

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.

8199

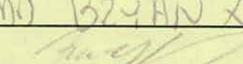
Federal Tax I.D. # 481187368

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	1-2-23	Sec.	B	Twp.	30S	Range	15W	County	BARBER	State	K	On Location		Finish	
Lease	Griffin		Well No.	C-4		Location									
Contractor	Muzfin D&G EA # 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.	9 5/8		Depth	259		Griffin									
Tbg. Size			Depth			Street									
Tool			Depth			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 290 sc Common									
EQUIPMENT												2 1/2 EL 3 1/2 CC 1/2" PS USED 225 sc			
Pumptrk	0	No.				Common 22.5 sc									
Bulktrk	15	No.				Poz. Mix									
Bulktrk		No.				Gel. 423 #									
Pickup		No.				Calcium 635 #									
JOB SERVICES & REMARKS												Hulls			
Rat Hole												Salt			
Mouse Hole												Flowseal 112.5 #			
Centralizers												Kol-Seal			
Baskets												Mud CLR 48			
D/V or Port Collar												CFL-117 or CD110 CAF 38			
Run 6 H's 9 5/8 23" CSG SET @ 259'												Sand			
ON Loc Rig RUNNING CSG												Handling 245			
CSG on Bottom												Mileage 25 / 6 / 25			
Hook up to CSG - BREAK CIRC W/IRG												FLOAT EQUIPMENT			
START PUMPING H2O												Guide Shoe			
START MIX Pump 225 sc Common												Centralizer			
2 1/2 GEL 3 1/2 CC 1/2" PS @ 14.3 #/GAL												Baskets			
START DISO												AFU Inserts			
CLOSE VALVE ON CSG 15.3 BBL												Float Shoe			
GOOD CIRC THRU JOB												Latch Down			
CIRC OUT TO P-T															
												SERVICE Spv 1 EA			
												Pumptrk Charge SURFACE			
												Mileage 50			
THANK YOU PLEASE CALL AGAIN TODD BRADY X 2															
Signature 												Tax			
												Discount			
												Total Charge			

QUALITY WELL SERVICE, INC.

8212

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Fax 620-672-3663

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Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish
1-8-23	8	30S	15W	BARBER	Ks		
Lease	Griffin	Well No.	C-4	Location			
Contractor	Murphy D&K	EA #	10A	Owner			
Type Job	5 1/2 LS	T.D.		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	Depth		Charge To			
Csg.	5 1/2 15.5"	4992.27		Griffin			
Tbg. Size	Depth		Street				
Tool	Depth		City		State		
Cement Left in Csg.	Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.				
Meas Line	Displace		Cement Amount Ordered				
EQUIPMENT			175x Pro C 2% FEL 10/SALT				
Pumptrk	8 No.			5 1/8 KOBEA 6 1/2 C16A .25% C41P 25" 5/4 PS			
Bulktrk	7 No.			Common 175x			
Bulktrk	No.			Poz. Mix			
Pickup	No.			Gel. 394'			
JOB SERVICES & REMARKS			Calcium				
Rat Hole			Hulls				
Mouse Hole			Salt 964"				
Centralizers	1-2-3-4-5-6-7		Flowseal 44'				
Baskets			Kol-Seal 875'				
D/V or Port Collar			Mud CLR 48 500 GAL				
Run	H's 5 1/2 15.5" CSG SET 2		CFL-117 or CD110 CAF 38- C16A 99"				
START CSG	CSG ON Bottom: TAG		Sand CC-1 9 GAL C41P 41"				
Hook up to CSG	DEEP BALL BREAK circ w/ 2 in		Handling 217				
START Pumping	10 Bbls H2O 1/2 Bbl MIF 10 Bbl H2O		Mileage 25/5425				
START Plug	R Hole 30%		FLOAT EQUIPMENT				
START Mix	Pump 145x Pro C d 48 1/2 GAL		Guide Shoe H.M 1EA				
SHUT DOWN	WASH UP TCK RELEASE 5 1/2 LD Plug		Centralizer				
START Disp	w/ 2% KCL		Baskets				
LIFT PS	102 Bbls at 550'		AFU Inserts				
Plug Down	118.64 Bbls 1200'		Float Shoe				
PS up	CSG 1700'		Latch Down 1EA				
Good circ	thru JOB		SERVICE Sp. 1EA				
RELEASE	HELD 1/2 Bbl BACK		LMV 25				
THANK YOU			Pumptrk Charge LS				
PLEASE CALL AGAIN			Mileage 50				
TODD BRYAN NATE							
X Signature							
						Tax	
						Discount	
						Total Charge	

Griffin Management, LLC
Griffyn 'C' #4

1/8/23

Murfin Rig 104

RTD: 4,995'

Started laying down drill pipe @ 9:30 pm

Started running casing @ 12:45 am (1/9/23)

Ran 118 joints of new 5 ½" 15.5# casing totaling 4,990'.

PBTD: 4,982.5.

RU to break circulation for one hour.

RU Quality Well Service and cemented with 175 sks Pro C cement with 10% salt, 2% gel and 6# Koseal.

Plug down and held at 5:50 am (1/9/23).

Plug rathole with 30 sks cement.

Release rig.

01/17/2023

RU Log Tech on mast trailer run CBL/GR

LTD-4984' Top of cement 3075'

01/24/2023

MIRU CCOS Rig #3 unload tubing RU Log Tech to perforate **4740-4780'** 2 SPF RD Log Tech Tally and run

tubing and 5.5 model R packer in hole. Run 150 jts 2-7/8" tubing set packer at 4698' RU swab to swab down.

FL- surface swabbed down to SN recovered 24 bbls
Shut in well shut down

01/25/2023

Tubing on vacuum rig up swab

FL-4350' dark water

Release packer run in to spot acid

RU Pro-stim to treat

circulated 750gls acid w/ 10 bbls spacer pulled packer up to 4667' to treat zone broke down at 1000 psi max rate 2.75bpm at 1050 psi treated w/ total of 2000gls 15% MCA viola blend total load 88bbls ISIP-750 psi 15 min-360 psi flowed 4bbls back to truck rigged up to swab back

1-FL-surface pulled from 1200' rec 1200'

2-FL 700' pulled from 1900' rec 1300' water

3-FL 1450' pulled from 2500' rec 1100' water

4-FL-1600' pulled from 2800' rec 1300' acid water light blow after run

5- FL 2750' pulled from 3900' rec 1350' grey foamy acid water

6- FL 3300' pulled from 4500' rec 1150' grey foamy acid water

7- FL 4400' pulled from SN rec 250' foamy acid water

Swab Down 38.25bbls

8- FL 4400' pulled from SN rec 200' acid water

9- FL 4500' pulled from Sn rec 75' acid water

Went to 30 min runs

10-FL 4400' pulled from SN rec 200' acid water

11-FL 4400' pulled from SN rec 200' acid water

Open bypass on packer equalize swab down to SN shut in well Shut down

01/26/2023

RU swab

1-FL 2500' pull from 3600' rec 1050' foamy grey acid gas cut water

2-FL 3550' pull from SN pull 1000' acid water

Release packer run packer through perfs RU swab to swab down swab down to 4000' fluid in hole lay down tubing and packer cap off well rig down release rig.

Frac scheduled for 01/31/2023

01/30/2023

RU GOOD ol boys Hot oilers to heat frac water

01/31/2023

RU Gore N2 to frac down casing W/

24 bbls 15% MCA

3650 bbls Slickwater

61,512 lbs 20/40 sand

8,084 lbs 20/40 resin coat sand

1,354,000 SCF N2

Avg rate 57.5 BPM

Max Rate 67 BPM

Avg pressure 1994 psi

Max Rate 2149 psi

ISIP- 1556 psi

15 min 1308 psi

Total Load 3674 bbls

Shut in well RU flow back

02/01/2023

SICP-800 psi open to flow on 12/64" choke 1.5 hrs to get fluid to surface. 14/64" choke.

Flowed back 42 bbls total over 3.5 hours well died
opened up on full choke
Spot rig on location.

02/02/2023

RU CCOS Rig#3

Break off frac valve install production head run in for
production.

20'x2-7/8 MA

SN

155jts 2-7/8"-4837.14'-jt avg 31.21

2-1/2"x2x18' HRSV no tap tool

2'x7/8 on pump

9x1-1/2" Sinker bars

100x3/4" rods

83x7/8" rods

26'x1-1/4" PR 14'x1-1/2" HF liner

Tag up space out pump load hole long stroke to 500 psi
held clamp off polished rod RD Move off.

02/03/2023

Set pumping unit pumping back to frac tank.

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

Well Name: Griffin C4
 API: 15-007-24460
 Location: T30S R15W Sec 8
 License Number: 33936
 Spud Date: 12/22/2022
 Surface Coordinates: 990' FSL & 2310' FWL

Region: Barber County, KS
 Drilling Completed: 1/08/2023

Bottom Hole Coordinates: Vertical Wellbore
 Ground Elevation (ft): 1940' K.B. Elevation (ft): 1945'
 Logged Interval (ft): 3800' To: 4995' Total Depth (ft): 4995'
 Formation: Ordovician @ RTD
 Type of Drilling Fluid: Mud-Co. Chemical Drispac - Displaced @ 2833-65' 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

8.625" Surface Casing Set @ 260' w/225 sxs.
 5.5" Production Casing Set @ 4992' w/ 145 sxs.

Lithology	MD	Rate of Penetration		Geological Descriptions	DSTs/Mud/Surveys, etc.
		ROP (min/ft)	Gas (units)		
	3800			LS - Cm-Lt Tan, MD/S Crush, Chalky, Few Pos Cm & Tan; SH - Few PCs Dark Black, Silty, Soft Crush	
	3850			LS - Cm-Tan, MD/Firm Breaks, Chalky, Silty Crush, Few Pos MD XLN; SH - Black, Soft Break, Silty Crush	
	3870			SH - Black-Dark Gry, Smooth, MD/Firm Breaks, Silty Crush, Sharp Edges on Break	
	3870			Heebner Shale 3870' (-1928')	
	3900			LS - Cm-Wht w/ Few Caramel Pos, Chalky, MD Breaks, Caramel Pos w/ FN XLN, Firm Breaks; SH - Black-Brown, Smooth OA, MD Breaks, Silty	
	3950			LS - Cm-Caramel, FN XLN in Few Pos w/ MD Breaks, Chalky OA, MD Breaks, Mushy-Silty Crush; SH - Black-Dark Gry, Smooth, MD/S Breaks, Silty; Few LT Gry Sandy PCs, LT Gry with Dark Granular Spotting, MD Break, Sandy Crush, Fair Vis Pos	
	3950			LS - Cm-Caramel/Lt Brwn, Cherty OA, FN XLN, MD Breaks, Few Pos Foss; SH - as above; SS - as above, ~10% sample	
	3950			SH - LT Gry Flood, Granular, MD Break, Sandy Crush; Few LS Pos, Cm-Wht, FN XLN, Foss Throughout, MD/Firm Break	
	3950			SH - Lt Gry, Granular, MD Break, Sandy, Varicolored Granular Spotting; LS - Cm, FN XLN, MD Break; SS - Buff-V. LT Gry, Good Pos, MD Breaks, Sandy	
	4000			as above	
	4000			LS - Cm, FNMD XLN, Foss Throughout, MD Breaks; SH - LT Gry, Smooth, MD Break, Silty Crush	
	4000			SH - LT gry, argillaceous, MD/Soft Breaks, Chalky, Silty Crush, Few Small Lt Gm Pos; OA Sample is very Chalky/Gummed up	
	4050			LS - Cm/Brwn, MD/Firm Breaks, FN XLN, Fair Friab	
	4050			Brown Lime 4057' (-2106')	
	4050			LS - Cm w/ Few Brwn, Ool Foss OA, Firm Breaks, Few PCs FN XLN	
	4100			LS - Cm-Brwn, Few ool Foss, Cherty in Most, FN XLN, Firm Breaks; SH - Trace Black/LT Gry Throughout, Few Lt Gm Pos w/ Soft Breaks and Crush	
	4100			LS - Cm-Lt Tan w/ Few Brwn, Cherty, FN XLN, Firm Breaks, Foss Throughout, Some Caramel/Amber Throughout, Fair Friab	
	4100			LS - Cm-Wht w/ Few Brwn&Caramel, Cherty OA, Foss Throughout, FN XLN, Firm Breaks	
	4150			LS - as above; CH - Few Opaque PCs, Grayish, FN XLN, V Smooth, Dense, Firm Breaks, Glasslike Breaks	
	4150			LS - Cm-Caramel-Brwn, Cherty, FN XLN, Sharp Breaks, Few PCs Transitional - SH edges	
	4200			LS - Cm-Cramel-Tan, Cherty OA, Few Interbedded PCs (SH), Sharp Firm Breaks, FN XLN; CH - Few opaque Gry Pos, FNMD XLN, Smooth, Sharp Firm Breaks	
	4200			LS - Cm w/ Tan, Cherty, FN XLN, Smooth Glasslike Breaks	
	4250			LS - Cm-Wht, Soft, Chalky, Few Cherty, FN XLN, some interbedded LS with Gry SH; SH - LT Gry-Black, MD/Firm Breaks, Clean Sharp Breaks	
	4250			LS - Cm-Wht w/ Dark Tones/Spotting, MD/Firm Breaks, FN XLN, Few Vis Foss Pos	
	4300			Few CH - Opaque, Tan-Off Wht, Sharp Breaks, Few Pc Marbled	
	4300			LS - Cm -Wht, Chalky, MD/S Break, Some Pos Marbled (Cm/Tan/Dark), Some Cherty, FN XLN, few MD XLN	
	4350			LS - Cm-Wht w/ Caramel/Amber, Cherty, Foss Throughout, FNMD XLN, Few PCs Appear RE-XLN; SH - V Few LT Gry & Black, MD/Soft Break, Chalky, Silty Crush	
	4400			SH - Black/Dark Gry, Thin Pos, Soft Break, Silty Crush, Carbonaceous in Most	
	4400			LS - Cm w/ Few Caramel, Cherty OA, FN XLN, Firm Sharp Breaks; SH - Black w/ Few Gry, MD/Soft breaks, Silty Crush,	
	4450			as above; Slight increase in LT Gm SH/Clay, V Soft, (~3% sample)	
	4450			SH - Flood, LT Gry/Black, MD Breaks, Chalky, Silty on Breaks, Slightly Gassy; LS - Cm-Lt Tan-Caramel, FN XLN, Few Pos Mottled; NO, Poor Fluor	
	4500			SH - LT Gm/Gry w/ Few Black, OA Argillaceous (LT Gm), MD/S Breaks, Silty Breaks, Few Bubbles(Black); LS - Cm-Wht, Cherty, FN XLN w/ Few MD XLN, MD/Firm Breaks, Fair Friab; NO, NF	
	4500			SH - as above; LS - Cm-Wht, Sharp Increase in amount of dark staining/Spotting, little to no Fluor, OA Cherty, FN XLN	
	4500			LS - Cm-Wht, Cherty, V Firm, FN XLN, glasslike Breaks; NO, NS	
	4550			LS - Flood, Cm-Wht w/ abundance of LT Tan/Lt brwn, Mostly Cherty, FN XLN, Dense, V Firm Breaks, Glasslike; NO, NS	
	4550			LS - Cm - Lt Brwn/Tan, Cherty OA, FN XLN, Firm Breaks, Few PCs Interbedded/Mottled LT Gm, 1 pc Faint Orange Fluor, Faint Odor,	
	4600			SH - Increase in Mottled/Marbled appearance, Varicolored (LT Gm/Tan/Red/Black) Chalky, MD Breaks	
	4600			LS - Cm-Wht, Few Pos Interbedded with SH (Black) and some with coloration (LT Gm), FN XLN, Sharp Breaks CH - Translucent, Spots of Yellow Staining, V Firm, M XLN; SH - LT Blue, Blue, Red, Few Yellow PCs, MD Breaks, Silty; LS - Cm-Caramel, Few Dark Spots Staining, FN XLN, Firm Break SH - Varicolored, various Pos & Colors Mottled Together, overall MD Breaks, Silty; LS - Cm-Wht (Staining From Various Colors Present), FN XLN, Few Pos Appear Dolomitic, Signs of sucrosic, OA sample has MD/Firm Breaks, with Fair Friab; 1 pc Dolomite with Decent Vis Pos and Staining, Milky under Fluor when exposed, no signs of live oil, Slight Odor, Cup Wash Stained Red	
	4650			as above; slight increase in fluor throughout sample, no show	
	4650			DOL - Cm-Wht Stained Varicolored; Good Vis Pos, sucrosic SH - Varicolored, Staining & Marbling Throughout, MD Breaks; LS - Cm-Wht with Colored Staining, FN XLN, Firm Sharp Breaks; Dol-Few Pos, Cm/Wht w/ Colored Staining, Good Vis Pos, MD Break with Good Friab SH - Varicolored (Red, LT Gm, Blue) Soft, argillaceous, Silty Breaks	
	4700			CH - Base Color is Bone Wht w/ Varicolored Staining, Smooth, M XLN, V Firm Breaks; LS - Cm-Wht w/ Staining, Few Interbedded SH(Black), MD Breaks, Good Friab	
	4700			Noticeable Increase in Dol amounts, very clean, few pos stained, OA Good Vis Pos, MD/S Break SH - Varicolored, MD/S Breaks, argillaceous in most; LS - Cm-Wht w/ Colored Staining, MD Breaks, Some Dark Colored in Pos, NO, NS	
	4750			Dol - Flood, Cm/Wht, Few Stained Spots, MD/S bBreak, Good Pos, Faint Fluor, Sucrosic OA, Faint Odor, NS Dol - Cm-Wht, Few Stained Throughout Sample, MD/S Break, Sucrosic, Good Vis Pos, 1 pc Dark Coloration Overall w/ Lt Blue/Green Fluor, NO	
	4750			Majority of Sample is Dolomite, Good Vis Pos, Few Stains Throughout, Faint Fluor, Little to No Odor; LS - Cm-Wht, Seems Transitional between Dol & CH, OA MD/Firm Breaks, Few Dark Brown PCs,	
	4750			Dol - Cm-Wht, Some Color Staining, MD/S Breaks, Increasingly Sucrosic, Good Pos; Faint Cup Odor, No Shows	
	4800			Increase in CH OA, Cm/Wht, Smooth/Glasslike, Sharp Breaks, Few PCs ReXLN; Dol & LS, Cm-Wht, FN XLN, Sucrosic in Most; Pretty Barren Sample	
	4800			SH - Simpson Shale Flood, Turquoise, Smooth OA, Slightly Chalky, MD Breaks, Clean Cleavage after Breaks; Dol Still abundant in Sample, Few Opaque Tan CH Stringers Throughout Simpson Shale abundant; Dol as above; Few Sandy Pos Throughout, MD Break, Grainy Crush, OA Good Vis Pos; Few Pos Pyritic; NO, NS	
	4800			SH - Turquoise, Chalky, MD Breaks, Clean Cleavage on Breaks; Dol - as above; Few Traces of LS - Mostly Cherty, FNMD XLN, Firm Sharp Breaks	
	4850			Dol - Cm-Wht, Staining in Few Pos, MD Breaks, Faint Fluor; No Show, Faint Odor as above; seems to be some sandier pos of Dol, MD/S Breaks, Fairly Good Vis Pos	
	4850			SH - turquoise green, silty smooth, some darker green to grey/black; traces sandy	
	4900			Dol - tan to brown, fine to fine xln w/ sl sucrosic txture in part; well compacted & dense; no vis pos, no show	
	4900			Dol - cream to lt tan, limy, fn to med xln w/ sl sucrosic txture; chalky break in some; dense to partly friable; no odor; ns	
	4900			Dol - cream to lt tan, fine xln sl sucrosic, dense, barren	
	4900			Dolomite - cream to tan, brown, sl chalky txture; well compacted; some oolitic foss incls; no odor; ns	
	4900			Dol - cream to lt tan, fine to med xln, sl sucrosic txture; increasing friab w/ some ooc porosity dev; barren, no odor, ns (better reservoir properties)	
	4950			Dol - mostly cream, sm lt tan, fine to med xln w/ increasingly med xln; more consistent vis porosity & better friability; no odor; no shows; barren; fairly good oa pos & reservoir prop	
	4950			Dol - cream to wht, sm lt tan, fn & med xln sl sucrosic txture w/ some vis oolites & ooc poros; chalky in some w/ few stringers CH - bone white vitreous; oa good vis poros & friab; barren	