

ORIGINAL

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

API NO. 15- 189-22342-00-00
County STEVENS
180'S & 70'E OF _____ E
_____ C - NE Sec. 18 Twp. 33S Rge. 37 X W

Operator: License # 4549
Name: ANADARKO PETROLEUM CORPORATION
Address P. O. BOX 351
City/State/Zip LIBERAL, KANSAS 67905-0351

1500 Feet from (X) (circle one) Line of Section
1250 Feet from (E) (circle one) Line of Section

Purchaser: ANADARKO ENERGY SERVICES
Operator Contact Person: SHAWN YOUNG
Phone (316) 624-6253

Footages Calculated from Nearest Outside Section Corner:
(NE), SE, NW or SW (circle one)

Contractor: Name: NORSEMAN DRILLING
License: 3779
Wellsite Geologist: _____

Lease Name RATCLIFF "B" Well # 4
Field Name PANOMA COUNCIL GROVE
Producing Formation COUNCIL GROVE

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

Elevation: Ground 3120.1 KB _____
Total Depth 3070 PBDT 3064
Amount of Surface Pipe Set and Cemented at 633 Feet

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. _____
7/29/2000 8/2/2000 8/31/2000
Spud Date Date Reached TD Completion Date

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.

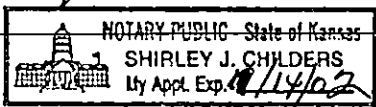
Drilling Fluid Management Plan ALT 1 8/10/12/00
(Data must be collected from the Reserve Pit)
Chloride content 8000 ppm Fluid volume 400 bbls
Dewatering method used DRY, BACKFILL & RESTORE LOCATION.
Location of fluid disposal if hauled offsite: _____
Operator Name _____
Lease Name _____ License No. _____
_____ Quarter Sec. _____ Twp. _____ S Rng. _____ E/W
County _____ Docket No. _____

RECEIVED
STATE CORPORATION COMMISSION
9-15-00
SEP 15 2000

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
Title ENGINEERING TECHNICIAN III Date 9-14-2000
Subscribed and sworn to before me this 14th day of September
20 00.
Notary Public Shirley J Childers
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)

X

Operator Name **ANADARKO PETROLEUM CORPORATION**

Lease Name **RATCLIFF "B"**

Well # **4**

Sec. **18** Twp. **33S** Rge. **37**
 East
 West

County **STEVENS**

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: CBL-CCL-GR, DIL, CNL-LDT.

Log Formation (Top), Depth and Datums Sample

Name	Top	Datum
B/STONE CORRAL	1700	
CHASE	2494	
COUNCIL GROVE	2860	

CASING RECORD

New 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"	24.0	633	P+ MIDCON/P+	130/100	3%GEL, .2%FLCA, 2%CC, %#/SK FLC/2%CC, %#/SK FLC.
PRODUCTION	7-7/8"	5-1/2"	15.5	3070	P+ MIDCON/P+	200/100	3%GEL, .2%FLCA, 2%CC, %#/SK FLC/2%CC, %#/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 Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	2870-96, 2910-26, 2937-44, 2960-66, 2975-80,	ACID: 3350 GAL 15% HCL	2870-2996 OA
	2989-96.	FRAC: 532 BBL FOAMED GEL & 142,700# 16/30	2870-2996 OA
		SD.	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-3/8"	2871'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj. **9/8/2000** Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		400	48		

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 **2870-2996 OA.**

JOB SUMMARY

ORDER NO. 70006

TICKET #	78808	TICKET DATE	8-2-00
BDA / STATE	KS	COUNTY	STEVENS
PSL DEPARTMENT	ZONAL ISOLATION		
CUSTOMER REP / PHONE	Jim Barlow 281-543-2343		
API / UWI #	02		
JOB PURPOSE CODE	035		

REGION	North America	NWA/COUNTRY	Mid CONTINENT
MBU ID / EMP #	MCL J0104 105848	EMPLOYEE NAME	JOHN WOODROW
LOCATION	LIBERAL KS	COMPANY	ANADARKO PETROLEUM
TICKET AMOUNT	\$ 9235.86	WELL TYPE	02
WELL LOCATION	HUGOTON	DEPARTMENT	CEMENT
LEASE / WELL #	RATCLIFF # B-4	SEC / TWP / RNG	18-335-37W

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
J. WOODROW 105848	6						
A. ZIMMERMAN 202875	6						
R. FERGUSON 106154	6						

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
420621 p/l	60						
54219/19299	60						
54024/6671	1						

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth 3070

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar TWSRT 5/8	1	H
Float Shoe		
Guide Shoe REC 5/8	1	G
Centralizers 5-4 5/8	10	
Bottom Plug		W
Top Plug S-W 5/8	1	
Head p/c 5/8	1	G
Packer		
Other		G

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		

DATE	CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
	8-2-00	8-2-00	8-2-00	8-2-00
TIME	1700	1900	2230	2330

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	15.5	5 1/2	180	3100	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				JOB PROCEDURE
				SFF JOB LOG
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER

ORDERED _____ Avail. _____ Used _____

TREATED _____ AVERAGE RATES IN BPM _____ Overall _____

FEET _____ CEMENT LEFT IN PIPE _____ Reason _____

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	220	pt	B	38 ECANOVA, 28 D-AIR 3000, 28 CC 1/4 HOCCLP	2.89	11.4
	100	pt midcov	B	28 CC 1/4 HOCCLP	2.60	10.8

Circulating _____	Displacement _____	Preflush: Gal - BBI _____	Type _____
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BBI _____	Pad: BBI - Gal _____
Average _____	Frac Gradient _____	Treatment Gal - BBI _____	Disp: BBI - Gal 73.5
Shut In: Instant _____	5 Min _____	Cement Slurr Gal - BBI 113 L.G. 35.6	
	15 Min _____	Total Volume Gal - BBI _____	



HALLIBURTON

JOB LOG

ORDER NO. 70006

TICKET #

783281

TICKET DATE

6:00

REGION North America	NWA/COUNTRY MID CONTINENT	BDA / STATE KS	COUNTY JEFFERSON
MBU ID / EMP # MPL JERRY 15217	EMPLOYEE NAME JOHN WOODROW	PSL DEPARTMENT ZONAL EDUCATION	
LOCATION LIBERTY KS	COMPANY ANADARKO PETROLEUM	CUSTOMER REP / PHONE JIM EARLOW 281-533-2393	
TICKET AMOUNT 150.00	WELL TYPE 02	API / UWI #	
WELL LOCATION MUSKOGEE	DEPARTMENT CEMENT	JOB PURPOSE CODE 035	
LEASE / WELL # CAT CAMP # 840	SEC / TWP / RNG 15-33-37W	8:2:00	

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
J. WOODROW 15217 0.81		2030	
J. EARLOW 28153 0.6			
J. PERDUE 1459 0.6			
NAT CLIFF # 84			
WATER TANK			

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS T	PRESS. (psi)	JOB DESCRIPTION / REMARKS
	1700				15848	JOB READY NOW
	1700					CALLED OUT FOR JOB
	1900					PUMP TRUCK ON LOCATION - RIG IN @ DOWN DRILL PIPE - HAVE PRE JOB SITE ASSESSMENT SPOT EQUIPMENT.
	1930			78 6.5 -200 500 4/4		START RUNNING 5/2 CSG + FIT EQUIPMENT CASING ON BOTTOM 3100' HOOK UP 5/2 P/C + CIRCULATING IRON
						START CIRCULATING WITH RIG PUMP THROUGH CIRCULATING - HOOK UP TO PUMP TRUCK
						JOB PROCEDURE
2230				✓	2000	TEST PUMP + LINES
2234	5.0	5	✓	1250	PUMP 5 BBL FRESH WATER SPACER	
2238	5.0	10	✓	200	PUMP 10 BBL SUPER FLUSH	
2240	5.0	5	✓	200	PUMP 5 BBL FRESH WATER SPACER	
2242	6.0	113	✓	180	START MIXING 220 SKS LEAD CMT AT 11.4 LBS/GAL	
2300		35	✓			START MIXING 100 SKS TAIL CMT AT 12.8 LBS/GAL
						THROUGH MIXING CMT - SHUT DOWN WASH OUT PUMP + LINES - RELEASE PLUG
2305						
2306						
2310	6.0		✓	0/160		START DISPLACING
2312		20	✓	100/145		HAVE 20 BBL OUT - DISP REACHED CMT
			✓	700		MAX LIFT PRESSURE BEFORE LANDING PLUG
		75.0	✓	1500		PLUG DOWN - RELEASE FLOAT FLOAT DID NOT HOLD PUMP PLUG TO 1000' - SHUT IN P/C
0100		5.0				PLUG R-H + M-H WITH 25SKS CMT
						THANK YOU FOR CALLING HALLIBURTON! WOODY + CREW

Jim Earlow