

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

CONFIDENTIAL

P & A

ORIGINAL

Operator: License # 4549
Name: ANADARKO PETROLEUM CORP.
Address: 701 S. TAYLOR STREET, SUITE 400
City/State/Zip: AMARILLO, TEXAS 79101
Purchaser: ANADARKO ENERGY SERVICES
Operator Contact Person: JOHN VIGIL
Phone: (806) 457-4600
Contractor: Name: MURFIN DRILLING CO., INC.
License: 30606
Wellsite Geologist: MARVIN T. HARVEY, JR.

API No. 15 - 067-21533-00-00
County: GRANT
Address: AP 2 SW NE NW Sec. 35 Twp. 29 S. R. 35 East West
Elevation: 990 feet from S / (N) (circle one) Line of Section
Elevation: 1800 feet from E / (W) (circle one) Line of Section

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl. Caliche, etc.)

Angles Calculated from Nearest Outside Section Corner:
(circle one) NE SE (NW) SW
Lease Name: HJV CROCKER "A" Well #: 3
Field Name: RYUS E.
Producing Formation: NONE
Elevation: Ground: 3013 Kelly Bushing: _____
Total Depth: 5700 Plug Back Total Depth: 0
Amount of Surface Pipe Set and Cemented at 1794 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.

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. _____
3-25-2003 4-2-2003 4-3-2003
Spud Date or Date Reached TD Completion Date or Recompletion Date

Drilling Fluid Management Plan *7-22-03*
(Data must be collected from the Reserve Pit)
Chloride content 700 ppm Fluid volume 700 bbls
Dewatering method used _____
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
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: Lori Pearson
Title: Engr Tech III Date: 4-21-03
Subscribed and sworn to before me this 21 day of April, 2003.
Notary Public: Lori Pearson
Date Commission Expires: 2/26/05

KCC Office Use ONLY

Letter of Confidentiality Attached
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received

LORI PEARSON
Notary Public, State of Texas
My Commission Expires JIC Distribution
February 26, 2005



Operator Name: ANADARKO PETROLEUM CORP. Lease Name: HJV CROCKER "A" Well #: 3

Sec. 35 Twp. 29 S. R. 35 East West County: GRANT

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final depths 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 Yes No
(Attach Additional Sheets)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy)

List All E. Logs Run:

DIL, CNL-LDT, ML, SONIC.

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
CHASE	2490	523
COUNCIL GROVE	2825	188
B/HEEBNER	3998	-985
MARMATON	4710	-1697
MORROW	5292	-2279
STE. GENEVIEVE	5852	-2639

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"	21.8	1794	P+MC/P+	475/100	3%CC, 1%FWCA, 1/4PPS FC/ 2%CC, 1/4PPS FC.

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top 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	Acid, Fracture, Shot, Cement Squeeze Record	Depth
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Enhr.	Producing Method
	<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)

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

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

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

Production Interval _____

NONE - D&A

HALLIBURTON JOB SUMMARY

REGION Central Operations		MCC / STATE MC/Ks		TICKET DATE 03/27/03	
MCC / EMPLOYEE # MCLI 0110 / 217398		MCC / STATE MC/Ks		COUNTY GRANT	
LOCATION LIBERAL		MCC / STATE MC/Ks		CUSTOMER REP / PHONE STEVE BARTEL 806-679-3792	
TICKET AMOUNT \$10,459.27		MCC / STATE MC/Ks		APPL / #	
WELL LOCATION RYUS, KS		DEPARTMENT ZI		SAP BOND NUMBER 7521	
LEASE NAME HJV CROCKER		WELL TYPE Oil		Cement Surface Casing	
WELL No. A-3		SEC / TWP / RMO 35 - 29S - 35W		HES FACILITY (CLOSEST TO WELL SITE) LIBERAL, KS	

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HES EMP NAME / EMP # (EXPOSURE HOURS)	HRS	HRS	HRS
Glemens, A 189616	5.0		
Cochran, M 217398	5.0		
Ferguson, R 106154	5.0		

HES UNIT #S (R/T MILES)	R/T MILES	R/T MILES	R/T MILES	R/T MILES
421269	70			
10251403	70			
10240235 / 10240245	35			
10010757 / 10286731	35			

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

Tools and Accessories

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

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		

Date	Called Out	On Location	Job Started	Job Completed
	3/27/2003	3/27/2003	3/27/2003	3/27/2003

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	NEW	24.0	8 5/8		0	1,807	
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole			12 1/4				Shots/Ft
Perforations							
Perforations							
Perforations							

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
3/27	5.0	3/27	2.0	Cement Surface Casing
Total	5.0	Total	2.0	

KANSAS CORPORATION COMMISSION
 APR 23 2003
 CONSERVATION DIVISION
 WICHITA, KS

Ordered	Hydraulic Horsepower Avail.	Used
Treating	Average Rates in BPM	Overall
	Disp.	
	Cement Left in Pipe	
Feet 45	Reason	SHOE JOINT

Cement Data

Stage	Sacks	Cement	Bulk/Sks	Additives	W/Rq.	Yield	Lbs/Gal
1	450	MIDCON C		3% CC - 1/2# FLOCELE - .1% FWCA	17.98	2.94	11.40
2	125	PREM PLUS		2% CC - 1/4# FLOCELE	8.30	1.34	14.80
3							
4							

Summary

Circulating	Displacement	Preflush: BBI	5.00	Type: FRESH
Breakdown	MAXIMUM	Load & Bkdn: Gal - BBI		Pad:Bbl -Gal
Lost Returns	Lost Returns	Excess /Return BBI		Calc. Disp Bbl
Cmt Rtn#(Bbl)	Actual TOC	Calc. TOC:		Actual Disp. 112
Average	Frac. Gradient	Treatment: Gal - BBI		Diso:Bbl
Shut In: Instant	5 Min. 15 Min.	Cement Slurry BBI	285.0	
		Total Volume BBI	382.00	
Frac Ring #1	Frac Ring #2	Frac Ring #3	Frac Ring #4	

THE INFORMATION STATED HEREIN IS CORRECT
 CUSTOMER REPRESENTATIVE _____
 MAY 14 2004

From
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ORIGINAL

HALLIBURTON JOB LOG		TICKET #	TICKET DATE
		2359577	03/27/03
REGION	NWA / COUNTRY	BOX / STATE	COUNTY
Central Operations	Mid Continent/USA	MC/Ks	GRANT
WELL ID / EMPL #	H.E.S. EMPLOYEE NAME	PSL DEPARTMENT	
MCLI 0110 / 217398	MICKEY COCHRAN	Cement	
LOCATION	COMPANY	CUSTOMER REP / PHONE	
LIBERAL	ANADARKO PETROLEUM CORPO	STEVE BARTEL	806-679-3792
TICKET AMOUNT	WELL TYPE	APIANO #	
\$10,469.27	01 Oil		
WELL LOCATION	DEPARTMENT	JOB PURPOSE CODE	
RYUS, KS	ZI	Cement Surface Casing	
LEASE NAME	SEC / TWP / RNG	HES FACILITY (CLOSEST TO WELL)	
HJV CROCKER	35 - 29S - 35W	LIBERAL, KS	

HRS	EMP #	NAME	HR	EMP #	NAME	HR	EMP #	NAME	HR	EMP #	NAME	HR
5		Clemens, A	198516	5								
5		Cochran, M	217398									
5		Ferguson, R	106154									

Chart No.	Time	Rate (BPM)	Volume (BBL/24H)	Rate		Press. (PSI)		Job Description / Remarks
				N2	CSG	Tbg		
	0330							ARRIVE ON LOCATION
	0332							PRE JOB SAFETY MEETING
	0334							SPOT EQUIPMENT
	0600							START F.E.
	0740							CASING ON BOTTOM / CIR WITH RIG
	0802					1500		PRESSURE TEST
	0803	4.0	5.0			75		START SPACER AHEAD ... FRESH WATER
	0806	6.5	236.0			100		START LEAD CMT 460 SKS @ 11.4#
	0842	6.0	30.0			80		START TAIL CMT 126 SKS @ 14.8#
	849							END CMT
	0850							DROP PLUG
	0850	7.0	112.0					START DISP.
	0859	6.0	52.0			110		CAUGHT CMT
	0908	2.0	102.0			400		SLOW RATE
	0910	2.0	112.0			900		LAND PLUG
	0911							END JOB

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CONSERVATION DIVISION
WICHITA, KS

PLEASE
MAY 14 2004

THANK YOU FOR CALLING HALLIBURTON
MICKEY & CREW

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HALLIBURTON JOB SUMMARY

REGION Central Operations		COUNTRY Mexico/Mexico/USA		ORDER NUMBER 2376505	TICKET DATE 04/03/03
WELL ID / EMP # MCL10101 106322		EMPLOYEE NAME Danny McLane		SDA / STATE MC/Ks	COUNTY GRANT
LOCATION LIBERAL		COMPANY ANADARKO PETROLEUM CORPORATION		ORIGINAL	
WELL TYPE 01 Oil		CUSTOMER REP / PHONE STEVE BARTEL 1-806-679-3792			
TICKET AMOUNT \$5,910.45		DEPARTMENT Cement		SAP BOMB NUMBER 7528 Plug to Abandon	
WELL LOCATION Satanta, Ks		SEG / TWP / RNG 35 - 29S - 35W		HES FACILITY (CLOSEST TO WELL SITE) Liberal Ks	
LEASE NAME HJV CROCKER		Well No. A-3		KCC	

HES EMP NAME / EMP # / (EXPOSURE HOURS)	HRS	HRS	HRS	HRS
Mclane, D 106322	5.0			
Tate, N 105953	2.0			
Smith, L 106263	5.0			
Martinez, T 258816	2.5			

HES. UNIT #S / (R / T MILES)	R / T MILES	R / T MILES	R / T MILES	R / T MILES
420995	70			
10251401	70			
10244148 10011278	35			

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

Date	Called Out 4/3/2003	On Location 4/3/2003	Job Started 4/3/2003	Job Completed 4/3/2003
Time	1230	1430	1630	2030

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

Well Data		New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing						0		
Liner								
Liner								
Tubing	Used		16.6	4 1/2		0	2,850	
Drill Pipe								
Open Hole				7 7/8				Shots/Ft.
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	
4/3		4/3	2.0	Plug to Abandon
Total		Total	2.0	

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 WICHITA KS

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

Cement Data				Additives		W/Rq.	Yield	Lbs/Gal
Stage	Sacks	Cement	Bulk/Sks					
1	50	40/60 POZ H		6% TOTAL GEL (PLUG AT 2350 FT)		7.59	1.53	13.50
2	50	40/60 POZ H		6% TOTAL GEL (PLUG AT 1810 FT)		7.59	1.53	13.50
3	25	40/60 POZ H		6% TOTAL GEL (PLUG AT 720 FT)		7.59	1.53	13.50
4	10	40/60 POZ H		6% TOTAL GEL (PLUG AT 40 FT)		7.59	1.53	13.50

Summary			
Circulating	Displacement	Preflush:	BBI
Breakdown	MAXIMUM	Load & Bkdn:	Gal - BBI
Lost Returns	Lost Returns	Excess /Return	BBI
Cmt Rtn#Bbl	Actual TOC	Calc. TOC:	
Average	Frac. Gradient	Treatment:	Gal - BBI
Shut In: Instant	5 Min. 15 Min.	Cement Slurry	BBI
		Total Volume	BBI

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

THE INFORMATION STATED HEREIN IS CORRECT
 CUSTOMER REPRESENTATIVE _____
 MAY 14 2004
 SIGNATURE _____

From
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KCC
APR 21 2003

ORIGINAL

HALLIBURTON JOB LOG CONFIDENTIAL				TICKET # 2376505	TICKET DATE 04/03/03
REGION Central Operations		NVA / COUNTRY Mid Continent/USA		DOA / STATE MC/Ks	COUNTY GRANT
MCI ID / EMPL # MCL10101 106322		H.E.S EMPLOYER NAME Danny McLane		PSL DEPARTMENT Cement	
LOCATION LIBERAL		COMPANY ANADARKO PETROLEUM CORPORATION		CUSTOMER REP / PHONE STEVE BARTEL 1-806-679-3792	
TICKET AMOUNT \$5,910.45		WELL TYPE 01 Oil		API/MI #	
WELL LOCATION Satanta, Ks		DEPARTMENT Cement		JOB PURPOSE CODE Plug to Abandon	
LEASE NAME HJV CROCKER		Well No. A-3	SEC 7 TWP / RNG 35 - 29S - 35W	RES FACILITY (CLOSEST TO WELL'S) Liberal Ks	
RES EMP NAME/EMP # (EXPOSURE HOURS)		HRS RES EMP NAME/EMP # (EXPOSURE HOURS)		HRS RES EMP NAME/EMP # (EXPOSURE HOURS)	

Mclane, D 106322	6				
Tate, N 105953	6				
Smith, L 106263	6				
Martinez, T 258816	6.5				

Chart No.	Time	Rate (BPM)	Volume (BBL/GAL)	Rate		Press. (PSI)		Job Description / Remarks
				N2	CSG.	Tdg		
	1230							Called for job
	1430							On location do job site assessment. Bring Halliburton trucks on location. Hold safety meeting and set up trucks
								Waiting on orders
								Job procedure for plug @ 2825
	1635					0/3350		Pressure test lines
	1637	2.5	10.0			0/650		Start fresh water spacer
	1647	2 - 5	13.6			550/300		Start cement @ 13.5 #/gal
	1649							Through mixing cement
	1650	5.0	3.5			250		Start fresh water spacer
	1651	5.5	33.0			275		Start mud displacement
	1657					270/30		Shut down and knock loose
	1700							Drill pipe pulled dry
								Job procedure for plug @ 1810
	1745					0/1100		Pressure test lines
	1746	5.5	100.0			0/450		Circulate hole with fresh water
	1806		13.6			450/125		Start cement @ 13.5 #/gal
	1807	5.5	22.0			125/70		Start fresh water displacement
	1814					70/0		Shut down and knock loose
	1818							Drill pipe pulled dry
								Job procedure for plug @ 720
	1841					0/2200		Pressure test lines
	1844	2.5	10.0			0/20		Load hole with fresh water
	1847	5.0	6.8			75/100		Start cement @ 13.5 #/gal
	1848	5.0	8.5			35		Start fresh water displacement
	1850							Shut down and knock loose
	1853							Drill pipe pulled dry
								Job procedure for plug @ rat hole
	1920	2.0	4.0			0		Start cement @ 13.5 #/gal
								Job procedure for plug @ mouse hole
	1924	2.0	2.7			0		Start cement @ 13.5 #/gal
								Job procedure for plug @ 40
	1930	2.0	2.7			0		Start cement @ 13.5 #/gal

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APR 23 2003
CONSERVATION DIVISION
WICHITA, KS

Release
MAY 14 2003
From
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Thank you for calling Halliburton
Danny and Crew

PRPA 030304 4-21-04
15-067-21533-0000

ANADARKO PETROLEUM CORPORATION

PHONE 806-457-4600 • 701 S. TAYLOR ST. • SUITE 400 • AMARILLO, TEXAS 79101

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April 21, 2003

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APR 23 2003

Kansas Corporation Commission
Conservation Division
Wichita State Office Building
130 South Market, RM 2078
Wichita, Kansas 67202

KCC
APR 21 2003
CONFIDENTIAL

CONSERVATION DIVISION
WICHITA, KS

Re: HJV Crocker "A" No. 3
Section 35-29S-35W
Grant County, Kansas

Gentlemen:

Attached in triplicate is the Affidavit of Completion (ACO-1 Well History), a set of well logs and cementing tickets for the above referenced well. Also attached is Form CP-4 (Plugging Report).

It is requested that this information remain confidential for a period of one year.

If you have any questions, please advise.

Very truly yours,

L. Marc Harvey
Engineering Technician III
LMH

Enclosures

cc: WI Owners
JTC