

PVPA 030309 4103
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 - INJECTION WELL
 Operator Contact Person: JOHN VIGIL
 Phone: (806) 457-4600
 Contractor: Name: MURFIN DRILLING CO., INC.
 License: 30606
 Wellsite Geologist: MARVIN T. HARVEY, JR.

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. 03-CONS-203-CUNI

<u>4-16-2003</u>	<u>4-24-2003</u>	<u>5-3-2003</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15-129-21701-0000
 County: MORTON
 AP SE NE SW SW Sec. 34 Twp. 32 S. R. 40 East West
915 feet from S / N (circle one) Line of Section
1271.5 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 #: 19-1
 Field Name: STIRRUP
 Producing Formation: MORROW
 Elevation: Ground: 3264 Kelly Bushing: _____
 Total Depth: 5355 Plug Back Total Depth: 5300
 Amount of Surface Pipe Set and Cemented at 1630 Feet
 Multiple Stage Cementing Collar Used? Yes No
 Yes, show depth set _____ Feet
 If Alternate II completion, cement circulated from _____
 feet depth to _____ w/ _____ sx cmt.

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 OIL & GAS CONSERVATION DIVISION
 WICHITA, KANSAS
JUN 16 2003
6-16-03

Drilling Fluid Management Plan See 1 on 7-1-03
 (Data must be collected from the Reserve Pit)
 Chloride content 1100 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: Engn Tech III Date: 6-11-03
 Subscribed and sworn to before me this 11 day of June, 2003
 Notary Public: [Signature]
 Date Commission Expires: 2/26/05

KCC Office Use ONLY

Letter of Confidentiality Attached
 If Denied, Yes Date: _____

Wireline Log Received
 Log Pearson Report Received
 Notary Public, State of Texas
 My Commission Expires
February 26, 2005



Operator Name: ANADARKO PETR. CORP. Lease Name: SERU Well #: 19-1

Sec. 34 Twp. 32 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 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:

CBL, DIL, CNL-LDT, ML, SONIC.

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
GLORIETTA	1116	2147.5
B/STONE CORRAL	1530	1733.5
CHASE	2220	1043.5
COUNCIL GROVE	2514	749.5
B/HEEBNER	3678	-414.5
MARMATON	4464	-1200.5
MORROW SHALE	5046	-1782.5
MORROW "D"	5206	-1942.5

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	1630	P+MC/P+	440/125	3%CC, .1%FWCA, 1/2 PPS FC/2%CC, 1/4PPS FC.
PRODUCTION	7-7/8"	5-1/2"	15.5	5355	50/50 POZ	25/85	10% SALT, 6% HALAD 322, 1/4PPS FC/SAME.

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	5206-5240.	4000 GAL 10% MCA.	5206-5240

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 7/8"		5165	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Enhr.	Producing Method
WOPL	<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 (If vented, Sumit ACO-18.)

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

Production Interval 5206-40

HALLIBURTON JOB SUMMARY

SALES ORDER NUMBER 2399460	TICKET DATE 04/18/03
BDA / STATE MC/Ks	COUNTY MORTON
PSL DEPARTMENT Cement	CUSTOMER REP / PHONE STEVE BARTEL 806-679-3792
API/AMI #	SAP BOMB NUMBER 7521
HES FACILITY (CLOSEST TO WELL SITE) LIBERAL,KS.	

REGION Central Operations	NWA / COUNTRY Mid Continent/USA
WBU ID / EML # MCL / IO104	H.E.S. EMPLOYEE NAME JOHN WOODROW
LOCATION LIBERAL	COMPANY ANADARKO PETROLEUM CORPORA
TICKET AMOUNT \$10,263.54	WELL TYPE 01 Oil
WELL LOCATION ELKHART,KS.	DEPARTMENT CEMENT
LEASE NAME SERU	Well No. SEC / TWP / RNG 19-1 34 - 32S - 40W

ORIGINAL

HES EMP NAME / EMP # / (EXPOSURE HOURS)	HRS	HES EMP NAME / EMP # / (EXPOSURE HOURS)	HRS	HES EMP NAME / EMP # / (EXPOSURE HOURS)	HRS
Woodrow, J 105848	5.5	England, J	4.5		
Arnett, J 226567	5.5	Ferguson, R 106154	4.5		
King, K 105942	5.5				

H.E.S. UNIT #S / (R / T MILES)	R / T MILES	H.E.S. UNIT #S / (R / T MILES)	R / T MILES
10415641	.80	10240236 / 10240245	.30
54219 / 78299	.80	10264553 / 10286731	.30

Form. Name _____ Type: _____
 Form. Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Retainer Depth _____ Total Depth **1643**

Date	Called Out	On Location	Job Started	Job Completed
	4/18/2003	4/18/2003	4/18/2003	4/18/2003
Time	0600	0930	1240	1400

Tools and Accessories

Type and Size	Qty	Make
Float Collar INSERT 8 5/8	1	H
Float Shoe		
Centralizers REG 8 5/8	1	A
Top Plug 5-W 8 5/8	1	
HEAD Q/L 8 5/8	1	L
Limit clamp		
Weld-A		C
Guide Shoe REG 8 5/8	1	
BTM PLUG		O

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		24.0	8 5/8		KB	1,643	
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	
Perpac Balls	Qty.	
Other		
Other		
Other		
Other		
Other		

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
4/18	5.5	4/18	2.0	Cement Surface Casing
Total	5.5	Total	2.0	

SEE JOB LOG
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 CONSERVATION DIVISION
 WICHITA, KS

Ordered	Hydraulic Horsepower Avail.	Used
Treating	Average Rates in BPM Disp.	Overall
Feet 28	Cement Left in Pipe Reason	SHOE JOINT

Cement Data

Stage	Sacks	Cement	Bulk/Sks	Additives	W/Rq.	Yield	Lbs/Gal
1	440	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	Type:
Lost Returns -	MAXIMUM	Load & Bkdn: Gal - BBI	Pad: Bbl - Gal
Cmt Rtn#Bbl 50	Lost Returns -	Excess /Return BBI	Calc. Disp Bbl 102.7
Average	Actual TOC	Calc. TOC:	Actual Disp. 104
Shut In: Instant	Frac. Gradient	Treatment: Gal - BBI	Disp: Bbl
	5. Min. 15 Min.	Cement Slurry BBI	
		Total Volume BBI	364.00

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

THE INFORMATION STATED HEREIN IS CORRECT
 CUSTOMER REPRESENTATIVE _____

SIGNATURE _____

ORIGINAL

HALLIBURTON JOB LOG				TICKET # 2399460	TICKET DATE 04/18/03
REGION Central Operations		NWA / COUNTRY Mid Continent/USA		BDA / STATE MC/Ks	COUNTY MORTON
MBU ID / EMPL # MCL / IO104		H.E.S. EMPLOYEE NAME JOHN WOODROW		PSL DEPARTMENT Cement	
LOCATION LIBERAL		COMPANY ANADARKO PETROLEUM CORPO		CUSTOMER REP / PHONE STEVE BARTEL 806-679-3792	
TICKET AMOUNT \$10,263.54		WELL TYPE 01 Oil		API/UMI #	
WELL LOCATION ELKHART,KS.		DEPARTMENT CEMENT		JOB PURPOSE CODE Cement Surface Casing	
LEASE NAME SERU		Well No. 19-1	SEC / TWP / RNG 34 - 32S - 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
Woodrow, J 105848	5.5	England, J	4.5				
Arnett, J 226567	5.5	Ferguson, R 106154	4.5				
King, K 105942	5.5						

Chart No.	Time	Rate (BPM)	Volume (BBL/GAL)	Rate		Press. (PSI)		Job Description / Remarks
				NZ	CSG.	Tbg		
	1030							JOB READY
	0630							CALLED OUT FOR JOB
	0930							PUMP TRUCK ON LOCATION / PRE JOB SITE ASSESMENT
	0935							SPOT EQUIP. / RIG UP
	0930							RIG TRIPPING OUT DRILL PIPE
	1055							HOLD PRE JOB SAFETY MEETING
	1100							START RUNNING 8 5/8 CASING & FLOAT EQUIP
	1215							CASING ON BOTTOM (1643 FT.)
	1220							HOOK UP 8 5/8 P/C & CIRCULATING IRON
	1225							START CIRCULATING WITH RIG PUMP
								THROUGH CIRCULATING / HOOK UP TO PUMP TRUCK
								(JOB PROCEDURE)
	1240					1000		TEST PUMP & LINES
	1244	6.0	230.0			150		START MIXING 440 SKS LEAD CMT. @ 11.4#/GAL
	1325	5.0	30.0			102-160		START MIXING 125 SKS TAIL CMT. @ 14.8#/GAL
	1332							THROUGH MIXING CMT. / SHUT DOWN
	1333	6.0				100		RELEASE PLUG / START DISPLACING
	1345		50.0			165		HAVE 50 BBLs. OUT / HAVE CMT. RETURNS TO SURFACE
	1352	2.0	90.0			350-300		HAVE 90 BBLs. OUT / SLOW RATE TO 2 BPM
	1400					360		MAX LIFT PRESSURE BEFORE LANDING PLUG
	1400					800		PLUG DOWN / RELEASE FLOAT
								FLOAT HELD
								CIRCULATED 50 BBLs. TO SURFACE / 96 SKS ✓
								THANK YOU FOR CALLING HALLIBURTON !!!!
								(WOODY & CREW)



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KANSAS CORPORATION COMM. DIVISION

JUN 16 2003

CONSERVATION DIVISION
TOPEKA, KS

HALLIBURTON JOB SUMMARY

SALES ORDER NUMBER 2414507	TICKET DATE 04/25/03
BDA / STATE MC/Ks	COUNTY MORTON
PGL DEPARTMENT Cement	
CUSTOMER REP / PHONE # STEVE BARTEL 1-808-679-3792	
SAP BOMB NUMBER 7523 Cement Production Casing	
HES FACILITY (CLOSEST TO WELL SITE) LIBERAL, KS	

REGION Central Operations	NVA / TRY Mid. Continent/USA
WELL ID / EMPL # MCL10104 212723	H.E.S. EMPLOYEE NAME JERRAKO EVANS
LOCATION LIBERAL	COMPANY ANADARKO PETROLEUM CORPORATION
TICKET AMOUNT \$5,770.16	WELL TYPE 01 Oil
WELL LOCATION ROLLA, KS	DEPARTMENT CEMENT
LEASE NAME SERU	Well No. SEC / TWP / RNG 19-1 34 - 32S - 40W

ORIGINAL

HES EMP NAME / EMP # / (EXPOSURE HOURS)	HRS	HRS	HRS	HRS
Evans, J 212723	6	6.0		
King, K 105942		6.0		
Schawo, N 222552		6.0		

HES UNIT #S / (R / T MILES)	R / T MILES	R / T MILES	R / T MILES	R / T MILES
10415642	120			
54219-78299	120			
54225-10011272	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
	4/25/2003	4/25/2003	4/25/2003	4/25/2003
Time	1100	1330	1800	1930

Tools and Accessories

Type and Size	Qty	Make
Float Collar SS	1	HOWCO
Float Shoe SS	1	HOWCO
Centralizers S4	11	HOWCO
Top Plug ALUM	1	HOWCO
HEAD 5 1/2	1	HOWCO
Limit clamp		
Weld-A	1	HOWCO
Guide Shoe		
BTM PLUG		

Well Data

	New/Used	Weight	Size Grade	From	To	Max. Allow
Casing	NEW	16.5	5 1/2	0	5,372	
Liner						
Liner						
Tubing						
Drill Pipe						
Open Hole			7 7/8		5,355	Shots/Ft.
Perforations						
Perforations						
Perforations						

Materials

Material	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	
4/25	6.0	4/25	9.0	Cement Production Casing
Total	6.0	Total	9.0	

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Ordered	Hydraulic Horsepower Avail.	Used
Treating	Average Rates in BPM	Overall
	Disp.	
Feet 45	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 H		10% SALT - .6% HALAD-322 - 1/4# FLOCELE	40.45	6.07	10.00
2	85	50/50 POZ H		10% SALT - .6% HALAD-322 - 1/4# FLOCELE	5.58	1.26	14.40
3	25	50/50 POZ H		10% SALT - .6% HALAD-322 - 1/4# FLOCELE (TO PLUG)	5.58	1.26	14.40
4							

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. 127
Shut In: Instant	Frac. Gradient	Treatment: Gal - BBI	Disp:Bbl
	5 Min	Cement Slurry BBI	48.0
	15 Min	Total Volume BBI	175.00

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

THE INFORMATION STATED HEREIN IS CORRECT
 CUSTOMER REPRESENTATIVE

SIGNATURE

ORIGINAL

HALLIBURTON JOB LOG		TICKET # 2414507	TICKET DATE 04/25/03
REGION Central Operations	NWA / COUNTRY Mid Continent/USA	BDA / STATE MC/Ks	COUNTY MORTON
MSU ID / EMPL # MCL10104 212723	H.E.S. EMPLOYEE NAME JERRAKO EVANS	PSL DEPARTMENT Cement	
LOCATION LIBERAL	COMPANY ANADARKO PETROLEUM CORPO	CUSTOMER REP / PHONE STEVE BARTEL	1-806-679-3792
TICKET AMOUNT \$5,770.16	WELL TYPE 01 Oil	AFI/UNI #	
WELL LOCATION ROLLA, KS	DEPARTMENT CEMENT	JOB PURPOSE CODE Cement Production Casing	
LEASE NAME SERU	Well No. 19-1	RES FACILITY (CLOSEST TO WELL'S) LIBERAL, KS	

RES EMP NAME/EMPL # (EVS) (EURE) (HRS)	HRS	RES EMP NAME/EMPL # (EVS) (EURE) (HRS)	HRS	RES EMP NAME/EMPL # (EVS) (EURE) (HRS)	HRS
Evans, J 212723	6				
King, K 105942	6				
Schawo, N 222552	6				

Chart No.	Time	Rate (BPM)	Volume (BBL)(GAL)	Rate		Press.(PSI)		Job Description / Remarks
				N2	CSG.	Tbg		
	1400							JOB READY
	1100							CALLED OUT FOR JOB
	1230							PRE-TRIP SAFETY MEETING
	1330							PUMP TRUCK ON LOCATION/ JOB SITE ASSESMENT
	1345							RIG UP TRUCKS
	1350							RIG UP CASING CREW
	1400							PRE-JOB SAFETY MEETING
	1415							START RUNNING CASING & FE (5 1/2)
	1700							CASING ON BOTTOM (5472FT)
	1715							HOOK UP PLUG & CIRC IRON
	1730							CIRC WITH RIG PUMP
	1800	2'	5'					PLUG RAT & MOUSE HOLES
								HOOK UP TO PUMP TRUCK
	1815					3000		TEST LINES
	1816	6.0	5.0					PUMP FRESH WATER SPACER
	1818	6.0	27.0			0-250		START MIXING LRAD CMT @ 10# (25 SKS 50/50 POZ H)
	1823	6.0	19.0			200		START MIXING TAIL CMT @14.4# (85 SKS 50/50 POZ H)
								THROUGH MIXING CMT / WASH PUMP & LINES
								DROP PLUG
	1829	6.0						START DISP WITH 4% KCL & CLA-STA
	1846	6.0	102.0			0-275		DISP CAUGHT CMT
	1850	2.0	117.0					SLOW RATE
	1856	2.0	127.0			900		BUMP PLUG
	1857							RELEASE FLOAT HELD
	1859					2000		PRESSURE TEST CASING
	1930							END JOB
								THANKS FOR CALLING HALLIBURTON
								JERRAKO & CREW

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JUN 15 2003
 CONSERVATION DIVISION
 WICHITA, KS