

FORM MUST BE TYPED

ORIGINAL CONFIDENTIAL

SIDE ONE

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

API NO. 15- 175-21713-00-00

County SEWARD

E/2 - E/2 - W/2 - SE Sec. 15 Twp. 35 Rge. 33 X W

Operator: License # 4549

760 Feet from S (circle one) Line of Section

Name: ANADARKO PETROLEUM CORPORATION

1570 Feet from E (circle one) Line of Section

Address P. O. BOX 351

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

City/State/Zip LIBERAL, KANSAS 67905-0351

Lease Name SCHNEIDER-ALLEY "A" Well # 1

Purchaser: ANADARKO ENERGY SERVICES

Field Name LIBERAL SE

Operator Contact Person: DAVID W. KAPPLE

Producing Formation MORROW

Phone (316) 624-6253

Elevation: Ground 2810.5 KB

Contractor: Name: DUKE DRILLING **RELEASED**

Total Depth 6600 PBDT 6234

License: 5929 **MAR 28 2001**

Amount of Surface Pipe Set and Cemented at 1534 Feet

Wellsite Geologist: NA

Multiple Stage Cementing Collar Used? Yes X No

Designate Type of Completion **FROM CONFIDENTIAL**

If yes, show depth set _____ Feet

X New Well _____ Re-Entry _____ Workover

If Alternate II completion, cement circulated from _____

_____ Oil _____ SWD _____ SIGW _____ Temp. Abd.

feet depth to _____ w/ _____ sx cmt.

X Gas _____ ENHR _____ SIGW

Drilling Fluid Management Plan **ACT 1 9-14-98**
(Data must be collected from the Reserve Pit) **DPW**

_____ Dry _____ Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Chloride content 1000 ppm Fluid volume 700 bbls

Operator: _____

Dewatering method used DRY, BACKFILL & RESTORE LOCATION

Well Name: _____

Location of fluid disposal if hauled offsite: **KCC**

Comp. Date _____ Old Total Depth _____

Operator Name **JUL 30 1998**

_____ Deepening _____ Re-perf. _____ Conv. to Inj/SWD

Lease Name _____ License No. **CONFIDENTIAL**

_____ Plug Back _____ PBDT

_____ Commingled _____ Docket No. _____

_____ Dual Completion _____ Docket No. _____

_____ Other (SWD or Inj?) _____ Docket No. _____

_____ Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

4-13-98 4-21-98 5-14-98

County _____ Docket No. _____

Spud Date Date Reached TD Completion Date

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 DRILLING TECHNICAL ASSISTANT Date 7-30-98

Subscribed and sworn to before me this 30th day of July 19 98.

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	<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 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

SIDE TWO

ORIGINAL

Lease Name SCHNEIDER-ALLEY "A"

Well # 1

Sec. 15 Twp. 35 Rge. 33

East
 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 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, MSFL, ML, CNL-LDT

Log Formation (Top), Depth and Datums Sample

Name	Top	Datum
CHASE	2618	
COUNCIL GROVE	2976	
HEEBNER	4363	
TORONTO	4402	
LANSING	4534	
MARMATON	5190	
CHEROKEE	5560	
MORROW	5883	
CHESTER	6192	

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	1534	P+ MIDCON 2/P+	345/100	3%CC, F/ 2%CC, F.
PRODUCTION	7-7/8"	5-1/2"	15.5	6356	P+ MIDCON 2/50/50 POZ.	115/80	2CC, F/0.75% H322, 10% KCL, F.

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose: ____ Perforate ____ Protect Casing ____ Plug Back TD ____ 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
	Set At	Packer At			
2	6246-6254, CIBP @ 6234		ACID: 1000 GAL 15% FE HCL.		6246-6254
2	6155-6176.		ACID: 1050 GAL 7 1/2% FE HCL.		6155-6176
			FRAC: 29650 GAL FOAMED GEL & 38900# 16/30		
			SD.		
TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj. 7-2-98 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		1000			

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 6155-6176

JOB SUMMARY

ORDER NO 70006

382782

4-14-98

REGION North America	NWA/COUNTRY Mid CONTINENT	BDA/STATE KS	COUNTY SEWARD
MBU ID / EMP # LT104 62573	EMPLOYEE NAME JOHN WOODROW	P&L DEPARTMENT CEMENT	
LOCATION LIBERAL KS	COMPANY ANADARKO PETROLEUM	CUSTOMER REP - PHONE STEVE RIDENOUR	
TICKET AMOUNT	WELL TYPE 02	API - UWI #	
WELL LOCATION S. LIBERAL	DEPARTMENT CEMENT	JOB PURPOSE CODE 010 - 8 3/4 SURFACE	
LEASE / WELL # SCHNEIDER - ALLEN A-1	SEC / IWP / RNG 15-352-336		

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. GRANI 114638			
R. ERKUS 15602			
S. ILLIARD 114817			

ORIGINAL

HES UNIT NUMBERS	RT MILES	HES UNIT NUMBERS	RT MILES	HES UNIT NUMBERS	RT MILES	HES UNIT NUMBERS	RT MILES
53559/76900	6						
52823/75237	37						
52274/661	37						

CONFIDENTIAL

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 <i>INVERT 8 3/4</i>	1	H
Float Shoe		
Guide Shoe <i>PC</i>		0
Centralizers <i>S-4</i>		
Bottom Plug		W
Top Plug <i>S-W</i>		
Head <i>pic</i>		C
Packer		
Other <i>PASEN</i>		0

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		

DATE	CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
4-14-98	0815	7:14-98	7:14-98	7:14-98
		1045	1400	1445

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	23	8 3/4	66	1532	
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	
				KCC JUL 30 1998 CONFIDENTIAL
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER

ORDERED _____ Avail. _____ Used _____

TREATED _____ AVERAGE RATES IN BPM _____ Overall _____

FEET 41 CEMENT LEFT IN PIPE _____ Reason *SPARE JOINT*

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	345	<i>Prudent</i>	<i>B</i>	<i>3.7 CC 1/4" SUELLS</i>	3.22	11.1
	100	<i>PT</i>	<i>B</i>	<i>2.8 CC 1/4" PROCEL</i>	1.32	14.8

Circulating Breakdown	Displacement Maximum	5 Min	15 Min	Preflush: Gal - BBI	Type
Average	Frac Gradient			Load & Bkdn: Gal - BBI	Pad: BBI - Gal
Shut In: Instant				Treatment: Gal - BBI	Disp: BBI - Gal
				Cement Slurr: Gal - BBI	
				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 Ridenour*

JOB LOG

REGION North America	NWA/COUNTRY Mid CONTINENT	BDA/STATE KS	COUNTY SEWARD
UNIT/EMP # L1104 62573	EMPLOYEE NAME JOHN WOODROFF	PSL DEPARTMENT CEMENT	
LOCATION LIBERAL KS	COMPANY ANNAPOLIS PETROLEUM	CUSTOMER REP / PHONE STEVE RIDENOUR	
TICKET AMOUNT	WELL TYPE OJ	AP/TOWN #	
WELL LOCATION S LIBERAL	DEPARTMENT CEMENT	JOB PURPOSE CODE 010-878 SURFACE	
LEASE / WELL # SCHNEIDER - ALLEX A-1	SEC / TWP / RING 15-35S-33-N		

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 (SPM)	VOLUME (GAL)	PUMPS		PRESS. (PSI)		JOB DESCRIPTION / REMARKS
				T	C	T _{top}	C _{top}	
	1100							JOB READY
	0820							CONFIDENTIAL CALLED OUT FOR JOB
	1045							PUMP TRUCK ON LOCATION / HAVE PRE JOB SITE ASSESSMENT MEETING / SPOT PUMP TRUCK RIG UP / RIG HAS HOLD CUT ON BOTTOM CIRCULATING
	1100							TRIP OUT DRILL PIPE
	1215							START RUNNING 878 CSG + FRONT EQUIPMENT
	1330							CASING ON BOTTOM 1532'
	1340							HOOK UP 878 P/L + CIRCULATING IRON
	1345							START CIRCULATING WITH RIG PUMP
	1355							THROUGH CIRCULATING / HOOK UP TO PUMP TRUCK
								JOB PROCEDURE
	1400	7.5	797			1100		START MIXING 345 SEC LEAD CUT AT 111" YIELD
	1413		770			100		START MIXING 100 SEC TAG CUT AT 148" YIELD
	1420							THROUGH MIXING CEMENT / SHUT DOWN
	1432	6.0				1100		RELEASE PLUG / START DISPLACEMENT
								HAVE 65 DBL OUT / HAVE CRI RETURNS TO PIT
	1445		97			and 1100		PLUG DOWN / RELEASE FRONT FRONT HELD
								CIRCULATED 30 DBL / 52 STS TO
								CONFIDENTIAL
								KCC
								JUL 30 1998
								THANK YOU FOR CALLING HALLIBURTON!
								WOODROFF'S CREW

JOB SUMMARY

ORDER NO. 70005

TICKET #	382690	TICKET DATE	4-23-98		
REGION	North America	BDA / STATE	KS	COUNTY	Steward Senard
NWA/COUNTRY	USA	PSL DEPARTMENT	Zonal Isolation		
MBU ID / EMP #	L70103	CUSTOMER REP / PHONE	Steve		
LOCATION	Liberal, KS	API / UWI #	02100		
TICKET AMOUNT		JOB PURPOSE CODE	035		
WELL LOCATION	Land				
LEASE / WELL #	Schneider-191147 A-1				
	15-355-3342				

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. McIntyre H.2308							
G. Humphries H.9692							

ORIGINAL **CONFIDENTIAL**

HES UNIT NUMBERS	F/T MILES	HES UNIT NUMBERS	F/T MILES	HES UNIT NUMBERS	F/T MILES	HES UNIT NUMBERS	F/T MILES
420042	10						
54038-75374	10						
50866-75817	38						

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
4-22-98	23:00	4-23-98	01:00	4-23-98	08:00

TYPE AND SIZE	QTY	MAKE
Float Collar TRV	1	I
Float Shoe		
Guide Shoe Regular	1	W
Centralizers S-11	13	
Bottom Plug		
Top Plug S-11	1	
Head P.C.	1	
Packer S-11		
Other		

NEW/USED		WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	155#/ft	5 1/2	K.B	6356	
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	
				Cement
				5 1/2
				Long string
TOTAL		TOTAL		

ORDERED	HYDRAULIC HORSEPOWER Avail. _____ Used _____
TREATED	AVERAGE RATES IN BPM Disp. _____ Overall _____
FEET 37	CEMENT LEFT IN PIPE Reason Shoe Joint

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	115	MC PT	B	2% MCC, 1/4# Fluoride	200	11.5#/100
1	25	MC PT	B	2% MCC, 1/4# Fluoride	200	12.5#/100
1	80	50/50 Poz (H)	B	10% S.G.T., 75% Hydrol-327, 1/4# Fluoride	128	14.0#/100

Circulating _____	Displacement _____	Preflush: Gal-(BB) 28-1331	Type _____
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BBI _____	Pad: BBI - Gal _____
Average _____	Frac Gradient _____	Treatment Gal - BBI _____	Disp: (BB) Gal 1500
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr Gal - (BB) 89 mil Rem, 40.9% C, 15.2% F.	
		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 <i>P. J. Schuck</i>	

JOB LOG

ORDER NO. 70006

TICKET #	TICKET DATE
BDA / STATE	COUNTY
PSL DEPARTMENT	
CUSTOMER REP / PHONE	
API / UWI #	
DEPARTMENT	JOB PURPOSE CODE
SEC / TWP / RNG	

REGION North America	NWA/COUNTRY
MBU ID / EMP #	EMPLOYEE NAME
LOCATION	COMPANY
TICKET AMOUNT	WELL TYPE
WELL LOCATION	
LEASE / WELL #	

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

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
4-22	2300							Called out for job
4-23	0100							on loc. with L.O.D.P.
	0245							out of hole with rig up collect.
	0325							start 5 1/2 csg & F.E.
	0610							CSH ON BOB HOOKUP 5 1/2 P.C. & Circ. Iron.
	0616							brk circ. with pump
	0618							circ. to pit.
	0655							Rig KAT & Mouse Hole.
	0706							Thru circ. hook iron to P.T.
	0708	6.0	8		✓	280		pump H ₂ O spacer KGG
	0710	6.0	10		✓	280		pump sup flush. JUL 30 1998
	0712	6.0	8		✓	300		pump H ₂ O spacer CONFIDENTIAL
	0714	6.0	41		✓	300		pump 115x 8+mc at 12.8 ^{1/2} gal
	0720	6.5	18		✓	200		pump 80x 50/50 p p02 at 14.4 ^{1/2} gal
	0724	0	85		✓	0		Shut down rig play. Wash up
	0728	7.5	150.3		✓	170		pump disp.
	0745	7.5	150.3		✓	200 200		12.6 bbls in lift cmt
	0748	2.5	150.3		✓			141 bbls in 510 rate.
	0752	7.5	150.3		✓	650 650		and play.
	0754	0	150.3		✓	300 300		Welpole float - held.
								Thank for calling HES.
								Type return screen