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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 Corporation PH#: 316-684-9777
License: 5141

API No. 15 - 175-21923-00-00
County: Seward
NE NW NE Sec. 13 Twp. 33 S. R. 34 East West
330' feet from S / (N) (circle one) Line of Section
1650' feet from (E) / W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) (NE) SE NW SW
Lease Name: Reimer Well #: 3-13
Field Name: Hugoton

Wellsite Geologist: None
Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW 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: 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. _____
3/22/04 3/26/04 4-8-04
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

Producing Formation: Chase Group
Elevation: Ground: 2883' Kelly Bushing: 2893'
Total Depth: 2860' Plug Back Total Depth: 2796'
Amount of Surface Pipe Set and Cemented at 639 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.

Drilling Fluid Management Plan ALT#1 KJR 5/29/07
(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.: _____

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: 4/16/04
Subscribed and sworn to before me this 16th day of April,
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

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Operator Name: Cabot Oil & Gas Corporation Lease Name: Reimer Well #: 3-13
 Sec. 13 Twp. 33 S. R. 34 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:

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
Herrington	2574	2893 KB
U. Krider	2600	2893 KB
L. Krider	2654	2893 KB
Winfield	2683	2893 KB
Ft. Riley	2738	2893' KB

GR/CCL/CBL (Primary Log 2810'-2300')

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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#, J-55 ST&C	639'	A Lite & Cls A Common	210	3% CaCl ₂ +1/4#/sx cf
						150 Total 360	2% CaCl ₂ +1/4#/sx cf
Production	7-7/8"	4-1/2"	11.6#, J-55 LT&C	2,850'	Class A Common	460	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
2	Herrington 2574'-2582', U. Krider 2600'-2620'	Total Job: 249 bbls 15% HCl+179 ball sealers 1.3 SG	
2	L. Krider 2648'-2666', Winfield 2694'-2709'	Flushed w/29 bbls 2% KCl water.	

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. 4-13-04		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	266 MCFD	0	NA	.07119

Disposition of Gas Vented Sold Used on Lease (If vented, Submit ACO-18.) METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify) _____ Production Interval _____

Casing Record Continued

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Reimer 3-13
330' FNL & 1650' FEL
NW/4 NE/4 Sec.13-T33S-R34W
Seward County, KS
API# 15-175-21923-00-00

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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	639'	A Lite	210	Lead: 3% CaCl2+1/4#/sx Celloflake
"	"	"	"	"	Class A Common	150	Tail: 2% CaCl2+.1/4#/sx Celloflake
						360 Total	
Production	7-7/8"	4-1/2"	11.6# J-55 ST&C	2,850'	A-Serv Lite	310	250 gal of Mud Flush, 3% CaCl2+1/4#/sx Celloflake.
"	"	"	"	"	50:50 poz (Premium)	150	Tail: 5# gilsonite, 3% KCl .4% fla-322, 2% gel (total), 1/4#/sx CF, 3% gas block 13.8# yield, 1.43 cu ft/sx. Displaced w/44.5 bls 2% KCl wtr.
						460 Total	

REIMER 3-13



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TREATMENT REPORT

Customer ID	Date	
Customer	3-22-04	
Lease	Lease No.	Well #
REIMER		3-13
Field Order #	Station	Casing
7516	LIBERAL	8 5/8
Type Job	Formation	Depth
8 5/8 Surface (NW)		640
County		State
SEWARD		KS
Legal Description		
13-33S-34W		

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
8 5/8				210 SH A-SERV LITE				5 Min.
Depth	Depth	From	To	Pre-Pack		Max		
640				150 SH COMMON		Min		10 Min.
Volume	Volume	From	To	Pad		Avg		15 Min.
38				Frac		HHP Used		Annulus Pressure
Max Press	Max Press	From	To	81 LC. / 36.5 TC.		Gas Volume		Total Load
1000				Flush				
Well Connection	Annulus Vol.	From	To	WATER				
P.C.								
Plug Depth	Packer Depth	From	To					

Customer Representative	Station Manager	Treater
JOSH WHEELER	DICK MORRIS	Shawn FREDERICK

Service Units	108	28	38	72
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Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2330					RECEIVED KANSAS CORPORATION COMMISSION
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0045					CONSERVATION DIVISION WICHITA, KS
0145					CONSERVATION DIVISION WICHITA, KS
0220					CONSERVATION DIVISION WICHITA, KS
0350					CONSERVATION DIVISION WICHITA, KS
0400					CONSERVATION DIVISION WICHITA, KS
0415					CONSERVATION DIVISION WICHITA, KS
0420	200		81		Called out for job
0435	Ø		36.5		ON LOCATION / RIG DRILLING
0440					Through drilling / pull D.P.
0443	Ø		38	5	D.P. OUT OF HOLE / RIG UP CASERS
0447	150		(13 in)	5	START IN W/ CASING / F.E.
0455	300			2	CASING ON BOTTOM / RIG UP P.C.
0500	800			2	BREAK CIR & RIG
0502					THROUGH CIR / Hook lines to P.T.
0600					Pump 210 SH A Serv lite @ 12.2"
					Pump 150 SH Common @ 148"
					SHUT DOWN / Drop Plug
					Pump Disp
					CMT TO PIT (2554S)
					SLOW RATE
					LAND PLUG
					Release Float - HELD
					JOB Complete



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TREATMENT REPORT

Customer ID		Date	
Customer CARBOT OIL + GAS		3-26-04	
Lease REIMER		Lease No.	Well # 3-13
Field Order # 7550	Station LIBERAL	Casing 4 1/2	Depth
Type Job 4 1/2 Longstring (NW)	Formation	County SEWARD	State KS
Legal Description 13-335-34W			

PIPE DATA		PERFORMING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 4 1/2	Tubing Size	Shots/Ft	119	Acid	310 SK A SERV LITE	RATE	PRESS	ISIP
Depth 2833	Depth	From	To 38	Pre Pad	150 SK 50/50 P02	Max		5 Min.
Volume 44.5	Volume	From	To	Pad	25 SK 60/40	Min		10 Min.
Max Press 1500	Max Press	From	To	Flow	250 GAL MUD FLUSH	Avg		15 Min.
Well Connection J.C.	Annulus Vol.	From	To	Flush	WATER	HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To			Gas Volume		Total Load

Customer Representative: Justin Wheeler Station Manager: Dick Morris Trailer: Shaun Frederick

Service Units	108	28	38	72	34	71		
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Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1830					ON LOCATION / RIG Pulling D.P.
2010					D.P. OUT OF HOLES / RIG up cases
2015					PRE-JOB SAFETY MEETING
2020					RIG-up P.T
2030					START IN hole w/ casing / PT
2045					CASING ON Bottom / Hook up PT
2220					BREAK CIRC w/ RIG
2320					THROUGH CIRC H. of Lines to pump truck
2333	250		5	6	Pump 5 BBLS WATER
2334	200		6	6	Pump 6 BBLS (250 gal) MUD FLUSH
2335	250		5	6	Pump 5 BBLS WATER
2336	250		119	6	Pump 310 SK A SERV LITE @ 12.2#
0010				4	Pump 150 SK 50/50 P02 @ 13.8#
0020					SHUT DOWN / Drop Plug / WASH LINES
0023	400		44.5	4	PUMP DISPLACEMENT
0029	900		(34 M)	2	SLOW RATE
0033	1500			2	LAND PLUG
0034					RELEASE PLUG - HELD
0130					JOB Complete

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INVOICE NO.	Subject to Correction			FIELD ORDER 7550	
Date 3-26-04	Lease REIMER	Well # 3-13	Legal 19-33s-34w		
Customer ID	County SEWARD	State KS	Station LIBERAL		
CHARGE	Depth CABOT O.L.T.GAS	Formation	Shoe Joint 45		
	Casing 4 1/2	Casing Depth 2853	TD	Job Type 4 1/2 inch string (nw)	
	Customer Representative JOHN WHEELER		Treater STAN FREDERICK		
	(Zenith #1)				

AFE Number	PO Number	Materials Received by X John Wheeler
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Product Code	QUANTITY	MATERIAL, EQUIPMENT and SERVICES USED	UNIT PRICE	AMOUNT	ACCOUNTING	
					CORRECTION	AMOUNT
D206	310 SH	A SERV Linc (common)				
D104	150 SH	50/50 Puz (Pcm)				
D703	25 SH	600/40 Puz (common)				
C321	630 lb	Gilsonite				
C311	630 lb	LAL SET				
C140	236 lb	KCL				
C145	51 lb	FLA-322				
C310	810 lb	CALCIUM CHLORIDE				
C194	99 lb	CELLFLAKE				
C312	40 lb	GAS BLOCK				
F142	1 ea	TOP RUBBER PLUG				
C302	250 gal	MUD FLUSH				
C140	350 lb	KCL (Flush) (Disp)				
3701	1 ea	HEAD Rental				
E107	485 SH	MTT Service Charge				
101	12 mi	P.O. Mileage				
100	12 mi	UNITS 1 MILES 1 way				
104	251 Tm	TONS 21 MILES 12				
3306	1 ea	EA. 4 hrs PUMP CHARGE				
Discounted TOTAL						
PLUS TAX						6,843.41

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