CONFIDENTIAL

ORIGINAL

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

RELEASED
FROM
CONFIDENTIAL

Exp 9.30.04

Operator: License # 33300

Name: Evergreen Operating Corporation

Address: 1401 17th Street, Suite 1200

City/State/Zip: Denver CO 80202

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Purchaser:

Operator Contact Person: Tom Hemler

Phone: (303) 298-8100 ext 1330

Exp 2.28.05

Contractor: Name: Layne Christensen Company

License: 32999

Wellsite Geologist: Richard Robba, PG

Designate Type of Completion:

✓ New Well ___ Re-Entry ___ Workover

___ Oil ✓ SWD ___ SIOW ___ Temp. Abd.

___ Gas ___ ENHR ___ SIGW

___ Dry ___ Other (Core, WSW, Expl., Cathodic, etc)

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

Operator:

Well Name:

Original Comp. Date: ___ Original Total Depth: ___

___ 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. ___

2/14/2004	2/20/2004	WOCU/ TA 4/22/2004
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 043200480 0 - 00

County: Doniphan

___ NW _ SW _ NE Sec. 23 Twp. 4 S. R. 20 ✓ East ☐ West

1700 feet from S (N) (circle one) Line of Section

2165 feet from (E) W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one) NE SE NW SW

Lease Name: Oakland Valley Well #: 32-23 WD

Field Name: Forest City Coal Gas Area

Producing Formation: Cherokee Group

Elevation: Ground: 1055' Kelly Bushing: 1055'

Total Depth: 1672 Plug Back Total Depth: NA

Amount of Surface Pipe Set and Cemented at 261 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 NA ppm Fluid volume 500 bbls

Dewatering method used trucked to disposal well

Location of fluid disposal if hauled offsite:

Operator Name: Evergreen Operating Corporation

Lease Name: Amon 41-30 WD License No.: 33300

Quarter NE Sec. 30 Twp. 6 S. R. 16 ✓ East ☐ West

County: Jackson Docket No.: D28292

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: Scott Gunn

Title: VP Operations & Engineering Date: 6/7/2004

Subscribed and sworn to before me this 8 day of June,

20 04.

Notary Public: Kari-Ann Waite

Date Commission Expires: Feb - 13 - 2005

KARI-ANN WAITE NOTARY PUBLIC STATE OF COLORADO

KCC Office Use ONLY

___ Letter of Confidentiality Attached

If Denied, Yes ☐ Date: ___

___ Wireline Log Received

___ Geologist Report Received

___ UIC Distribution

✓

Side Two

Operator Name: Evergreen Operating Corporation Lease Name: Oakland Valley Well #: 32-23 WD

Sec. 23 Twp. 4 S. R. 20 ☑ East ☐ West County: Doniphan

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 (Attach Additional Sheets) ☐ Yes ☑ No

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☑ Yes ☐ No

Electric Log Run (Submit Copy) ☑ Yes ☐ No

List All E. Logs Run:

SI, CNL, CBL

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☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Stark Shale	747	308
B/Kansas City	797	258
Altamount	907	148
Summit	986	69
Excello	1010	45
V. Shale	1090	-35
Tebo Shale	1171	-116
Mississippi	1648	-593

CASING RECORD ☑ New ☐ 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	216	Portland	140	2% cacl2, 3% Gilsonite

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: ___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
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TUBING RECORD Size Set At Packer At

Liner Run ☐ Yes ☐ No

Date of First, Resumerd Production, SWD or Enhr.

Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0				

Disposition of Gas METHOD OF COMPLETION Production Interval

☐ Vented ☐ Sold ☐ Used on Lease (If vented, Submit ACO-18.)

☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled _____

☐ Other (Specify) _____

Professional Energy Services
9402 Kessler Lane
Shawnee Mission, KS 66212
Ph.913.341.7434

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GEOLOGICAL REPORT

Operator: **EVERGREEN OPERATING CORPORATION**
Project: Jordon Well Name: Oakland Valley 32-23 WD
Location: SENWSWNE 1700'FNL & 2165' FEL
Sec. 23-4S-20E County: Jackson State: Kansas
All measurements GL: 1055' API: 15-043-20048-00-00
Company: Sr. Operations Engineer: Mr. Tom Erwin
Company: Geologist: Mr. Paul Clarke
Professional Energy Services: Geologist: Rich Robba
Crown: Drilling Superintendent: Fred O'Doan
Patterson Logging: Engineer: Roger Taylor
Drilling Contractor: Layne Christensen Company
CBM Solutions: Desorption: Dean/Ken Glover/Dion
Geosearch Logging: Mudloggers: Kevin Clark/Nathan Barnes
Commenced: 02/16/04 Completed: 02/20/04

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This geological report is prepared for **EVERGREEN OPERATING CORPORATION**. Wellsite geological supervision was conducted from surface to Total Depth. The Oakland Valley 32-23 WD was water drilled to core point, continuous cored from the Excello Shale to the Mississippi and then deepened by rotary to TD. ROP, gas curves and sample descriptions from water rotary chips are recorded on the mud log and geophysical survey formation tops, visual core recovery descriptions and desorption canisters are listed below.

Oakland Valley 32-23 WD

This well's geophysical survey indicates multiple coal intersections between the Excello and Bartlesville Sand that were not recovered during the continuous coring operations. The core was measured after each pull and results did not indicate any significant core loss through this referenced section. It is recommended to review the coals listed below with core field descriptions and canister data when calculating actual coal vs CDL Neutron coal thicknesses.

Formation E-Log Tops

Heebner Shale:	266'	Excello:	1010'
Lansing:	499'	VShale:	1090'
Stark Shale:	747'	Tebo Shale:	1171'
B/Kansas City:	797'	SMP Mississippi:	1648'
Altamount:	907'	RTD:	1672'
Summit:	986'	LTD(33' fill):	1639'

Coal and Coal Shale Intersections Core or E-Log (See note on page one- coal thickness.)

Net Coals(ft) < 1.75 g.cc		Net Coals(ft) >1.75g.cc< 2.00 g.cc		Net Carbonaceous Shale (ft)	
Name/Canister	Depth	Name/Canister	Depth	Name/Canister	Depth
Mulberry	923-923.8	Oswego	972.4-973	Iron Post	1041.8-1042.2
Bevier/242	1069.6-1070.8	Rowe C	1495-1495.6	Croweburg	1111-1112
Vshale/478	1092-1093	Rowe D	1516.5-1517	Drywood/T63	1479-1481
Fleming/482	1125-1126.2				
Mineral	1134.5-1135.2				
Tebo/494&650	1172-1173				
Weir B	1200-1201.3				
Weir C/652	1215.7-1216.7				
Rowe B/684	1488.2-1490				
Rowe E/658	1521.7-1523.7				

Cumulative Net Thickness Density E-Log

Net Coals (ft) < 1.75 g.cc	Net Coals (ft)>1.75g.cc < 2.00 g.cc	Net Carbonaceous Shale (ft)
11.0'	2.7'	3.4'

Visual Core Sample Descriptions

1010-1012 SHALE: blk, carb, blky, ns.
1012-1015 SHALE: dk gy grading to sh lt gy, sdy w/ foss ls.
1015-1020 UNDERCLAY: gr-gy, cs tx.
1020-1031 MUDSTONE: gy, soft, blky.
1031-1040 SHALE: dk gy, fissile, gritty in part with ls bkn pcs and burrow fill.
1040-1043 SHALE: blk, med carb content, fissile.
1043-1050 SHALE: gy-gr, hard w/ occ thin v lt gy sh layers.
1050-1050.6 COAL SHALE: blk, organic rich, pyr, 1" coal seam, ns.
1051-1055 SANDSTONE: vshly, vfngn, well sorted, gy.
1055-1067 SHALE: dk gy w/ numerous lt gy sh thin beds, occ 1" bands brn sh.
1067.7-1068.4 COAL: shly 1" bands, blk, v dk gy, p cleating, trc gas, pyr.
1069-1070 UNDERCLAY: gr w/ blk sh, v carb layers and bkn pcs, med-cs tx.
1070-1084 SHALE: gr w/ wh and blk nodules, few maroon layers w/ many shell molds in blk sh towards base.
1084-1087 LIMESTONE: vfnxln, wh-gy, chky w/ 6" low carb band.
1087-1089 SHALE: blk w/ bioturbidites.
1089.8-1090.8 COAL: blk, banded, shly partings, face cleat, no sho gas.
1091-1093 UNDERCLAY: fn tx, varving becoming blk sh at base w/ burrows of brown sh.

Visual Core Sample Descriptions

1122.3-1123.6 COAL: dull, banded tx, gy w/ occ bkn pcs carb mat.
1093-1119 SHALE: lt gy, chky appearance, no calc, hard, argil in part, nodules.
1119-1122 SHALE: blk-dk gr, w/ calcite fill, pyr, low density, no sho gas.
1124-1128 UNDERCLAY: gr-gr, med-cs tx.
1128-1132 SHALE: lt gr w/ v lt gy seasonal varving.
1132-1134 SHALE: dk gr w/ blk and maroon, sh, 1" coal shale, no sho gas.
1134-1136 UNDERCLAY: med-cs tx, maroon-gr.
1136-1151 SILTSTONE: lt gy-gr w/ seasonal brn and v lt gy sh bands bec/ dk gy w/ slumping towards base.
1151-1169 SHALE: blk, fissile w/ brn sh layers, low carb content at top and inc towards base.
1169.7-1170.5 COAL: in two barrels, banded, p cleating, calcite fill, no sho gas.
1171-1173 UNDERCLAY: brn-gy w/ blk sh thin beds.
1173-1179 SHALE: bl-gr bec/ low carb w/ blk sh layers at base.
1179-1179.2 COAL SHALE: blk, v shly, great density, no sho gas, intact.
1180-1191 UNDERCLAY: med tx, p devel, yell-maroon-gy.
1191-1192 LIMESTONE: medxln, sli chky, foss, v p interxln and foss por.
1192-1197 SHALE: dk gy-blk w/ lt gy 1" sh bands, platy, sli gritty.
1197-1198 SHALE: blk w/ 2" coal.
1198-1200 UNDERCLAY: p devel, blk-gr.
1200-1212 SHALE: blk, low carb w/ thin coal mat, v soft at top and bec/ fissile at base.
1212.8-1213.6 COAL: high ash content, pyr, sh bands, p cleated, no sho gas.
1214-1218 UNDERCLAY: gy-maroon, cs tx.
1218-1222 SILTSTONE: med gn, laminated w/ lt gy sh.
1222-1278 SANDSTONE: med gn, sub rnd, gy, f interxln por, w/ few layers shly varving.
1278-1287 SHALE: gy w/ lt gy vsdy thin to ½ inch layers.
1287-1299 SILTSTONE: gy, vshly and gritty.
1299-1317 SANDSTONE: med gn, gy, shly, f sorted, sub ang to sub rnd, excell intergn por, ns.
1317-1353 SANDSTONE: aa w/ thin coal shale layer, friable and lg ang gns grading to base.
1353-1354 SANDSTONE: v coaly, w/ vsdy coal sh.
1354-1371 SANDSTONE: med gn sub rnd, friable, excel por.
1371-1380 SHALE: dk gy w/ seasonal ss varving, uniform strata.
1380-1404 SANDSTONE: med gn, sub ang, v friable, gd intergn por, clean.
1404-1415 SHALE AND SANDSTONE: thin varving.
1415-1468 SHALE: gy bec/ dk gy towards base w/ thin lt gy sdy sh varving, occ 6" ss bands.
1468-1476 SANDSTONE: vfn-fngn, friable, well sorted, mica, gd intergn por.
1476-1478 COAL SHALE: high density, high ash content w/ thin coal seams, no sho gas.
1478-1485 SHALE, dk gy w/ shell frags, lt gy sh layers, sdy in part.
1485-1487 COAL: br, banded, shly at top, pyr, f cleating, no sho gas.
1487-1490 UNDERCLAY: p devel, lt gy, fn tx w/ dk gr sh bands.
1490-1491 SHALE, blk, fissile.
1491.7-1492.3 COAL SHALE: high ash content, p cleating, pyr, no sho gas.
1493-1496 UNDERCLAY: wh-gy, p devel, hard, fn tx.
1496-1506 SHALE: gy and dk gy w/ layers of low carb mat.
1506-1511 UNDERCLAY: wh-gy, fn tx, "gritty"' w/ 1' low carb sh band.

Visual Core Sample Descriptions

1511-1519 SHALE: blk, fissile, low-med carb content, no sho gas.
1519-1519.8 COAL : mod-high ash content, vp cleating, no sho gas, pyr.
1520-1533 SHALE: blk, med carb to organic rich w/ chunks thin layers coal, few shell beds.
1533-1533.3 COAL: rubble, high density, high ash content, shly w/ shells.
1534-1537 SHALE: blk, fissile, low carb content.
1537-1538 UNDERCLAY: gy, fissile, low carb content.
1538-1539 SHALE: blk, organic rich.
1539-1542 UNDERCLAY: gr-gy, med tx, bkn pcs blk sh.
1542-1608 SANDSTONE: v fn gn, well rnd, well sorted, vp intergn por w/ occ parts w/ lt gy sh to v friable clean sand, speckled and thin bands of heavy minerals and lg brn gtz gns.
1608-1614 SHALE: dk gy w/ slickensides, steep slumping w/ sdy layers.
1614-1614.4 COAL SHALE: high density, no cleats, no sho gas, v shly.
1615-1648 SHALE: gy gritty, sdy in part with sand layers w calc matrix, sh v hard towards base and bec/ calc.
1648-1650 LIMESTONE, fn-medxln, ool, p vis por and sli foss.

Conventional Oil and Gas Shows

No shows recorded.

Respectfully submitted,

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

Customer	Date	F.R. #	Service Supervisor
E.O.C.	2/16/04		Ray Decker
Lease & Well Name	**Location**		**County – Parish – Block**
OAKLAND VALLEY 32 – 23 WD	SE SE 23 T4S R20E		DONIPHAN
District	**Drilling Contractor Rig #**		**Type of Job**
	LAYNE		SURFACE 8 5/8"

Size & Types of Plugs		List – CSG – Hardware	Physical Slurry Properties					
Top		1 - 8 5/8" GUIDE SHOE	Slurry WGT PPG	Slurry YLD Ft^3	Water GPS	Pump Time Hr:Min	Std Slurry	Std Mix Water
Btm		3 CENTRALIZERS						
Materials Furnished								
140 SKS Surface			15.5	1.20	5.2			
2 LBS RED DYE								
Availabe 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
12 ¼"			8 5/8"	24#								
		265'				262'						

Last Casing				Pkr – Cmt Ret – Br Pl – Liner		Perf Depth		Top Conn		Well Fluid	
Csg.	WGT	Type	Depth	Brand & Type	Depth	Top	Btm	Size	Thread	Type	WGT
										H2o	8.33

Cal Displ Vol – 15 BBLS				Cal Psi	Cal Max Psi	OP Max 1000 PSI	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
											H2o	8.33	

Explanation: 20 BBLS CMT. TO PIT.

Pressure/Rate Detail						Explanation
Time HR:Min	Pressure – PSI Pipe	Annulus	Rate BPM	Bbl Fluid Pumped	Fluid Type	Safety Meeting: Crew x Co. Rep x
						Testing Lines Psi 1000
						Circulating-Well-Rig
1000	70		3.0	10	H20	PUMP WATER W/ DYE
1003	40		2.5	30	CMT	PUMP CEMENT @ 15.5 PPG
1020	120		3.0	15	H20	PUMP DISPLACEMENT
1025	85					ISIP

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Bumped Plug	PSI to Bump Plug	Test Float Equip	Bbl CMT Returns/ Reversed	Total Bbl Pumped	PSI Left On CSG	Spot Top Cement	Serv. Supv.
N/A	N/A	N	20 bbl	55	85	Y	
							Ray Decker