

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: 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: _____ **SEP 22,**

Well Name: _____

Comp. Date _____ Old Total Depth **CONFIDENTIAL**

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

5-29-97 6-7-97 7-16-97
Spud Date Date Reached TD Completion Date

API NO. 15- 175-21630 00-00

County SEWARD

1320 1980 Feet from 10X (circle one) Line of Section
1320 1980 Feet from X10 (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, 10 or SW (circle one)

Lease Name UNDERWOOD "A" Well # 5

Field Name ADAMSON

Producing Formation MORROW/CHESTER

Elevation: Ground 2917.2 KB _____

Total Depth 6680 PBTB 6229

Amount of Surface Pipe Set and Cemented at 1640 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 ALT 1 OK 6-12-98
(Data must be collected from the Reserve Pit)

Chloride content 1000 ppm Fluid volume 700 bbls

De-watering method used DRY, BACKELL & RESTORE LOCATION

Location of fluid disposal if hauled offsite: **RELEASED** **9-24-97**

Operator Name _____

Lease Name MAY 06 2000 License No. _____

Quarter 1 Sec. 23 Twp. 34 S. Rng. 34 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 9-22-97

Subscribed and sworn to before me this 22nd day of September 19 97.

Notary Public Freda L. Winz

Date Commission Expires _____

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

K.C.C. OFFICE USE ONLY		
F <input checked="" type="checkbox"/>	Letter of Confidentiality Attached	
C <input checked="" type="checkbox"/>	Wireline Log Received	
C <input type="checkbox"/>	Geologist Report Received	
Distribution		
<input checked="" type="checkbox"/> KCC	<input type="checkbox"/> SWD/Rep	<input type="checkbox"/> NGPA
<input type="checkbox"/> KGS	<input type="checkbox"/> Plug	<input type="checkbox"/> Other (Specify)

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name UNDERWOOD "A" Well # 5

Sec. 23 Twp. 34 Rge. 34 East County SEWARD
 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, ML, CNL-LDT, SONIC, MSFL.

Log Formation (Top), Depth and Datums Sample

Name	Top	Datum
CHASE	2634	
COUNCIL GROVE	3002	
HEEBNER	4282	
TORONTO	4311	
LANSING	4432	
MARMATON	5108	
CHEROKEE	5419	
MORROW	5798	
CHESTER	6118	
STE. GENEVIEVE	6465	
ST. LOUIS	6488	

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"	23.0	1640	P+ MIDCON 2/ P+	660/160	3%CC, 1/4#SK FLC/ 2%CC, 1/4#SK FLC.
PRODUCTION	7-7/8"	5-1/2"	15.5	6274	VERSASET	210	.6% HALAD 322, 5% KCL, .9% VERSASET, 1/4#SK FLC

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose: <input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			

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	6110-6112, 6119-6140		ACID: 1500 GAL 7 1/2% FeHCL.
			FRAC: 35000 GAL XLINK GEL & 124000# 20/40	6110-6140 (OA)
			SD.	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8	6092		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj. 8-7-97	Producing Method			
	<input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			

Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity
	2		537		1			

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 6110-6140 (OA)

REGION: North America NWA/COUNTRY: MID CONTINENT BDA / STATE: KS. COUNTY: SEWARD
 MBU ID / EMP #: L10103 F4550 EMPLOYEE NAME: T. DAVIS PSL DEPARTMENT: Cement
 LOCATION: Liberal KS COMPANY: ANADARKO Pet CUSTOMER REP / PHONE:
 TICKET AMOUNT: WELL TYPE: 02 API / UWI #:
 WELL LOCATION: LAND DEPARTMENT: Cement JOB PURPOSE CODE: 10 ORIGINAL
 LEASE / WELL #: UNDERWOOD A-5 SEC / TWP / RNG: 23-34S-34W **CONFIDENTIAL**

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
S. TATE E0568							
B. McINTYRE H 2308							
G. Humphries H 9692							

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
50866	7649	64					
50502	75505	"					
52823	75374	14					

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

DATE	TIME	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
5-29-97	2030	5-29-97	2300	5-30-97	0210
				5-30-97	0310

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float GEAR INSERT 8 5/8	1	Howco
Float Shoe Fill Tube	1	"
Guide Shoe REG 8 5/8	1	"
Centralizers REG "	4	"
Bottom Plug		
Top Plug SW "	1	"
Head PC	1	"
Packer BASKET "	1	"
Other WELDA	1	"

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	New	23#	8 5/8	KB	1654	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

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	
Perpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
5-29-97	1	5-30-97	1	CMT 8 5/8 S.P.
5-30-97	372			
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER

ORDERED _____ Avail. _____ Used _____

AVERAGE RATES IN BPM

TREATED _____ Disp. _____ Overall _____

CEMENT LEFT IN PIPE

FEET 39 Reason Shoe Joint

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	RELEASED	YIELD	LBS/GAL
1	330	MIDCON 3	Bulk	3% cc, 1/4# FLO		3.22	11.1
2	100	C+	"	2% cc, 1/4# FLO	11/10 6 2000	1.32	14.8

FROM CONFIDENTIAL

Circulating _____ Displacement _____ Preflush: Gal - BBI _____ Type _____
 Breakdown _____ Maximum _____ Load & Bkdn: Gal - BBI _____ Pad: BBI - Gal _____
 Average _____ Frac Gradient _____ Treatment Gal - BBI _____ Disp: BBI - Gal 103.3
 Shut In: Instant _____ 5 Min _____ 15 Min _____ Cement Slurr Gal - BBI 1892 LRD 23.5 TAIL
 Total Volume Gal - BBI _____

JOB LOG 4239-5

183944

5-30-97

REGION North America	NWA/COUNTRY MID CONTINENT	BDA / STATE KS	COUNTY SEWARD
MBU/D / EMP # L10103 F4550	EMPLOYEE NAME T. DAVIS	PSL DEPARTMENT Cement	
LOCATION Liberal KS	COMPANY ANADARKO PET	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE 02	API / UWI #	
WELL LOCATION L4003	DEPARTMENT Cement	JOB PURPOSE CODE 010	
LEASE / WELL # Underwood 4-5	SEC / TWP / RNG. 23-34S-34W		

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
S. TATE 50562			
D. MCINTYRE 42307			
C. HUMPHRIES 47692			

CONFIDENTIAL

CHART NO.	TIME	RATE (BPM)	VOLUME (GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	2030							Called out for job.
	2300							on Loc. R.8. SDDP
	030							out of hole w/0.2 rig up coils
	040							start 8" CSB. E.F.E.
								KSC
	0149							SEP 22 CSB on BOT. Hook up 8" P.C. & circ iron.
	0157							bric circ. w/ri
	0201							circ. to pit
	0204							Thru. circ. Hook Iron to P.T
	0209	6.0	189		✓	150		Pump 330sx Pt MC at 11.1 #1841
	0239	5.0	23.5		✓	120		Pump 100sx Pt at 14.8 #1841
	0243	0	23.5		✓	0		Thru. w/cm shut down drop plug
	0244	6.0	103.3		✓	100		Pump DISP.
	0301	2.0	103.3		✓	330		95 bbis in cmt to pit
	0301	2.0	103.3		✓	330		95 bbis in 510 rate.
	0305	2.0	103.3		✓	360 900		Land plug
	0306	0	103.3		✓	900 0		release flow - held.
								RELEASED
								MAY 06 2000
	0310		103.3		✓			Job over FROM CONFIDENTIAL
								Thanks For calling Halliburton.
								Tyce, sonny & crew
								8661 cmt to pit
								145x cmt to pit

RECEIVED
MAISAS CORP COMM
MAY 24 11:38

REGION North America	NWA/COUNTRY MID CONTINENT	BDA / STATE	COUNTY SEWARD
MBU IDV / EMP # L12101	EMPLOYEE NAME TIM TREADWELL	PSL DEPARTMENT CEMENT	
LOCATION LIBERAL KS	COMPANY AMERARK PETROLEUM	CUSTOMER REP / PHONE JIC STICK	
TICKET AMOUNT	WELL TYPE 01	API / UWI #	
WELL LOCATION LAND	DEPARTMENT CEMENT	JOB PURPOSE CODE 035	
LEASE / WELL # UNSERVED 11-5	SEC / TWP / RNG 25-21E-31W		

CONFIDENTIAL ORIGINAL

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS T. TREADWELL 0411	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS S. GRANT H4637	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS S. TAYLOR H4517		
----------------------------------------------------------------	-------------------------------------------------------------	--------------------------------------------------------------	--	--

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0300							CALLED OUT - - READY 0330
	0130							ON LOC - L.D. TV P. KUC
	0745							START CSG IN HOLE SEP 22
	1045							Hook up cmt HEAD CONFIDENTIAL
	1055							CIRCULATION TO PIT - SAFETY MEETING
	1105							Hook up cmt LINE - STILL CIRCULATING
	1110		3			80		Pump cmt 15.6# RH
	1113		0					SHUT OFF
	1115		3			80		Pump cmt 15.6# RH
	1118		0					SHUT OFF - MIX RED Super Flush
	1119							Hook up to CSG. - Pressure TEST
	1147	5.6	3			0		START SPACER H2O
	1148	5.6	10			0		START Super Flush
	1150	5.6	3			230		START H2O SPACER
	1151	5.6	30			0		START CMT. 14.5# / GAL
	1157		0			0		SHUT OFF WASHUP - DROP PLUG
	1201	6.4	146.8			0		START H2O DISPLACEMENT
	1224	2	2			0		SLOW RATE TOTAL BBL
	1225					0		PLUG LANDED -

RELEASED

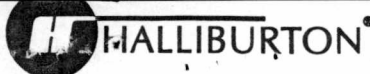
MAY 06 2000

FROM CONFIDENTIAL

RECEIVED
MANSAS CORP
INTL SEP 24 P 12:38



THANKS FOR CALLING
HALLIBURTON ENERGY SERVICES
LIBERAL KS
HAVE A GOOD DAY
MANSAS ON LOC



JOB SUMMARY 4239-1

TICKET # 235655 TICKET DATE 6-9-97

REG. North America NWA/COUNTRY MID CONTINENT BDA / STATE KS COUNTY SEWARD
MBU ID / EMP # L10101 24604 EMPLOYEE NAME TIM BROADFOOT PSL DEPARTMENT CEMENT
LOCATION LIBERAL KS COMPANY ANADARKO PETROLEUM CUSTOMER REP / PHONE JR STUCK ORIGINAL
TICKET AMOUNT WELL TYPE 02 API / UWI #
WELL LOCATION LAND DEPARTMENT CEMENT JOB PURPOSE CODE 035
LEASE / WELL # UNDERWOOD A-5 SEC / TWP / RNG 23-34S-34W

Table with 4 columns: HES EMP NAME/EMP#/(EXPOSURE HOURS) | HRS. Rows include T. BROADFOOT 24604, S. GRANT H4639, S. TELFORD H4817.

Table with 8 columns: HES UNIT NUMBERS | R/T MILES. Rows include 420045 | 14, 52947-75496 | 14, 58737-75817 | 70.

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

Table with 5 columns: DATE | CALLED OUT | ON LOCATION | JOB STARTED | JOB COMPLETED. Values: 6-8-97 2300, 6-9-97 0130, 6-9-97 1145, 6-9-97 1230.

TOOLS AND ACCESSORIES table with columns: TYPE AND SIZE, QTY, MAKE. Includes Float Collar INSERT, Float Shoe FILLUP, Guide Shoe REGULAR, Centralizers 10, Bottom Plug W, Top Plug SW, Head C, Packer, Other O.

WELL DATA table with columns: NEW/USED, WEIGHT, SIZE, FROM, TO, MAX ALLOW. Includes Casing N 15.5 5 1/2 GL. 6274 +12.5, Liner CSG U 24 8 5/8 GL. 1653, Open Hole 7 7/8 1653 6680 SHOTS/FT.

MATERIALS table with columns: Treat Fluid, Disp. Fluid, Prop. Type, Acid Type, Surfactant, NE Agent, Fluid Loss, Gelling Agent, Fric. Red, Breaker, Blocking Agent, Perfpac Balls, Other.

HOURS ON LOCATION and OPERATING HOURS tables. Includes DATE, HOURS, and TOTAL columns. Notes: RELEASED, MAY 06 2000, CONFIDENTIAL.

HYDRAULIC HORSEPOWER and AVERAGE RATES IN BPM tables. Includes ORDERED, TREATED, FEET, Avail., Disp., CEMENT LEFT IN PIPE, Reason, SHOE JT.

CEMENT DATA table with columns: STAGE, SACKS, CEMENT, BULK/SKS, ADDITIVES, YIELD, LBS/GAL. Includes 1 25 PREM B, 2 120 PREM B with additives like 10% VERSASET-5% KCL.

Form with fields: Circulating, Breakdown, Average, Shut In: Instant, Displacement, Maximum, Frac Gradient, 5 Min, 15 Min, Preflush, Load & Bkdn, Treatment, Cement Slurr, Total Volume, Ga - BBI 8-10-8, Ga - BBI, Ga - BBI, Ga - BBI 6-30, Typ #20 - Super Flush, Pad: BBI - Gal, Disp: BBI - Gal 148.8.

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