

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

PPPA 030313

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 4549  
Name: ANADARKO PETR. CORP.  
Address: 701 S. TAYLOR STREET, SUITE 400  
City/State/Zip: AMARILLO, TEXAS 79101  
Purchaser: NA - INJECTION 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  SIOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)  
If Workover/Re-entry: Old Well Info as follows: INJECTION WELL

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>5-23-2003</u>	<u>5-31-2003</u>	<u>6-10-2003</u>
Spud Date or	Date Reached TD	Completion Date or
Recompletion Date		Recompletion Date

API No. 15 - 129-21695-00-00 **ORIGINAL**  
County: MORTON

AP NE NW NE NW Sec. 3 Twp. 33 S. R. 40  East  West  
208.8 feet from S (NW) (circle one) Line of Section  
1853.9 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 #: 9-1

Field Name: STIRRUP  
Producing Formation: MORROW

Elevation: Ground: 3240.7 Kelly Bushing: \_\_\_\_\_  
Total Depth: 5345 Plug Back Total Depth: 5292  
Amount of Surface Pipe Set and Cemented at 1502 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 See 1 wk 7-2-03  
(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: [Signature]  
Title: Engr. Tech. III Date: 6-25-03  
Subscribed and sworn to before me this 25 day of June  
2003  
Notary Public: Lori Pearson  
Date Commission Expires: 2/26/05

**KCC Office Use ONLY**

N Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_

W Wireline Log Received  
W Geologist Report Received  
LORI PEARSON, Notary Public, State of Texas  
My Commission Expires February 26, 2005  
UIC Distribution

✓

X

Operator Name: ANADARKO PETR. CORP. Lease Name: SERU Well #: 9-1  
 Sec. 3 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 to 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, DIL, CNL-LDT, ML, SONIC.	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th style="width:15%;">Top</th> <th style="width:15%;">Datum</th> </tr> </thead> <tbody> <tr> <td>GLORIETTA</td> <td>1094</td> <td>2146.7</td> </tr> <tr> <td>B/STONE CORRAL</td> <td>1504</td> <td>1736.7</td> </tr> <tr> <td>CHASE</td> <td>2200</td> <td>1040.7</td> </tr> <tr> <td>COUNCIL GROVE</td> <td>2494</td> <td>746.7</td> </tr> <tr> <td>B/HEEBNER</td> <td>3658</td> <td>-417.3</td> </tr> <tr> <td>MARMATON</td> <td>4442</td> <td>-1201.3</td> </tr> <tr> <td>MORROW SHALE</td> <td>5024</td> <td>-1783.3</td> </tr> <tr> <td>MORROW "D"</td> <td>5204</td> <td>-1963.3</td> </tr> </tbody> </table>	Name	Top	Datum	GLORIETTA	1094	2146.7	B/STONE CORRAL	1504	1736.7	CHASE	2200	1040.7	COUNCIL GROVE	2494	746.7	B/HEEBNER	3658	-417.3	MARMATON	4442	-1201.3	MORROW SHALE	5024	-1783.3	MORROW "D"	5204	-1963.3
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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	1502	P+MC/P+	420/125	3%CC, .1%FWCA, 1/2 PPS FC/2%CC, 1/4PPS FC.
PRODUCTION	7-7/8"	5-1/2"	15.5	5344	50/50 POZ	25/75	5%KCL, 6% EA-2, 6#/SK GILSONITE, 1/2#/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
4	5204-5238.	4000 GAL 10% MSA.	5204-5238.

<b>TUBING RECORD</b> Size <u>2 7/8"</u> Set At _____ Packer At <u>5153</u> Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date of First, Resumed Production, SWD or Enhr. <u>WOPL</u> Producing Method <input type="checkbox"/> Flowing <input 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) INJECTION INTERVAL

(If vented, Sumit ACO-18.) Production Interval 5204-5238

# HALLIBURTON JOB SUMMARY

REGION <b>North America</b>	NWA / COUNTRY <b>Mid Con / USA</b>	SALES ORDER NUMBER <b>2464605</b>	TICKET DATE <b>05/24/03</b>
MBU ID / EMPL # <b>MCL10101</b>	H.E.S. EMPLOYEE NAME <b>Jim W. Reno</b>	BDA / STATE <b>SWKS/KS</b>	COUNTY <b>MORTON</b>
LOCATION <b>LIBERAL</b>	COMPANY <b>ANADARKO PETROLEUM CORPORA</b>	PSL DEPARTMENT <b>Cement</b>	<b>ORIGINAL</b>
TICKET AMOUNT <b>\$10,104.74</b>	WELL TYPE <b>02 Gas</b>	CUSTOMER REP / PHONE <b>STEVE BARTEL 806-679-3792</b>	
WELL LOCATION <b>Rolla KS</b>	DEPARTMENT <b>Cement</b>	SAP BOMB NUMBER <b>7521</b>	Cement Surface Casing
LEASE NAME <b>SERU</b>	Well No. <b>9-1</b>	SEC / TWP / RNG <b>3 - 33S - 40W</b>	HES FACILITY (CLOSEST TO WELL SITE) <b>Liberal</b>

HES EMP NAME / EMP # / (EXPOSURE HOURS)	HRS	HRS	HRS	HRS
King, K 105942	6.0	Delatorre, A	6.0	
Arnett, J 228567	6.0	Burrows, R	6.0	
Smith, L 106263	6.0			
Reno, J 106185	6.0			

H.E.S. UNIT #S / (R / T MILES)	R / T MILES	R / T MILES	R / T MILES	R / T MILES
54219/78299				
10010748/10011530				
10244148/10011276				

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		
Float Shoe		
Centralizers	4	HES
Top Plug	1	HES
HEAD	1	HES
Limit clamp		
Weld-A		
Guide Shoe	1	HES
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
	5/24/2003	5/24/2003	5/25/2003	5/25/2003
Time	20:30	23:30	02:50	04:20

**Well Data**

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	New/Used	24.0	8 5/8		gl	1,501	
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole			12 1/4		gl	1,502	Shots/Ft.
Perforations							
Perforations							
Perforations							

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
5/24				Cement Surface Casing
Total		Total		

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

**Cement Data**

Stage	Sacks	Cement	Bulk/Sks	Additives	W/Rq.	Yield	Lbs/Gal
1	420	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	Displacement	Preflush:	BBI	10.00	Type:	Fresh
Breakdown	MAXIMUM	Load & Bkdn:	Gal - BBI		Pad:Bbl -Gal	
Lost Returns-y	Lost Returns-N	Excess /Return	BBI	74	Calc.Disp Bbl	94
Cmt Rtm#Bbl	Actual TOC	Calc. TOC:			Actual Disp.	95
Average	Frac. Gradient	Treatment:	Gal - BBI		Disp:Bbl	
Shut In: Instant	5 Min.	Cement Slurry	BBI	250.0		
	15 Min.	Total Volume	BBI	355.00		

Frac Ring #1 \_\_\_\_\_ Frac Ring #2 \_\_\_\_\_ Frac Ring #3 \_\_\_\_\_ Frac Ring #4 \_\_\_\_\_

**THE INFORMATION STATED HEREIN IS CORRECT**  
 CUSTOMER REPRESENTATIVE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

# ORIGINAL

<b>HALLIBURTON JOB LOG</b>				TICKET # <b>2464605</b>	TICKET DATE <b>05/24/03</b>
REGION <b>North America</b>		NWA / COUNTRY <b>Mid Con / USA</b>		BDA / STATE <b>SWKS/KS</b>	COUNTY <b>MORTON</b>
MBU ID / EMPL # <b>MCL10101</b>		H.E.S EMPLOYEE NAME <b>Jim W. Reno</b>		PSL DEPARTMENT <b>Cement</b>	
LOCATION <b>LIBERAL</b>		COMPANY <b>ANADARKO PETROLEUM CORPO</b>		CUSTOMER REP / PHONE <b>STEVE BARTEL 806-679-3792</b>	
TICKET AMOUNT <b>\$10,104.74</b>		WELL TYPE <b>02 Gas</b>		API/UWI #	
WELL LOCATION <b>Rolla KS</b>		DEPARTMENT <b>Cement</b>		JOB PURPOSE CODE <b>Cement Surface Casing</b>	
LEASE NAME <b>SERU</b>		Well No. <b>9-1</b>	SEC / TWP / RNG <b>3 - 33S - 40W</b>	HES FACILITY (CLOSEST TO WELL) <b>Liberal</b>	

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
King, K 105942	6	Delatorre, A	6				
Arnett, J 226567	6	Burrows, R	6				
Smith, L 106263	6						
Reno, J 106185	6						

Chart No.	Time	Rate (BPM)	Volume (BBL)(GAL)	Rate			Press.(PSI)		Job Description / Remarks
				N2	CSG.	Tbg			
	23:30								On Location
	23:35								Safety Meeting
	23:50								Rig Up
	01:00								Rig Running Casing/Safety Meeting W/ Rig Crew Cent 1,3,,5,90' and Basket
	0205								Hook up Head
	0215								Circulate w/ rig
	0257						2000		Test Lines
	0258	4.0	10.0				100		Pump 10 bbl Preflush (water)
	0300	6.0					200		Start Lead Cement
	0335	6.0	220.0				250		Start Tail Cement
	0349								Drop Plug
	0350	6.0					100		Start Displacement
	0354		20.0				150		Cement Returns to pit
	0407		75.0				400		Slow Rate
	0414		95.0				1280		Plug Down
	0415								Release float held
	0416						850		Repressure and test..... holding
									Job Complete
									Thank You
									Larry Smith and Crew

# HALLIBURTON JOB SUMMARY

SALES ORDER NUMBER

2480421

TICKET DATE

06/01/03

REGION  
Central Operations

MVA / COUNTRY  
Mid Continent/USA

BDA / STATE  
MC/Ks

COUNTY  
MORTON

WELL ID / EMPL #  
MCL10103 212723

H.E.S. EMPLOYER NAME  
JERRAKO EVANS

PSL DEPARTMENT  
Cement

ORIGINAL

LOCATION  
LIBERAL

COMPANY  
ANADARKO PETROLEUM CORPORA

CUSTOMER REP / PHONE  
KENNY PARKS

1-806-679-0164

TICKET AMOUNT  
\$6,181.19

WELL TYPE  
01 Oil

API/UM #

WELL LOCATION  
ROLLA, KS

DEPARTMENT  
CEMENT

SAP BOMB NUMBER  
7523

Cement Production Casing

LEASE NAME  
SERU

Well No.  
9-1

SEC / TWP / RNG  
3 - 33S - 40W

HES FACILITY (CLOSEST TO WELL SITE)  
LIBERAL, KS

HES EMP NAME / EMP # / (EXPOSURE HOURS)	HRS	HRS	HRS	HRS
Evans, J 212723	5.5			
LEMIEUX, M 266575	5.5			
Hartless, C 280598	5.5			

RECEIVED

JUN 27 2003

H.E.S. UNIT #S / (R / T MILES)	R / T MILES	R / T MILES	R / T MILES	R / T MILES
10415642	106			
10219237	106			
10244148-10011590	30			

KCC WICHITA

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
	6/1/2003	6/1/2003	6/1/2003	6/1/2003
Time	1000	1400	1730	1930

Tools and Accessories

Type and Size	Qty	Make
Float Collar SS	1	HOWCO
Float Shoe SS	1	HOWCO
Centralizers S-4	11	HOWCO
Top Plug ALUM	1	HOWCO
HEAD 5 1/2	1	HOWCO
Limit clamp 5 1/2	1	HOWCO
Weld-A	1	HOWCO
Guide Shoe		
BTM PLUG		

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	NEW	15.5	5 1/2		0	5,352	
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole			7 7/8				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	
Perpac Balls	Qty.	
Other		
Other		
Other		
Other		

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
6/1	5.5	6/1	8.5	Cement Production Casing
Total	5.5	Total	8.5	

Ordered	Hydraulic Horsepower Avail.	Used
Treating	Average Rates in BPM Disp.	Overall
Feet 42	Cement Left in Pipe Reason	SHOE JOINT

Cement Data

Stage	Sacks	Cement	Bulk/Sks	Additives	W/Rq.	Yield	Lbs/Gal
1	25	50/50 POZ PP		1/4# FLOCELE	28.29	4.26	10.00
2	75	50/50 POZ PP		5% KCL - .5% HALAD-322 - 1/2# FLOCELE - 5% CALSEAL - 6# GILSO	7.43	1.62	13.20
3	25	50/50 POZ PP		1/4# FLOCELE	28.29	4.26	10.00
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. 125
Shut In: Instant	5 Min. 15 Min.	Treatment: Gal - BBI	Disp:Bbl
		Cement Slurry BBI	
		Total Volume BBI	60.0
			186.00

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

THE INFORMATION STATED HEREIN IS CORRECT  
 CUSTOMER REPRESENTATIVE \_\_\_\_\_  
 SIGNATURE \_\_\_\_\_