

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)</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	Griffin, Charles N.
Well Name	KAMBER #1
Doc ID	1719479

Tops

Name	Top	Datum
Heebner Shale	3411	-1649
Brown Lime	3603	-1841
Lansing	3618	-1856
Stark Shale	3884	-2122
B/KC	3978	-2216
Miss	4067	-2305
Viola	4294	-2532
Simpson Shale	4423	-2661

QUALITY WELL SERVICE, INC.

8236

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-786-6992

Fax 620-672-3663

Todd's Cell 620-388-4967

Brady's Cell 620-727-6964

Date	3-2-23	Sec.	30	Twps.	27S	Range	11W	County	PRATT	State	Ks	On Location		Finish					
Lease	KAMBER	Well No.	1	Location		CAIRO KS N to 2nd CATTLE GUARD													
Contractor	Martin D&G E.G 104	Owner	N W into																
Type Job	Cond	To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.																	
Hole Size	17 1/2	T.D.	46'																
Csg.	13 3/8	Depth	46'																
Tbg. Size		Depth																	
Tool		Depth																	
Cement Left in Csg.		Shoe Joint																	
Meas Line		Displace	5 Bbl																
EQUIPMENT										Cement Amount Ordered						150 sc Common			
Pumptrk	8	No.		2' GEL 3' CC 1/2" PSI															
Bulktrk	15	No.		Common 60%															
Bulktrk		No.		Poz. Mix															
Pickup		No.		Gel. 113"															
JOB SERVICES & REMARKS										Calcium 169"									
Rat Hole										Hulls									
Mouse Hole										Salt									
Centralizers										Flowseal 30"									
Baskets										Kol-Seal									
D/V or Port Collar										Mud CLR 48									
Run 1 at 13 3/8 545' csg set @ 46'										CFL-117 or CD110 CAF 38									
START Csg csg on Bottom										Sand									
flood up to csg - break circ w/air										Handling 65									
START Pumping H2O										Mileage 15/3750									
START mix Pump 60% Common										FLOAT EQUIPMENT									
2' GEL 3' CC 1/2" PSI 15' GAL										Guide Shoe									
START DISP										Centralizer									
close valve on csg										Baskets									
6000 cizc thru JO3										AFU Inserts									
circ cmt to PIT										Float Shoe									
										Latch Down									
										SERVICE Spw 1 EA									
										LMV 15									
										Pumptrk Charge Cond									
										Mileage 30									
I THANK YOU																Tax			
PLEASE CALL AGAIN																Discount			
TODD BRADY NOTE																Total Charge			
Signature																			

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Date	Sec.	Twp.	Range	County	State	On Location	Finish		
3-3-23	30	27S	11N	PRATT	Ks				
Lease	Lamber		Well No.	1				Location	Cairo, Ks 7.5 N W: N. 1/4
Contractor	Martini D&K Rig #104			Owner				To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Type Job	SURFACE			Hole Size				12 1/4	
Hole Size	12 1/4			T.D.				755'	
Csg.	8 5/8			Depth				260'	
Tbg. Size				Depth					
Tool				Depth					
Cement Left in Csg.				Shoe Joint				30'	
Meas Line				Displace				14.72	
EQUIPMENT				Cement Amount Ordered				3005x Common	
Pumptrk	3	No.		21 CEL 3" CC 1/2" IS USED 2254					
Bulktrk	7	No.		Common 2255					
Bulktrk		No.		Poz. Mix					
Pickup		No.		Gel. 423#					
JOB SERVICES & REMARKS				Calcium 634#					
Rat Hole				Hulls					
Mouse Hole				Salt					
Centralizers				Flowseal 113'					
Baskets				Kol-Seal					
D/V or Port Collar				Mud CLR 48					
Run 6 ft's 8 5/8 2 3/4" CSG SET @ 260				CFL-117 or CD110 CAF 38					
START CSG CSG on Bottom				Sand					
Hook up to CSG BREAK CIRC W/CSG				Handling 243					
START Pumpmix H2O				Mileage 15/3750					
START MIC. Pump 2255x Common				FLOAT EQUIPMENT					
2 1/2 CEL 3" CC 1/2" IS 19.8' CAL				Guide Shoe					
START DISO				Centralizer					
PUSH DOWN				Baskets					
Close valve on CSG 147 lbs 100'				AFU Inserts					
6000 CIRC thro JOBS				Float Shoe					
CIRC OUT TO PT				Latch Down					
THANK YOU				SERVICE SPV 1 EA					
PLEASE CALL AGAIN				LWI 15					
TODD NATE PAGE				Pumptrk Charge SURFACE					
Signature				Mileage 30					
				Tax					
				Discount					
				Total Charge					

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8246

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Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish		
3-8-23	30	27S	11W	PRATT	Ks				
Lease	KAMBER		Well No.	1				Location	CAIRO, KS 1 N W N. 146
Contractor	Muefem Dalg Dia # 104			Owner				To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Type Job	5 1/2 LS			T.D.				4485	
Hole Size	7 7/8			Depth				4483	
Csg.	5 1/2			Charge To				Griffin	
Tbg. Size				Depth					
Tool				Depth					
Cement Left in Csg.				Shoe Joint				6.83	
Meas Line				Displace				106.53	
EQUIPMENT				5 1/2 Volseal, 6% C16A, 25% CAIP, 25% SA					
Pumptrk	8	No.		Common				175 ex	
Bulktrk	10	No.		Poz. Mix					
Bulktrk		No.		Gel.				394 #	
Pickup		No.		Calcium					
JOB SERVICES & REMARKS				Hulls					
Rat Hole	30x			Salt				964 #	
Mouse Hole				Flowseal				44 #	
Centralizers	1-2-3-4-5-6-7			Kol-Seal				375 #	
Baskets				Mud CLR 48				500 GAL	
D/V or Port Collar				GFL-117 or GD110 CAF 38				C16A 99 #	
Run 106 ft's 5 1/2 15.5 csg SET 4483				Sand				CC-1 9 GAL CAIP 41 #	
START CSG CSG on Bottom TAG				Handling				217	
Hook up to CSG DROP BALL BREAK CIRCULAR				Mileage				1573750	
START Pumping 10 Bbls H ₂ O 12 Bbls MF 10 Bbls H ₂ O				FLOAT EQUIPMENT					
START Plug B-H 30x				Guide Shoe				HIM 1EA	
START MIX: Pump 145 ex Proc'd CSG @ 14.8% GAL				Centralizer				7EA	
SHUT DOWN WASH P-TRK RELEASE 5 1/2 L.O Plug				Baskets					
START Disp w/ 2% KCL				AFU Inserts					
- LIFT PSI 550° 90 Bbls out				Float Shoe					
- Plug DOWN 107 out 1200°				Latch Down				1EA	
- PSI up CSG 1700°				SERVICE SQN				1EA	
- RELEASE! HELD 1/2 Bbl BACK				LMI				15	
GOOD CIRC THE JOB				Pumptrk Charge				LS	
THANK YOU				Mileage				30	
PLEASE CALL AGAIN				Tax					
TODD BRADY NATE				Discount					
X Signature				Total Charge					

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

Well Name: Kamber #1
 API: 15-007-22564
 Location: T27S R11W Sec 30
 License Number: 33936
 Spud Date: 3/2/2023
 Surface Coordinates: 2169' FNL & 1264' FEL
 Region: Pratt County, KS
 Drilling Completed: 3/7/2023

Bottom Hole Vertical Wellbore
 Coordinates:
 Ground Elevation (ft): 1757' K.B. Elevation (ft): 1762'
 Logged Interval (ft): 3400' To: 4485' Total Depth (ft): 4485'
 Formation: Ordovician (Simpson) @ RTD
 Type of Drilling Fluid: Mud-Co. Chemical Drispac - Displaced @ 2801-23' w/ 700 bbls
 Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Griffin Management, LLC
 Address: 126 S. Main
 Pratt, KS 67124

GEOLOGIST

Name: Eli J. Felts
 Company: Griffin Management, LLC
 Address: 126 S. Main
 Pratt, KS 67124

Pipe Setting

13.375" Conductor Casing Set @ 46' w/ 60 sxs Common
 8.625" Surface Casing Set @ 260' w/ 225 sxs. Common
 5.5" Production Casing Set @ 4483' w/ 145 sxs. Common

Lithology	MD	Rate of Penetration ROP (min/ft) Gas (units)	Geological Descriptions	DS Ts/Mud/Surveys, etc.
	3350			
	3400		SH - abundant flood dark earthy shales; brown to black in some w smooth to silty texture; silty compacted w/oa soft non-fissile break; some silty visible mineral shimmers; no vis gas	
	3400		LS - cm to 1/2 in; fine xln in most w some med xln vis; mst smooth to silty texture; well compacted & dense; poorly visible pores; light to chalky	
	3400		SH - dark; deep brown to black; earthy & organic; increasing density; fissile in some w visible laminations & slight gas show along bedding planes; carbonaceous	
	3450		LS - white, fine xln w silty texture to chalky; visible dissolution & intra foss pores in part; barren w no odor, ns; abdt shales; dark in most w some fr brown to green greys; interbedded to marbled, webbed	
	3450		SH - flood pale green to grey sandy shale; imbedded w abdt qtz grains, clear w mostly frosted; semi-translucent in some; fine grains w poorly visible intragrain pores; shalebound	
	3450		SH - flood varshades grey; lt to med grey w some dark marbled streaks; silty smooth Douglas type shales	
	3450		SH - picking back up into sandy shales; marbled ~50% silt to sandy content	
	3500		Sandy shale - appears lt grey to cream, fine grained qtz w frosted semi-translucent grains; sb angl; partly friable; dark grey to black speckled inclusions; barren; some visible mineral and shale fragment inclusions	
	3500		SH - lt grey to cream w speckled inclusions; sandy to silty; no significant changes	
	3550		Sandy to silty shales; lt grey to cream; most pcs w sand content in some % barren porosity otherwise shalebound; no odor, ns	
	3550		Sandy SH - cream to pale green, pale grey, fr grained sb angl; semi-translucent to frosted grains; silty increasing friability; barren grains	
	3550		SH & Sandy Shales, varicolored greys w cream sand grains; fr-med grain sil angular; partly frosted; friable to shaly in sm; no odor, ns	
	3600		LS - tan to brown, v. fine to micro-xln; cherty, smooth texture w sharp glassy breaks; spotted cream foss inks in part; v. well compacted, dense	
	3600		LS - cream to lt tan w some grey to lt brown; fine & med xln w silty texture to partly foss texture; slight vis porosity developed w poor reservoir quality; partially fractured; no odor, ns	
	3650		LS - cream to tan, brown; some dark marbled staining; fine xln in most w some vis fractured porosity; 1 pc w slight show lt brown oil on break; v. slight odor; no visible fluores	
	3650		LS - cream to tan w some brown; webbed fractures w mineral staining; sm interbedded brown to grey shales	
	3650		LS - cream to tan, buff; sm tan to brown, fr xln w fair to well compacted w limited visible porosity; some grey to brown shales; no odor, ns	
	3700		LS - cream to tan, brown, fr to v. fine xln; smooth well compacted; dense; poorly vis pores; no odor, ns	
	3750		LS - cream to tan, brown, fr in xln avg; vis dark staining along edges w transitional shale contacts & fractured; broken edges	
	3750		LS - cream to white, fine xln in most w smooth to chalky texture overall; few w vis xln & slight intrafoss pores; some loose gummy sticky chalk/clays	
	3800		LS - cream to beige; lt tan to grey, fine to med xln w some vis xln & foss; intrafoss-oo porosity; barren; dense to partly friable w oa poorly dev reservoir qualities; scattered grey & brown shales; no shows	
	3800		LS - cream to buff, fine-med xln w increasing visible pores; ooc-oom w fair inter-connected porosity; friable in some w others dense; chalky to barren break; no odor, no shows	
	3850		LS - white & cream, fine-med xln w varied vis xln & some intrafoss pores; heavily chalky in many w some loose chalky to gummy pcs; fair friab; no odor, ns	
	3850		LS - cream to beige; pale grey in part; fine xln in most w pred lithographic smooth appearance; blocky w sharp edges & oa well compacted; poorly dev pores; no odor, ns	
	3850		LS - cream to beige; buff, sm lt grey to white; fine xln in most w sm med xln; smooth texture in most w poorly dev vis pores; silty chalky w loose friable easy break; no odor, ns; lithographic	
	3900		LS - cream to lt tan, brown; fine xln in most w some vis xln pores; tan phipoint w dark staining in v. poorly developed porosity; slight odor in cup; no fluor, ns	
	3900		LS - cream to tan, fine to med xln w increasing cup odor; slight increase pp porosity w dark spotty shows on break; ~5% dull yellow fluor w limited pos w shows; clingy to flasky in most; trace live show	
	3950		LS - cream to lt tan, silty grey; fine xln in most w some silty to tripolitic appearing porosity; oa limited visible porosity w transition to shaley; few pcs grey to brown silty shales	
	3950		LS - cream to grey, beige/buff; fine xln in most w smooth texture in most; sm med xln w partially shaley to foss; no odor, ns; oa lithographic	
	4000		SH - flood shales; greys, green; silty & smooth oa; sm foss inclusions; abdt dark grey to black; earthy organic - carbonaceous shales	
	4000		SH - abdt as above; transition to varicolored green to grey, maroon; mottled to speckled; Mammaton; some pale green stained LS - fr to v. fine xln smooth to silty cherty appearance; interbedded & appears reworked	
	4050		LS - varicolored w heavily stained pcs throughout; fr xln in most w pale green to purple; maroon, yellow & grey; weathered appearance w rough fractured pcs & some re-xln; transitional zone w intbd shales	
	4050		Varicolored SH & LS - abdt maroon, brick red & pale green (turquoise) ~50% shales, silty w some interbedded LS - v. fine to microxln, some CH, few stringers SS scattered throughout	
	4050		SH & LS ~50/50% w mottled maroon-green-brick red silty shales & smooth compacted LS - vln to microxln cherty; phys weathered & re-worked	
	4100		CH - white w brown & dark grey to black trapping; tripolitic & physically weathered; fair to good visible fractured porosity w tripolitic pores dev ip & re-xln dolomite; fr to med xln dol w tan to brown saturation; good odor in cup w some bleeding gas bubbles & free oil drops	
	4100		CH - cream to white w some dark staining along edges & fractures; transitioning to LS - cream to white w fr to v. fine xln transitioning from CH; oa v. well compacted & dense; odor & shows decreasing significantly appear to be cavings from zone above	
	4150		LS - cream to white; lt grey; fr to v. fine xln to micrite; poor to no visible porosity development; some visible fractures; oa very well compacted & dense; non-friable; scattered chalk & clay residues throughout	
	4150		LS - cream to buff; lt grey, fine to v. fine xln w smooth & well compacted; dense; poor to no visible porosity; silty chalky	
	4150		LS - cream to tan & brown w granular to marbled rough to oily texture; foss inclusions appear siliceous; porosity poor to non-existent; some clays appear cemented throughout matrix	
	4200		LS - cream to grey, tan-brown, fr to med xln w silty to sucrosic texture; oa lithographic & dense w some apparent clay minerals incl w mix; argillaceous	
	4200		LS - grey to brown; fine to microxln w granular to sucrosic xln dev; firm to v. dense in some w transitional micrite; others increasingly shaley w silty softer breaks & looser compaction; some loose grey to green silty shale stringers	
	4200		LS - cream to tan, brown to grey; fine xln sucrosic w increasing shale % & loose stringers; oa sample darkening w earthy organic material presence increasing; no odor, ns	
	4250		SH - flood grey to lt tan-brown shales; most appears smooth to partly silty w some vis foss intbd; varshades dark grey to green/brown	
	4250		SH - grey green to brown w smooth to blocky texture; appears well compacted and break resembles chert; some silty brittle	
	4250		SH - grey-green tan to brown, v. smooth & silty; blocky to firm w sharp conchoidal break; lithographic; no visible changes	
	4300		SH - flood greenish grey to silty brown; very smooth texture; well compacted w blocky to sharp break; smooth waxy to glassy appearance; no odor, ns	
	4300		CH - bone white to cream; porosity & friability; limited; sm cream dolomite; fr-med grained w fair vis xln vis pores; weathered; sm remains SH	
	4300		Dolomite - cream, tan to brown; fr-med xln to sucrosic xln dev; good to v. good visible xln porosity; appears partially std stain w no odor; few v. small drops fluor w v. lite HC not visible to naked eye; very good quality reservoir rocks	
	4350		Dol & Chty Dol: Dol tan to brown, fr-med xln sucrosic to partly rhomb in few semi-translucent cream clusters; oa decreasing visible porosity; CH increasing within pore spaces increased density; losing friab; ~5% pos w shows on break & slight fluor; questionable odor	
	4350		Dolomite - tan to brown, fr xln sucrosic w granular texture & fair visible porosity; dark silty clay minerals stain throughout med brown; CH - vitreous white; fairly dense w limited visible porosity; ~3-5% fluor in tray; shows nearly diminished from sample	
	4350		Dolomite - tan to brown w some white CH interbedded in some; dol fr xln sucrosic w increasing % shales to clays; some fr to v. fine xln & micrite; tan to brown smooth to silty cherty	
	4400		Dolomite - cream to white, sm buff, increasing xln size to mostly med-grained sil rhombic; soft to chalky; Flood pale green shales, mint to turquoise appearance w soft silty & poorly consolidated clays; some dolomite & sand inclusions clear to silty frosted; good friab oa; dolomite in this section w fr increase saturated stain; free oil on break; trace odor; no visible fluor	
	4400		SH - pale green, minty to turquoise; flood SS - clear; cream & white clusters; LG sb rounded qtz clear; fair sorting & v. friable oa; appears to have stained hue around clusters; poss residual staining; no odor, no fluor; no vis shows; v. faint - dull yellow fluor in ~5%	
	4450		SH - flood med brown & dark green silty to foss shales; dark speckled inclusions w silty to soft, med waxy texture; abdt SS - lt grey to cream; clt to frosted qtz w some surface & visible staining; silty show residual and dark flakey on break; no odor detected; dull yellow fluor in few	
	4450		SH - medium browns to dark green; mottled; med firm to partly waxy; blocky w re-worked appearance; abdt SS stringers present w some interbedded & several loose grains & clasts; pale grey to cream clusters semi-translucent & some frosted grains qtz; med to large grains poorly cemented; good friability oa w good vis pores; no vis shows	
	4450		SH - greys to brown; some dark green glauconitic mineral inclusions; fine xln pyrite minerals & some sandstone clusters; qtz - clear to lt frosted grains; med sil md; fair sorted w loosey cemented mtx; good friability; slight cast appears from residual staining; no odor, no shows	
	4450		SH - 85% grey to brown silty shales; smooth & silty; fairly firm to silty waxy; scattered qtz SS w finer grain size & tighter compaction; dense overall; no odor, no shows	

Griffin Management LLC

Kamber #1

03/08/2023

Started running casing at 2:30 am

Ran 106 jts 5.5" 15.5# casing. Set casing at 4483'

2' off bottom. Circulated 1hr RU Quality pumped 12 bbls mud flush, 10 bbls water and 145 sks Pro C cement with 2% gel, 10% salt and 5# Koseal. Plug down at 6:45 am
Pumped 30 Sks Cement in rathole Release rig.

03/10/2023

MIRU CCOS Rig #3 American Trucking hauled 150 Jts
2-7/8" Tubing from stock in Addie yard.

SD

03/13/2023

RU Log tech to run CBL/GR and perforate.

Top of Cement-2930'

LTD-4474'

Perfs- 4294-4301' 3 SPF

Tally and Run tubing and TR Services Model R 5.5" packer. Ran 132 jts set packer at 4274' RU swab.

- 1-FL 300' pull from 1500' rec 1200' water
- 2-FL 1250' pull from 2300' rec 500' Bad swab cup
- 3-FL 1600' pull from 2700' Rec 1100' dirty water
- 4-FL 2550' pull from 3500' Rec 950' dirty water
- 5- FL 3300' pull from Sn Rec 750' 2000' gas vapor before fluid hit surface dirty water blow after run
- 6- FL 3950' pulled from SN dry run Swab Down 23.38bbls

Made 2 Dry runs

- 1- FL 3700' pulled from SN Rec 500' dirty fluid 8% oil
- 2- FL 4150' pulled from SN dry run

Went to 30 minute runs

- 1- FL 3850' pulled from SN Rec 300' 15% oil dirty water
- 2- FL 3900' pulled from SN Rec 200' 30% oil dirty water

Rec 3.3 bbls SD

03/14/2023

SITP-70 psi

FL- 2900' pulled from SN Rec 1150' 550' free oil 55% oil

Release packer to spot acid spot acid at 4307'
Spotted 26 bbls. 24 bbls acid 2 bbls water. Pulled 1 joint set packer. Loaded hole.

Max pressure 900 psi to break

Treated 2.7 BPM 400 psi

ISIP-225 psi

Vacuum 3 minutes

Load 49.5 BBls

RU TO Swab back

1- FL 700' pull from 2000' Rec 1300' water

2- FL 1500' pull from 2800' Rec 1400' water

3- FL 1900' pull from 3200' Rec 1350' Strong acid gas
blow after run

4- FL 1800' pull from 3000' Rec 1300' 12% oil

5- FL 2450' pull from 3600' Rec 1550' 46% oil

6- FL 2800' pull from SN Rec 1700' 53% oil

Swab down 36 bbls.

1 hour swab test

1- FL 2400' pull from 3400' Rec 1000' 64% oil

2- FL 2800' pull from 4000' Rec 1250' 58% oil

3- FL 2800' pull from 4000 Rec 1250' 33% oil

4- FL 2900' Pull from Sn Rec 1000' 33% oil

5- FL 3600 ' pull from Sn Rec 650' 33% oil

Total fluid for hour 13.3 bbls

1-FL 3500' Pull from SN Rec 600' 40% OIL

2-FL 3800' Pull from SN Rec 250' 40% oil

3-FL 3800' Pull from SN Rec 350' 40% Oil

4-FL 3850' Pull from SN Rec 350' 50% Oil

Rec 6.68 bbl for hour

1-FL 3800' pull from SN Rec 250' 46% oil

2-FL 3600' pull from SN Rec 700' 40% oil

3-FL 3600' pull from SN Rec 700' 40% oil

4-FL 3750' pull from SN Rec 400' 45% oil

Rec. 8 bbls for the hour

Released packer RU swab to swab well down

Starting fluid level 1500' ending fluid level 3300' W/ a

30% oil cut swabbed back 52bbls RD Swab

TOOH W/tubing and packer shut in well shut down for night.

03/15/2023

SICP- 270 psi

Blow down to swab tank run production TIH W/

Production Tubing:

20'x2-7/8" MA -4350'

SN-4330'

134x2-7/8" @4329'

JT AVG 32.35

RU To TIH w/ pump and rods.

2-1/2"x2"x18" HRFOC SV

2'x3/4" on pump No tap tool back off tool Spiral guide

9x1-1/2" Sinker bars

100x3/4" rods

62x7/8" Rods

26'x1-¼" 14'x1-½" HF liner

Tag up space out seat pump load hole long stroke to 500 psi held Too windy to rig down

B&R Roustabout building up wellhead and pumping unit grade American trucking setting 228 pumping unit. To pump to frac tanks.

Online pumping to frac tanks 4:45pm

03/29/2023

MIRU CCOS Rig #3 To pull well to prep for frac.

TOOH W/pump and rods TOOH W/ Tubing. PU Packer RU DAMM to Hydrotest tubing in hole. Blew 1 joint Set full bore Model R At 4176' to frac. Shut in well shut down.

03/30/2023

Loaded casing W/ Tiger Chemical pump truck took 55 bbls Lease water to load held 300# bled back.

03/31/2023

RU Gore N2 To frac down tubing W/70 Q Foam slickwater

690 bbls Slickwater
40,008 lbs 20/40 sand
6,025 lbs 20/40 RC
1,123,000 SCF N2
16.9 BPM Avg Rate
19 BPM Max Rate
3153 psi Avg pressure
3572 Psi Max pressure
1443 psi ISIP
1187 psi 5 min
1145 psi 10 min
1115 psi 15 min
690 bbls Total load
RD Gore n2 will flow back in morning

04/01/2023

SITP- 1125 psi open to flow back on 14/64" choke blew down to 50 psi fluid to surface in 20 minutes pressure 340 psi Avg 22.6 bbls/hour 12% oil flowed back 270 bbls total before blowing dead over 24 hrs.

04/03/2023

Release packer run tubing into 4412' did not tag sand TOOH w/ tubing and packer run in for production.

20'x2-7/8" MA -4350'

SN-4330'

134x2-7/8" @4329'

JT AVG 32.35

RU To TIH w/ pump and rods.

2-1/2"x2"x18" HRFOC SV

2'x3/4" on pump No tap tool back off tool

9x1-1/2" Sinker bars

100x3/4" rods

62x7/8" Rods

26'x1-1/4" 14'x1-1/2" HF liner W/Rod Rotator.

Tag up space out took 9 bbls to load hang on
RD Move rig off location.