

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

Form ACO-1
September 1999
Form Must Be Typed

ORIGINAL

Operator: License # 4549
 Name: Anadarko Petroleum Corporation
 Address: 1201 Lake Robbins Drive
 City/State/Zip: The Woodlands, TX 77380
 Purchaser: NA
 Operator Contact Person: Jim LaFevers
 Phone: (832) 636-3127
 Contractor: Name: Murfin Drilling Co., Inc.
 License: 30606
 Wellsite Geologist: _____
 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: _____
 Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

6/13/03	6/22/03	7/25/03
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 067-21541-00-00
 County: Grant
S2 SW SW Sec. 21 Twp. 29 S. R. 35 East West
350 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:
 (circle one) NE SE NW (SW)
 Lease Name: Lighty "A" Well #: 1
 Field Name: Wildcat
 Producing Formation: Morrow/Chester
 Elevation: Ground: 2971.5 Kelly Bushing: 2983
 Total Depth: 5700 Plug Back Total Depth: 5642
 Amount of Surface Pipe Set and Cemented at 1796 Feet
 Multiple Stage Cementing Collar Used? Yes No
 If yes, show depth set _____ Feet
 If Alternate II completion, cement circulated from _____
 feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan *file 1 on 10-27-03*
 (Data must be collected from the Reserve Pit)
 Chloride content 1000 ppm Fluid volume 700 bbls
 Dewatering method used _____
 Location of fluid disposal if hauled offsite: **RECEIVED**
KANSAS CORPORATION COMMISSION
OCT 27 2003
 Operator Name: _____ License No.: _____
 Lease Name: _____
 Quarter _____ Sec. _____ Twp. _____ S. R. **CONSERVATION DIVISION**
WICHITA, KS
 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 of 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: Tom Harris
 Title: Env & Reg Admin Date: 10/24/03
 Subscribed and sworn to before me this 24th day of October
20 03
 Notary Public: Bertha Coston
BERTHA COSTON
 Notary Public, State of Texas
 MY COMMISSION EXPIRES
DEC. 3, 2005

KCC Office Use ONLY

Letter of Confidentiality Attached
 If Denied, Yes Date: 1-22-04 DPW
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

Operator Name: Anadarko Petroleum Corporation Lease Name: Lighty "A" Well #: 1
 Sec. 21 Twp. 29 S. R. 35 East West County: Grant

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Chase</td> <td>2430</td> <td>542</td> </tr> <tr> <td>Council Grove</td> <td>2726</td> <td>246</td> </tr> <tr> <td>Marmaton</td> <td>4640</td> <td>-1668</td> </tr> <tr> <td>Morrow</td> <td>5628</td> <td>-2296</td> </tr> <tr> <td>St. Louis</td> <td>5630</td> <td>-2658</td> </tr> </table>	Name	Top	Datum	Chase	2430	542	Council Grove	2726	246	Marmaton	4640	-1668	Morrow	5628	-2296	St. Louis	5630	-2658
Name	Top	Datum																	
Chase	2430	542																	
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St. Louis	5630	-2658																	

CN/MC/LDGR Sonic/GR CCL/GR
 AI/GR/LC/Sp Micro/GR

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	# Sacjs Used	Type and Percent Additives
Surface	12-1/4	8-5/8	22.18	1796	P+MC/P+	420/125	see cmt rpt
Production	7-7/8	5-1/2	15.5	5703	50/50 POZ	180	see cmt rpt

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 <i>(Amount and Kind of Material Used)</i>	Depth
6	5342' - 5358'	Frac: 43364 gals N2 w/ 90,000# 20/40	5342-5358

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		2-7/8	5307			
Date of First, Resumerd Production, SWD or Enhr.		Producing Method				
9/12/03		<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
Estimated Production Per 24 Hours	Oil Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity	
	73	0	324	na	30.2	
Disposition of Gas		METHOD OF COMPLETION		Production Interval		
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>		<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify)		5342'-5358'		

HALLIBURTON JOB SUMMARY

REGION Central Operations	NWA / COUNTRY Mid Continent/USA	SALES ORDER NUMBER 2501898	TICKET DATE
MBU ID / EMPL # MCLI 0110 / 198516	H.E.S. EMPLOYEE NAME JASON CLEMENS	BDA / STATE MC/Ks	COUNTY GRANT
LOCATION LIBERAL	COMPANY ANADARKO PETROLEUM CORP	PSL DEPARTMENT Cement	CUSTOMER REP / PHONE 30 KENNY PARKS 806-595-0980
TICKET AMOUNT \$10,738.21	WELL TYPE 01 Oil	API/UWI #	
WELL LOCATION RYUS	DEPARTMENT ZI	SAP BOMB NUMBER 7521	Cement Surface Casing
LEASE NAME LIGHTY	Well No. A-1	SEC / TWP / RNG 21 - 29S - 35W	HES FACILITY (CLOSEST TO WELL SITE) LIBERAL, KS

HES EMP NAME / EMP # / (EXPOSURE HOURS)	HRS	HRS	HRS	HRS
Clemens, A 198516	8.0			
Cochran, M 217398	8.0			
Oliphant, C 243055	8.0			
Martinez, A 258816	8.0			

H.E.S. UNIT #S / (R / T MILES)	R / T MILES	R / T MILES	R / T MILES	R / T MILES
421269	70			
10251403	70			
10244148/10286731	35			
10011406/10240245	35			

Form. Name _____ Type: _____
 Form. Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Retainer Depth _____ Total Depth _____

Date	Called Out	On Location	Job Started	Job Completed
	6/14/2003	6/14/2003	6/15/2003	6/15/2003
Time	1830	2300	540	700

Tools and Accessories

Type and Size	Qty	Make
Float Collar		HES
Float Shoe		
Centralizers	4	
Top Plug	1	
HEAD	1	
Limit clamp		
Weld-A	1	
Guide Shoe	1	
BTM PLUG		

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	N	23#	8 5/8"		0	1,808	
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole			12 1/4"				Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials

Mud Type	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb
Prop. Type	Size	Lb
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
6/14	1.0	6/15	1.0	Cement Surface Casing
6/15	7.0			
Total	8.0	Total	1.0	

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Ordered	Hydraulic Horsepower Avail.	Used
Treating	Average Rates in BPM	Overall
Feet 44	Cement Left in Pipe	SHOE JOINT
	Reason	

Cement Data

Stage	Sacks	Cement	Bulk/Sks	Additives	W/Rq.	Yield	Lbs/Gal
1	425	MIDCON C		3% CC - 1/2# FLOCELE - .1% FWCA	17.98	2.94	11.40
2	125	PREM PLUS		2% CC - 1/4# FLOCELE	6.30	1.34	14.80
3							
4							

Summary

Circulating Breakdown	Displacement	Preflush: BBI	5.00	Type: FRESH
Lost Returns-Y	MAXIMUM	Load & Bkdn: Gal - BBI		Pad:Bbl -Gal
Cmt Rtrn#Bbl	Lost Returns-N	Excess /Return BBI		Calc. Disp Bbl
Average	Actual TOC	Calc. TOC:		Actual Disp. 116
Shut In: Instant	Frac. Gradient	Treatment: Gal - BBI		Disp:Bbl
	5 Min.	Cement Slurry BBI	253.0	
	15 Min.	Total Volume BBI	374.00	

Frac Ring #1	Frac Ring #2	Frac Ring #3	Frac Ring #4
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THE INFORMATION STATED HEREIN IS CORRECT
 CUSTOMER REPRESENTATIVE _____

SIGNATURE _____

HALLIBURTON JOB LOG				TICKET #	2516119	TICKET DATE	06/22/03
REGION		NWA / COUNTRY		RDA / STATE		COUNTY	
Central Operations		Mid Contitnent/USA		MC/Ks		GRANT	
MBU ID / EMPL #		H.E.S. EMPLOYEE NAME		PSL DEPARTMENT			
MCL10110 212723		JERRAKO EVANS		Cement			
LOCATION		COMPANY		CUSTOMER REP / PHONE		API/UWI #	
LIBERAL		ANADARKO PETROLEUM CORP		STEVE BARTEL		806-595-0979	
TICKET AMOUNT		WELL TYPE					
\$7,225.87		01 Oil					
WELL LOCATION		DEPARTMENT		JOB PURPOSE CODE			
RYUS, KS		CEMENT		Cement Production Casing			
LEASE NAME		SEC / TWP / RNG		HES FACILITY (CLOSEST TO WELL S)			
LIGHTY		21 - 29S - 35W		LIBERAL, KS			
Well No.							
A-1							

EMPLOYEE NAME (LAST, FIRST, MI)	HRS	EMPLOYEE NAME (LAST, FIRST, MI)	HRS	EMPLOYEE NAME (LAST, FIRST, MI)	HRS
Evans, J 212723	7.5				
LEMIEUX, M 266575	7.5				
Deletora, A 259520	7.5				

Chart No.	Time	Rate (BPM)	Volume (BBL)(GAL)	Rate		Press.(PSI)		Job Description / Remarks
				N2	CSG.	Tbg		
	1500							JOB READY
	1100							CALLED OUT FOR JOB
	1200							PRE-TRIP SAFETY MEETING
	1430							PUMP TRUCK ON LOCATION/ JOB SITE ASSESMENT
	1445							RIG UP TRUCKS
								RIG PULLING DP
	1600							RIG UP CASING CREW
	1615							PRE-JOB SAFETY MEETING
	1630							START RUNNING CASING & FE (5 1/2)
	1955							CASING ON BOTTOM (5695 FT)
	2000							HOOK UP PC & CIRC IRON
	2015							CIRC WITH RIG PUMP
								HOOK UP TO PT
	2100	2.0	6.0					PLUG RAT & MOUSE HOLES
	2116				2200			TEST LINES
	2117	5'	5'		0-200			PUMP FRESH WATER SPACER
	2120	6.0	27.0		250			START MIXING LEAD CMT @10# (25 SKS 50/50 POZ)
	2125	6.0	29.0		100			START MIXING TAIL CMT @14.4# (130 SKS 50/50 POZ)
								THROUGH MIXING/ WASH PUMP & LINES
								DROP PLUG
	2134	6.0						START DISP WITH CLA-FIX II, CLA-STA XP
	2151	6.0	108.0		0-325			DISP CAUGHT CMT
	2154	2.0	125.0		475			SLOW RATE
	2159	2.0	135.0		1100			BUMP PLUG
	2200							RELEASE FLOATS HELD
	2201				2000			PSI TEST CASING

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OCT 27 2003
 CONSERVATION DIVISION
 WICHITA, KS

THANKS FOR CALLING HALLIBURTON
 JERRAKO & CREW