

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

ORIGINAL

Operator: License # 4549
Name: ANADARKO PETR. CORP.
Address: 701 S. TAYLOR STREET, SUITE 400
City/State/Zip: AMARILLO, TEXAS 79101
Purchaser: NA - WATER SUPPLY WELL
Operator Contact Person: JOHN VIGIL
Phone: (806) 457-4600

Contractor: Name: MURFIN DRILLING CO., INC.
License: 30606
Wellsite Geologist: NONE

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)
WATER SUPPLY WELL
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. 03-CONS-203-CUNI

<u>5-16-2003</u>	<u>5-19-2003</u>	<u>6-25-2003</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 129-21700-00-00
County: MORTON
AP NE NE Sec. 4 Twp. 33 S. R. 40 East West
524.5 feet from S / (N) (circle one) Line of Section
656.1 feet from (E) / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) (NE) SE NW SW
Lease Name: SERU Well #: 14-1

Field Name: STIRRUP
Producing Formation: GLORIETTA

Elevation: Ground: 3295 Kelly Bushing: _____
Total Depth: 1553 Plug Back Total Depth: 1262
Amount of Surface Pipe Set and Cemented at 615 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 ALL / W 7.14.03
(Data must be collected from the Reserve Pit)

Chloride content 300 ppm Fluid volume 400 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: L. Pearson
Title: Engr Tech III Date: 7.2-03
Subscribed and sworn to before me this 2 day of July, 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 Kansas
My Commission Expires
February 26, 2005



X

Operator Name: ANADARKO PETR. CORP. Lease Name: SERU Well #: 14-1

Sec. 4 Twp. 33 S. R. 40 East West County: MORTON

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: CBL, GR-N.	<input checked="" 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>GLORIETTA</td> <td>1156</td> <td>2139</td> </tr> </table>	Name	Top	Datum	GLORIETTA	1156	2139
Name	Top	Datum					
GLORIETTA	1156	2139					

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	17-1/2"	13-3/8"	48.0	615	P+MC/P+	230/200	3%CC, .1%FWCA, 1/2 PPS FC/2%CC, 1/4PPS FC.
PRODUCTION	12-1/4"	8-5/8"	24.0	1552	P+MC/P+	80/635	.1%FWCA, 1/2#/SK FLOCELE/ 5%HALAD-322, 1/4#/SK FLOCELE

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 (Amount and Kind of Material Used)	Depth
6	1198-1252.	GRAVEL PACK W/2500 GAL 701/2%HCL & 3200#	1198-1252.
		12/20 SAND.	

TUBING RECORD		Size <u>2 7/8"</u>	Set At <u>1065</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. <u>SI-WOPL</u>		Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input checked="" 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 Open Hole Perf. Dually Comp. Commingled Other (Specify) WATER SUPPLY INTERVAL

METHOD OF COMPLETION 1198-1252

Production Interval 1198-1252

HALLIBURTON JOB SUMMARY		SALES ORDER NUMBER 2452409	TICKET DATE 05/18/03
REGION Central Operations	MVA / COUNTRY Mid Continent/USA	BDA / STATE MC/Ks	COUNTY MORTON
WELL ID / EMP # MCL10101 212723	H.E.S. EMPLOYEE NAME JERRAKO EVANS	PSL DEPARTMENT Cement	ORIGINAL
LOCATION LIBERAL	COMPANY ANADARKO PETROLEUM CORPORA	CUSTOMER REP / PHONE KENNY PARKS 806-679-0164	
TICKET AMOUNT \$14,879.85	WELL TYPE 06 Water	API/UMI #	
WELL LOCATION ROLLA, KS	DEPARTMENT CEMENT	SAP BOMB NUMBER 7523	Cement Production Casing
LEASE NAME SERU	Well No. 14-1	SEC / TWP / RNG 4 - 33S - 40W	HES FACILITY (CLOSEST TO WELL SITE) LIBERAL, KS

HES EMP NAME / EMP # (EXPOSURE HOURS)		HRS	HRS		HRS
Evans, J 212723	5.5	Hartless, C 280598	2.0		
King, K 105942	5.5				
LEMIEUX, M 266575	5.5				
BERUMER, E 267804	5.5				
H.E.S. UNIT #S (R / T MILES)	R / T MILES	R / T MILES	R / T MILES	R / T MILES	R / T MILES
10415642	110				
10251401	110				
10240236-10240245	30				
54029-10011276	30				

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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
	5/18/2003	5/18/2003	5/18/2003	5/18/2003
Time	0930	1330	1700	1900

Tools and Accessories

Type and Size	Qty	Make
Float Collar TROPHY SEAL	1	HOWCO
Float Shoe		
Centralizers SERIES 41	4	HOWCO
Top Plug PLASTIC	1	HOWCO
HEAD 8 5/8	1	HOWCO
Limit clamp 8 5/8	1	HOWCO
Weld-A	1	HOWCO
Guide Shoe REG	1	HOWCO
BTM PLUG		

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	NEW	24#	8 5/8"		0	1,552	
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole			12 1/4"			1,553	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	
5/18	5.5	5/18	8.5	Cement Production Casing
Total	5.5	Total	8.5	

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

Cement Data

Stage	Sacks	Cement	Bulk/Sks	Additives	W/Rq.	Yield	Lbs/Gal
1	80	MIDCON C		1/2# FLOCELE - .1% FWCA	17.70	2.88	11.40
2	660	PREM PLUS		1/4# FLOCELE - .5% HALAD-322	6.25	1.32	14.80
3				WASH PUMPS AND LINES - DO NOT WASH UP ON TOP OF PLUG			
4							

15 to RH 10 to MH - 635 sks in hole

Summary

Circulating Breakdown _____	Displacement _____	Preflush: BBI _____	Type: _____
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 _____	196.0
	15 Min. _____	Total Volume BBI _____	292.00

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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HALLIBURTON JOB LOG		TICKET # 2452409	TICKET DATE 05/18/03
REGION Central Operations	MVA / COUNTRY Mid Continent/USA	BDA / STATE MC/Ks	COUNTY MORTON
WBU ID / EMPL # MCL10101 212723	H.E.S EMPLOYEE NAME JERRAKO EVANS	PSL DEPARTMENT Cement	
LOCATION LIBERAL	COMPANY ANADARKO PETROLEUM CORPO	CUSTOMER REP / PHONE KENNY PARKS	806-679-0164
TICKET AMOUNT \$14,879.85	WELL TYPE 06 Water	API/UVI #	
WELL LOCATION ROLLA, KS	DEPARTMENT CEMENT	JOB PURPOSE CODE Cement Production Casing	
LEASE NAME SERU	Well No. 14-1	SEC / TWP / RNG 4 - 33S - 40W	
HES EMP NAME/EMP # (EXPOSURE HOURS)		HES EMP NAME/EMP # (EXPOSURE HOURS)	

Evans, J 212723	5.5	Hartless, C 280598	2		
King, K 105942	5.5				
LEMIEUX, M 266575	5.5				
BERUMER, E 267804	5.5				

Chart No.	Time	Rate (BPM)	Volume (BBL)(GAL)	Rate		Press.(PSI)		Job Description / Remarks
				N2	CSG.	Tbg		
	1330							JOB READY
	0930							CALLED OUT FOR JOB
	1030							PRE-TRIP SAFETY MEETING
	1300							PUMP TRUCK ON LOCATION/ JOB SITE ASSESMENT
	1315							RIG UP TRUCKS
								RIG PULLING DP
	1345							RIG UP CASING CREW
	1400							PRE-JOB SAFETY MEETING
	1415							START RUNNING CASING & FE (8 5/8)
	1445							CASING ON BOTTOM
	1455							HOOK UP PC & CIRC IRON
	1405							CIRC WITH RIG PUMP
								HOOK UP TO PUMP TRUCK
	1650	2'	5'					PLUG RAT & MOUSE (26 SKS PP)
	1704					2000		TEST LINES
	1705	6.0	41.0			0-100		START MIXING LEAD CMT @11.4# (80 SKS MIDCON C)
	1713	6.5	150.0			275		START MIXING TAIL CMT @ 14.8# (660 SKS PP)
								THROUGH MIXING CMT/ WASH PUMP & LINES
	1744	6.0				0-550		START DISP WITH FRESH WATER
	1758	2.0	86.0			550		SLOW RATE
	1805	2.0	96.0			1050		BUMP PLUG
	1805							RELEASE FLOAT HELD
								CIRC CMT TO PIT ✓
								THANKS FOR CALLING HALLIBURTON
								JERRAKO & CREW

HALLIBURTON JOB SUMMARY		SALES ORDER NUMBER 2450002	TICKET DATE 05/16/03
REGION Central Operations	MNA / COUNTRY Mid Continent/USA	BDA / STATE MC/Ks	COUNTY MORTON
WSU ID / EMPL # MCL10101 212723	H.E.S. EMPLOYEE NAME JERRAKO EVANS	PSL DEPARTMENT Cement	ORIGINAL
LOCATION LIBERAL	COMPANY ANADARKO PETROLEUM CORPORA	CUSTOMER REP / PHONE KENNY PARKS 806-679-0164	
TICKET AMOUNT \$8,656.64	WELL TYPE 06 Water	API/WI #	
WELL LOCATION ROLLA,KS.	DEPARTMENT CEMENT	SAP BOMB NUMBER 7521	Cement Surface Casing
LEASE NAME SERU	Well No. 14-1	SEC / TWP / RING 4 - 33S - 40W	HES FACILITY (CLOSEST TO WELL SITE) LIBERAL, KS

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HES EMP NAME / EMP # / (EXPOSURE HOURS)	HRS	HRS	HRS	HRS
Evans, J 212723	11.0	Oliphant, C 243055	11.0	
King, K 106942	11.0			
LEMIEUX, M 266675	11.0			
BERUMER, E 267804	11.0			

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H.E.S. UNIT #S / (R / T MILES)	R / T MILES	R / T MILES	R / T MILES	R / T MILES
10415642	104			
10251401	104			
54029-10011276	30			
10011406-10011272	30			

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
	5/16/2003	5/16/2003	5/17/2003	5/17/2003
Time	1800	2200	0700	0900

Tools and Accessories

Type and Size	Qty	Make
Float Collar INSERT	1	HOWCO
Float Shoe BASKET	1	HOWCO
Centralizers S-4	3	HOWCO
Top Plug PLASTIC	1	HOWCO
HEAD 13 3/8	1	HOWCO
Limit clamp		
Weld-A	2	HOWCO
Guide Shoe REG	1	HOWCO
BTM PLUG		

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	NEW	48#	13 3/8"		0	629	
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole			17 1/2'			615	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	
5/16	2.0	5/16	3.5	Cement Surface Casing
5/17	9.0	5/17	10.5	
Total		11.0	14.0	

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

Cement Data

Stage	Sacks	Cement	Bulk/Sks	Additives	W/Rq.	Yield	Lbs/Gal
1	230	MIDCON C		3% CC - 1/2# FLOCELE - .1% FWCA	17.98	2.94	11.40
2	200	PREM PLUS		2% CC - 1/4# FLOCELE	6.30	1.34	14.80
3							
4							

Summary

Circulating Breakdown	Displacement	Preflush: BBI	Type:
Lost Returns	MAXIMUM	Load & Bkdn: Gal - BBI	Pad: Bbl - Gal
Cmt Rtrn#Bbl	Actual TOC	Excess /Return BBI	Calc. Disp Bbl
Average	Frac. Gradient	Calc. TOC:	Actual Disp. 92
Shut In: Instant	5 Min. 15 Min.	Treatment: Gal - BBI	Disp: Bbl
		Cement Slurry BBI	
		Total Volume BBI	168.0
			260.00

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 _____

ORIGINAL RECEIVED

JUL 07 2003

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HALLIBURTON JOB LOG				TICKET #	2450002	TICKET DATE	05/16/03
REGION Central Operations		MVA / COUNTRY Mid Contitnent/USA		BDA / STATE MC/Ks		COUNTY MORTON	
MBU ID / EMPL # MCL10101 212723		H.E.S. EMPLOYEE NAME JERRAKO EVANS		PSL DEPARTMENT Cement			
LOCATION LIBERAL		COMPANY ANADARKO PETROLEUM CORPO		CUSTOMER REP / PHONE KENNY PARKS		806-679-0164	
TICKET AMOUNT \$8,656.64		WELL TYPE 06 Water		API/UWI #			
WELL LOCATION ROLLA,KS.		DEPARTMENT CEMENT		JOB PURPOSE CODE Cement Surface Casing			
LEASE NAME SERU		Well No. 14-1	SEC / TWP / RNG 4 - 33S - 40W	HES FACILITY (CLOSEST TO WELL S) LIBERAL, 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
Evans, J 212723	11	Oliphant, C 243055	11				
King, K 105942	11						
LEMIEUX, M 266575	11						
BERUMER, E 267804	11						

Chart No.	Time	Rate (BPM)	Volume (BBL)(GAL)	Rate		Press.(PSI)		Job Description / Remarks
				N2	CSG.	Tbg		
	2200							JOB READY
	1800							CALLED OUT FOR JOB
	1915							PRE-TRIP SAFETY MEETING
	2100							PUMP TRUCK ON LOCATION/ JOB SITE ASSESMENT
	2115							RIG UP TRUCKS
								RIG STILL DRILLING
	0500							START PULL DP
	0545							RIG UP CASING CREW
	0600							PREJOB SAFETY MEETING
	0615							START RUNNING CASING & FE (13 3/8)
	0640							CASING ON BOTTOM (629 FT)
	0645							HOOK UP PC & CIRC IRON
	0655							CIRC. WITH RIG PUMP
	0715							HOOK UP TO PT
	0716					2000		TEST LINES
	0719	7.0	120.0		0-125			START MIXING LEAD CMT @11.4# (230 SKS)
	0739	6.0	48.0		125			START MIIXING TAIL CMT @14.8# (200 SKS)
								THOUGH MIXING CMT /DROP PLUG
	0748	6.0						START DISP. WITH FRESH WATER
	0804	2.0	82.0		150			SLOW RATE
	0811	2.0	92.0		700			BUMP PLUG
	0812							RELEASE FLOAT HELD
								CIRC. CMT TO PIT ✓
								THANKS FOR CALLING HALLIBURTON
								JERRAKO & CREW