

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

Operator: License # 6120
Name: Cabot Oil & Gas Corporation
Address: 600 17th Street, Suite 900N
City/State/Zip: Denver, CO 80202
Purchaser: Duke Energy Field Services
Operator Contact Person: Jean Arnold - Prod. Tech.
Phone: (303) 226-9443
Contractor: Name: Zenith Drilling Corp. Rig 1 PH#: 316-684-9777
License: 5141

Wellsite Geologist: None
Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc.)

If Workover/Re-entry: Old Well Info as follows:
Operator: N/A
Well Name: N/A
Original Comp. Date: N/A Original Total Depth: N/A

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. _____
3-30-04 4-1-04 4-15-04
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 175-21925-00-00
County: Seward
N2 NW ~~SW~~ Sec. 27 Twp. 32 S. R. 33 East West
660' feet from S / (N) (circle one) Line of Section
1320' feet from E / (W) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE (NW) SW
Lease Name: Lemert Well #: 3-27
Field Name: Hugoton

Producing Formation: Chase Group
Elevation: Ground: 2707' Kelly Bushing: 2716'
Total Depth: 2725' Plug Back Total Depth: 2679'
Amount of Surface Pipe Set and Cemented at 615' Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set N/A Feet
If Alternate II completion, cement circulated from N/A
feet depth to _____ w/ _____ sx cmt.
ACT I WITH 10-16-06

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content _____ ppm Fluid volume 2000 bbls
Dewatering method used Evaporation and dry out
Location of fluid disposal if hauled offsite:
Operator Name: N/A
Lease Name: N/A License No.: N/A
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

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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: Jean Arnold
Title: Production Tech. Date: 5/6/04

Subscribed and sworn to before me this 6th day of May,
20 04.

Notary Public: Kathryn B. Flager
Date Commission Expires: _____

KATHRYN B. FLAGER
NOTARY PUBLIC
STATE OF COLORADO
My Commission Expires 11/12/2007

KCC Office Use ONLY
NO Letter of Confidentiality Attached
If Denied, Yes Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution

✓

X

Operator Name: Cabot Oil & Gas Corporation Lease Name: Lemert Well #: 3-27
 Sec. 27 Twp. 32 S. R. 33 East West County: Seward

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 Yes No
 (Attach Additional Sheets)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
 (Submit Copy)

List All E. Logs Run:

Gamma Perforator, Array Induction Electric Log, Micro Resistivity Log, Compact Photo Density Compensated Neutron Log, GR/CCL

Formation (Top), Depth and Datum		
Name	Top	Datum
Herrington	2451'	2716' KB
U. Krider	2468'	2716' KB
L. Krider	2510'	2716' KB
Winfield	2564'	2716' KB
Ft. Riley	2618'	2716' KB

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#, J-55 ST&C	615'	A Lite & CIs A common	360	3% CaCl2 1/4#/sx CF
							2% CaCl2 1/4#/sx CF
Production	7-7/8"	4-1/2"	10.5#, J-55 ST&C	2711'	A lite, 50:50 POZ	485	See attached csg record

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				

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
3	2568'-2578' (Winfield)	Total Job: 1500 gal. 15% HCL 41 bbls. 2% KCL water flush.	

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TUBING RECORD		Size	Set At	Packer At	Liner Run
None				None	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. 5-3-04		Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0	190 MCFD	0	None	.7020

Disposition of Gas: Vented Sold Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled

Production Interval: Other (Specify)

Casing Record Continued



Cabot Oil & Gas Corporation

Lemert #3-27
 660' FNL & 1320' FWL
 N/2 NW/4 Sec. 27-T32S-R33W
 Seward County, KS
 API# 15-175-21925-00-00

Purpose of String	Size Hole Drl'd	Size Csg. Set	Weight Lbs/Ft.	Setting Depth	Type of Cement	# Sacks Used	Type & Percent Additives
Surface	12-1/4"	8-5/8"	24#, J-55 ST&C	615'	A Lite	210	With 3% CaCl ₂ +1/4#/sx Celloflake,
"	"	"	"	"	Class A Common	150	2% CaCl ₂ + 1/4#/sx Celloflake
						360 Total	
Production	7-7/8"	4-1/2"	10.5# J-55 ST&C	2,711'	Class A Lite	310	3% CaCl ₂ +1/4#/sk Celloflake.
"	"	"	"	"	50:50 Poz Class A	175	5% Calset, 5# Gilsonite+3% KCL .4% fla-322+2% gel +1/4#/sx Celloflake +.3% gas block. Displaced w/ 42.5 2% KCl.
						485 Total	

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INVOICE NO.
 Date 3-30-04
 Customer ID

Subject to Correction

FIELD ORDER 7554

Lease LENEET Well # 3-27 Legal 27-325-33W
 County SEWARD State KS Station LIBERAL
 Depth 618 Formation
 Casing 8 5/8 Casing Depth 618 TD
 Shoe Joint 43
 Job Type 8 5/8 Scaffolds (new)
 Customer Representative Josh Wicker Treater Shawn FREDRICK

CHARGE

CABOT OIL & GAS

ZENITH #1

AFE Number PO Number

Materials Received by X Josh Wicker

Product Code	QUANTITY	MATERIAL, EQUIPMENT and SERVICES USED	UNIT PRICE	AMOUNT	ACCOUNTING	
					CORRECTION	AMOUNT
D200	150 sk	Common				
D206	210 sk	A SERV lite				
C310	83 16	Calcium CHLORIDE				
Z194	81 16	CELLFLAKE				
F145	1 ea	TOP RUBBER PLUG				
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E101	1 ea	CMT HEAD RENTAL				
E107	3100 sk	CMT SERVICE Charge				
E101	12 mi	P.U. mileage				
E100	12 mi	UNITS / MILES				
E104	194 Tm	TONS / MILES				
R202	1 ea	EA. 4 hrs PUMP CHARGE				
Discounted TOTAL						4,434.48
PLUS TAX						



TREATMENT REPORT

Customer ID		Date	
Customer CABOT OIL + GAS		3-30-04	
Lease LEWART		Lease No.	Well #
Field Order # 7554	Station LIBERAL	Casing 8 5/8	Depth 618
Type Job 8 5/8 surface (NW)		County SEWARD	State KS
Formation		Legal Description 27-32S-33W	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size 8 5/8	Tubing Size	Shots/Ft		Acid 210 SK ASCEV lite	RATE	PRESS	ISIP
Depth 618	Depth	From	To	Pre Pad 150 SK Common	Max		5 Min.
Volume 36.5	Volume	From	To	Pad	Min		10 Min.
Max Press 1000	Max Press	From	To	Frac	Avg		15 Min.
Well Connection PC	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush WATER	Gen Volume		Total Load

Customer Representative **Josh Wheeler** Station Manager **Dick Morris** Treater **Shawn Gredler**

Service Units	28	105	30	72				
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Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1600					ON LOCATION / Rig Running Casing
1605					PRE-JOB SAFETY MEETING
1610					RIG UP P.T.
1640					CASING ON BOTTOM / Hook up P.C.
1650					BREAK CR with RIG
1657					Through CIR / Hook lines to PT
1700	150		82	5	Pump 210 SK ASCEV lite @ 122'
1720	50		37	5	Pump 150 SK Common @ 14.8'
1725					SHUT DOWN / Drop Plug
1730			36.5	4	Pump Disp
1734	150		(14.5 IN)	4	CMT TO PIT / 22 Bbls to pit
1738	250			2	SLOW RATE
1740	1000			2	LAND PLUG
1741					Release FLOAT
1800					JOB COMPLETE

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TREATMENT REPORT

Customer ID		Date	
Customer <i>Cabot Oil & Gas</i>		<i>4-2-04</i>	
Lease <i>Lemert</i>		Lease No.	Well # <i>3-27</i>
Field Order # <i>8247</i>	Station <i>Liberal</i>	Casing <i>4 1/2</i>	Depth <i>2711</i>
Type Job <i>4 1/2 L.S. New Well</i>		County <i>Seward</i>	State <i>Ks.</i>
Formation		Legal Description: <i>27-335-34W</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>4 1/2</i>	Tubing Size	Shots/Ft	<i>Lead Cmt.</i>	Acid <i>310 sk. A Serv Lite (Common)</i>	RATE	PRESS	ISIP	
Depth <i>2711</i>	Depth	From	To	Pre Pad <i>3% C.C. 1/4" Cellflake,</i>	Max <i>8.0</i>	<i>1500</i>	5 Min.	
Volume <i>43.1</i>	Volume	From	To	Pad <i>6% Gel</i>	Min <i>5.0</i>	<i>100</i>	10 Min.	
Max Press <i>2000</i>	Max Press	From	<i>Tail Cmt.</i>	Frac <i>175 sk. 50/50 Poz (Premium)</i>	Avg <i>6.5</i>	<i>800</i>	15 Min.	
Well Connection <i>P.C.</i>	Annulus Vol.	From	To	<i>2% Gel, 5% CalSet, 4% FLA-322,</i>	HHP Used		Annulus Pressure	
Plug Depth <i>2665</i>	Packer Depth	From	To	Flush <i>3% Gas Block, 1/4" Cellflake</i>	Gas Volume		Total Load	

Customer Representative <i>Josh Wheeler</i>	Station Manager <i>Dirk Morris</i>	Treater <i>Bobby Drake</i>
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Service Units	<i>105</i>	<i>28</i>	<i>38</i>	<i>72</i>	<i>47</i>	<i>70</i>			
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Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1330</i>					<i>On Location - Safety Meeting</i>
<i>1520</i>					<i>Running Csg.</i>
<i>1525</i>					<i>Csg. on Bottom</i>
<i>1540</i>	<i>100</i>		<i>5</i>	<i>5.0</i>	<i>Hook up to Csg. - Circ. w/ Rig</i>
<i>1541</i>	<i>150</i>		<i>11</i>	<i>5.3</i>	<i>H2O Ahead</i>
<i>1543</i>	<i>100</i>		<i>16</i>	<i>5.0</i>	<i>Mud Flush</i>
<i>1550</i>	<i>100</i>		<i>138</i>	<i>8.0</i>	<i>H2O Spacer</i>
<i>1609</i>	<i>100</i>		<i>45</i>	<i>5.5</i>	<i>Mix head Cmt. @ 12.2#/gal 310 sks.</i>
<i>1619</i>					<i>Mix Tail Cmt. @ 13.8#/gal 175 sks.</i>
<i>1620</i>					<i>Clear Pump & Lines</i>
<i>1622</i>	<i>100</i>			<i>7.0</i>	<i>Release Plug</i>
<i>1627</i>	<i>600</i>		<i>30</i>	<i>6.5</i>	<i>Start Disp</i>
	<i>1500</i>		<i>42.5</i>		<i>Lift Pressure</i>
					<i>Plug Down</i>
					<i>Circulated Cmt. To Pit</i>
					<i>Job Complete</i>
					<i>Thanks, Bobby</i>

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