

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

Operator: License # 6120

Name: Cabot Oil & Gas Corporation

Address 7400 E. Orchard Rd.
Suite 3600

City/State/Zip Englewood, CO 80111

Purchaser: Williams Natural Gas

Operator Contact Person: Craig Andersen

Phone 303, 721-5844

Contractor: Name: Big "A" Drilling

License: 31572

Wellsite Geologist: Kenneth M. LeBlanc

Designate Type of Completion
 New Well Re-Entry Workover

Oil SUD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Reentry: Old Well Info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SUD
 Plug Back PBTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SUD or Inj?) Docket No. _____

6-29-98 7-10-98 8-5-98

Spud Date 6-29-98 Date Reached TD 7-10-98 Completion Date 8-5-98

API NO. 15- 175-21735-0001

County Seward

CW/2 SE SE SW Sec. 14 Twp. 34 Rge. 34 E W

660 Feet from N (circle one) Line of Section

1,980 Feet from E (circle one) Line of Section

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

Lease Name Keating "B" Well # 1

Field Name Hugoton S.A.G. Pool

Producing Formation Chase

Elevation: Ground 2,918' KB 2,928'

Total Depth 6,700' PBTD 3,177'

Amount of Surface Pipe Set and Cemented at 1,673' 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 A.H. 1, 11-24-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 5,800 ppm Fluid volume 200 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name N/A License No. _____

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

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 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 Craig Andersen

Title Engineer Date 10-7-98

Subscribed and sworn to before me this 7th day of October, 19 98.

Notary Public John A. Arnold

Date Commission Expires 12-9-98

K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SUD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
		<input type="checkbox"/> NGPA
		<input type="checkbox"/> Other
		(Specify)

Operator Name Cabot Oil & Gas Corporation Lease Name Keating "B" Well # 1

Sec. 14 Twp. 34 Rge. 34
 East
 West

County Seward

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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Upper Krider	2,655'	RKB
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lower Krider	2,697'	RKB
List All E.Logs Run:		Winfield	2,744'	RKB
Micro-Sphically Focused		Ft. Riley	2,804'	RKB
Micro-Log				

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"	23#	1,673'	Prem.Plus	460	0.3% CC&1/4#sxFlo.
Production	7 5/8"	4 1/2"	14.5#	3,250'	Prem.Plus	365	6% Halad322

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 checked="" type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	3,370'	Prem. Plus	30	w/6%CaCl(Yield 1.32 cuft/sx)

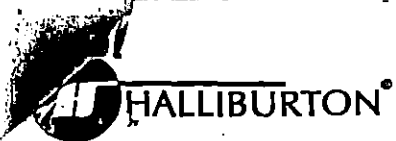
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)		Depth
	4 spf	2,662-74'; 2,698'-2,724'		3,000 gal 7 1/2% HCl	
			8,200 gal 15% HCl	2,724'	

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		2 3/8"	2,766'	RKB N/A		
Date of First, Resumed Production, SWD or Inj.			Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
8/21/98						
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	
	0	101	3.5		0.6795	

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

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Conningled Other (Specify) _____

Production Interval Upper Krider
Lower Krider



JOB LOG 4239-5

TICKET #	383043	TICKET DATE	6-30-98
REGION	North America	BDA / STATE	KS
MBU ID / EMP #	210103-F41550	PSL DEPARTMENT	Zonal Isolation
LOCATION	Liberal, KS	CUSTOMER REP / PHONE	
TICKET AMOUNT		CONSERVATION #	010
WELL LOCATION	Land	JOB PURPOSE CODE	
LEASE / WELL #	Keating B-1	SEC / TWP / RNG	14-34S-34
Wichita, Kansas			

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
426040			
53554-76960			
52276-7649			
52827-75237			

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psl)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	09:30							Called out for SOB
	11:30							On Location - Rig Drilling
	1320							START SB DP
	1420							OUT of Hole with Drill Pipe / Rig up casens
	1445							START 8 5/8 FE
	1535							Casing on Bottom
								Hook up PC & Circ. Iron
	1541							START circulating
	1544							Circ TO PIT
	1550							Thru circulating
	1555	7.0	206	✓		150		Pump 360 SKS L.C 11.1 #/gal
	1628	6.0	23.5	✓		70		Pump 100 SKS T.C 14.8 #/gal
	1632	0	229.5	✓		0		SHUT DOWN Drop Plug
	1623	6.5	105.2	✓		130		Pump Displacement
	1645	6.0	105.2	✓		420		25BBS in (CMT TO PIT)
	1648	3.0	105.2	✓		320		25BBS in slow rate
	1653	3.0	105.2	✓		320 900		Land Plug
	1654	0	105.2	✓		100 0		Release Float - Held
	1700		105.2	✓				JOB over

Thanks For calling Halliburton
Tyce, Brian & crew

ORIGINAL

P.O. BOX 951046
DALLAS, TX 75395-1046
Corporate FIN 73-0271280

INVOICE

JUL 20 1998



HALLIBURTON ENERGY SERVICES
A Division of Halliburton Company

INVOICE NO.	DATE
393979	07/14/1998

WELL LEASE NO./PROJECT KEATING B-1	WELL/PROJECT LOCATION SEWARD	STATE KS	OWNER SAME
SERVICE LOCATION LIBERAL	CONTRACTOR	JOB PURPOSE SHOWN BELOW	TICKET DATE 07/14/1998
ACCT. NO. 133400	CUSTOMER AGENT DON NOREUIL	VENDOR NO.	CUSTOMER P.O. NUMBER
		SHIPPED VIA COMPANY TRUCK	FILE NO. 43918

ORIGINAL

DIRECT CORRESPONDENCE TO:

CABOT OIL & GAS CORPORATION
7400 EAST ORCHARD ROAD
SUITE 360
ENGLEWOOD, CO 80111

P O BOX 1598
LIBERAL KS 67901

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
JOB PURPOSE - COMBINATION PLUG BACK & CASING					
000-117	MILEAGE CEMENTING ROUND TRIP	10 MI		3.65	36.50
		1 UNT.			
000-119	MILEAGE FOR CREW	10 MI		2.15	21.50
		1 UNT.			
001-016	CEMENTING CASING	3250 FT		1,938.00	1,938.00
		1 UNT.			
045-050	COMPUPAC SYSTEM W/HALLIBURTON	1 JOB		760.00	760.00
		1 DAY			
009-308	PLUG-BACK & CASING JOB COMBO	10 HR		2,266.00	2,266.00
018-315	MUD FLUSH	500 GAL		.80	400.00
5A	FLOAT SHOE-SSII-4-1/2 BRD	1 EA		253.00	253.00
837.00300					
4A	FLOAT COLLAR-SSII-4-1/2 BRD	1 EA		373.75	373.75
836.00300					
40	CENTRALIZER 4-1/2 X 7-7/8	15 EA		59.00	885.00
806.60004					
66	CLAMP-LIMIT-4 1/2-FRICT-W/DOGS	1 EA		17.65	17.65
806.72720					
350	HALLIBURTON WELD-A-AL FILLED	1 EA		18.43	18.43
890.10802					
030-016	CEMENTING PLUG SW ALUM TOP	4 1/2 IN		50.00	50.00
		1 EA			
504-050	CEMENT - PREMIUM PLUS	305 SK		15.69	4,765.45
504-282	MIDCON-2 PREMIUM PLUS CEMENT	115 SK		18.48	2,125.20
509-406	ANHYDROUS CALCIUM CHLORIDE	2 SK		46.90	93.80
507-775	HALAD-322	155 LB		7.70	1,193.50
507-210	FLOCELE	98 LB		2.09	204.82
500-207	BULK SERVICE CHARGE	437 CFT		1.66	725.42
500-306	MILEAGE CMTG MAT DEL OR RETURN	504.063 TMI		1.25	630.08

***** CONTINUED ON NEXT PAGE *****

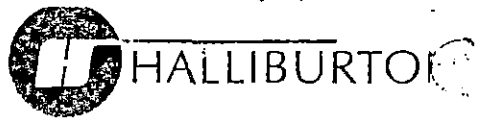
TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest of any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

AFFIX JOB_TKT

ORDER NO. 10900

PAGE: 1

ORIGINAL



P.O. BOX 951046
DALLAS, TX 75395-1046
Corporate FIN 73-0271280

INVOICE

HALLIBURTON ENERGY SERVICES
A Division of Halliburton Company

INVOICE NO.	DATE
383979	07/14/19

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
KEATING B-1		SEWARD		KS	SAME
SERVICE LOCATION	CONTRACTOR		JOB PURPOSE		TICKET DATE
LIBERAL			SHOWN BELOW		07/14/19
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE #
133400	DON NOREUIL			COMPANY TRUCK	439

DIRECT CORRESPONDENCE TO:

CABOT OIL & GAS CORPORATION
7400 EAST ORCHARD ROAD
SUITE 360
ENGLEWOOD, CO 80111

P O BOX 1598
LIBERAL KS 67901

ORIGINAL

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	JOB PURPOSE SUBTOTAL				16,778.10
	INVOICE SUBTOTAL				16,778.10
	DISCOUNT-(BID)				5,375.39
	INVOICE BID AMOUNT				11,402.71
	*-KANSAS STATE SALES TAX				389.53
	*-LIBERAL CITY SALES TAX				79.50
	*-SEWARD COUNTY SALES TAX				119.24

COGC A/P CONTROL	
Perking slip or work tickets	_____
P.O / price checked	_____
Math checked	_____
Invoice approval when needed	_____
Voucher #	7-27-95

KANSAS OIL & GAS
1999 JUL - 9 D 1:55

INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====> \$11,990.98

AFFIX JOB TKT

ORDER NO. 10900

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest of any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

PAGE:



HALLIBURTON ENERGY SERVICES

1906-0

CHARGE TO
 ADDRESS Cabot Oil & Gas Corp
 7400 E Orchard Rd ste 360
 CITY, STATE, ZIP CODE Englewood, Colo. 80111

No. 303079 -
 PAGE 1 OF 2

SERVICE LOCATIONS 1. Liberal	WELL/PROJECT NO. B-1	LEASE Keating	COUNTY/PARISH Seward	STATE KS	CITY/OFFSHORE LOCATION REUBEN	DATE 7-14-98	OWNER Same
2. Hugaton	TICKET TYPE <input checked="" type="checkbox"/> SERVICE	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR Big A	RIG NAME/NO. #1	SHIPPED VIA	DELIVERED TO: wellsite	ORDER NO.
3.	WELL TYPE 02	WELL CATEGORY 01	JOB PURPOSE 675	WELL PERMIT NO.	WELL LOCATION 14-345-34w		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

JOB PURPOSE	PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
			LOC	ACCT	DF			U/M		U/M	
	000-117		1		30	MILEAGE pumpTrk	10	mi	1	ea	36.50
	000-119		1		30	crew mileage	10	mi	1	ea	21.50
	001-016		1		30	pump charge	3250	ft		hrs	1938.00
	045-050		1		75	Comp pipe	1	job	1	ea	760.00
	009-308		1		30	comb Plug back a csg 8-16hrs	10	hr			2266.00
	018-315		1		30	Mud Plug	500	gal	1	gal	180
	5A	837.00300	1		30	SSII Float Shoe	4 1/2	in	1	ea	253.00
	4A	836.00300	1		30	SSII Float Collar	4 1/2	in	1	ea	373.75
	4D	806.60004	1		30	Centralizers	4 1/2	in	15	ea	59.00
	66	806.72720	1		30	Limit Clamp	4 1/2	in	1	ea	17.65
	35D	890.10802	1		30	Weld A	1	lb	1	ea	1843
	030-016		1		30	5-W Top Plug	4 1/2	in	1	ea	50.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.	TYPE LOCK	SUB-SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN			PAGE TOTAL 7019.83
	BEAN SIZE	TYPE OF EQUALIZING SUB.		CASING PRESSURE	FROM CONTINUATION PAGE(S) 9758.27
	DEPTH	TUBING SIZE	TUBING PRESSURE	WELL DEPTH	16778.11
	SPACERS	TREE CONNECTION		TYPE VALVE	SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES - The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) Dan Noreuil	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) X Dan Noreuil	HALLIBURTON OPERATOR/ENGINEER Nick Korbe	EMP # H 3115	HALLIBURTON APPROVAL Larry Smith *
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TICKET CONTINUATION

TICKET No. 383979

HALLIBURTON ENERGY SERVICES

CUSTOMER CaBOT OIL & GAS

WELL KEATING B-1

11:35 PM
7/13/98

PAGE OF

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF		U/M	U/M			
504-050				30	Premium Plus	305	sk	\$15.69	\$4,785.45	
504-282				30	Premium Plus Midcon	115	sk	\$18.48	\$2,125.20	
509-406				30	Calcium Chloride	2	sk	\$46.90	\$93.80	
507-775				30	HALAD-322	155	lb.	\$7.70	\$1,193.50	
507-210				30	Flocele	98	lb.	\$2.09	\$204.82	
ORIGINAL										
500-207					SERVICE CHARGE		CUBIC FEET	437	1.66	\$725.42
500-306					MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES		
						40,325	25	504.063	1.25	\$630.08

CONTINUATION TOTAL \$ 9,758.27

No. B 330005

REGION North America	UNITRY MidCont USA	SQA / STA K5	COUNTY Seward
MBU ID / EMP # MCL0110 H3115	EMPLOYEE NAME Nick Korbe	PSL DEPAR. MENT Z T	
LOCATION Liberal	COMPANY Cabot Oil & Gas	CUSTOMER REP / PHONE Don Norcuil	
TICKET AMOUNT \$16,778.10	WELL TYPE 02	API / UWI #	
WELL LOCATION NW of Liberal	DEPARTMENT Cement	JOB PURPOSE CODE 675	
LEASE / WELL # Keating B-1	SEC / TWP / RNG 14-345-34W		

HES EMP NAME/EMP#(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#(EXPOSURE HOURS)	HRS
N. Korbe H3115	12						
S. Tate E0588	12						
R. Ferguson J5802	12						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	fbg	Csg	
	2300							called out
	0100							on loc
								held safety mtg
								setup Trk
								rig on bottom circ
								start balanced plug 3370' 30skt Prem + 14.8"
0233	6.5	0				200		start wtr
0235	5.5	10/0				200		start cnt
0236	5.5	7/0				175		start wtr
0237	5.5	3/0				150		start mud
0244	5.5	42				0		cnt balanced
	0730							start F.C.
	0800							15jts circ
	0900							50jts circ
	0940							on bottom circ
	1028	4	0			50		start M.F.
	1032	5.5	12/0			125		start cement 115 skt Mid Con PP 11.1"
	1044	5.5	66/0			100		start cement 225 skt Prem Plus 14.8"
	1056		25			100		end cnt
	1057							wash pump + line
	1059							release plug
	1100	6.5	0			75		start disp
	1104	6.5	25			20		catch cement
	1110	3	51			600/1000		Bump Plug
								release eyes
								flatheld
								rack up Trk
								wash up Trk
								Job complete
								Thank you
								Nick, Senny, Roscoe