

ORIGINAL

RELEASED

APR 09 1992

CONFIDENTIAL KCC

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

FROM CONFIDENTIAL 156-00-00

County Seward MAR 14

C NW NW Sec. 1 Twp. 33S Rge. 33E East

4620 Ft. North from Southeast Corner of Section

4620 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

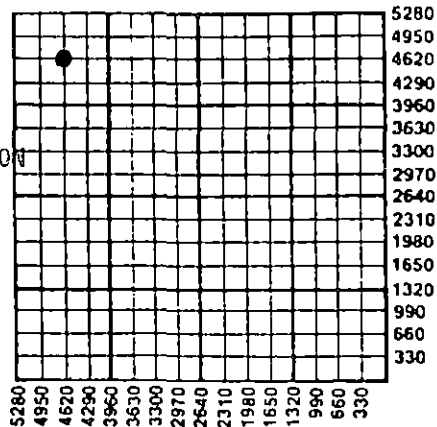
Lease Name Lee Well # 2

Field Name Hitch

Producing Formation Morrow

Elevation: Ground 2877' KB 2888'

Total Depth 6,410' PBTD 5860'



Amount of Surface Pipe Set and Cemented at 1,667 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 2977 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Operator: License # 6120

Name: Cabot Petroleum Corporation

Address 9400 N. Broadway, Suite 608

City/State/Zip Oklahoma City, OK 73114

Purchaser: PANHANDLE EASTERN PIPELINE Co.

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 ~~OWO~~ old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

1-28-91 2-6-91 2-25-91

Spud Date Date Reached TD Completion Date

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 Roberta E. Mitchell

Title Roberta E. Mitchell, Regulatory Coordinator 3/14/91

Subscribed and sworn to before me this 14 day of March, 19 91.

Notary Public Nellie J. Mercer

Date Commission Expires Nellie J. Mercer - February 4, 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)

CONFIDENTIAL

SIDE TWO

Operator Name Cabot Petroleum Corporation Lease Name Lee Well # 2

Sec. 1 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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Formation Description <input type="checkbox"/> Log <input checked="" type="checkbox"/> Sample Name Top Bottom Shale and Lime 0 6,410' Rotary Total Depth 6,410'
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

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#	1,667'	Lite wt.	680	2% cc
Production	7-7/8"	5-1/2" DV Tool	15.5#	6,408'	Class "H"	200	2% cc
				2,977'	50-50 Poz.	300	
					50-50 Poz.	210	

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4 spf	6111'-12'-13'-14'-15'-17'-18'-19'- 6120'-21'-22'-23'	1000 gals 7-/12% NE-FE Acid + 1176 gals 2% KCL Water	40 BS
2 spf	5623'-47'	300 gals NARS 200, 12,000 SCF 2000 gals 7 1/2% MSR, 100 + NE Agent + 400 SCF N ²	N ²

TUBING RECORD Size 2 3/8" Set At 5512' Packer At CIBP @ 5860' Liner Run Yes No

Date of First Production ** WOPL Producing Method Flowing Pumping Gas Lift Other (Explain)

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

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

METHOD OF COMPLETION

Open Hole Perforation Dually Completed Commingled Other (Specify) _____

** Waiting on pipeline



TREATMENT NUMBER: 0312-3552 DATE: 02-07-91
 STAGE: 1 DS DISTRICT: Ulysses, Ks.

DS-496 PRINTED IN U.S.A.

DOWELL SCHLUMBERGER INCORPORATED

WELL NAME AND NO. **CEL #2**
 LOCATION (LEGAL) **SEC 1-33-34W**
 FIELD-POOL **HITCH**
 INFORMATION **CONFIDENTIAL**
 COUNTY/PARISH **SEWARD**
 STATE **KANSAS** API. NO.
 NAME **CAROT PETRO.**
 AND
 ADDRESS
 ZIP CODE

RIG NAME: **H-30 #1**
 WELL DATA: BIT SIZE **7 7/8** CSG/Liner Size **5 1/2** BOTTOM: **1100** TOP:
 TOTAL DEPTH **6,402.73** WEIGHT **15.5**
 HOT CABLE FOOTAGE **6,402.73**
 MUD TYPE GRADE **MAR 14**
 BHST BHCT THREAD **8 1/2**
 MUD DENSITY LESS FOOTAGE SHOE JOINT(S) **66.8** **CONFIDENTIAL**
 MUD VISC. Disp. Capacity **150.8** **2.8**

SPECIAL INSTRUCTIONS
2-STAGE CEMENT 5 1/2
1st STAGE

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

Foot.	TYPE		Stage Tool	TYPE	
	DEPTH	6,335.91		DEPTH	2,977.24
SHOE	TYPE		Stage Tool	TYPE	
	DEPTH	6,402.73		DEPTH	

IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE **4135** PSI CASING WEIGHT ÷ SURFACE AREA (3.14 x R²)
 PRESSURE LIMIT PSI BUMP PLUG TO PSI
 ROTATE RPM RECIPROCATE **15** FT No. of Centralizers

Head & Plugs TBG D.P. SQUEEZE JOB
 Double SIZE TOOL TYPE
 Single WEIGHT DEPTH
 Swage GRADE TAIL PIPE: SIZE DEPTH
 Knockoff THREAD TUBING VOLUME Bbls
 TOP OR W NEW USED CASING VOL. BELOW TOOL Bbls
 BOT OR W DEPTH TOTAL Bbls
 ANNUAL VOLUME Bbls

JOB SCHEDULED FOR TIME: **0600** DATE: **02-7** ARRIVE ON LOCATION TIME: **0600** DATE: **2-7** LEFT LOCATION TIME: DATE:

TIME	PRESSURE		VOLUME PUMPED bbl		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM				
1259								PRE-JOB SAFETY MEETING PSI TEST (2530)
1301		120	10.0		6.0	CMW100	8.32	START CHEM. WASH!
1304		220	62.0		6.0	CMW1	14.9	START CEMENT
1322								SHUTDOWN & DROP 1 st PLUG
1324		200	81.0		6.0	H ₂ O	8.32	START DISPLACEMENT (H ₂ O)
1330		300	69.0			MUD		START DISPLACEMENT (MUD)
1350		1100			1.0			BUMP 1 st PLUG
1358		570			-	H ₂ O	8.32	BRINE 1 st STAGE

RECEIVED
 STATE REGULATION COMMISSION

MAY 12 1991

WICHTA DIVISION
 Wichita, Kansas

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED		
			BBLs	DENSITY	BBLs	DENSITY			
1.	300	1.16	50% H ₂ O	7% D110	10% D44	.5% D65	2% D46	6.2	14.9
2.									
3.									
4.									
5.									
6.									

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE MAX. **1100** MIN: **0**
 HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO Cement Circulated To Surf. YES NO Bbls
 BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. **150** Bbls TYPE OF WELL OIL GAS STORAGE INJECTION BRINE WATER WILDCAT
 Washed Thru Perfs YES NO TO FT. MEASURED DISPLACEMENT WIRELINE
 PERFORATIONS TO TO CUSTOMER REPRESENTATIVE **FRANK BURKE** DS SUPERVISOR **BRIAN S MARCUPPO**

CEMENTING SERVICE REPORT

DS-496 PRINTED IN U.S.A.



DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER	DATE
0512-3552	02-07-91
STAGE	DISTRICT
2	WYSSFS, KS

WELL NAME AND NO. **LEE #2**

LOCATION (LEGAL) **SEC 1-33-3700**

FIELD-POOL **HITCH**

FORMATION **ST. LOUIS MAR 1**

COUNTY/PARISH **SEWARD**

STATE **KANSAS**

API. NO. **CONFIDENTIAL**

RIG NAME: **H 30 #1**

WELL DATA: **CONFIDENTIAL**

BIT SIZE 7 8	CSG/Liner Size 5 1/2	TOP
TOTAL DEPTH	WEIGHT 15.5	CONFIDENTIAL
PROT/CABLE	FOOTAGE 6,402.73	
MUD TYPE	GRADE	
<input type="checkbox"/> BHST	THREAD 8 nd	
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)	TOTAL
MUD VISC.	Disp. Capacity 150.0	150.0

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

NAME **CABOT PETRO.**

AND

ADDRESS

ZIP CODE

SPECIAL INSTRUCTIONS

2-Stage Cement 5 1/2

(2) 2nd STAGE

Float	TYPE	DEPTH 6,335.91	Stage Tool	TYPE	DEPTH 2,977.24
SHOE	TYPE	DEPTH 6,402.73		TYPE	

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

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE PSI CASING WEIGHT - SURFACE AREA (3.14 x R²)

PRESSURE LIMIT PSI BUMP PLUG TO PSI

ROTATE **1** RPM RECIPROCATATE **15** FT No. of Centralizers

TIME	PRESSURE		VOLUME PUMPED bbl		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME	DATE	TIME	DATE	TIME	DATE	
0001 to 2400											
2016											
2012		160	10.0		6.0	8.32					
2014		160	43.		6.0	14.9					
2020											
2022		-	70.9		6.0	8.32					
2040		400		65.	2.0						
2045		2000			1.0						
2045		-			-						

SERVICE LOG DETAIL

PREJOB SAFETY MEETING **PSI TEST (2500)**

START CHEM. WASH

START CEMENT

SHUTDOWN & DROP 2nd PLUG

START DISPLACEMENT

LOWER RATE

BUMP 2nd PLUG

END JOB

RECEIVED

STATE CORPORATION COMMISSION

MAY 02 1991

CONSERVATION DIVISION

WICHITA, KANSAS

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS					SLURRY MIXED	
								BBLs	DENSITY
1.	210	1.16	50/50 (Poz H)	2% D20	10% D44	5% D65	2% D76	93.4	14.9
2.									
3.									
4.									
5.									
6.									

BREAKDOWN FLUID TYPE

HESITATION SO. RUNNING SO. CIRCULATION LOST YES NO

Cement Circulated To Surf. YES NO Bbls

BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. **69.5** Bbls

Washed Thru Ports YES NO TO FT. MEASURED DISPLACEMENT WIRELINE

PERFORATIONS TO TO

CUSTOMER REPRESENTATIVE **FRANK BURKE**

DS SUPERVISOR **BRIAN S. MARCUEZZO**