

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

API NO. 15- 175215110000 **ORIGINAL**

County Seward

CNE/4 - - - Sec. 24 Twp. 33S Rge. 34 X<sup>E</sup>

3960 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:  
(NE) SE, NW or SW (circle one)

Lease Name Blair Well # 2-24

Field Name Hugoton

Producing Formation Chase Group

Elevation: Ground 2870 KB 2875

Total Depth 2918 PBDT 2869

Amount of Surface Pipe Set and Cemented at 581 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan ALT 1 8/24 3-4-97  
(Data must be collected from the Reserve Pit)

Chloride content 5000 ppm Fluid volume 2000 bbls

Dewatering method used Evaporation, dryout, backfill

Location of fluid disposal if hauled offsite:

Operator Name **RELEASED**

Lease Name JUL 2 1 1997 License No. \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

County \_\_\_\_\_ Docket No. \_\_\_\_\_

Operator: License # 6120

Name: Cabot Oil & Gas Corporation

Address 9400 N. Broadway, Suite 608

City/State/Zip Oklahoma City, OK 73114

**CONFIDENTIAL**

Purchaser: Cabot Oil & Gas Marketing

Operator Contact Person: Steve Turk

Phone (405) 478-6501

Contractor: Name: H-40 Drilling

License: 30692

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)

If Workover/Re-Entry: old well info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Deepening  Re-perf.  Conv. to Inj/SWD  
 Plug Back  PBDT  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

11-24-95 11-26-95 12-11-95  
Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 on 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 [Signature]  
Title Operations Manager Date 3-14-96

Subscribed and sworn to before me this 14th day of March, 19 96.

Notary Public [Signature]

Date Commission Expires 1-26-97

**K.C.C. OFFICE USE ONLY**  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other (Specify)  
RECEIVED  
KANSAS CORP COM  
APR 18 1996

Operator Name Cabot Oil & Gas Corporation Lease Name Blair Well # 2-24  
 Sec. 24 Twp. 33S Rge. 34  East County Seward  
 West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken  Yes  No  Log Formation (Top), Depth and Datums  Sample  
 (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:  
 CBL/GR/CCL

Name	Top	Datum
Herington	2582	
Krider	2610	
Winfield	2698	
Ft. Riley	2760	

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"	28#/ft	581	Prem.Plus Lite	270	2% CaCl + 1/4#/sk flocele
Production	7-7/8"	4-1/2"	10.5#/ft	2909	35/65 Poz Class "C"	380 225	6% gel, 2% CaCl, 1/4#/sk celloflake

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	Chase Group 2655-2668; 2616-2624; 2585-2592	1000 gal 15% NE/FE HCl, 9492 gal 50% 20% NE/FE HCl, 154,000 CuFt N2 2585-2668

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-1/16"	2714		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj.	Producing Method
1-30-96	<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-	164	-0-	N/A	N/A

Disposition of Gas:  Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled

METHOD OF COMPLETION

Production Interval 2585-2668

(If vented, submit ACO-18.)

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 03-12-7889 DATE 11-28-95  
 STAGE DS DISTRICT WYSSSES, KS

DS-496-A PRINTED IN U.S.A.

WELL NAME AND NO. **Blair #2-24** LOCATION (LEGAL) **Sec 24-33S-34W**  
 FIELD-POOL **Augoton** FORMATION **Seward**  
 COUNTY/PARISH **Seward** STATE **Ks.** API. NO. **CONFIDENTIAL**  
 NAME **Cabot Oil-Gas**  
 AND **CONFIDENTIAL**  
 ADDRESS **CONFIDENTIAL**  
 ZIP CODE **CONFIDENTIAL**

RIG NAME: **Chryenne #8**

WELL DATA:		BOTTOM	TOP
BIT SIZE <b>7 7/8</b>	CSG/Liner Size <b>4 1/2</b>		
TOTAL DEPTH <b>2978</b>	WEIGHT <b>10.5</b>		
<input checked="" type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE <b>2909</b>		<b>ORIGINAL</b>
MUD TYPE	GRADE <b>555</b>		
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT	THREAD <b>8ed</b>		
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S) <b>32</b>		TOTAL
MUD VISC.	Disp. Capacity <b>45.7</b>		

NOTE: Include Footage From Ground Level To Head In Disp. Capacity

SPECIAL INSTRUCTIONS

IS CASING/TUBING SECURED?  YES  NO

LIFT PRESSURE **1922** PSI CASING WEIGHT = SURFACE AREA (3.14 x R<sup>2</sup>)

PRESSURE LIMIT **1590** PSI BUMP PLUG TO **1590** PSI

ROTATE RPM **17** RECIPROCATATE FT No. of Centralizers **17**

Float	TYPE	DEPTH	Stage Tool	TYPE	DEPTH
	<b>Insert Float Valve</b>	<b>2877</b>			
	<b>Pattern</b>	<b>2909</b>			

Head & Plugs  TBG  D.P. SQUEEZE JOB

Double  SIZE  WEIGHT  GRADE  THREAD

Single  WEIGHT  GRADE  THREAD

Swage  GRADE  THREAD

Knockoff  THREAD

TOOL TYPE DEPTH

TAIL PIPE: SIZE DEPTH

TUBING VOLUME Bbls

CASING VOL. BELOW TOOL Bbls

TOTAL Bbls

ANNUAL VOLUME Bbls

JOB SCHEDULED FOR TIME **11:30** DATE **11-28-95** ARRIVE ON LOCATION TIME **2:30** DATE **11-27-95** LEFT LOCATION TIME **0:30** DATE **11-28-95**

TIME	PRESSURE		VOLUME PUMPED bbl		JOB SCHEDULED FOR TIME DATE			ARRIVE ON LOCATION TIME DATE			LEFT LOCATION TIME DATE		
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME	DATE	TIME	DATE	TIME	DATE
22:45	3300							PRE-JOB SAFETY MEETING + PSI Test					
22:47	0		10		6	H2O		start H2O ahead					
22:49	310		46		6	CMT	12.2	start lead CMT					
23:01	230		75		6	CMT	12.2	psi check					
23:14	190		53		4	CMT	14.8	start tail CMT					
23:18	320		24		6	CMT	14.8	psi check					
23:22	0							shutdown wash pump lines deep top plug					
23:25	0		45.7		5	H2O		start displacement 2% H2O + 255					
23:28	200		10		5	H2O		psi check					
23:30	370		20		5			RELEASED					
23:32	600		30		5			" "					
23:33	640		35		2.3			lower rate JUL 21 1997					
23:35	750		40		2.3			psi check					
23:36	830		43		2.3			" "					
23:37	900		45		2.3			" "					
23:37	1590		45.7		2.3			bump top plug					
23:38								bleed psi or check float + holding					

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	380	2.15	class C + 6% gel + 2% cacl2 + 1/4 #1029				145.5	17.2
2.								
3.	225	1.32	class C + 2% cacl2 + 1/4 #1029				52.8	14.8
4.								
5.								
6.								

BREAKDOWN FLUID TYPE  HESITATION SQ.  RUNNING SQ.  CIRCULATION LOST  YES  NO

BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. **45.7** Bbls

Washed Thru Perfs  YES  NO TO FT. MEASURED DISPLACEMENT  WIRELINE

PERFORATIONS TO TO TO TO

CUSTOMER REPRESENTATIVE **Carl Cowan** DS SUPERVISOR **James Esquivel**



# HALLIBURTON JOB SUMMARY

DIVISION: LIBERAL LOCATION: LIBERAL, KS

BILLED ON TICKET NO. 880664

CUSTOMER

LIBERAL, KS

LIBERAL, KS

LIBERAL, KS

LIBERAL, KS

LIBERAL, KS

LIBERAL, KS

LIBERAL, KS

## WELL DATA

FIELD: \_\_\_\_\_ SEC: 24 TWP: 33 RANG: 34W COUNTY: SEWARD STATE: KS

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_  
 FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_  
 INITIAL PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD  
 PRESENT PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD  
 COMPLETION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ MUD WT. \_\_\_\_\_  
 PACKER TYPE \_\_\_\_\_  
 BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_  
 MISC DATA \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

**CONFIDENTIAL**

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	U	28	8 7/8	KB	581	
LINEAR						
TUBING						
OPEN HOLE			12 1/4	KB	581	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**ORIGINAL**

## JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>11-24-95</u>	DATE <u>11-24-95</u>	DATE <u>11-24-95</u>	DATE <u>11-25-95</u>
TIME <u>1730</u>	TIME <u>1730</u>	TIME <u>2345</u>	TIME <u>0030</u>

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>T. BROADBENT</u>	<u>420045</u>	<u>LIBERAL, KS</u>
<u>C. CORNELSON</u>	<u>52747</u>	<u>"</u>
<u>S. PORTER</u>	<u>4673</u>	<u>LIBERAL, KS</u>
<u>G. 9613</u>	<u>6610</u>	<u>"</u>

## TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
<u>8 7/8</u>		
<u>INSERT</u>	<u>1</u>	<u>H</u>
<u>7 1/2</u>	<u>1</u>	<u>D</u>
<u>3-4</u>	<u>3</u>	<u>W</u>
<u>5W</u>	<u>1</u>	<u>C</u>
<u>1 1/2</u>	<u>1</u>	<u>D</u>

## MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. API  
 DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. API  
 PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.  
 ACID TYPE \_\_\_\_\_ GAL. %  
 SURFACTANT TYPE \_\_\_\_\_ GAL. IN  
 NE AGENT TYPE \_\_\_\_\_ GAL. IN  
 FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. IN  
 GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB. IN  
 FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. IN  
 BREAKER TYPE \_\_\_\_\_ GAL.-LB. IN  
 BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB.  
 PERFPAC BALLS TYPE \_\_\_\_\_ QTY.  
 OTHER \_\_\_\_\_

**RELEASED**

**JUL 21 1998**

**FROM CONFIDENTIAL**

DEPARTMENT: CEMENT  
 DESCRIPTION OF JOB: CEMENT 8 7/8" SURFACE C-36  
 JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.   
 CUSTOMER REPRESENTATIVE: X - Quintillo  
 HALLIBURTON OPERATOR: J. Br... COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>170</u>	<u>PREM PLUS</u>	<u>B</u>	<u>B</u>	<u>2% CC - 1/4" FLOCCULE</u>	<u>2.36</u>	<u>12.5</u>
<u>1</u>	<u>100</u>	<u>PREM PLUS</u>	<u>B</u>	<u>B</u>	<u>2% CC 1/4" FLOCCULE</u>	<u>1.32</u>	<u>14.0</u>

## PRESSURES IN PSI

## SUMMARY

## VOLUMES

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRESURE: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_  
 BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
 AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. 33.6  
 SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_ CEMENT SLURRY: BBL.-GAL. 63-24  
 HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. 120.6  
 ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ REMARKS: MSSS LEFT ON LOT  
 AVERAGE RATES IN BPM \_\_\_\_\_  
 TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
 CEMENT LEFT IN PIPE \_\_\_\_\_  
 PRET: 4260 REASON: SHUT IN

P.S

FIELD OFFICE

MAR 14 1996 01:33PM HALLIBURTON LIBERAL