

FORM MUST BE TYPED

ORIGINAL

SIDE ONE

15-033-20955-0000
033-20950

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: KANSAS GAS SUPPLY

Operator Contact Person: DAVID W. KAPPLE

Phone (316) 624-6253

Contractor: Name: DUKE DRILLING CO., INC.

License: 5929

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. _____

4-25-98 5-5-98 5-18-98

Spud Date Date Reached TD Completion Date

API No. 15- _____

County COMANCHE

E/2 - W/2 - NW - NE Sec. 24 Twp. 31 Rge. 18 E W

660 Feet from N S (circle one) Line of Section

2080 Feet from E W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE SE, NW or SW (circle one)

Lease Name EMERICK "A" Well # 2

Field Name WILMORE

Producing Formation MISSISSIPPI

Elevation: Ground 2067.8 KB _____

Total Depth 5700 PBD 5153

Amount of Surface Pipe Set and Cemented at 525 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 AH.1. 8-4-98 U.C.

(Data must be collected from the Reserve Pit)

Chloride content 3300 ppm Fluid volume 700 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 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 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)

SIDE TWO

ORIGINAL

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name EMERICK "A" Well # 2

Sec. 24 Twp. 31 Rge. 18 East County COMANCHE
 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 (Attach Additional Sheets.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run (Submit Copy.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No List All E.Logs Run: CBL-CCL-GR, DIL, ML, CNL-LDT, BHC SONIC.	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">Name</td> <td style="width:20%;">Top</td> <td style="width:30%;">Name</td> <td style="width:20%;">Top</td> </tr> <tr> <td>CHASE</td> <td>2453</td> <td>VIOLA</td> <td>5520</td> </tr> <tr> <td>COUNCIL GROVE</td> <td>2830</td> <td>SIMPSON</td> <td>5635</td> </tr> <tr> <td>ADMIRE</td> <td>3316</td> <td></td> <td></td> </tr> <tr> <td>WABAUNSEE</td> <td>3461</td> <td></td> <td></td> </tr> <tr> <td>TOPEKA</td> <td>3707</td> <td></td> <td></td> </tr> <tr> <td>HEEBNER</td> <td>4182</td> <td></td> <td></td> </tr> <tr> <td>DOUGLAS</td> <td>4252</td> <td></td> <td></td> </tr> <tr> <td>LANSING</td> <td>4364</td> <td></td> <td></td> </tr> <tr> <td>B/KANSAS CITY</td> <td>4790</td> <td></td> <td></td> </tr> <tr> <td>MARMATON</td> <td>4844</td> <td></td> <td></td> </tr> <tr> <td>CHEROKEE</td> <td>4934</td> <td></td> <td></td> </tr> <tr> <td>MISSISSIPPI</td> <td>5000</td> <td></td> <td></td> </tr> <tr> <td>KINDERHOOK</td> <td>5447</td> <td></td> <td></td> </tr> <tr> <td>MISENER</td> <td>5476</td> <td></td> <td></td> </tr> </table>	Name	Top	Name	Top	CHASE	2453	VIOLA	5520	COUNCIL GROVE	2830	SIMPSON	5635	ADMIRE	3316			WABAUNSEE	3461			TOPEKA	3707			HEEBNER	4182			DOUGLAS	4252			LANSING	4364			B/KANSAS CITY	4790			MARMATON	4844			CHEROKEE	4934			MISSISSIPPI	5000			KINDERHOOK	5447			MISENER	5476		
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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	525	P+ MIDCON 2/ STD MIDCON 2.	95/100	3CC, F/ 2CC, F.
PRODUCTION	7-7/8"	5-1/2"	15.5	5204	50/50 POZ.	180	.75% HALAD 322, 10% SALT, F.

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing				
___ Plug Back TD				
___ 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
2	5002-5016		ACID: 2000 GALS FOAMED FE MCA.	5002-5016

TUBING RECORD	Size 2 3/8"	Set At 4980	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. 6-16-98		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 490 Mcf	Water Bbls.	Gas-Oil Ratio Gravity

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: 5002-5016



JOB SUMMARY

REGION North America	ORDER NO. 70006	TICKET # 394759	TICKET DATE 4-26-98
EMPLOYEE NAME G. L. 622	WV/COUNTRY USA	DDA / STATE KS	COUNTY Comanche
PRO ID / EMP # PRO 502	EMPLOYEE NAME G. L. 622	P&L DEPARTMENT S13M	
LOCATION PROT K	COMPANY HNAOBEKs Pt. Corp.	CUSTOMER REPT / PHONE KENNY 716 Quiser Toolpusher	
TICKET AMOUNT 8776.20	WELL TYPE 02	API / UWI # 15033209550000	
WELL LOCATION S.W. Wilmore KS	DEPARTMENT CMT	JOB PURPOSE CODE 010	
LEASE / WELL # EMERGE A - #2	SEC / TWP / RNG 24-315-19W		

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. Smith 61622 6			
C. Baker 69447 6			
B. Deale 11-2658 6			

ORIGINAL

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
38423	98						
52504	98						
52530	98						

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 IFAF-8 1/2	1	H.C.S
Float Shoe		
Guide Shoe 8 7/8	1	H.C.S
Centralizers		H.C.S
Bottom Plug		
Top Plug SW	1	H.C.S
Head		
Packer		
Other Plug Coll	1	H.C.S

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	City.	
Other		
Other		
Other		
Other		

CONCRETE DIVISION

4-25-98

DATE	TIME	CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
4-25-98	15:00	4-25-98	4-25-98	4-25-98	4-26-98
			19:30	22:20	00:50

WELL DATA

NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	23	8 5/8	GL	52301
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	
4-25-98	6	4-25-98	2	010
				8 7/8 SUCFAC
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER

ORDERED _____ Avail. _____ Used _____

AVERAGE RATES IN BPM

TREATED _____ Disp. _____ Overall _____

FEET 40.46 CEMENT LEFT IN PIPE Reason IFAF

STAGE	SACKS	CEMENT	BULKS/SKS	ADDITIVES	YIELD	LBS/GAL
1	95	MED GRI II	13	3 1/2 CC 1/4" Flocule	3.39	11.1
2	115	SCO	13	2 1/2 CC 1/4" Flocule	1.19	15.6

Circulating Breakdown	Displacement	Prelust:	Gal - BBI	Type
Average	Maximum	Load & Bkdn:	Gal - BBI	Pad: BBI - Gal
Shut In: Instant	Frac Gradient	Treatment	Gal - BBI	Disp: (BBI) Gal 37.73
	5 Min	Cement Slurr	Gal (BBI)	57.36 + 24.17
	15 Min	Total Volume	Gal (BBI)	81.53

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE _____

HALLIBURTON

15-033-20955-0000

JOB LOG

ORDER NO. 70005

TICKET #	394759	TICKET DATE	7.26.98
REGION	North America	COUNTRY	USA
STATE	Ks	COUNTY	Comanche
EMPLOYEE NAME	T. SARA	PSL DEPARTMENT	STEM
COMPANY	ANADARKO PET CORP.	CUSTOMER REF / PHONE	KENNY McQUINN Teledyn
WELL TYPE	02	API / UPLR	15033209550000
DEPARTMENT	CMT -	JOB PURPOSE CODE	010
SEC / TWP / RANG	24-31S-18W		

PROS#	61622	EMPLOYEE NAME	T. SARA
LOCATION	25555	COMPANY	ANADARKO PET CORP.
TICKET AMOUNT	8776.20	WELL TYPE	02
WELL LOCATION	S.W. Wilmore Ks	DEPARTMENT	CMT -
LEASE / WELL #	EMERACK	SEC / TWP / RANG	24-31S-18W

EMP NAME/EMP#/(EXPOSURE HOURS) /HRS	EMP NAME/EMP#/(EXPOSURE HOURS) /HRS	EMP NAME/EMP#/(EXPOSURE HOURS) /HRS	EMP NAME/EMP#/(EXPOSURE HOURS) /HRS
T. SARA 61622 6			
C. BOYLE 29947 6			
B. DEAR 142659 6			

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESS (GAL)		JOB DESCRIPTION / REMARKS
				T	C	T ₅₀	C ₅₀	
1	15:00							Called out
	19:30							On loc with's. Float Equip. Big Still Cutting Hole 100' left to cut
								13 ST'S 85/8 23' H ₁ = 523.07 GIVE SLOE: T _{PH} = 40.46 S ₁₀₀ ST 1' CENTRALIZERS ON ST'S 1-3-16 CMT BASKET ON ST 4 10
	22:20							START CSS
	24:20							Drop Ball
	00:05							CSS ON Bottom
	00:16							Hook up to CSS
	01:25	6						120 START MIXING. PUMP LEAD 2 111 PPG
	00:36		57.36					150 START MIXING. PUMP 1 BBL 8 15.6 PPG
			8153					VENTILATION MIXING
	00:37							SHUT DOWN
	00:38							RELEASE Plug 8 7/8 Plug
	00:40	6						260 START WISP
			15					CMT to Surface
			4 26					250 Slow Rate
			2 28					300
	00:44	2	31.7					800 Run down
	00:49							750 Run up
								WASHUP
								RACKUP
								OFF LOC

ORIGINAL

25555 PROD CONT
CIRC to PET

THANKS TOO
CALL AGAIN COBBLE
Bobby

TICKET # 394763	TICKET DATE 5-6-98
BDA / STATE Ks	COUNTY COMANCHE
PSL DEPARTMENT SLIM	CUSTOMER REP / PHONE DOM EISENHOWER
API / UWI # 15033209550000	JOB PURPOSE CODE 035

REGION North America	NWA/COUNTRY USA
MEM ID / EMP # PRO502 61622	EMPLOYEE NAME TODD SEBA
LOCATION PRILL KS 25555	COMPANY ANADARKO Pet. Corp.
TICKET AMOUNT	WELL TYPE 02
WELL LOCATION S.W. WILMOKE KS	DEPARTMENT CMT
LEASE / WELL # EMERTCK A #2	SEC / TWP / RING 24-31S-18W

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. SEBA 61622 5 1/2	T. SEBA 61622 5 1/2		
C. BAKER C9447 5 1/2	C. BAKER C9447 5 1/2		
D. PETERSON J2993 5 1/2	D. PETERSON J2993 5 1/2		

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
38423	93						
52504	93						
4673/5621	93						

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 IFHF5 1/2	1	H.B.S.
Float Shoe		
Guide Shoe 5/2	1	H.B.S.
Centralizers 5/2		H.B.S.
Bottom Plug		
Top Plug SW 5/2	1	H.B.S.
Head		
Packer		
Other Plug out.	1	H.B.S.

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		

DATE TIME

DATE TIME	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
5-6-98 10:30		5-6-98 21:00	5-6-98 23:20	5-7-98 05:00

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	15.5	5.5	CL	5209.08	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole		495.92		5209.08	5700	SHOTS/FT.
Perforations						
Perforations						
Perforations						

HOURS ON LOCATION

DATE	HOURS
4-6-98	3
4-7-98	5 1/2
TOTAL	

OPERATING HOURS

DATE	HOURS
4-6-98	12
4-7-98	2
TOTAL	

DESCRIPTION OF JOB

5.5 L.S.
035

HYDRAULIC HORSEPOWER

ORDERED	Avail.	Used

AVERAGE RATES IN BPM

TREATED	Disp.	Overall

CEMENT LEFT IN PIPE

FEET	Reason
42.96	TFAP

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	180	50/50 B2	13	75% HALAD 322 10% SALT 1/4# FLOCCLE	1.28	14.4
	2.5	STD	10	R HOLE / M. HOLE	1.13	15.6

Circulating _____ Displacement _____ Preflush: Gal - BBI 08-10-8 Type H2O SF 10-14 H2O
 Breakdown _____ Maximum _____ Load & Bkdn: Gal - BBI Pad: BBI Gal
 Average _____ Frac Gradient _____ Treatment Gal - BBI Disp: BBI Gal 123.15
 Shut In: Instant _____ 5 Min _____ 15 Min _____ Cement Slurr Gal - BBI 41.03
 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
 DOM EISENHOWER

REGION North America	NWA/COUNTRY USA	BDA / STATE KS	COUNTY Comanche
MBU ID / EMP # PROSOL 61622	EMPLOYEE NAME TODD SOBIA	PSL DEPARTMENT STIM	
LOCATION Pratt KS 25550	COMPANY HNDPARK PET CORP	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE C2	API / UWI # 15033209550005	
WELL LOCATION S.W. Wilmore KS	DEPARTMENT CMT	JOB PURPOSE CODE 035	
LEASE / WELL # Emerick A #2	SEC / TWP / RNG 24-31S-18W		

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. SERBI / 61622 3	T. SOBIA / 61622 3		
C. BAKER / 69447 3	C. BAKER / 69447 3		
D. PETERSON / 52953 3	D. PETERSON / 52953 3		

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS ST C	PRESS. (psl)		JOB DESCRIPTION / REMARKS
					Tbg	Csg	
	14:30						Called out N S.S 15.5"/ft
	21:00						On loc w/ truck's float equip. 127 ST's total CHECK H2O OK Run 123 ST's SAFETY MITG Gauge show TEMP on 1st = 92.96' CENT. on ST's 1, 3, 4, 8, 9, 11, 19, 17, 20 TD 5700' T.P. 5200.00'
	11:20						START CSS
	01:55						Drop Ball
	02:00						CSS on Bottom
	02:05						ORIGINAL
	02:09	6				500 Hook up to CSS Break circ wiring	
	04:05	6				230 START PZI Flus/acs H2O spacer S. Flush H2O spacer	
	04:15	2	3.15				Mix come to Plug K. Hole
	04:15	2	2.10				M. Hole
	04:24	6					START MIXING; Pump out 180 ST's
	04:31		11.00				FINISHED MIXING
			10				SHUT DOWN Clean Pump Lanes Release Plug
	04:34	1					START DISP
		8	2			120	
		6	96			200	
		4	114				
	04:55	2	124			750	LOW DOWN Plug
	04:57					3000	3200
	0						Release
	04:57						7000 Level Down
							Washback; Kick OFF Log