

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

API NO. 15- 189-22427-00-00

County STEVENS

 - NW - NE - SE Sec. 32 Twp. 33S Rge. 37 E

2304 Feet from X(S) (circle one) Line of Section

990 Feet from (E)X (circle one) Line of Section

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

Lease Name CRAWFORD "D" Well # 5

Field Name WILDCAT

Producing Formation NONE - D&A

Elevation: Ground 3138 KB

Total Depth 6700 PBDT 0

Amount of Surface Pipe Set and Cemented at 1753 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
(Data must be collected from the Reserve Pit) All in use

Chloride content 1000 ppm Fluid volume 700 bbls

Dewatering method used DRY, BACKFILL & RESTORE LOCATION.

Location of fluid disposal if hauled offsite:

Operator Name RELEASED

Lease Name FROM License No.

 Quarter Sec. Twp. S Rng. E/W

County Docket No.

Operator: License # 4549

Name: ANADARKO PETROLEUM CORPORATION

Address 701 S. TAYLOR, SUITE 400

City/State/Zip AMARILLO, TEXAS 79101

Purchaser: NONE - D&A

Operator Contact Person: JOHN VIGIL

Phone (806) 457-4600

Contractor: Name: MURFIN DRILLING

License: 30606

Wellsite Geologist:

Designate Type of Completion

X New Well Re-Entry Workover

 Oil SWD SLOW Temp. Abd.

 Gas ENHR SIGW

X Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover: KANSAS CORPORATION COMMISSION

Operator:

Well Name:

Comp. Date Old Total Depth

 Deepening Re-perf. WICHITA to Inj/SWD

 Plug Back PBDT

 Commingled Docket No.

 Dual Completion Docket No.

 Other (SWD or Inj?) Docket No.

12-31-2002 01-10-2003 01-11-2003

Spud Date Date Reached TD Completion Date

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JAN 24 2003

WICHITA

RELEASED

FROM

CONFIDENTIAL

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 L. Marc Harvey

L. MARC HARVEY

Title ENGINEERING TECHNICIAN III Date 1-22-03

Subscribed and sworn to before me this 22 day of January

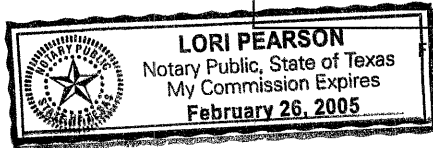
03

Notary Public Lori Pearson

Date Commission Expires 2/26/05

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)



Operator Name ANADARKO PETROLEUM CORPORATION Lease Name CRAWFORD "D" Well # 5

Sec. 32 Twp. 33S Rge. 37 East County STEVENS
 West

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 checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		B/STONE CORRAL	1752	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		CHASE	2622	
List All E.Logs Run: DIL, CNL-LDT, ML, SONIC.				COUNCIL GROVE	2934	
				B/HEEBNER	4196	
				LANSING	4320	
				KANSAS CITY	4758	
				CHEROKEE	5260	
				MORROW	5770	
				CHESTER	6244	
				STE. GENEVIEVE	6402	
				ST. LOUIS	6524	

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"	23.0	1758	P+ MIDCON/ P+	450/100	3%CC, .1%FWCA, 1/2#/SK FC/2%CC, 1/4#/SK FC.

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
___ 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	

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

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

Production Interval: _____ NONE - D&A

HALLIBURTON JOB SUMMARY

SALES ORDER NUMBER 2213281	TICKET DATE 01/02/03
BDA / STATE Ks	COUNTY STEVENS
PSL DEPARTMENT Cement	ORIGINAL
CUSTOMER REP / PHONE GUS SCHWATZ	
API/LMI # 1518922427	SAP BOMB NUMBER 7521
HES FACILITY (CLOSEST TO WELL SITE) Hugoton Ks	

REGION Central Operations	NWA COUNTRY Mid Continent/USA
MBU ID / EMPL # MCL10101 106322	H.E.S. EMPLOYEE NAME Danny McLane
LOCATION LIBERAL	COMPANY ANADARKO PETROLEUM CORPORA
TICKET AMOUNT \$8,897.40	WELL TYPE Oil
WELL LOCATION S/Hugoton Ks	DEPARTMENT Cement
LEASE NAME CRAWFORD	Well No. SEC / TWP / RNG D-5 32 - 33S - 37W

HES EMP NAME / EMP # / (EXPOSURE HOURS)	HRS	HRS	HRS	HRS
McLane, D 106322	6.0			
Tate, N 105953	6.0			
Berumen, E 267804	5.0			
Ferguson, R 106154	5.0			

H.E.S. UNIT #S / (R / T MILES)	R / T MILES	R / T MILES	R / T MILES	R / T MILES
420995	50			
10251401	50			
10243558 6611	5			
10240236 77031	5			

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
	1/2/2003	1/2/2003	1/2/2003	1/2/2003
Time	0000	0300	0630	0800

Tools and Accessories

Type and Size	Qty	Make
Float Collar TS 8 5/8	1	H
Float Shoe		
Centralizers 8 5/8	4	O
Top Plug 8 5/8	1	
HEAD 8 5/8	1	W
Limit clamp		
Weld-A	1	C
Guide Shoe 8 5/8	1	
Basket 8 5/8	1	O

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	New	23.0	8 5/8		GL	1761.51	
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole			12 1/4				Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials

	Density	Lb/Gal
Mud Type		
Disp. Fluid		
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		
Other		

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
1/2		1/2	1.5	Cement Surface Casing
Total		Total	1.5	

Ordered	Hydraulic Horsepower Avail.	Used
Treating	Average Rates in BPM	Overall
	Disp.	
	Cement Left in Pipe	
Feet 45.02	Reason	SHOE JOINT

Cement Data

Stage	Sacks	Cement	Bulk/Sks	Additives	W/Rq.	Yield	Lbs/Gal
1	425	MIDCON C	Bulk	3% CC - 1/2# FLOCELE - .1% FWCA	17.98	2.94	11.40
2	100	PREM PLUS	Bulk	2% CC - 1/4# FLOCELE	6.30	1.34	14.80
3							
4							

Summary

Circulating	Displacement	Preflush:	BBI	5.00	Type:	fresh water
Breakdown	MAXIMUM	Load & Bkdn:	Gal - BBI		Pad:Bbl -Gal	
Lost Returns	Lost Returns	Excess /Return	BBI		Calc.Disp Bbl	110
Cmt Rtrn#Bbl	Actual TOC	Calc. TOC:			Actual Disp.	110
Average	Frac. Gradient	Treatment:	Gal - BBI		Disp:Bbl	
Shut In: Instant	5 Min.	Cement Slurry	BBI	222.5, 23.8		
	15 Min.	Total Volume	BBI	#VALUE!		

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____

THE INFORMATION STATED HEREIN IS CORRECT
 CUSTOMER REPRESENTATIVE _____ SIGNATURE _____

HALLIBURTON JOB SUMMARY

SALES ORDER NUMBER 2228784	TICKET DATE 01/11/03
BDA / STATE MC/Ks	COUNTY STEVENS
PSL DEPARTMENT ZI	ORIGINAL
CUSTOMER REP / PHONE KENNY PARKS	
API/UWI #	SAP BOMB NUMBER 7528
Plug to Abandon <input checked="" type="checkbox"/>	
HES FACILITY (CLOSEST TO WELL SITE) LIBERAL	

REGION Central Operations	NWA / COUNTRY Mid Continent/USA
MBU ID / EMPL # MCL1 0110 / 198516	H.E.S. EMPLOYEE NAME JASON CLEMENS
LOCATION LIBERAL	COMPANY ANADARKO PETROLEUM CORPORA
TICKET AMOUNT \$6,749.18	WELL TYPE OIL
WELL LOCATION HUGOTON	DEPARTMENT ZI
LEASE NAME CRAWFORD	Well No. D-5 SEC / TWP / RNG 32 - 33S - 37W

HES EMP NAME / EMP # / (EXPOSURE HOURS)	HRS	HRS	HRS	HRS
Clemens, A 198516	5.5			
Cochran, M 217398	5.5			
Martinez, Antonio 258816	5.5			

H.E.S. UNIT #S / (R / T MILES)	R / T MILES	R / T MILES	R / T MILES	R / T MILES
421269	50			
10251403	50			
10244148/10286731	5			

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
	1/11/2003	1/11/2003	1/11/2003	1/11/2003
Time	730	1130	1400	1700

Tools and Accessories

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

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing					KB		
Liner							
Liner							
Tubing			4 1/2 DP			3,200	
Drill Pipe							
Open Hole			7 7/8				Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials

	Density	Lb/Gal
Mud Type		
Disp. Fluid		
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	
1/11	5.5	1/11	2.0	Plug to Abandon
				KANSAS CORPORATION COMMISSION
				JAN 24 2003
				CONSERVATION DIVISION
				WICHITA, KS
Total	5.5	Total	2.0	

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

Cement Data

Stage	Sacks	Cement	Bulk/Sks	Additives	W/Rq.	Yield	Lbs/Gal
1	100	40/60 POZ H		6% GEL PLUG @ 3200 FT	7.59	1.53	13.50
2	50	40/60 POZ H		6% GEL PLUG @ 1780 FT	7.59	1.53	13.50
3	40	40/60 POZ H		6% GEL PLUG @ 700 FT	7.59	1.53	13.50
4	10	40/60 POZ H		6% GEL PLUG @ 40 FT	7.59	1.53	13.50

Summary

Circulating Breakdown	Displacement	Preflush:	BBI	5.00	Type:	FRESH
Lost Returns-	MAXIMUM	Load & Bkdn:	Gal - BBI		Pad: Bbl -Gal	
Cmt Rtrn#Bbl	Lost Returns-#	Excess /Return	BBI		Calc. Disp Bbl	
Average	Actual TOC	Calc. TOC:			Actual Disp.	
Shut In: Instant	Frac. Gradient	Treatment:	Gal - BBI		Disp: Bbl	
	5 Min.	Cement Slurry	BBI	54.0		
	15 Min.	Total Volume	BBI	59.00		

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____

THE INFORMATION STATED HEREIN IS CORRECT
 CUSTOMER REPRESENTATIVE _____

SIGNATURE _____

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JAN 22 2003

HALLIBURTON JOB LOG		TICKET # 2228784	TICKET DATE 01/11/03
REGION Central Operations	NWA / COUNTRY Mid Continent/USA	SDA / STATE MC/Ks	COUNTY STEVENS
MBU ID / EMPL # MCLI 0110 / 198516	H.E.S EMPLOYEE NAME JASON CLEMENS	PSL DEPARTMENT ZI	
LOCATION LIBERAL	COMPANY ANADARKO PETROLEUM CORPO	CUSTOMER REP / PHONE KENNY PARKS	1-806-679-0164
TICKET AMOUNT \$6,749.18	WELL TYPE OIL	API/UM #	
WELL LOCATION HUGOTON	DEPARTMENT ZI	JOB PURPOSE CODE Plug to Abandon	
LEASE NAME CRAWFORD	Well No. D-5	SEC / TWP / RNG 32 - 33S - 37W	HES FACILITY (CLOSEST TO WELL S) LIBERAL

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
Clemens, A 198516	5.5						
Cochran, M 217398	5.5						
Martinez, Antonio 258816	5.5						

Chart No.	Time	Rate (BPM)	Volume (BBL)(GAL)	Rate			Job Description / Remarks
				N2	CSG.	Tbg	
	1000						ARRIVE ON LOCATION
	1030						PRE- JOB SAFTEY MEETING
	1100						SPOT EQUIP.
							1ST PLUG @ 3200 FT.
	1400					1500	TEST LINES
	1403	4.0	5.0			200	START SPACER
	1404	6.0	27.0			200	START CEMENT
	1409	4.0	2.0			50	SPACER BEHIND
	1410	7.0	31.0			100	START DISP W/ MUD
							2ND PLUG @ 1780 FT.
	1504	6.0	12.0			200	LOAD HOLE
	1512	6.0	13.0			100	START CEMENT
	1515	4.0	2.0			50	SPACER BEHIND
	1516	6.0	20.0			100	START DISP W/ MUD
							3RD PLUG @ 700
	1545	6.0	7.0			100	LOAD HOLE
	1548	6.0	11.0			100	START CEMENT
	1550	4.0	2.0			50	SPACER BEHIND
	1553	5.0	5.0			100	START DISP W/ MUD
							4TH PLUG @ 40 FT
	1644	3.0	3.0			20	START CEMENT
	1647	3.0	6.0			20	PLUG RAT & MOUSE

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WICHITA, KS

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HALLIBURTON JOB LOG		TICKET #	TICKET DATE
CONFIDENTIAL		2213281	01/02/03
REGION	NWA / COUNTRY	BDA / STATE	COUNTY
Central Operations	Mid Contitnent/USA	Ks	STEVENS
MBU ID / EMPL #	H.E.S EMPLOYEE NAME	PSL DEPARTMENT	
MCLI0101 106322	Danny McLane	Cement	
LOCATION	COMPANY	CUSTOMER REP / PHONE	
LIBERAL	ANADARKO PETROLEUM CORPO	GUS SCHWATRZ 1-785-443-2331	
TICKET AMOUNT	WELL TYPE	API/UWI #	
\$8,897.40	Oil	1518922427	
WELL LOCATION	DEPARTMENT	JOB PURPOSE CODE	
S/Hugoton Ks	Cement	Cement Surface Casing	
LEASE NAME	Well No.	HES FACILITY (CLOSEST TO WELL S	
CRAWFORD	D-5	Hugoton Ks	

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
McLane, D 106322	6						
Tate, N 105953	6						
Berumen, E 267804	5						
Ferguson, R 106154	5						

Chart No.	Time	Rate (BPM)	Volume (BBL)(GAL)	Rate			Press.(PSI)			Job Description / Remarks
				N2	CSG.	Tbg				
	0000									Called for job
	0300									On location do job site assessment and bring pump truck on location.Rig on bottom circulating
	0305									Hold safety meeting and set up pump truck
	0330									Rig tripping out drill pipe
	0345									Bulk trucks on location & hold safety meeting with drivers
	0420									Drill pipe out of hole
	0425									Hold safety meeting and rig up casing crew
	0445									Start running 8 5/8 casing and float equipment
	0610									Casing on bottom and hook up plug container
	0614									Start circulating with rig pump
	0617									Got mud returns and rig down casing crew
	0622									Through circulating with rig pump
	0624									Hold safety meeting and hook up to pump truck
										Job procedure for 8 5/8 surface
	0627							0/2450		Pressure test lines
	0628	4.0	5.0					0/100		Start fresh water ahead
	0630	6.0	222.5					100/170		Start lead cement @ 11.4 #/gal
	0708	4.5	23.8					115		Start tail cement @ 14.8 #/gal
	0713									Through mixing cement
	0715									Shut down and release top plug
	0718	5.5	110.0					0/100		Start fresh water displacement
	0727							115/165		Displacement caught cement
	0738	2.0						360/270		Slow down rate
	0749							440/920		Plug landed and pressure up casing
	0750							920/0		Release pressure and float holding
										Circulated 20 bbls to pit 38 sks ✓
										Thank you for calling Halliburton
										Danny and Crew

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