

FORM MUST BE TYPED

SIDE ONE

ORIGINAL

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

Operator: License # 4549

Name: ANADARKO PETROLEUM CORPORATION

Address P. O. BOX 351

City/State/Zip LIBERAL, KANSAS 67905-0351

Purchaser: ANADARKO ENERGY SERVICES

Operator Contact Person: DAVID W. KAPPLE

Phone (316) 624-6253

Contractor: Name: NORSEMAN DRILLING

License: 3779

Wellsite Geologist: \_\_\_\_\_

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:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Deepening  Re-perf.  Conv. to Inj/SWD

Plug Back  PBDT

Commingled  Docket No. \_\_\_\_\_

Dual Completion  Docket No. \_\_\_\_\_

Other (SWD or Inj?)  Docket No. \_\_\_\_\_

5-6-97 5-10-97 5-30-97

Spud Date Date Reached TD Completion Date

API No. 15- 189-22157-00-00

County STEVENS

NE - NE - SW - SE Sec. 30 Twp. 33 Rge. 37 X W

1250 Feet from X (circle one) Line of Section

1390 Feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE, SE NW or SW (circle one)

Lease Name WILLIAMS "I" Well # 4

Field Name HUGOTON

Producing Formation CHASE

Elevation: Ground 3149.0 KB \_\_\_\_\_

Total Depth 2900 PBDT 2845

Amount of Surface Pipe Set and Cemented at 640 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 Att. 1, 3-17-98 v.c.  
(Data must be collected from the Reserve Pit)

Chloride content NA ppm Fluid volume 400 bbls

Dewatering method used DRY, BACKFILL & RESTORE LOCATION.

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name \_\_\_\_\_

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

\_\_\_\_\_ Quarter Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

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 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

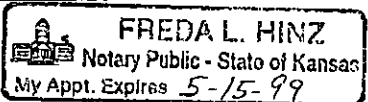
L. MARC HARVEY

Title DRILLING TECHNICAL ASSISTANT Date 9-2-97

Subscribed and sworn to before me this 2nd day of September 19 97.

Notary Public Freda L. Hinz

Date Commission Expires \_\_\_\_\_



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)

Form ACO-1 (7-91)

09-15-1997

SIDE TWO

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name WILLIAMS "I" Well # 4

Sec. 30 Twp. 33 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  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: SBT-CCL-GR, DIL, CNL-LDT.

Log Formation (Top), Depth and Datums  Sample

Name	Top	Datum
B/ STONE CORRAL	1740	
U. KRIDER	2594	
L. KRIDER	2620	
WINFIELD	2672	
TOWANDA	2726	
FTL RILEY	2792	

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	640	P+ MIDCON 2/ P+	80/100	3%CC, 1/4#SK FLC/ 2%CC, 1/4#SK FLC.
PRODUCTION	7-7/8"	5-1/2"	15.5	2895	P+ MIDCON 2/ P+ MIDCON 2	175/100	2%CC, 1/4#SK FLC/ 2%CC, 1/4#SK FLC.

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		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
1/1.5 FT.	2793-2809.5, 2745-2757, 2727-2734.5, 2685-2692.5		ACID: 1000 GAL 7 1/2% FeHCL.	2793-2809.5 (OA)
1/1.5 FT.	2630-2639, 2594-2598.5		ACID: 2700 GAL 7 1/2% FeHCL.	2594-2809.5 (OA)
			FRAC: 96500 GAL FMD GLD 2% KCL WTR &	2594-2809.5 (OA)
			352000# 12/20 SD.	

TUBING RECORD Size Set At Packer At Liner Run  Yes  No

Date of First, Resumed Production, SWD or Inj. 8/29/97 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		1162	0		

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 2594-2809.5 (OA)

TICKET # **184039** TICKET DATE **5-7-97**  
 BDA / STATE **Ks** COUNTY **STEVENS**

REGION **North America** NWAC/COUNTRY **NA CONTINENT**  
 MBU ID / EMP # **L10101 24604** EMPLOYEE NAME **TIM BROADFOOT** PSL DEPARTMENT **CEMENT**  
 LOCATION **LIBERAL KS.** COMPANY **ANADARKO PETR.** CUSTOMER REP / PHONE \_\_\_\_\_  
 TICKET AMOUNT \_\_\_\_\_ WELL TYPE **02** API / UWI # \_\_\_\_\_  
 WELL LOCATION **LAND** DEPARTMENT **CEMENT** JOB PURPOSE CODE **010**  
 LEASE / WELL # **Williams I-4** SEC / TWP / RNG **30-33S-37W**

**ORIGINAL**

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
<b>T. BROADFOOT 24604</b>							
<b>J KLOFT 8525</b>							
<b>B McINTYRE H2308</b>							

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
<b>52947-75346</b>	<b>74</b>						
<b>50846-75505</b>	<b>8</b>						
<b>420045</b>	<b>74</b>						

Form Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Form Thickness \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At \_\_\_\_\_  
 Bottom Hole Temp. \_\_\_\_\_ Pressure \_\_\_\_\_  
 Misc. Data \_\_\_\_\_ Total Depth \_\_\_\_\_

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
	<b>5-7-97</b>	<b>5-7-97</b>	<b>5-7-97</b>	<b>5-7-97</b>
TIME	<b>0100</b>	<b>0400</b>	<b>0650</b>	<b>0730</b>

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
<b>Float Collar INSERT 9 5/8</b>	<b>1</b>	<b>H</b>
<b>Float Shoe FILLUP</b>	<b>1</b>	
<b>Guide Shoe REGULAR</b>	<b>1</b>	<b>D</b>
<b>Centralizers</b>	<b>4</b>	
<b>Bottom Plug</b>		<b>W</b>
<b>Top Plug SW</b>	<b>1</b>	
<b>Headflow COWEIA A</b>	<b>1</b>	<b>C</b>
<b>Packer</b>		
<b>Other</b>		<b>O</b>

### WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
<b>Casing</b>	<b>N</b>	<b>36</b>	<b>9 5/8</b>	<b>GL</b>	<b>640</b>	
<b>Liner</b>						
<b>Liner</b>						
<b>Tbg/D.P.</b>						
<b>Tbg/D.P.</b>						
<b>Open Hole</b>			<b>12 1/4</b>	<b>GL</b>	<b>640</b>	<b>SHOTS/FT.</b>
<b>Perforations</b>						
<b>Perforations</b>						
<b>Perforations</b>						

### MATERIALS

Treat Fluid	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	
				<b>10 BBL CMT</b>
				<b>PT 17 SKS</b>
<b>TOTAL</b>		<b>TOTAL</b>		

ORDERED	HYDRAULIC HORSEPOWER	Used
	Avail.	
<b>TREATED</b>	AVERAGE RATES IN BPM	Overall
	Disp.	
<b>FEET 44</b>	CEMENT LEFT IN PIPE	
	Reason	<b>SHOE JT</b>

### CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
<b>1</b>	<b>80</b>	<b>MID CON PLUS</b>	<b>B</b>	<b>2% C.C. - 1/4 # / FROCELE</b>	<b>3.22</b>	<b>11.1</b>
<b>1</b>	<b>100</b>	<b>PREM PLUS</b>	<b>B</b>	<b>2% C.C. - 1/4 # / FROCELE</b>	<b>1.32</b>	<b>14.8</b>

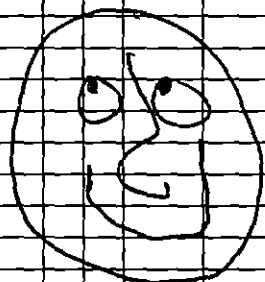
Circulating _____	Displacement _____	Preflush: Gal - BBI _____	Type _____
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BBI _____	Pad: BBI - Gal _____
Average _____	Frac Gradient _____	Treatment Gal - BBI _____	Disp: BBI Gal <b>47.60</b>
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr Gal <b>(BBI) 46-24</b>	
		Total Volume Gal - BBI _____	

Frac Ring #1 \_\_\_\_\_ Frac Ring #2 \_\_\_\_\_ Frac Ring #3 \_\_\_\_\_ Frac Ring #4 \_\_\_\_\_  
 THE INFORMATION STATED HEREIN IS CORRECT CUSTOMER'S REPRESENTATIVE SIGNATURE \_\_\_\_\_

REGION North America	COUNTRY INDIA	BDA / STATE KS	COUNTY SEVEN
MBU ID / EMP # 2711 2404	EMPLOYEE NAME T. J. ...	PSL DEPARTMENT CEMENT	
LOCATION ...	COMPANY D. ...	CUSTOMER REP / PHONE	
TICKET AMOUNT 6098.00	WELL TYPE 02	API / UWI #	ORIGINAL
WELL LOCATION LH.10	DEPARTMENT L... 17	JOB PURPOSE CODE 010	
LEASE / WELL # ... I-4	SEC / TWP / RNG 37-33S-37W		

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
T. J. ... 04.5			
I. K. ... 7			
...			

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psl)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0100							Call out
	0400							On Location
	0405							Safety Meeting / Pig-up
	0515							START CSG IN HOG
	0630							Hook up CMT LEAD
	0640							CIRCULATE SAFETY MEETING.
	0650							Hook up CMT LINE
	0652					1000		PRESSURE TEST LINES
	0655	5.3	46					START LEAD CMT 11.1 # GAL
			23.5					START TAIL CMT 14.8 # GAL
	0708	5.3				0		SHUT OFF DROP PLUG
	0711	5.3	48			0		START N <sub>2</sub> DISPLACEMENT
	0720							PLUG LANDED - FLOAT HELD
								JOB OVER



THANKS FOR CALLING  
 HALLIBURTON ENERGY SERVICES  
 LIBERAL KS.  
 HAVE A GOOD DAY  
 1000L CMT PIT - 117 SKS





**JOB LOG** 4239-5

REGION North America	NWA/COUNTRY	TICKET #	TICKET DATE
MBU ID / EMP #	EMPLOYEE NAME	BDA / STATE	COUNTY
LOCATION	COMPANY	PSL DEPARTMENT	
TICKET AMOUNT	WELL TYPE	CUSTOMER REP / PHONE	
WELL LOCATION	DEPARTMENT	API / UWI #	
LEASE / WELL #	SEC / TWP / RNG	JOB PURPOSE CODE	

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

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1730							JOB READY
	1830							Called out for job
	1630							pump truck on location / Rig laying down Drill pipe
	1730							SET up pump truck
	1830							Blkt com on location
	1915							D.P. Layed Down / Lay down R-11 + M-11
	21:11							START RUNNING 4' CSG + FLY EQUIP
	21:13							Rig up Head - Iron - Drop Ball
	21:44							Circulated w/ R.G. pump (300/min)
	21:46	1.5	3.5					Pump Super Flush down hole / Shut well in
	21:49	1.5	3.0					Mix Pump CMT for Rat hole
	21:55	7.5	97.48	✓		300		Mix Pump CMT Lead @ 11.1#/gal
	22:09	7.5	44.52	✓		95		Mix Pump CMT Tail @ 12.8#/gal
	22:19							Wash pump's lines
	22:17							Drop Plug
	22:18	7.5	115.37	✓		Vac 150		Start Displacement
	22:37			✓		650 1500		Land Plug
	22:38							Release Back to truck / Plug held
	22:42							End Job

THANK YOU  
Robby  
John Woody