

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

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ORIGINAL

Operator: License # 33300
Name: Evergreen Operating Corporation
Address: 1401 17th Street, Suite 1200
City/State/Zip: Denver CO 80202
Purchaser: _____
Operator Contact Person: Tom Erwin
Phone: (303) 298-8100 ext 1330
Contractor Name: Layne Christensen Company
License: 32999
Wellsite Geologist: Richard Robba, PG

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Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl. Cathodic, etc.)

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

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Well Name: _____
Original Comp. Date: _____ Original Total Depth: WICHITA, KS
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

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<u>10-3-03</u>	<u>10-6-03</u>	<u>1-23-04</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 10723768-00-00
County: Linn
_____ SW _____ SE Sec. 20 Twp. 21 S. R. 23 East West

560 feet from S N (circle one) Line of Section
2290 feet from E W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW

Lease Name: McGrew Well #: 34-20
Field Name: Forest City Coal Gas Area

Producing Formation: Cherokee Group
Elevation: Ground: 993 Kelly Bushing: 998

Total Depth: 962 Plug Back Total Depth: 907'

Amount of Surface Pipe Set and Cemented at 44 Feet
Multiple Stage Cementing Collar Used? Yes No

If yes, show depth in _____ Feet

If Alternate II completion, cement circulated from 962
feet depth to Surface w/ 148 _____ sx cm.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content N/A ppm Fluid volume 500 bbls
Dewatering method used hauled to disposall

Location of fluid disposal if hauled offsite: _____

Operator Name: Evergreen Operating Corporation
Lease Name: Peckman Angus License No.: 33300

Quarter SWNE Sec. 7 Twp. 18 S. R. 24 East West
County: Miami Docket No.: D28279

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ALT II WHM 8-16-06

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: Thomas M. Simon 1/30/04
Title: Sr Operations Engineer Date: _____

Subscribed and sworn to before me this 30th day of January, 2004.

Notary Public: Karen A. Breen

Date Commission Expires: 11/24/07

KCC Office Use ONLY
See VLT # 04-CONS-327-CERC

Letter of Confidentiality Attached
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

X

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Side Two

ORIGINAL

Operator Name: Evergreen Operating Corporation Lease Name: McGrew Well #: 34-20
Sec. 20 Twp. 21 S. R. 23 East West County: Linn

INSTRUCTIONS: Show important tops and base 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. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Stark Shale	45	948
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	BKC	95	898
List All E. Logs Run:		Marmaton	285	708
		Summit	437	536
		V. Shale	555	438
		Tebo Shale	628	365
		Mississippi	792	201

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CASING RECORD <input checked="" 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
Surface	12 1/4	8 5/8	24	44	Portland	12	NA
Production	7 7/8	5 1/2	15.5	952	Vermejo 5	148	2% cacl2

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				

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Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shrinker, Squeeze Record (Amount and Kind of Material Used)	Depth
	See Attached Sheet	See Attached Sheet	

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TUBING RECORD		Size 2 7/8	Set At 829'	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.		Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls. 0	Gas Mcf 0	Water Bbls. 0	Gas-Oil Ratio	Gravity

Disposition of Gas METHOD OF COMPLETION Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
(If vented, Submit ACO-18.) Other (Specify) _____

Attachment to Form ACO-1
McGrew #34 - 20

Shots /ft	Perforations	Perf Interval (ft)	Size Perf	Proppant Actual (lbs)	Fluid (bbls)	Nitrogen N2 (mscf)	Fluid Type
Acidize w/ 84 bbls 8% HCL							
4	340 - 343	3	0.49	15,000	111.5	100.0	70Q Foam
4	535 - 537	2	0.49	25,000	122.0	155.0	70Q Foam
4	559 - 561	2	0.49	15,000	105.0	114.0	70Q Foam
4	579 - 581	2	0.49	15,000	101.5	143.4	70Q Foam
4	597 - 599	2	0.49	10,000	97.3	91.7	70Q Foam
4	630 - 632 & 638 - 641	5	0.49	40,000	170.5	148.1	70Q Foam
4	665 - 668	3	0.49	0	61.0	67.0	70Q Foam
4	728 - 730	2	0.49	0	43.5	56.7	70Q Foam
4	749 - 751	2	0.49	10,000	137.0	138.9	70Q Foam
4	781 - 783	2	0.49	10,000	159.0	126.8	70Q Foam

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Customer E.O.C.			Date 10/07/03	F.R. #	Service Supervisor Edward C. Hager						
Lease & Well Name – OCSG McGrew 34-20				Location SWSE 20 34S 63E		County – Parish – Block Linn, Kansas					
Pump Unit #403		Drilling Contractor Rig #			Type of Job 5 1/2 Long string						
Size & Types of Plugs			List – CSG - Hardware			Physical Slurry Properties					
Top	5 1/2 Rubber Latch		5-Cent. 1-Thread Lock Guide Shoe 1- Baffle plate			Slurry WGT PPG	Slurry YLD Ft ³	Water GPS	Pump Time Hr:Min	Std Slurry	Std Mix Water
Btm											
Materials Furnished					KCC						
148 sx Vermejo #5					JAN 30 2004			13.3	1.45	9.76	
2 lbs red dye					CONFIDENTIAL						
Available mix fluid 500 Bbl.			Available Displ. Fluid Bbl.			Total					
Hole			TBG-CSG-D.P.			TBG-CSG-D.P.			Collar Depths		
Size	% Excess	Depth	Size	WGT	Type	Depth	Size	WGT	Type	Depth	Shoe Float
7 7/8		963	5 1/2	15.5		952					43.2
Last Casing			Pkr - Cmt Ret – Br PI - Liner			Perf Depth		Top Conn		Well Fluid	
Csg.	WGT	Type	Depth	Brand & Type		Depth	Top	Btm	Size	Thread	Type WGT
8 5/8	23#		44						5 1/2	8rd	H2o 8.34
Cal Displ Vol – Bbl			Cal Psi	Cal Max Psi	OP Max	Max Tbg PSI	Max Csg PSI		Displ Fluid		Water
TBG	CSG	CSG	Total	Bump Plug	To Rev	SQ PSI	Rated	OP	Rate d	OP	Type WGT Source
		21.6	21.6			2000					H2o 8.34 Tank
Explanation: Trouble setting tool, Running CSG, Etc. Prior to cementing:											
Pressure/Rate Detail						Explanation					
Time HR:Min	Pressure – PSI		Rate BPM	Bbl Fluid Pumped	Fluid Type	Safety Meeting: Crew x		Co. Rep x			
	Pipe	Annulus				Testing Lines x		Psi 2000			
00:47	80		3	10	H2o	Start Dye					
00:49	80		3	10	H2o	Start Water					
00:56	40		3	38	Cmt	Start Cement – Vermejo #5				RECEIVED	
01:08	0		3	5	H20	Wash lines				KANSAS CORPORATION COMM	
01:16	40		3	21.6	H20	Drop Plug / start disp				FEB 02 2004	
01:24	1500					Bump plug				CONSERVATION DIVISION	
						Cement did circ.				WICHITA, KS	
						Lifting psi @ 3 bpm				RELEASED	
						5- 100				FROM	
						10-200				CONFIDENTIAL	
						15-250					
Bumped Plug	PSI to Bump Plug	Test Float Equip	Bbl CMT Returns/ Reversed	Total Bbl Pumped	PSI Left On CSG	Spot Top Cement	Service Supervisor				
y	1500	Y / N	2	84.6	0	ground					
		y					Edward C. Hager				

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Professional Energy Services

9402 Kessler Lane
Shawnee Mission, KS 66212
Ph.913.341.7434

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WICHITA, KS

GEOLOGICAL REPORT

Operator: **EVERGREEN OPERATING CORPORATION**

Project: Sugar Creek, Well Name: McGrew #34-20

Location: W/2 SW SE - 560' FSL and 2290' FEL

Sec. 20-T21S-R23E County: Linn State: Kansas

All measurements GL: 993 API: 107-23768-00-00

Company: Director of Geology: Mr. Chris Cornelius

Company: Director of Operations: Mr. Dan McGee

Company: Sr. Operations Engineer: Mr. Tom Erwin

Professional Energy Services: Geologist: Richard A. Robba

Drilling Superintendent: Drew Friedrichs

Drilling Contractor: Layne Christensen Company

Terra Tek: Desorption: Technician Chip DeVaney

Geosearch Logging: Mudlogger: Pat Andrews

Commenced: 10/3/03 Completed: 10/7/03

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This geological report is prepared for Mr. Dennis Carlton and Mr. Scott Zimmerman. Wellsite geological supervision was conducted from surface to TD. This well was continuous cored from the Marmaton to the Mississippi. ROP, gas curves and sample descriptions from mud rotary chips are recorded on the mud log and formation tops and visual core descriptions are listed below.

McGrew 34-20

Formation E-Log Tops

Stark Shale:	43'	VShale:	556'
B/Kansas City:	95'	Tebo Shale:	630'
Altamount:	246'	Mississippi:	791'
Core Point:	322'	RTD:	962'
Summit:	439'	LTD:	963'
Excello:	459'		

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Coal Intersections E-Log

Canister	Name	Depth	Canister	Name	Depth
Not cored	Dawson	241-242.5	DS#9	Scammon	608.1-609.3
DS#1	Mulberry	341-342.2	DS#10	Tebo CSh	629.5-632
DS#2	Lexington	379.2-380.1	DS#11	Tebo CSh	"
DS#3	Summitt	443.6-444.1	DS#12	Tebo Coal	638.9-639.7
No recovery	Mulky	454-455.7	DS#13	CShale	650.1-651.9
DS#4	Bevier	535.4-536.2	DS#14	Wier	665.7-666.9
DS#5	VCSH	555-555.8	DS#15	Bluejacket	707.1-708
DS#6	Croweburg	559.2-560.1	DS#16	Rowe	728.8-730
DS#7	Fleming	580.1-581.2	DS#17	Neutral	749.2-750.3
DS#8	Mineral	598-598.8	DS#18	Riverton	781.8-783.2

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Core Sample Descriptions

322-341 Shale light gray w/ single 2" coal.
341-342 Mulberry Coal, blk, gd cleats, some ash, pshogas
342-343 Underclay poorly developed, dark gray w/ sickensides.
343-347 Shale gr-brn w/ blk sh inclusions
347-359 Limestone, fn-medxln, v foss in parts, argil.
359-370 Shale, gray, silty
370-376 Shale, vdkgy, burrows w/ ltgy sh infill.
376-379 Ls, vfnxln, gy, sli foss, pvug por.
379-380 Lexington Coal, dull, shly, rare cleats
380-382 Shale, blk, carb., mica., soft
382-388 Shale, dkgy, w/ lmy sh layering, slumping
388-405 Shale, dkgy, pasty in part
405-413 Shale, vdkgy to blk, carb,
413-437 Limestone, vfnxln, vshly to vlmy sh., argil.
437-441 Shale, blk, carb.,soft
441-447 Shale, dkgy, sli foss, w/ leaves, sli mica
447-458 Shale, gy, sli mica., sndy
458-470 Siltstone, vfngn, banded w/ grn, rd and brn sh
470-485 Sandstone, vfngn, sub-rnd, vppor., fsorted, interbedded nodules and pebbles, lower part vshly
485-491 Shale, blk, brn, gy banded
491-499 Shale, blk, carb, w/ brn and gy sh bands
499-510 Shale, lt and dk gy banding w/ soft layers washing out
510-534 Shale, dkgy, smooth
534-535 Bevier Coal
535-540 Underclay, f devel, gy-gr
540-550 Mudstone, gy, wash outs, soft
550-555 Shale dkgy, w/ many shell frags.
555-557 Coal Shale, blk w/ sdy layers
557-558 Flemming Coal
557-562 Mudstone, gr-gy, vsoft
562-574 Siltstone, gr sh, vgritty, w/ lt gy and rd sh layering
574-577 Mudstone, soft, crumbly, ltgr-gy
577-579 Shale, blk, carb, stems
579-580 Flemming Coal
580-596 Siltstone, w/ gy, gr and rd sh layering, scattered blk heavy minerals, sndy at base
596-597 Mineral Coal
597-600 Underclay, army gy, soft, well developed
600-605 Mudstone, ltgy, micaceous
605-607 Coal Shale, dkgy and blk, pyr
607-608 Scammon Coal
608-617 Shale w/ lt and dk gy seasonal varves
617-628 Shale, blk, carb, w/ brn sd bands
628-630 Coal Shale, gassey
630-631 Tebo Coal, dull, fshogas, pyr., f cleats
631-639 Mudstone, blk, soft, crumbly, organics

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Core Sample Descriptions

639-640 Wier Coal
640-644 Underclay, f developed, gy, sli foss
644-646 Sandstone, medgn, fsorted, w/ blk sh inclusions
646-648 Siltstone, gy w/ layer washing out
648-650 Coal Shale, sligasse, pyritic banding,
650-655 Sandstone, vfngn, shly, sd bec/ coarser near base
655-660 Shale, dk gy
660-661 Coal Shale, w/ interbedded thin coal layers, pshogas
661-664 Shale, gy w/ slickensides
664-665 Bluejacket Coal
664-667 Shale, gy w/ blk carb sh banding, pyr
667-670 Sandstone, medgn, psorted, sub ang, rd-brn
670-705 Siltstone, and sh layered w/ thin bed blk carb sh layering and mostly carb sh at base
705-706 Bluejacket Coal
705-709 Underclay, well developed
709-721 Siltstone, ltgy, w/ dk gy sh layering
721-727 Shale, lt and dk gy layering gritty
727-728 Rowe Coal, blk, banded, fshogas
728-736 Underclay, army gy to gr-gy, soft
737-748 Shale, dkgy w/ carb sh layering, no vis gas
748-749 Neutral Coal, bright, gdshogas, well cleated
740-780 Shale, dkgy, w/ blk sh layering, carb, spongy and pasty, many wash outs, w/ brn shly ss layers
780-781 Riverton Coal, bright, well cleated, gdsho gas
781-783 Shale, blk, w/ 2" lt gy sh banding
783-790 Shale green, slumping w/ slickensides
790-792 Sandstone, vfngn, sub-ang, f intergn por., gassey
792-810 Limestone, fnxln, w/ lg excellent fractures, sli foss

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Respectfully submitted,

Richard A. Robba, PG
Director of Operations
Professional Energy Services

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