

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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QUALITY WELL SERVICE, INC.

8121

Federal Tax I.D. # 481187368

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

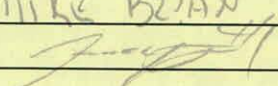
Mailing Address P.O. Box 468

Office 620-786-6992

Fax 620-672-3663

Todd's Cell 620-388-4967

Brady's Cell 620-727-6964

Date	10-7-22	Sec.	5	Twsp.	30S	Range	15W	County	BARBER	State	KI	On Location	Finish
Lease	GWEN		Well No.		41		Location						
Contractor	Murfyn D&G R.G*104						Owner						
Type Job	SURFACE						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	12 1/4		T.D.		260'		Charge To						
Csg.	95/3 23		Depth		259		Griffin						
Tbg. Size							Street						
Tool							City State						
Cement Left in Csg.			Shoe Joint		20'		The above was done to satisfaction and supervision of owner agent or contractor.						
Meas Line			Displace		15.3		Cement Amount Ordered 200 sx Common						
EQUIPMENT							2 1/2 GEL 3 1/2 CC 1/2"						
Pumptrk	8	No.					Common 200						
Bulktrk	12	No.					Poz. Mix						
Bulktrk		No.					Gel. 376"						
Pickup		No.					Calcium 564"						
JOB SERVICES & REMARKS							Hulls						
Rat Hole							Salt						
Mouse Hole							Flowseal 100"						
Centralizers							Kol-Seal						
Baskets							Mud CLR 48						
D/V or Port Collar							CFL-117 or CD110 CAF 38						
Run 6 H's 95/3 23' CSG SET @ 259'							Sand						
START CSG CSG ON BOTTOM							Handling 217						
Hook up to CSG - BREAK CIRC W/ RIG							Mileage 25 / 5425						
START PUMPING H2O							FLOAT EQUIPMENT						
START MIX & Pump 200 sx Common							Guide Shoe						
2 1/2 GEL 3 1/2 CC 1/2" PS @ 148"/CAL							Centralizer						
START DISP							Baskets						
PLUG DOWN 15.3 BBLs							AFU Inserts						
CLOSE VALVE ON CSG 150'							Float Shoe						
GOOD CIRC THIS JOB							Latch Down						
CIRC OUT TO POT							SERVICE GPN 1 EA						
							LMV 25						
							Pumptrk Charge SURFACE						
							Mileage 50						
THANK YOU PLEASE CALL AGAIN TODD MIKE BRADY							Tax						
							Discount						
							Total Charge						
X Signature 													

QUALITY WELL SERVICE, INC.

8125

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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	Sec.	Twsp.	Range	County	State	On Location	Finish
10-22	5	30S	15W	BARBER	Ks		
Lease GWEN		Well No. #1		Location			
Contractor MozFin Oelg R.G.' 104				Owner			
Type Job LS				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 7 7/8		T.D. 4922		Charge To			
Csg. 5 1/2		Depth 4924.37		CIN			
Tbg. Size		Depth		Street			
Tool		Depth		City		State	
Cement Left in Csg.		Shoe Joint 855		The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line		Displace 114.62		Cement Amount Ordered 175# PROC 21/ GAL 10/ SA 1#			
EQUIPMENT				5 1/2" Kol Seal .6" C16A 25' CAIP 25" 1/2" PI			
Pumptrk 8	No.			Common 175#			
Bulktrk 10	No.			Poz. Mix			
Bulktrk	No.			Gel. 329#			
Pickup	No.			Calcium			
JOB SERVICES & REMARKS				Hulls			
Rat Hole 30#				Salt 964#			
Mouse Hole				Flowseal 44#			
Centralizers 1-2-3-4-5-6-7				Kol-Seal 875#			
Baskets				Mud CLR 48 500 GAL			
D/V or Port Collar				CFL-117 or CD110 CAF 38 C16A 99#			
Rm 114 H 5 1/2 155' Csg SET 4921'				Sand CC-19 GAL CAIP 41#			
START Csg Csg on Bottom 1 TAG Dep Ball				Handling 217			
Hook up to Csg & BREAK Csg w/leg				Mileage 251 5425			
START Pump NG 10 Bbl H2O 12 Bbl MF 10 Bbl H2O				FLOAT EQUIPMENT			
START Plug R-H 30#				Guide Shoe H.M 1 EA			
START MKD Csg 145# PROC d 14.3" CAL				Centralizer 7 EA			
SHUT DOWN Wash pit & RELEASE 5 1/2 LD Plug				Baskets			
START Disp w/ 2 1/2" KLL				AFU Inserts			
LEFT PSI 99 wt 550'				Float Shoe			
Plug down 115 bbl wt 1100#				Latch Down 1 EA			
PSI up on Csg 1700#				SERVICE Sp 1 EA			
Release! HELD				LMV 25			
Good csg thro JOB				Pumptrk Charge LS			
THANK YOU				Mileage 50			
PLEASE CALL AGAIN							
TODD MIKE BRADY							
X Signature							
				Tax			
				Discount			
				Total Charge			

Gwen #1
Griffin Management LLC

10/13/22

LTD:4,822'

Start laying down drill pipe @ 10:30 pm. Started running casing @ 3:00 am. Ran 114 joints of new 5 1/2" 15.5 # casing totaling 4,822.37'. PBTD: 4,813.82'. Break circulation for one hour.

RU Quality well service and cemented with 145 sks Pro C cement with 10% salt, 2% gel and 6# Koseal.

Plug down and held at 7:30 am.

Plug rathole with 30 sks cement.

Drilling rig released. Will move to Alexa #3 on Friday.

10/17/22

Unload 152 jts of 2 7/8 tubing from Addie yard inventory. (Estimated 4,940')

RU CCWS Rig #1. RU log-tech and run GR/CBL.

Top of cement: 2,950'

LTD: 4,814'

Bond: Good

Will perforate 4,688'-4,702' 3HPF Tuesday morning. SDFN.

10/18/22

RU Log-Tech Wireline and perforate with a 14' gun, 3 HPF. 4,688'- 4,702'. RD Log-Tech and PU model R packer and TIH with 148 jts of 2 7/8 tubing. Spot 27.8 bbl acid 148 jts in @ 4706'.

Lay down two JTS and set packer to treat 146 JTS in @ 4641'. Used 1,500 gallons of 15 % GM blend. Treated 3 bpm 420 #. ISIP: 140 #.

Vaccume in 4 minutes.

76 bbl total acid load.

RU to swab: IFL surface. Swab down recovered 32 bbls. 2nd run off SN rec 700' 32 % OC.

Start 1 hour swab test.

1st hour made 6 runs, Rec 11 bbl @ 48 % OC

Open bypass and RU to swab. Swabbed down Rec 28 bbls. Made 6 runs off SN Rec 400' each run @ 42 % OC.

Shut in well.

10/19/22

50 # TP. Blew TP down to the tank. RU to swab: IFL @ 3,000'. Recovered 700' of free oil and 300' of water. TP dead after run.

2nd Run FL @ 3,700'. Pulled from SN, Rec 800' fluid 16 % OC.

3rd Run FL@ 3,900'. Rec 700' 28 % OC.

Swab down [Rec 12 bbls](#).

Start 1 hour swab tests.

1st hour swab test [Rec 16 bbls](#) in 7 runs. Last run Rec 400' of fluid @ 36 % OC.

2nd hour swab test Rec 6 bbls in 4 runs. Rec 375'-400' of fluid on each run @ 44 % OC.

Swabbed back a total of 32 bbls before opening bypass this morning.

Open bypass and release packer to let fluid equalize. Rig back up to swab. Swab back Rec 36 bbl @ 40 % OC. RD Swab and RO to pull packer. PU two jts of 2 7/8 tubing and scrape balls off perms. TOOH with packer and TIH with production string as follows:

1)	2 7/8" Mud-Anchor	20.02'
1)	2 7/8" Seating nipple	1.10'
8)	JTS of 2 7/8" tubing	253.92'
1)	2 7/8" Tubing-Anchor	3.00'
141)	JTS of 2 7/8" tubing.	4,475.34'

Seating nipple set @ 4,730' (28' bellow perms)
Tubing Anchor set @ 4,493'

RO to run rods and pump in hole as follows:

- 1) 2 1/2" x 2 x 14' RWBC PUMP
- 1) 2' x 7/8" pony sub
- 9) 1 1/2" x 25' K-BARS
- 100) 3/4" rods
- 79) 7/8" rods
- 26' Polished Rod

Loaded tubing with 14 bbls. Pressured up and held. Rig down. Will set a 320 sentry pumping unit with C-106 Thursday morning.

Well Name: Gwen 1
 API: 15-007-2442
 Location: NE SE SE NW of Sec. 5 Twp. 30s Rge. 15w
 License Number: 33936
 Spud Date: 10/7/2022
 Surface Coordinates: Lat: 37.464193 Long: -98.984825
 Bottom Hole Coordinates: Vertical Wellbore
 Ground Elevation (ft): 1984 K.B. Elevation (ft): 1989
 Logged Interval (ft): 3800 To: 4850 Total Depth (ft): 4822
 Formation: Ordovician (Simpson) @ RTD
 Type of Drilling Fluid: Mud-Co. Chemical Drispac - Displaced @ 2897'-2929' w/ 700 bbls
 Region: Barber County, KS
 Drilling Completed: 10/12/2022
 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

Lithology	MD	Rate of Penetration ROP (min/ft) Gas (units)	Geological Descriptions	DSTs/Mud/Surveys, etc.
	3850			
	3900		Heebner Shale 3900' (-1911')	
	3950		LS - Cm-LT Grey, cherty, FN XLN; SH - LT Grey - Brown, Chalky, MD Firm, Silty Break LS - Cm-LT Grey, cherty, FN/MD XLN, few interbedded Pcs; SH - LT Grey w/ Black Spotting, Chalky, Silty Break,	
	4000		SH - Flood LT Grey w/ Black Spotting/Streaking, Chalky, Soft Break, Silty; NO NS SH - LT Grey w/ Black Spotting, sandy/MD XLN appearance, fair vis Pors; NO NS SH - LT Grey with Black spotting, Chalky, MD Break, Silty, fewer Sandy Pcs w/ Fair Pors,	
	4050		SH - Flood, LT Grey-Black, black spotting in few, overall smoother, fewer sandy Pcs, Chalky, Silty Break, MD Firm; LS - Mostly Cm, Cherty, FN XLN; Faint Odor in cup, No shows SH - LT - Dark Grey, Few LT Gm Pcs, Smooth Chalky appearance, silty breaks, MD Firm Breaks; LS - CRM - Tan, slight Foss, Cherty, FN/MD XLN, Dark SH Surface contact	
	4100		Brown Line 4066' (-2077') Lansing 4080' (-2091')	
	4150		SH - VariColored(Red, LT Green, LT Grey) Compact, smooth, Chalky Surface, Silty Breaks, MD Firm Breaks; LS - Cm-Tan, Cherty, FN XLN, Heavy Oolite Presence, poor to no vis Pors LS - Cm-Wht w/ Grey, Cherty, FN XLN, Large Foss Presence(mostly oolite), Dense, Firm Breaks; SH - ~5%, Lt Grey, Firm Break, well compact, Silty Breaks almost sandy; NO NS	
	4200		LS - Cm - Grey, Cherty, FN XLN, Foss w/ poor vis Pors, large oolite presence, Dense, Firm Breaks; SH - LT Grey w/ few Red&Gm Pcs, Firm Breaks on Grey, Red/Gm Soft & Chalky, Fair Cup Odor, NS LS - Flood, Cm-Wht w/ few Tan Pcs, Cherty, FN XLN, Firm Break, Fair Friab, Poor Pors, Faint Odor, NS	
	4250		As above LS - Cm-Bwn, few interbedded, Cherty, Slightly sucrosic, fair friab; Dol - Wht, sucrosic, few Pcs(3%), Firm Break, Fair Friab LS - Cm-Bwn, Cherty, FN XLN, Brown M XLN, poor to no vis Pors, some interbedded Gray/Black SH, Poor Friab; NO NS	
	4300		LS - Cm-Bwn, Cherty, FN/MD XLN, Chalky, Fair Friab; few SH Pcs, Carbonaceous poor sample quality, V fine sample pcs' LS - Cm-Bwn, Chalky, soft crush, Cherty, Fair Friab LS - Cm-Bwn, Chalky, soft breaks, Cherty, FN/MD XLN, Fair Friab, few Pcs show Sucrosis; NO NS	
	4350		LS - as above; SH - LT Grey w/ slight Gm Hue, Smooth, Chalky, Soft Break; NO NS LS - Cm-Bwn, Chalky, soft crush, poor friab, Cherty, FN XLN, Fair Friab; SH - Dark Grey/Black, Carbonaceous, compact, MD Break, Fair Friab, Slightly Silty Breaks LS - Cm-Wht, Cherty, FN/MD XLN, Dense, Fair Friab, Chalky in some, poor friab; SH - LT Grey, fairly compact, MD Firm Breaks with Sharp Edge, silty on break; NO NS	
	4400		Stark Shale 4387' (-2398')	
	4450		SH - flood black earthy & carbonaceous shale; vis laminations, fissile; abdt LS - tan to brown, v. fine to microxln; smooth w/ vis fractures, v. compacted & dense; shale contacts SH - abdt deep grey, earthy & organic, soft crush w/ slight show gas; decreasing carb w/ mostly dark grey, sb carb shales; LS - mst cream & tan, med xln cream, lithographic to lt tan, micrite; dense & smooth, sharp, some pcs chert, sharp fresh; semi-translucent; LS & CH both w/ small dark shale incls LS - mst tan to camel, med to fn xln, lithographic, sl dense, some lt tan, fn to microxln; sl foss w/ trac frags, smooth txt in most w/ lmt vis pors; no shows; abdt pos w/ dark stained edges (shale contacts) & ~20% Shales, grey silty	
	4500		BKC 4456' (-2467')	
	4550		LS - cream to tan, brown, fn & med xln; dense blocky chips w/ some foss; lithographic in most w/ abdt shale contacts, sm intbd, foss grey & foss; SH - dark grey & green, varicolored to mottled in some, silty & soft LS - cream to white w/ dark spotted & webbed staining; fn-med xln w/ slight xln & fair dissolution porosity; webbed w/ dark residual staining on many edges; abdt shales, dark carb LS - cream to lt grey, fn to v. fine xln w/ mostly smooth, slightly dense w/ no porosity development; traces pcs heavily foss (oolites) well compacted, tight cementation; rare traces dark staining; overall lacks pors; stringers shales, grey & pale green, some mottled	
	4600		Pawnee Line 4538' (-2549')	
	4650		SH - flood dark brown & black shale; visible laminations; earthy & organic - carbonaceous; some LS - cream to tan, sm w/ pale green stained edges; v. fine to micrite; brick tight; no odor; ns SH - flood varicolored shales; pale green, grey, black, mottled to speckled; silty w/ interbedded carbonaceous shales; some stringer sandy; SS - fn to v. fine grained cl to frosted qtz; well md & stred; poorly friab; dense break in most w/ dark residual staining in many; no odor; no fluor; no live show, some appears tripp CH Conglomerate shales; Chert & Sandstones; abdt loose varicolored shales; mst pale green to grey, some loose, gummy, sandstone remains abdt w/ similar as; saturated dark stain; break reveals flakey specs dead oil & few "clinky" oil lodged tight in rock; questionable odor & rare, dull w/ to org flour in small specs Conglomerate; flood shales; dark green & maroon, silty smooth w/ interbedded varicolored CH & some SS; cup washes reddish brown and many shales are water sensitive; expanding into gummy globs & dissolving; CH is varicolored, vitreous but partly weathered w/ sm dark tripp stained pors in few; no odor, no live shows Congl Shales; varicolored, primarily maroon to brick red, soft & loose to gummy, sticky; cup washes reddish brown; few small pieces black; appear semi-metallic; hydrophobic w/ vis tripp pors; dead stain; sl dense; no live show	
	4700		LS - cream to buff w/ many carrying pale green hue; fn-med xln w/ some sl sucrosic texture w/ primarily chalky appearance; v. soft chalky break; no vis xln pors; sm tan CH - cream, semi-translucent; vitreous, dark speckled staining; sl weathered in some; pors vis dissol pors; no odor, ns; few silvers pale green shale LS - cream to buff & sm pale green hue, fn xln in most w/ some v. fine xln & partially cherty in some; poorly vis xln pors, sm fractured & app weathered, pale green stained & vis shale contacts; trans CH - cream w/ semi-translucent & brown speckled inclusions; vitreous; very dense, blocky & sharp; no vis pors; stringers pale green shale LS & Dolomitic LS; cream to buff w/ many pinkish & green hues; fn xln sucrosic texture w/ heavily visible chalk; mst pcs poorly compacted w/ sl vis sucrosic xln pors; cherty; breaks into powder; scattered green & brick red shales; CH - cream to buff, vitreous w/ smooth texture; no vis pors, limited weathering; rare dark tripp in few; no odor, ns Dolomite - tan to brown, fine xln in most w/ some 2ndary xln pors; appears sl cherty; blocky edges; dense; oa vis pors limited & won't break w/ tweezers; fair vis free oil float in tray w/ sl increase w/ twz pressure; fair odor in cup w/ ~15% bright yellow fluor; HCL minor increase w/ v. slow weeping milky oil out Dolomite - cream, fine xln sucrosic w/ partial friability in some, many appear sl chalky & others w/ partial cherty makeup; fair-good friability; v. slight shows visible w/out backlight; pale yellow fluor in 80% of sample; cup odor increased slightly; HCL more effective in 40' sample than 20'; no visible cut w/out HCL Dol - mostly pale grey w/ traces white; fine xln sucrosic w/ chalky appearance in most; friable w/ 1-2 pcs w/ show gassy oil on break; trace pcs w/ shows identical to lower B zone; drastic decrease in shows & odor oa; most pcs break v. easily & appear barren; 5-10% dull yellow fluor	
	4750		Dol - cm to lt tan w/ brown to dark speckled w/ some sl chalky; v. fine xln sucrosic w/ poor vis xln pors; good friab, soft break, barren w/ some sl cherty; CH - bone white & pm semi-translucent, vitreous & dense, no vis pors in chert; scattered globs white gummy Dolomite w/ heavily cherty marbling; tan to brown w/ w/ht imbedded CH; heavily textured w/ foss & re-xln dol; fair visible pors w/ good friab; appears saturated stain w/ no vis shows/no fluor/no odor LS - heavily dolomitic w/ abdt CH inclusions; white & tan to brown, marbled texture w/ rough blocky appearance; fn-med xln dol LS tan-brown appears surface stained; good friab; barren, CH incls white to bone, vitreous; dense; no odor; ns	
	4800		Simpson Shale 4780' (-2791')	
	4850		Simpson Sand 4819' (-2830')	