

FORM MUST BE TYPED

SIDE ONE

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: NATIONAL COOPERATIVE REFINING ASSOCIATION

Operator Contact Person: DAVID W. KAPPLE

Phone (316) 624-6253

Contractor: Name: BIG "A" DRILLING

License: 31572

Wellsite Geologist: _____

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:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

10-10-98 11-5-98 12-15-98
Spud Date Date Reached TD Completion Date

API NO. 15- 175-21760-00-00

County SEWARD
90' E OF _____
C - W/2 - W/2 - NE Sec. 7 Twp. 35 Rge. 33 X W

660 Feet from X (circle one) Line of Section

900 Feet from X (circle one) Line of Section

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

Lease Name BLOOM "C" Well # 1

Field Name LIBERAL SE

Producing Formation CHESTER

Elevation: Ground 2855.0 KB _____

Total Depth 6900 PBDT 6759

Amount of Surface Pipe Set and Cemented at 1623 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 A.H. 1, 2-2-99 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 1300 ppm Fluid volume 700 bbls

Dewatering method used DRY, BACKFILL & RESTORE LOCATION

Location of fluid disposal if hauled offsite: _____

Operator Name KCC

Lease Name JAN 13 1999 License No. MAY 07 2001

Quarter 1 Sec. 7 Twp. 35 Rge. 33

County _____ Docket No. _____

CONFIDENTIAL

STATE CORPORATION COMMISSION
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JAN 14 1999
CONSERVATION DIVISION
Wichita, Kansas

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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 1-13-99

Subscribed and sworn to before me this 13th day of January 19 99.

Notary Public Freda L. Hinz

Date Commission Expires _____

FREDA L. HINZ
Notary Public - State of Kansas
My Appt. Expires 5-15-99

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)

ORIGINAL

SIDE TWO

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name BLOOM "C" Well # 1

Sec. 7 Twp. 35 Rge. 33 [] East [x] West County SEWARD

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 [x] No (Attach Additional Sheets.)

Samples Sent to Geological Survey [x] Yes [] No

Cores Taken [] Yes [x] No

Electric Log Run [x] Yes [] No (Submit Copy.)

List All E.Logs Run: SBT-CCL-GR, DIL, ML, MLL, CNL-LDT, LS SONIC, DIR SURVEY.

Log Formation (Top) Depth and Datums [] Sample Name Top Datum CHASE 2623 COUNCIL GROVE 3004 HEEBNER 4343 TORONTO 4374 LANSING 4505 MARMATON 5225 CHEROKEE 5551 MORROW 5900 CHESTER 6224 STE. GENEVIEVE NOT PRESENT ST. LOUIS 6684 SPERGEN 6855

CASING RECORD [x] New [] Used Report all strings set-conductor, surface, intermediate, production, etc. Table with columns: 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.

ADDITIONAL CEMENTING/SQUEEZE RECORD Table with columns: Purpose, Depth Top Bottom, Type of Cement, #Sacks Used, Type and Percent Additives.

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

TUBING RECORD Size 2 7/8 Set At 6595 Packer At Liner Run [] Yes [x] No

Date of First, Resumed Production, SWD or Inj. 12/29/98 Producing Method [] Flowing [x] Pumping [] Gas Lift [] Other (Explain)

Estimated Production Per 24 Hours Oil 82 Bbls. Gas TSTM Mcf Water 202 Bbls. Gas-Oil Ratio TSTM Gravity 42

Disposition of Gas: [] Vented [] Sold [x] Used on Lease (If vented, submit ACO-18.) METHOD OF COMPLETION [] Open Hole [x] Perf. [] Dually Comp. [] Commingled [] Other (Specify) Production Interval 6623-6670 (QA)



JOB SUMMARY 4239-1

TICKET #	384200	TICKET DATE	10-11-98
BDA / STATE	KS	COUNTY	SEWARD
PSL DEPARTMENT	ZONAL ISOLATION		
CUSTOMER REP / PHONE	ORIGINAL		
API / UWI #	010-889 SURFACE		
JOB PURPOSE CODE	CEMENT		

REGION	North America	NWA/COUNTRY	Mid. CONTINENT
MBU ID / EMP #	LT 104 62573	EMPLOYEE NAME	Tony Woodrow
LOCATION	LIBERAL KS	COMPANY	ANADARKO PETROLEUM
WELL TYPE	LIBERAL	DEPARTMENT	CEMENT
WELL LOCATION	Bloom #1	SEC / TWP / RNG	7-35S-33W

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 62573		CONFIDENTIAL					KCC
S. GRANT 44639							JAN 13 1999
R. ANDERSON 68213							
S. OLIVER 32200							

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
54218/76700	2						
53336/6611	32						
53331/75505	32						

Form Name _____ Type: _____

Form Thickness _____ From _____ To _____

Packer Type _____ Set At _____

Bottom Hole Temp. _____ Pressure _____

Misc. Data _____ Total Depth _____

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe INSERT 8 7/8	1	H
Guide Shoe REG 8 7/8	1	O
Centralizers S-41 8 7/8	5	
Bottom Plug		
Top Plug		
Head S-W 8 7/8	1	
Packer p/c 8 1/4	1	C
Other		

BASKET MATERIALS

DATE	TIME	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
10-10		98	10-10-98	10-11-98	10-11-98

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	23	8 7/8	55	1621	
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	
				STATE OF WISCONSIN REGISTRATION COMMISSION JAN 14 1999 CONSERVATION DIVISION Wichita, Kansas
TOTAL		TOTAL		

ORDERED	HYDRAULIC HORSEPOWER	Avail.	Used
TREATED	AVERAGE RATES IN BPM	Disp.	Overall
FEET	CEMENT LEFT IN PIPE	Reason	

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		

CEMENT DATA **RELEASED**

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	550	PT 1/2 inch	B	3% CE, 1.8% WCA, 1/2" FROGGE	MAY 07 2001	2.84 11.4
	100	PT	B	2% CE, 1/4 FROGGE	FROM CONFIDENTIAL	1.34 11.8

Circulating	Displacement	Preflush:	Gal - BBI	Type
Breakdown	Maximum	Load & Bkdn:	Gal - BBI	Pad: BBI - Gal
Average	Frac Gradient	Treatment	Gal - BBI	Disp: BBI - Gal
Shut In: Instant	5 Min	Cement Slurr	Gal - BBI	180 LC 24 FC
	15 Min	Total Volume	Gal - BBI	

Frac Ring #1	Frac Ring #2	Frac Ring #3	Frac Ring #4
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THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE
Don [Signature]



JOB LOG 4239-5

TICKET #	384200	TICKET DATE	10-11-78
REGION	North America	NWA/COUNTRY	MID CONTINENT
MBU ID / EMP #	IT 104 62573	EMPLOYEE NAME	John Woodrow
LOCATION	SEEN 1'S	COMPANY	ADAMARKO PETROLEUM
TICKET AMOUNT		WELL TYPE	CS
WELL LOCATION	SEEN 1'S	DEPARTMENT	CEMENT
LEASE / WELL #	Bloom C-1	SEC / TWP / RNG	7-35-S-33W
BDA / STATE	KS	PSL DEPARTMENT	ZONAL ISOLATION
COUNTY	SEWARD	CUSTOMER REP / PHONE	
API / UWI #		JOB PURPOSE CODE	CHO 878 SURFACE

ORIGINAL

HES EMP NAME/EMP#(EXPOSURE HOURS) HRS	J. Woodrow 12573	HES EMP NAME/EMP#(EXPOSURE HOURS) HRS		HES EMP NAME/EMP#(EXPOSURE HOURS) HRS		HES EMP NAME/EMP#(EXPOSURE HOURS) HRS	
	S. G. GALT 149639						
	P. Adkinson 02213						
	S. CHURCH 12209						

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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0600							JOB READY
	0930							CALLED OUT FOR JOB
	0800							PUMP TRUCK ON LOCATION / HAVE PRE JOB SITE ASSESSMENT MEETING / SPOT PUMP TRUCK RIG UP / RIG STILL DRILLING
	1030							RIG THROUGH DRILLING TRIP OUT DRILL PIPE
	1230							START RUNNING 8 7/8 CSG + FLOAT EQUIPMENT CASING ON BOTTOM 1621' HOOK UP 8 7/8 P/C + CIRCUITING IRON
	1355							START CIRCUITING WITH RIG PUMP HOLD PRE JOB SAFETY MEETING THROUGH CIRCUITING / HOOK UP TO PUMP TRUCK
	1406							JOB PROCEDURE PRESSURE TEST PUMP & LINES / START MIXING LEAD CMT AT 14.4 GAL / MIX TAIL CMT AT 14.8" THROUGH MIXING CMT / SHUT DOWN / RELEASE PLUG / START DISPLACING HAVE 30 BBLS OUT / HAVE CMT RETURNS TO SURFACE
	1456		180					HAVE 50 BBLS OUT / SLOW RATE DOWN 2 BPM
	1500		24					HAVE 70 BBLS OUT / SLOW RATE DOWN 1 BPM
	1510		204					PLUG DOWN / DUMPED 3 BBLS OVER PERFECT DISP / RELEASE FLOAT / FLOAT HELD
			105			300		CIRCULATED (30 BBLS 65 SPS TO PIT) ✓

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JAN 14 1999

MAY 07 2001

CONSERVATION DIVISION
Wichita, Kansas

FROM CONFIDENTIAL



JOB SUMMARY 4239-1

REGION North America	NWA/COUNTRY USA	TICKET # 382401	TICKET DATE 11-7-98
MBU ID / EMP # ML10103 F4550	EMPLOYEE NAME Tye Davis	BDA / STATE KS	COUNTY Seward
LOCATION Liberal	COMPANY APC	PSL DEPARTMENT 7E	CUSTOMER REP / PHONE Steve Henderson
TICKET AMOUNT	WELL TYPE 02	API / UWI #	JOB PURPOSE CODE 035
WELL LOCATION Land	DEPARTMENT ZJ	ORIGINAL	
LEASE / WELL Bloom C-1	SEC / TWP / RNG 7-35-33		

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS T. Davis F4550	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
B. McIntyre H2308			
J. Anderson C8213			
J. Lolo H46960			
CONFIDENTIAL			
KCC			
HES UNIT NUMBERS 5402-77941	R/T MILES 2 32	HES UNIT NUMBERS	R/T MILES
CONFIDENTIAL			

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
TIME	11-7-98 0100	11-7-98 0200	11-7-98 1130	11-7-98 1230

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar 5 1/2	1	H
Float Shoe 5 1/2	1	
Guide Shoe Key	1	0
Centralizers SH	3	
Bottom Plug		W
Top Plug SW	1	
Head PC	1	L
Packer		
Other		

WELL DATA

NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing N	15.5	5 1/2	KB	6807	
Liner		RELEASED			
Liner					
Tbg/D.P.					
Tbg/D.P.		MAY 07 2001			
Open Hole					SHOTS/FT.
Perforations					
Perforations					
Perforations					

FROM CONFIDENTIAL

MATERIALS

Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
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	
				CMF
				5 1/2
				C.S.
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER
 Avall. _____ Used _____
 AVERAGE RATES IN BPM
 TREATED _____ Disp. _____ Overall _____
 FEET 42 _____ CEMENT LEFT IN PIPE Reason S.J.

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	25	P11M 5450	B	10% Jolt, 75% Hg, 4% 322, 1/4" F10	330	10.0
1	100	"	"	"	128	14.4
1	25	"	"	"	128	14.4

Circulating _____	Displacement _____	Preflush: Gal - BBI 26	Type H2O CCF
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BBI	Pad: BBI - Gal
Average _____	Frac Gradient _____	Treatment Gal - BBI	Disp: BBI Gal 161
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr Gal - BBI 15 L.C. 23 H.	6 K.P.M.
		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
Steve Henderson

7



JOB LOG 4239-5 ORIGINAL

TICKET # 382401 TICKET DATE 11-7-98

REGION North America	NWA/COUNTRY USA	BDA / STATE KJ	COUNTY S.S. W. MO.
MBU ID / EMP # mc 145003 F4550	EMPLOYEE NAME Tyce Davis	PSL DEPARTMENT Z.I.	
LOCATION Liberal	COMPANY WPP	CUSTOMER REP / PHONE Steve Pridemore	
TICKET AMOUNT	WELL TYPE OIL	API / UWI #	KCC
WELL LOCATION L-11	DEPARTMENT Z.I.	JOB PURPOSE CODE 035	JAN 13 1999
LEASE / WELL # 6200 m	SEC / TWP / RNG 735 33		

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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. Davis F4550			
B. McJannet H2308			
R. Anderson C8213			
P. Leno M6960			

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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	L Csg	
	0100							Called out for job
	0200							on loc. K. & L.O.D.P.
	0700							out of hole with K & up cables.
	0730							start 5/2 csg & F.E.
	1039							csg on BOB. Hook up 5/2 pipe & circ iron.
	1047							brk circ with.
	1050							line to pit
	1110							plug cut & mouse.
	1120							phi circ hook iron to P.F.
	1129					6000		15 fast lines.
	1137	6.5	8			300		pump H ₂ O.
	1138	6.5	10			500		pump super flush.
	1140	6.5	8			290		pump H ₂ O.
	1142	6.5	15			280		pump 25sx prem 30750 at 10" gal.
	1145	6.5	23			280		pump 100sx prem 30750 at 14.4" gal
	1148	0	64			0		shut down BOP plug & wash up.
	1152	6.5	161			100		pump DNB.
	1212	6.5	161			300		130 bbls in Litt cmf
	1216	2.0	161			370		151 bbls in 510 rate
	1220	2.0	161			3000		Land plug.
	1221	0	161			3000		Release flag - held.
	1230		161					job over.
								Thanks for calling HES
								Liberal KS.
								TYC Brian & crew

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Wichita, Kansas

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MAY 07 2001

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