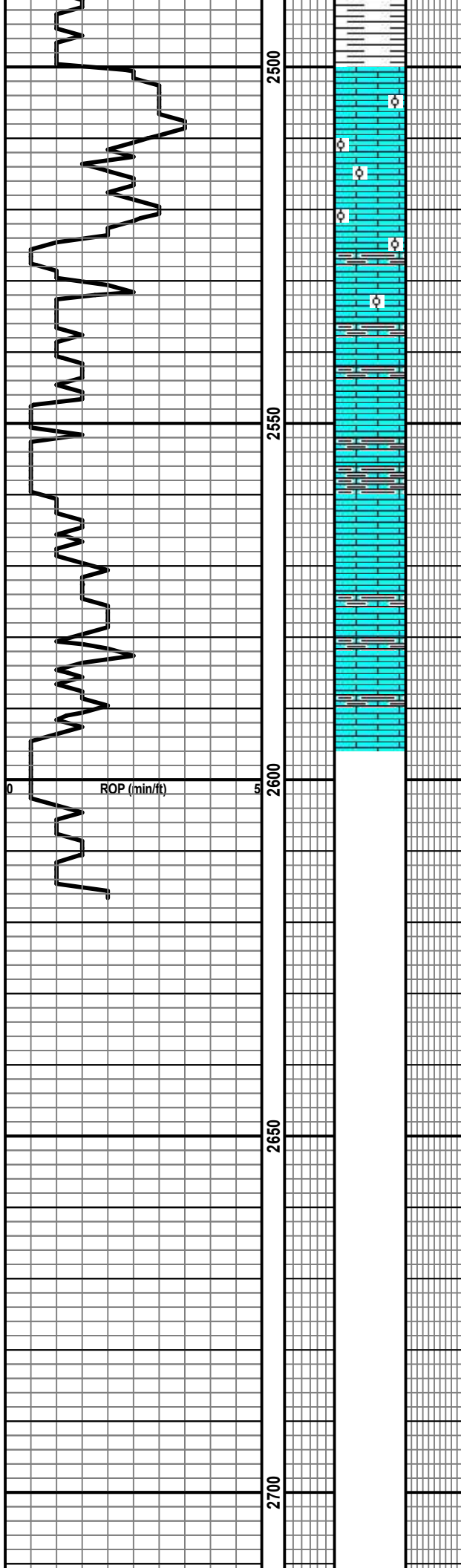
LS: AAw NS.

SH: drk gry to blk, carb, blkv, micro pyr.

Wt 9.2
Vis 38
LCM 1

Lansing
2308' (-754)

Mud Co Check
Wt 9.1
Vis 37
Filtrate 14.8
Chlorides 2,600
LCM 2



LS: lt bm to lt gry, fn xln, dns, re xln, corar, foss, mstly pr vis por, NS.

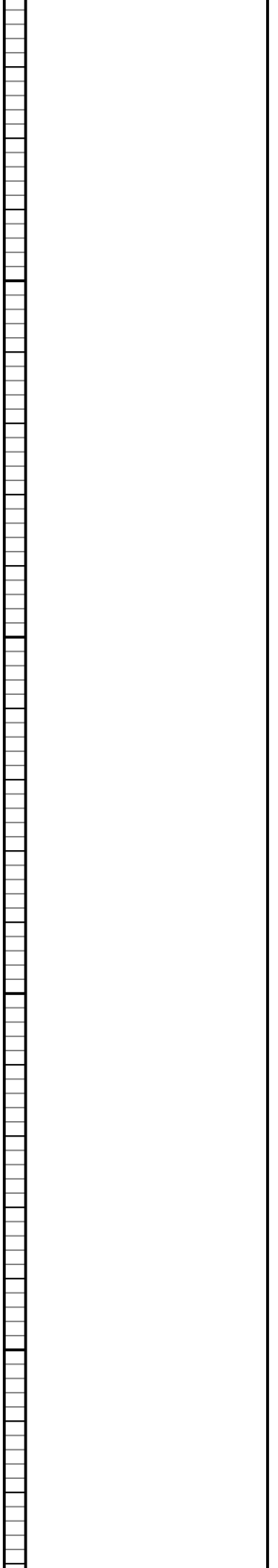
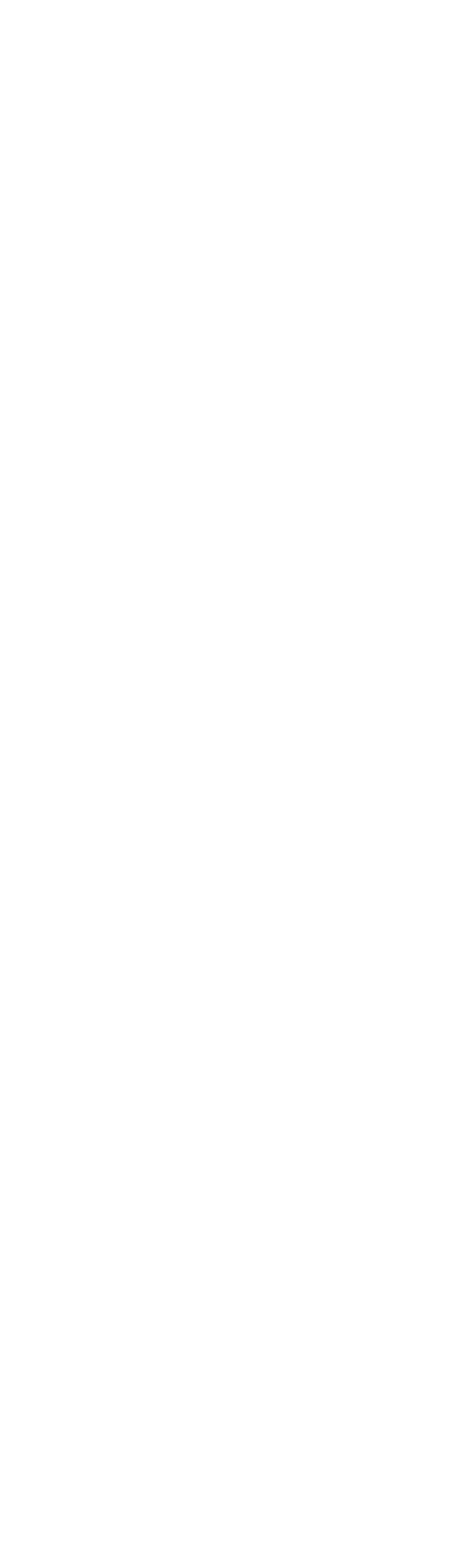
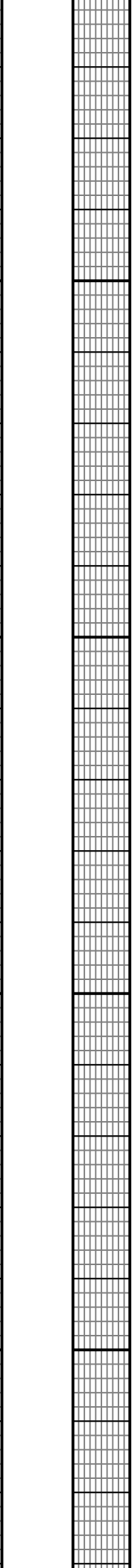
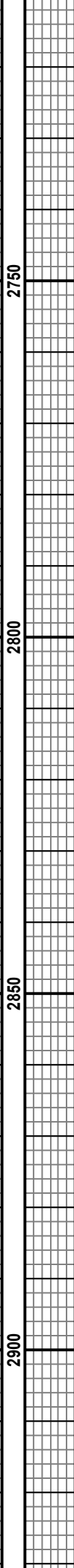
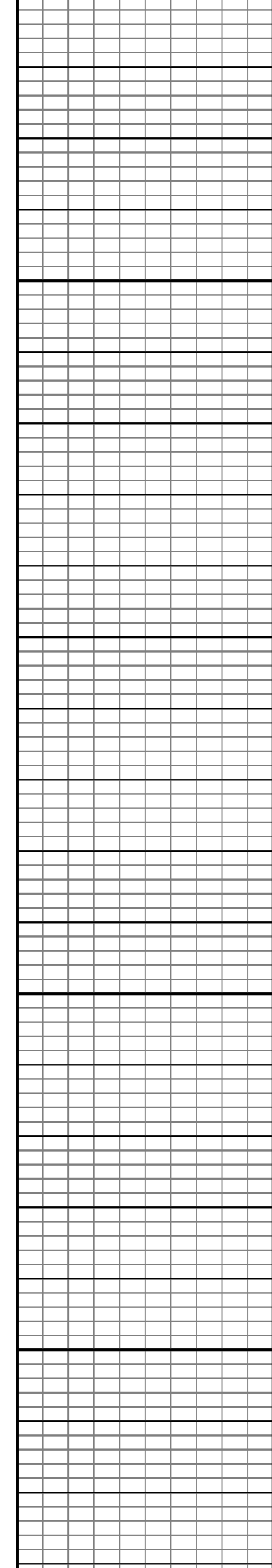
LS: AAw/ pr vis por, NS.

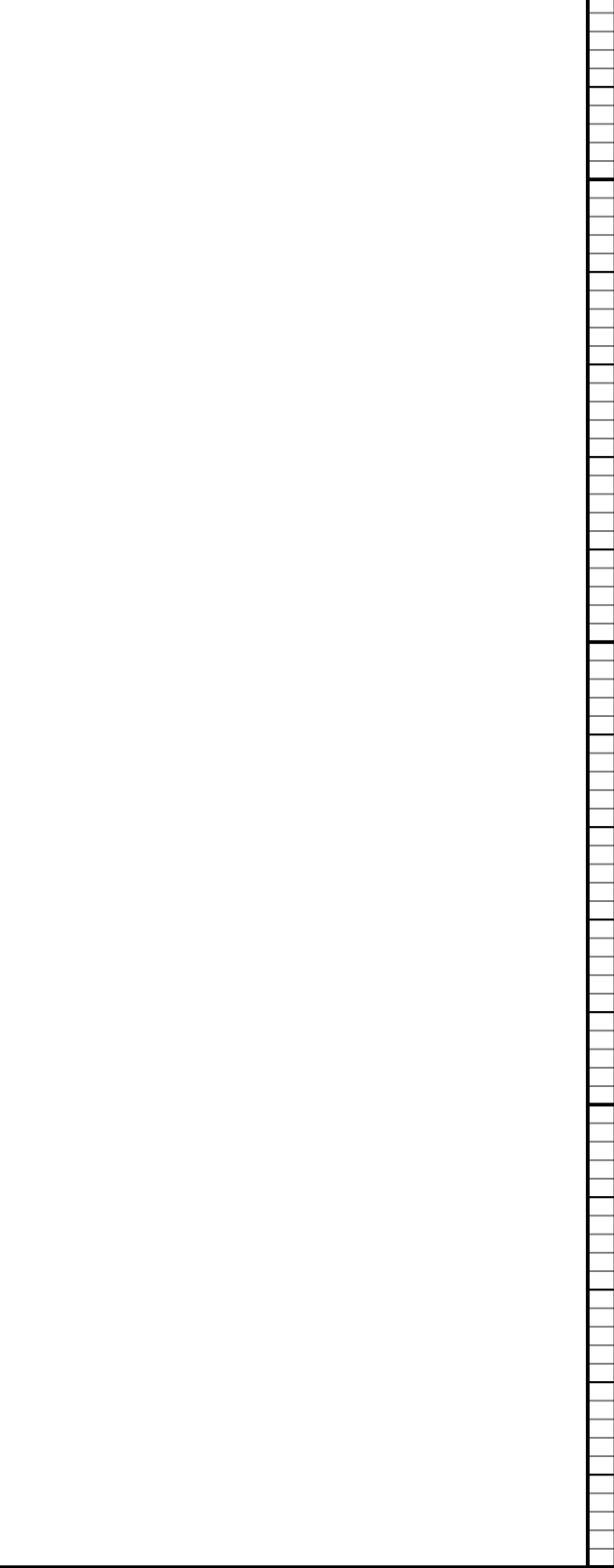
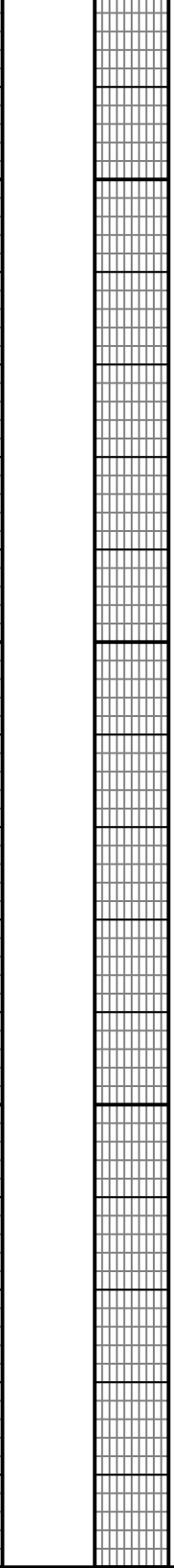
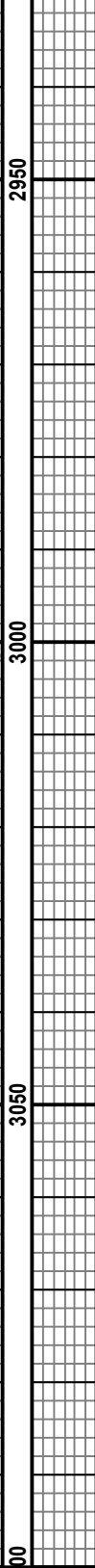
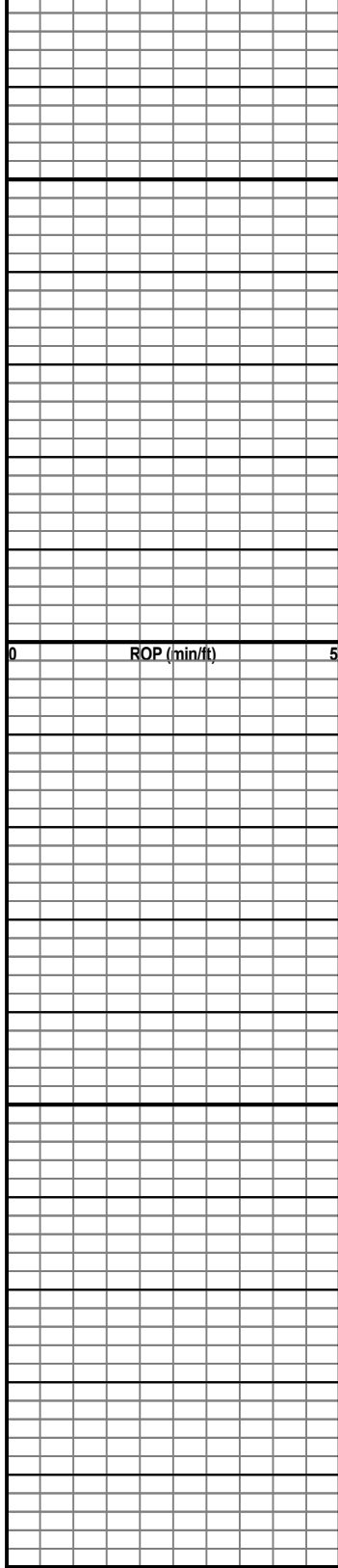
LS: tan to buff, fn xln, dns, sli shly IP, pyr, pr vis por, NS.

LS: mstly buff, fn to vry fn xln, dns, shly LS incl, pr vis por, NS.

LS: AAw/NS.

Noon Depth on 8/4/24: 2565'







TREATMENT REPORT

Customer: Koehn, Radell W.	Well: Gratton #6-24 SWD	Ticket: EP14478
City, State:	County: McPherson	Date: 8/5/2024
Field Rep: Radell Koehn	S-T-R: 24 19S 2E	Service: Longstring

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	3100 ft
Casing Size:	5 1/2 in
Casing Depth:	2983 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	DV Tool
Tool Depth:	2000.61 ft
Displacement:	71.8 bbls

Calculated Slurry - Lead	
Blend:	Thick Set Cement
Weight:	13.8 ppg
Water / Sx:	9.0 gal / sx
Yield:	1.87 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	45.0 bbls
Total Sacks:	135 sx

Calculated Slurry - Tail	
Blend:	60/40 Pozmix Cement
Weight:	13.2 ppg
Water / Sx:	gal / sx
Yield:	1.68 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	109.0 bbls
Total Sacks:	365 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
					- Safety Meeting:
					- RTD - 3100' KB. 5 1/2" 15.50# Used Casing set @ 2983' GL w/ Type A Packer Shoe on bottom, DV Tool set @ 2000.61' below GL.
					- Circulate for 1 hr w/ rig mud pump.
					- Rig up to 5 1/2" Casing. Drop brass ball. Wait 10 mins.
0.5	1,300.0		2.0	2.0	Set Packer Shoe @ 1300 psi. w/ 2 bbl fresh water.
4.0	100.0		10.0	12.0	Stage #1: Break circulation w/ 10 bbl fresh water.
5.0	100.0		45.0	57.0	Mixed 135 sks Thick Set Cement w/ 5# Kalseal/sk, 2# Phenoseal/sk @ 13.8 ppg, yield 1.87 = 45 bbl slurry.
				57.0	Wash out pump and lines. Shut down. Release Latch down plug.
5.0	700.0		71.8	128.8	Displace plug to seat w/ 71.8 bbl fresh water.
				128.8	Final pumping pressure of 700 psi. Bump plug to 1200 psi. Shut down. Wait 2 mins. Release pressure. Float & plug held.
0.5	800.0		2.0	130.8	Drop Trip bomb to open DV Tool. Wait 5 mins. Open DV Tool @ 800 psi w/ 2 bbl fresh water. Rig up to mud pump to circulate w/ mu
				130.8	Circulate w/ Mud pump. 10 bbl cement slurry returns to surface. Shut down. Jet cement to reserve pit. Start circulating.
				130.8	Circulate w/ Mud pump for 3 hrs to let 1st stage cement set up.
				130.8	Shut down Mud pump. Load Closing Plug in Head & Manifold.
4.0	100.0		12.0	142.8	Stage #2: Break circulation w/ 12 bbl fresh water.
5.0	100.0		109.0	251.8	Mixed 365 sks 60/40 Pozmix Cement w/ 6% Gel, 2# Phenoseal/sk @ 13.2 ppg, yield 1.68 = 109 bbl slurry.
				251.8	Wash out pump and lines. Shut down. Release Closing Plug.
5.0	700.0		48.0	299.8	Displace plug to seat w/ 48 bbl fresh water.
				299.8	Final pumping pressure of 700 psi. Bump plug to 1500 psi. DV Tool closed @ 1400 psi. Shut down. Wait 2 mins.
				299.8	Release pressure. Plug held. Tool closed. Good cement returns to surface = 23 bbl slurry to pit.
				299.8	Plug RH w/ 20 sks, MH w/ 15 sks.
				299.8	Job complete. Rig down.
				299.8	
				299.8	
				299.8	
				299.8	
				299.8	

CREW		UNIT	SUMMARY		
Cementer:	David	1003	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Broker	1203	3.6 bpm	488 psi	300 bbls
Bulk #1:	Danny	1213			
Bulk #2:	Danny	1212			



WELL TREATMENT REPORT

Customer: Radell W. Koehn
 City, State: 1977 Moccasin Rd Galva, Ks 67443
 Field Rep: N/A

Well: Gratton # 6-24
 County: Mcpherson, Ks
 S-T-R: 24 19S 2W

Ticket: EP14448
 Date: 8/2/2024
 Service: Surface

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	222 KB ft
Casing Size:	8 5/8 in
Casing Depth:	206 GL ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	12.5 bbls

Calculated Slurry - Lead	
Blend:	Class A Cement
Weight:	15.0 ppg
Water / Sx:	6.5 gal / sx
Yield:	1.35 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	30.0 bbls
Total Sacks:	125 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
					- Safety Meeting:
					- TD of 12 1/4" well bore = 222' KB
					- 8 5/8" casing set @ 206' GL
					- Rig up to 8 5/8" casing
					- Break circulation w/ 10bbl fresh water
					- Mixed 125sx Class A Cement w/ 3% CaCl, 2% gel, 1/4# cello-flake/sx @ 15#/gal, yield 1.35 = 30bbl slurry
					- Displace w/ 12.5bbl fresh water
					- Shut casing in
					- Good cement returns to surface = 9bbl slurry to pit
					- Job Complete, Rig down

	CREW		UNIT	SUMMARY		
				Average Rate	Average Pressure	Total Fluid
Cementer:	Kevin M		1212	0.0 bpm	- psi	- bbls
Pump Operator:	Alan M		1201			
Bulk #1:	Trey M		1004			
Bulk #2:						