FORM MUST BE TYPED

ORIGINAL

SIDE ONE

CONFIDENTIAL

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 9400 N. Broadway, Suite 608

City/State/Zip Oklahoma City, OK 73114

Purchaser: CABOT OIL & GAS MARKETING CORP.

Operator Contact Person: Jim R. Pendergrass

Phone (405) 478-6514

Contractor: Name: H-40 DRILLING, INC. KCC

License: 30692 MAR 1

Wellsite Geologist: CONFIDENTIAL

Designate Type of Completion
X New Well ____ Re-Entry ____ Workover

____ Oil ____ SWD ____ SIOW ____ Temp. Abd.
X 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 ____ PBTD
____ Commingled Docket No.
____ Dual Completion Docket No.
____ Other (SWD or Inj?) Docket No.

12/7/93 Spud Date | 12/19/93 Date Reached TD | 1/21/94 Completion Date

API NO. 15- 175,21351-00-00

County SEWARD

C - NW4 - SW4 - Sec. 2 Twp. 34S Rge. 34 X E W

1980 Feet from (S) N (circle one) Line of Section

660 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 KEATING STEPHENS Well # 5-2

Field Name ADAMSON

Producing Formation CHESTER

Elevation: Ground 2900' KB

Total Depth 6700' PBTD 6481'

Amount of Surface Pipe Set and Cemented at 1545 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 CB 7-25-94
(Data must be collected from the Reserve Pit)

Chloride content 4000 ppm Fluid volume 10000 bbls

Dewatering method used EVAPORATION / DEWATER / DRY OUT/ BACK FILL

Location of fluid disposal if hauled offsite:

Operator Name RELEASED

Lease Name License No.

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

County Docket No. MAY 24 1995

FROM CONFIDENTIAL

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 James R Henry JIM R. HENRY

Title ENGINEER Date 2/23/94

Subscribed and sworn to before me this 23 day of FEBRUARY, 19 94.

Notary Public Connie Turner

Date Commission Expires SEPTEMBER 2, 1996

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)

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STATE CORPORATION COMMISSION
3-3-94
MAR 03 1994
CONSERVATION DIVISION
Wichita, Kansas

SIDE TWO

Operator Name CABOT OIL & GAS CORPORATION Lease Name KEATING STEPHENS Well # 5-2

Sec. 2 Twp. 34S 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.) ☐ 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:

DUAL INDUCTION - SFL
COMPENSATED NEUTRON-LITHO-DENSITY
MICROLOG

☒ Log **Formation (Top), Depth and Datums** ☐ Sample

Name	Top	Datum
Herrington	2629	
Krider	2691	
Winfield	2745	
Council Grove	2999	
B/Heebner	4291	
Toronto	4300	
Lansing	4422	
Checkerboard	4954	
Marmaton	5097	
Oswego	5193	
Cherokee	5318	
Atoka	5573	
TD	6700	

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 #/Ft.	1545'	Halco Lite	550	2% cc
					Class "H"	150	
Production	7-7/8"	5-1/2"	15.5 #/Ft.	6572'	50/50 "H" Poz	165	5/10% CFR3 2/10 Dol Air 12-½% Gilsonite
DV Tool				2984'	50/50 "H" Poz	450	

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top	Depth Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
___ Perforate					
___ Protect Casing					
___ Plug Back TD					
___ 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	6305'-6349'	CHESTER	Acidize Chester w/5000 gals 7½% NE/FE HCl Acid	6305'-6349'
			Frac Chester w/59400 gals Boragel 30 + 127300# 16/30 Sand	6305'-6349'

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-3/8"	6263.97'		☐ Yes ☒ No

Date of First, Resumed Production, SWD or Inj. First Production 2/1/94

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		1000 MCFPD			

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

METHOD OF COMPLETION ☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled

Production Interval 6305'-6349'

HALLIBURTON JOB SUMMARY

HALLIBURTON DIVISION: OK City

HALLIBURTON LOCATION: Liberal KS

CONFIDENTIAL

BILLED ON TICKET NO. 649696

ORIGINAL

WELL DATA

FIELD ______ SEC ______ TWP. ______ RNG. ______ 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 ______ SET AT ______

BOTTOM HOLE TEMP. ______ PRESSURE ______

MISC. DATA ______ TOTAL DEPTH ______

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	24	8 5/8	KB	1548	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 12-8-93 TIME 0630	DATE 12-8-93 TIME 0900	DATE 12-8-93 TIME 2345	DATE 12-9-93 TIME 12:48

TOOLS AND ACCESSORIES

TYPE AND SIZE		QTY.	MAKE
FLOAT COLLAR			
FLOAT SHOE	Insert	1	Hg
GUIDE SHOE	RCG	1	
CENTRALIZERS	5 7/8	13	W
BOTTOM PLUG			
TOP PLUG	5 Wiper	1	C
HEAD	PC	1	
PACKER			
OTHER	Basket		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
O Nicholas 41525	40078	Liberal
W Fox	50404	"
D 4437	5060	
A Clark	3626	Hugoton
G 2724	5303	
m Lewis	51981	"
C 2896	7620	

KCC

MAR 1

CONFIDENTIAL

MATERIALS

TREAT. FLUID ______ DENSITY ______ LB/GAL.-°API

DISPL. FLUID ______ DENSITY ______ LB/GAL.-°API

PROP. TYPE ______ SIZE ______ LB. ______

PROP. TYPE ______ SIZE ______ LB. ______

ACID TYPE ______ GAL. ______ %

ACID TYPE ______ GAL. ______ %

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 ______

OTHER ______

DEPARTMENT Cement

DESCRIPTION OF JOB ______

JOB DONE THRU: TUBING ☐ CASING ☒ ANNULUS ☐ TBG./ANN. ☐

CUSTOMER REPRESENTATIVE X Carl Cowan

HALLIBURTON OPERATOR Orville L Nicholas COPIES REQUESTED ______

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	550	Prem H Light			2% CC 1/4# Flocele	2.00	12.4
	150	Premium			2% CC	1.08	16.4

RELEASED

MAY 24 1995

FROM CONFIDENTIAL

PRESSURES IN PSI / SUMMARY

CIRCULATING ______ DISPLACEMENT ______

BREAKDOWN ______ MAXIMUM ______

AVERAGE ______ FRACTURE GRADIENT ______

SHUT-IN: INSTANT ______ 5-MIN. ______ 15-MIN. ______

PRESLUSH: BBL.-GAL. ______ TYPE ______

LOAD & BKDN: BBL.-GAL. ______ PAD: BBL.-GAL. ______

TREATMENT: BBL.-GAL. ______ DISPL: BBL.-GAL. 95.37

CEMENT SLURRY: BBL.-GAL. 224.7

TOTAL VOLUME: BBL.-GAL. ______

HYDRAULIC HORSEPOWER

ORDERED ______ AVAILABLE ______ USED ______

AVERAGE RATES IN BPM

TREATING ______ DISPL. ______ OVERALL ______

CEMENT LEFT IN PIPE

FEET ______ REASON ______

REMARKS

Circulated Cement 35 BBLs

RECEIVED STATE CORPORATION COMMISSION

MAR 03 1994

CONSERVATION DIVISION Wichita, Kansas

CUSTOMER: Cobalt Oil & Gas

LEASE: Keating Stephens

WELL NO. 5-2

JOB TYPE: 8 5/8 Surface

DATE: 12-8-93

FIELD OFFICE

HALLIBURTON CONFIDENTIAL

JOB LOG FORM 2013 R-4

DATE 12-8-93 PAGE NO.

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
Cabot Oil & Gas	5-2	Keating Stephens	8 5/8 Surface	649696

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	0630							Called out
	0900							on location
								Rig up
								safety meeting
								Discuss Job with Ops Comm
	1200							Run Pipe
	1310							H.T bridge
	1330							Circulate would not Go
	1400							Pull Pipe Run Drill Pipe in
								and circulate To bottom
								Pull Drill Pipe
								Run Pipe
								Circulate with Rig Pump
					V		250	Hook up cement Iron
	2345	6	191		V		250	Start lead cement
	1217	6	25		V		250	Start Tail cement
	1224	0						Release Plug
	1226	6			V		250/600	Disp bbc Plug
	1233	6	65		V		600	Circulate cement
	1242	0	90		V		400	Shut down
					V		400	Drop up d.Tch
	1248	1	5		V		900	Pump Disp and Land plug
								Release Psi Check Float OK
								Circulated 35 bbl Cement

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MAY 24 1995

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MAR 03 1994
CONSERVATION DIVISION
Wichita, Kansas

FIELD OFFICE

FEB 28 '94 11:35AM HALLIBURTON LIBERAL P.5/9

HALLIBURTON JOB SUMMARY

HALLIBURTON DIVISION: MID-CONT. CONFIDENTIAL
HALLIBURTON LOCATION: LIBERAL
BILLED ON TICKET NO.: 641839

WELL DATA

FIELD _____ SEC. _____ TWP. _____ RNG. _____ 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 DV CEMENTER SET AT 2990'
BOTTOM HOLE TEMP. _____ PRESSURE _____
MISC. DATA _____ TOTAL DEPTH 6700

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	15.5	5.5	KB	6575	
LINER						
TUBING						
OPEN HOLE			7 7/8	8 5/8	6700	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR 5.5 5 1/2	1	Howco
FLOAT SHOE 5.5	1	
GUIDE SHOE		
CENTRALIZERS 5-4-FLUSH JOINT	10 2990'	
BOTTOM PLUG 5.5 DV	1	
TOP PLUG BASKET	1	
HEAD FASCRAP	1	
PACKER		
OTHER		

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. °API
DISPL. FLUID _____ DENSITY _____ LB/GAL. °API
PROP. TYPE _____ SIZE _____ LB. _____
PROP. TYPE _____ SIZE _____ LB. _____
ACID TYPE _____ GAL. _____ %
ACID TYPE _____ GAL. _____ %
ACID TYPE _____ GAL. _____ %
SURFACTANT TYPE _____ GAL. _____
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. _____
PERFAC BALLS TYPE _____ QTY. _____
OTHER 20 BBL SUGAR FLUSH
OTHER _____

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MAY 24 1995
FROM CONFIDENTIAL

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
KINSINGER C1293	38242	LIBERAL
DAVE F4550	75491	"
CONFLOW 62569	5837	NEODESHA
MARTINEZ 62931	7420	"
	KCC	
	MAR 1	

DEPARTMENT 5001
DESCRIPTION OF JOB 5 1/2 DV CEMENTER CONFIDENTIAL

JOB DONE THRU: TUBING ☐ CASING ☑ ANNULUS ☐ TBG./ANN. ☐

CUSTOMER REPRESENTATIVE X Carl Cowan
HALLIBURTON OPERATOR KINSINGER COPIES REQUESTED

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK/SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	165	50/50 H "A2"		B	.5% CFR-3 - .2% DEAIR-1 - 12 1/2 # GILSONITE	1.25	14.4
					10% SALT	1.54	13.9
2	450	50/50 H "A2"		B	- SAME	1.25	14.4

SUMMARY

PRESSURES IN PSI
CIRCULATING _____ DISPLACEMENT _____
BREAKDOWN _____ MAXIMUM _____
AVERAGE _____ FRACTURE GRADIENT _____
SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____

HYDRAULIC HORSEPOWER
ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM
TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE
FEET 24.7 REASON SHOE JOINT

VOLUMES
PRESFLUSH: BBL. 10 GAL. 10-2-10 TYPE H2O/KCL/S.F
LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
TREATMENT: BBL.-GAL. _____ DISPL. BBL. 154 GAL. 154
CEMENT SLURRY: BBL. 394 GAL. 45
TOTAL VOLUME: BBL.-GAL. _____

REMARKS
DV Cementer @ 2990'

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MAR 03 1994
CONSERVATION DIVISION
Wichita, Kansas

FIELD OFFICE

FEB 28 '94 11:38AM HALLIBURTON LIBERAL P.8/9

HALLIBURTON CONFIDENTIAL

JOB LOG FORM 2013 R-1

DATE 12-15-93 PAGE NO. 1

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
Cabot	A-2	Keating Stanley	5½ DUAL	449959

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	0700							Called - Arrived 1100
	1120							Go Location - Rig up - Cdda
	1130							Bit on Floor - Rig up Tri-State "Dual"
	1200							Run 5½ Casing
	1630							Casing on Hook up To Mud Pump
	1640							Hole Circulating - Safety Mtg
	1700							Start Mud Pump Down Hook up To Csg Line
	1707	3	10	✓			150	Pump 10 BBL H2O
	1710	3	2	✓			150	Pump Gel Spacer
	1711	3	10	✓			150	Pump 10 BBL Super Flush
	1714	6	245	✓			250	Pump 145 SX Scavenger
	1723							Scavenger on - Shut Down - Drop Plug
	1726	6	20	✓			100	Start H2O Displacement
	1740	6	80	✓			125	H2O on - Start Mud Displacement
	1750	6-2	65	✓			500/300	Slow Rate
	1755		74	✓			300/0	Plug Down - Release Press. Float Held
	1758							Drop Opening Device
	1814		4	✓			1250/0	Pump To Open Tool - Opened @ 1250 PSI
						RELEASED		Pumped 60 BBL Mud - Shut Down - Started
						MAY 2 4 1995		Circ To Mud Pump - Circ - Lasted 5 HR
	2340							Start Mud Pump Down Hook up To Csg Line
	2303	3	10	FROM CONFIDENTIAL			100	Pump 10 BBL H2O
	2306	3	2	✓			100	Pump Gel Spacer
	2307	3	10	✓			100	Pump 10 BBL Super Flush
	2310	6	123	✓			250	Pump 450 SX Scavenger @ 13.9 #
	2330							Scavenger on - Shut Down - Drop Casing Plug
	2335	6		✓			100	Start H2O Displacement
	2343	6-2	60	✓			500/400	Slow Rate
	2348		71	✓			500/0	Plug Down - Release Press - Tool Held
								Tool Closed @ 1250 PSI
								Released Some Longyear
								Rig Down

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Wichita, Kansas

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