

SIDE ONE

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 Petroleum Corporation

Address 9400 N. Broadway, Suite 608

City/State/Zip Oklahoma City, OK 73114

Purchaser: Williams Natural Gas Company

Operator Contact Person: Jim R. Pendergrass

Phone ( 405 ) 478-6514

Contractor: Name: H-30 Drilling, Inc.

License: 5107

Wellsite Geologist: Earth Tech

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  Temp. Abd.

Gas  Inj  Delayed Comp.

Dry  Other (Core, Water Supply, etc.)

If OWD: old well info as follows:

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

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

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

Drilling Method:

Mud Rotary  Air Rotary  Cable

March 15, 1991; March 20, 1991; July 19, 1991

Spud Date \_\_\_\_\_ Date Reached TD \_\_\_\_\_ Completion Date \_\_\_\_\_

API NO. 15- 175-21,173-00-00

County Seward

SE/4 Sec. 12 Twp. 33S Rge. 34  East  West

1387 Ft. North from Southeast Corner of Section

1390 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

Lease Name Vickers Well # 2-12

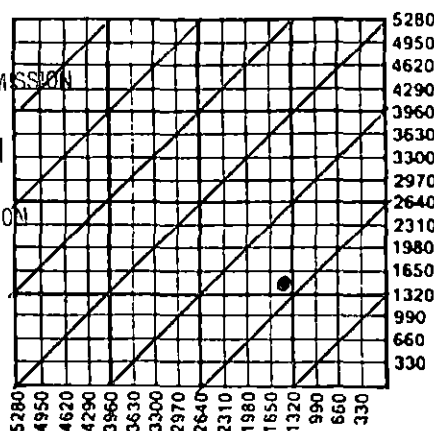
Field Name Hugoton

Producing Formation Chase

Elevation: Ground 2871' KB 2883'

Total Depth 3,450' PBD 2822'

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JUL 31 1991  
CONSERVATION DIVISION  
Wichita, Kansas



Handwritten notes and a signature, possibly 'A12'.

Amount of Surface Pipe Set and Cemented at 1623 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set N/A Feet

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

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

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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: Jim R. Pendergrass

Title Drilling Superintendent Date July, 1991

Subscribed and sworn to before me this 29 day of July, 1991.

Notary Public Roberta E. Mitchell

Date Commission Expires November 9, 1992

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Drillers Timelog Received  
Distribution  
KCC  SWD/Rep \_\_\_\_\_ NGPA  
KGS \_\_\_\_\_ Plug \_\_\_\_\_ Other \_\_\_\_\_  
(Specify)

Handwritten number '81'.

ORIGINAL

SIDE TWO

Operator Name Cabot Petroleum Corporation Lease Name Vickers Well # 2-12

Sec. 12 Twp. 33S 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  Yes  No (Attach Additional Sheets.)  
Samples Sent to Geological Survey  Yes  No  
Cores Taken  Yes  No  
Electric Log Run  Yes  No (Submit Copy.)

Name	Formation Description	
	Top	Bottom
Red Bed and Shale	0	2,135'
Shale and Red Bed	2,135'	2,475'
Shale	2,475'	2,805'
Shale and Lime	2,805'	3,450'
Rotary Total Depth		3,450'

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#	1,623'	Lite Wt. Class H	650	2% cc
Production	7-7/8"	4-1/2"	10.5#	2,850'	Lite Wt. Class H	420	2% cc

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
1 spf	Ft. Riley 2720-23	acidized w/500 gal 15% HCL @ 1BPM	
1 spf	Winfield 2672-76; 2680-89	acidized w/1000 gal 15% HCL & Fraced 6450gals	
1 spf	Krider 2576-83; 2615-30; 2634-39	acidized Krider & Herrington	
1 spf	Herrington 2549-56	w/2500 gals 15% HCL & 76 BS Fraced Winfield, Krider & Herrington	

TUBING RECORD Size 2 3/8" Set At 2672' Packer At N/A Liner Run  Yes  No

Date of First Production \_\_\_\_\_ Producing Method  Flowing  Pumping  Gas Lift  Other (Explain) \_\_\_\_\_  
Estimated Production Per 24 Hours Oil Bbls. Gas Mcf 900 Water Bbls. Gas-Oil Ratio \_\_\_\_\_ Gravity \_\_\_\_\_

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.) METHOD OF COMPLETION  Open Hole  Perforation  Dually Completed  Commingled  Other (Specify) \_\_\_\_\_ Production Interval \_\_\_\_\_

CEMENTING SERVICE REPORT



TREATMENT NUMBER 0312-3644	DATE 3-16-91
STAGE DS	DISTRICT W-5595 KSA

DOWELL SCHLUMBERGER INCORPORATED

DS-496 PRINTED IN U.S.A.

WELL NAME AND NO. Vickers 2-12	LOCATION (LEGAL) SEC 12-33S-34W	RIG NAME: H30 Rig #1	ORIGINAL
FIELD-POOL	FORMATION	WELL DATA:	BOTTOM TOP
COUNTY/PARISH	STATE Kansas	API. NO.	
NAME Cabot		BIT SIZE 12 1/4	CSG/Liner Size
AND		TOTAL DEPTH	WEIGHT 24 #
ADDRESS		<input checked="" type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE 1625'
ZIP CODE		MUD TYPE	GRADE K55
SPECIAL INSTRUCTIONS		<input type="checkbox"/> BHST <input type="checkbox"/> BHCT	THREAD 8Rd.
		MUD DENSITY	LESS FOOTAGE SHOE JOINT(S) 44'
		MUD VISC.	Disp. Capacity 101 BLS

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

Float	TYPE	DEPTH	1581	TYPE	DEPTH
Stage Tool	TYPE	DEPTH	1625	TYPE	DEPTH

IS CASING/TUBING SECURED?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Head & Plugs	<input type="checkbox"/> TBG <input type="checkbox"/> D.P.	SQUEEZE JOB:
LIFT PRESSURE	668 PSI	<input type="checkbox"/> Double	SIZE	TOOL TYPE
PRESSURE LIMIT	PSI	<input checked="" type="checkbox"/> Single	WEIGHT	DEPTH
ROTATE	RPM RECIPROCATATE- FT No. of Centralizers	<input type="checkbox"/> Swage	GRADE	TAIL PIPE: SIZE DEPTH
		<input type="checkbox"/> Knockoff	THREAD	TUBING VOLUME Bbls
		<input type="checkbox"/> NEW <input type="checkbox"/> USED	DEPTH	CASING VOL. BELOW TOOL Bbls
				TOTAL Bbls
				ANNUAL VOLUME Bbls

TIME	PRESSURE	VOLUME PUMPED BBL	JOB SCHEDULED FOR TIME: 0600 DATE: 3-16-91	ARRIVE ON LOCATION TIME: 0600 DATE: 3-16-91	LEFT LOCATION TIME: 13:45 DATE: 3-16-91
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TIME	PRESSURE		VOLUME PUMPED BBL		INJECT. RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM				
11:43								PRE-JOB SAFETY MEETING Psi test (2500)
11:44		80psi	10			8.32		Start H <sub>2</sub> O Ahead
11:45		110	212			12.4		Start Lead Slurry
12:23		100	38			16.4		Start TAIL Slurry
12:36								Shutdown, Drop Top Plug
12:38			101			8.32		Start Displacement
13:04		1120						Bump Plug
13:10								End Job

WARRANTY  
JUL 31 1991  
OPERATIONS DIVISION  
Wichita Kansas

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS			SLURRY MIXED BBLs. DENSITY		
			1.	2.	3.	BBLs.	DENSITY	
1.	600	1.98	35/65 #2/H	+ 6% DZO	+ 2% S1	+ 1/4 #1/K D29	212	12.4
2.	200	1.05	Class H	+ 2% S1			38	16.4
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX.	MIN.
<input type="checkbox"/> HESITATION SO.	<input type="checkbox"/> RUNNING SO.	CIRCULATION LOST:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Cement Circulated To Surf.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
BREAKDOWN	PSI FINAL	PSI	DISPLACEMENT VOL.	101 Bbls	TYPE OF WELL
Washed Thru Peris	<input type="checkbox"/> YES <input type="checkbox"/> NO	FT.	MEASURED DISPLACEMENT:	<input type="checkbox"/> WIRELINE	<input checked="" type="checkbox"/> OIL <input type="checkbox"/> GAS <input type="checkbox"/> STORAGE <input type="checkbox"/> INJECTION <input type="checkbox"/> BRINE WATER <input type="checkbox"/> WILDCAT
PERFORATIONS	TO TO	CUSTOMER REPRESENTATIVE	DS.	SUPERVISOR	

CEMENTING SERVICE REPORT



DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 0512-3046	DATE 3/20/91
STAGE DS	DISTRICT 045225 KS

DS-496 PRINTED IN U.S.A.

WELL NAME AND NO. **Vickers # 2-12**

FIELD-POOL **Mugston Field**

COUNTY/PARISH **Seward**

LOCATION (LEGAL)

FORMATION **Chase**

STATE **KANSAS**

API. NO.

NAME **Cabot**

AND

ADDRESS

ZIP CODE

RIG NAME: **H30 #1**

WELL DATA:

BIT SIZE <b>7 7/8</b>	CSG/Liner Size <b>4 1/2</b>	BOTTOM	TOP
TOTAL DEPTH	WEIGHT	<b>10.5</b>	
<input checked="" type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE	<b>2880</b>	
MUD TYPE	GRADE		
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT	THREAD	<b>83</b>	
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)		TOTAL
MUD VISC.	Disp. Capacity	<b>9834</b>	<b>45.1 bbl</b>

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

SPECIAL INSTRUCTIONS

**Provide Materials + Services To apply cement 4 1/2 production string**

IS CASING/TUBING SECURED?  YES  NO

LIFT PRESSURE **1902** PSI CASING WEIGHT - SURFACE AREA- (3.14 x R<sup>2</sup>)

PRESSURE LIMIT PSI BUMP PLUG TO **1100** PSI

ROTATE  RPM  RECIPROCATE  FT No. of Centralizers

Float	TYPE: <b>Flange Collar</b>	TYPE
DEPTH	<b>9836</b>	DEPTH
STAGE	TYPE: <b>Cmt. Uzer</b>	TYPE
DEPTH	<b>2880</b>	DEPTH

Head & Plugs  TBG.  D.P.

Double  Single  Swage  Knockoff

SIZE:  WEIGHT:  GRADE:  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 **0000** DATE **3/20/91**

ARRIVE ON LOCATION: TIME **0000** DATE **3/20/91**

LEFT LOCATION: TIME **0500** DATE **3/20/91**

TIME	PRESSURE		VOLUME PUMPED est.		JOB SCHEDULED FOR		
	TBG OR D.P.	CASING	INCREMENT	CUM.	INJECT RATE	FLUID TYPE	FLUID DENSITY
03:20	200	14	1	-	1	15.0	8.33
03:23	NA	150	90	-	5.9	15.0	-
03:30		210	148	-	5.9	Cmt	12.4
03:54		160	50	-	4.0	Cmt	15.6
04:06		110	-	-	-	-	-
04:11		90	45.1	-	5.9	15.0	8.33
04:17		540	-	-	2.6	11.2	8.33
04:20		1100	-	-	1.9	11.2	8.33
04:21		310	-	-	-	11.2	8.33
04:24	0	0	-	-	-	-	-

SERVICE LOG DETAIL

PRE-JOB SAFETY MEETING: **psi Test done**

**150 ahead w/ CW**

**Start dead cmt**

**Start Tail Cmt**

**Shot down wash line**

**Start Displacement**

**Lower pump st.**

**Bump plug**

**Release psi**

**Job done**

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STATE CURATOR'S COMMISSION

JUL 31 1991

CURTIS W. HARRIS, CURATOR

WICHITA, KANSAS

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED		
			1	2	3	4	BBLs	DENSITY	
1.	430	1.98	5 1/2%	70% H	+ 6% Q20	+ 2% sl.	+ 1/4" #15K Q29	148.1	12.4
2.	240	1.18	Class H	+ .8% Q20	+ 2% sl.			50.4	15.6
3.									
4.									
5.									
6.									

BREAKDOWN FLUID TYPE

HESITATION SQ.  RUNNING SQ. CIRCULATION LOST  YES  NO Cement Circulated To Surf.  YES  NO **10** Bbls

BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. **45.1** Bbls

Washed Thru Perfs  YES  NO TO FT. MEASURED DISPLACEMENT  WIRELINE

PERFORATIONS TO TO TO TO

CUSTOMER REPRESENTATIVE: **John Hanna**

DS SUPERVISOR: **Greg Black**