

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: TEXACO TRADING & TRANSPORTATION, INC.

Operator Contact Person: DAVID W. KAPPLE

Phone (316) 624-6253

Contractor: Name: DUKE DRILLING, 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 PBTB

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

4-10-98 4-22-98 5-19-98

Spud Date Date Reached TD Completion Date

API NO. 15- 033-20957 - 0000

County COMANCHE

C - NE - NW - SE Sec. 24 Twp. 31 Rge. 18 X E

2310 Feet from (S)N (circle one) Line of Section

1650 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 "C" Well # 3

Field Name WILMORE

Producing Formation MISSISSIPPI

Elevation: Ground 2124.5 KB _____

Total Depth 5750 PBTB 5202

Amount of Surface Pipe Set and Cemented at 500 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 Att. 1, 8-17-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 16000 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. _____

RECEIVED
OCT 07 1998
KANSAS CORPORATION COMMISSION

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 08/06/98

Subscribed and sworn to before me this 10th day of August
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 Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received

Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

SIDE TWO

ORIGINAL

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name EMERICK "C" Well # 3

Sec. 24 Twp. 31 Rge. 18 East West
 County COMANCHE

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: CCL-CBL-GR, DIL, ML, CNL-LDT, BHC SONIC.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/> Log</td> <td>Formation (Top), Depth and Datums</td> <td><input type="checkbox"/> Sample</td> </tr> <tr> <td>Name</td> <td>Top</td> <td>Name</td> </tr> <tr> <td>CHASE</td> <td>2504</td> <td>KINDERHOOK</td> </tr> <tr> <td>COUNCIL GROVE</td> <td>2887</td> <td>MISENER</td> </tr> <tr> <td>ADMIRE</td> <td>3380</td> <td>VIOLA</td> </tr> <tr> <td>WABAUNSEE</td> <td>3526</td> <td>SIMPSON</td> </tr> <tr> <td>TOPEKA</td> <td>3779</td> <td></td> </tr> <tr> <td>HEEBNER</td> <td>4249</td> <td></td> </tr> <tr> <td>DOUGLAS</td> <td>4318</td> <td></td> </tr> <tr> <td>LANSING</td> <td>4436</td> <td></td> </tr> <tr> <td>B/KANSAS CITY</td> <td>4859</td> <td></td> </tr> <tr> <td>CHEROKEE</td> <td>5008</td> <td></td> </tr> <tr> <td>MISSISSIPPI</td> <td>5062</td> <td></td> </tr> </table>	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample	Name	Top	Name	CHASE	2504	KINDERHOOK	COUNCIL GROVE	2887	MISENER	ADMIRE	3380	VIOLA	WABAUNSEE	3526	SIMPSON	TOPEKA	3779		HEEBNER	4249		DOUGLAS	4318		LANSING	4436		B/KANSAS CITY	4859		CHEROKEE	5008		MISSISSIPPI	5062	
<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample																																						
Name	Top	Name																																						
CHASE	2504	KINDERHOOK																																						
COUNCIL GROVE	2887	MISENER																																						
ADMIRE	3380	VIOLA																																						
WABAUNSEE	3526	SIMPSON																																						
TOPEKA	3779																																							
HEEBNER	4249																																							
DOUGLAS	4318																																							
LANSING	4436																																							
B/KANSAS CITY	4859																																							
CHEROKEE	5008																																							
MISSISSIPPI	5062																																							

CASING RECORD							
Report all strings set-conductor, surface, intermediate, production, etc.							
<input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
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	504	STD MIDCON 2/ STD MIDCON 2	95/115	3%CC, F/ 2%CC, F.
PRODUCTION	7-7/8"	5-1/2"	15.5	5261	VERSASET	100	.6% H322, .5% KCL, .9% VERSASET, F.

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	5087-5097	ACID: 1000 GAL 15% FE HCL.	5087-97
2	5066-71, 5074-84	ACID: 1500 GAL 15% FE HCL.	5066-84 (OA)

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8"	5131		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj. <u>5-28-98</u>	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
---	--

Estimated Production Per 24 Hours	Oil 5 Bbls.	Gas 32 Mcf	Water 11 Bbls.	Gas-Oil Ratio 6400	Gravity 36
-----------------------------------	-------------	------------	----------------	--------------------	------------

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 5066-5097 (OA)

JOB SUMMARY

ORDER NO. 70006

TICKET # **308300** TICKET DATE **4-10-98**

REGION North America	NW/COUNTRY USA	BDA / STATE Ks	COUNTY COMANCHE
MBU ID / EMP # 140502 61622	EMPLOYEE NAME LODDA S. GA	PSL DEPARTMENT STEM	
LOCATION PLATE K3 25555	COMPANY ANADARKO-RET. CO. INC.	CUSTOMER REP / PHONE	
TICKET AMOUNT 7,392.92	WELL TYPE 01	API / UWI # 15033209570000	
WELL LOCATION S WILMORE K3	DEPARTMENT CMT	JOB PURPOSE CODE 010	
LEASE / WELL # Emrick C #3	SEC / TWP / RNG 24-315 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. S. GIBSON 61622	T. S. GIBSON 61622		
C. PARKER 69447	C. PARKER 69447		
T. S. GIBSON 145236	T. S. GIBSON 145236		
4-10-98	4-11-98		

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
32923	43						
52504	93						
52530	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 IFAP 978	1	H.C.S.
Float Shoe		
Guide Shoe 8 1/2	1	H.C.S.
Centralizers		
Bottom Plug		
Top Plug	1	H.C.S.
Head 8 1/2 Plug Cont.	1	H.C.S.
Packer		
Other HAL. WELD #1	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	
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
	4-10-98	4-10-98	4-11-98	4-11-98
TIME	20:00	23:30	03:35	07:00

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	23	8 5/2	KB	210	
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	
4-10-98	72	4-10-98	-	010 STB SURFACE
4-11-98	3	4-11-98	7 1/2	
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER

ORDERED _____ Avail. _____ Used _____

AVERAGE RATES IN BPM

TREATED _____ Disp. _____ Overall _____

CEMENT LEFT IN PIPE

FEET **42.03** Reason **IFPF**

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	95	MOCNITE	13	3% C.C. 7/4" Flexite	3.37	11.1
2	115	STD	13	2% C.C. 7/4" Flexite	1.13	15.6

Circulating _____	Displacement _____	Preflush: _____ Gal - BBI _____	Type _____
Breakdown _____	Maximum _____	Load & Bkdn: _____ Gal - BBI _____	Pad: BBI - Gal _____
Average _____	Frac Gradient _____	Treatment _____ Gal - BBI _____	Disp: BBI - Gal 3.1
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr _____ Gal - BBI 57.36 + 24.17	
		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 _____

REGION North America	NW/COUNTRY USA	BDA / STATE KS	COUNTY COMBINE
MPID / EMP # K25522 61622	EMPLOYEE NAME Todd A. Seitz	PSL DEPARTMENT STUM	CUSTOMER REP / PHONE
LOCATION KRATT KS 25555	COMPANY ANADARKO PET. CORP.	API / UWI # 15033209570000	JOB PURPOSE CODE 010
TICKET AMOUNT 1,392.92	WELL TYPE 012	DEPARTMENT CMT	SEC / TWP / RNG 24-31S-18W
WELL LOCATION J. Wilmork K3	LEASE / WELL # EONWRTCK C #3		

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. Seitz 61622 1/2	T. Seitz 61622 1/2		
C. Baker C9447 1/2	C. Baker C9447 1/2		
T.J. C. Appal H5236 1/2	T.J. C. Appal H5236 1/2		

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
1	21:00 23:30							<p>Call out on loc w/TKK KTS stuck Dalg 350 gpm 1.0 Scot- SAFETY MITG 12 ST'S 8 5/8 23 1/2 FT + LHMOKS ST = S17' - CMT. ST'S 1-3-10 CMT Basket on ST #10 SHOL. ST 42.08 w/IFAF</p>
	03:35 06:00 06:10							<p>START CSJ Drop PNL CSJ on Bottom</p>
	06:15 06:17							<p>Hook up to CSJ BREAK CIRC w/PRES</p>
	06:37	6				225		<p>START MIXING: Pump LEAD CMT > 11.1 MPG</p>
	06:40		57.34 24.16					<p>START MIXING: Pump TAIL CMT > 15.6 MPG</p>
	06:51		31.50			225		<p>SALT DOWN</p>
	06:54							<p>RELEASE PLY 27' = Top PLY</p>
	06:56	6				250		<p>START DISJ w/FRESH 1130</p>
	07:00 07:03	2	25 31			950		<p>Slow Rate Plus Down (Good Circ thru Tail) Hc Tel</p>
	07:04							<p>RELEASE WASH U. Kick PAPER WORK</p>
								<p>OFF LOC THANKS TODD CALL AGAIN T.J. CEBRICK</p>

RECEIVED
 STATE OPERATIONAL PERMITS DIVISION
 APR 07 1998

CIRC 25 SKS APPROX II
 to Pit



JOB SUMMARY

ORDER NO. 70006

TICKET # **394756** TICKET DATE **4-23-98**

REGION North America	NWA/COUNTRY USA	BDA / STATE Ks	COUNTY COMANCHE
MBU ID / EMP # PRO502 G1622	EMPLOYEE NAME LODO A SEBA	PSL DEPARTMENT STIM	
LOCATION PRATT KJ 25555	COMPANY HNADIAK KO PET. CORP.	CUSTOMER REP / PHONE DAN EISENHAUCK	
TICKET AMOUNT 9397.77	WELL TYPE 02	API / UWI # 1503320957000	
WELL LOCATION S.W. WILMOVE KJ	DEPARTMENT CMT	JOB PURPOSE CODE 035	
LEASE / WELL # EMERICK "C" #3	SEC / TWP / RNG 24-31S 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
L. SEBA G1622 11 1/2			
C. NIXON H1660 11 1/2			
B. JOHNSON G9726 1 1/4			

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	93						
53387	93						
52530	93						

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
	4-23-98	4-23-98	4-23-98	4-23-98
TIME	01:30		12:50	16:54

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar IFAF50	1	H.E.S.
Float Shoe		
Guide Shoe 5/8	1	H.E.S.
Centralizers 5/8	7	H.E.S.
Bottom Plug		
Top Plug SWS2	1	H.E.S.
Head		
Packer		
Other Plug Cont.	1	H.E.S.

WELL DATA

NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing N	15.5	5.5	KJ	S242	
Liner					
Liner					
Tbg/D.P.					
Tbg/D.P.					
Open Hole 502'			S242	5750	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	
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
4-23-98		4-23-98		035
				5/8 L.S.
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER

ORDERED	Avail.	Used
TREATED	AVERAGE RATES IN BPM	
	Disp.	Overall
FEET 42.76	CEMENT LEFT IN PIPE	
	Reason	IFAF

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	100	STD	13	.6% HALAD-322 .5% KCL .9% UGUSA 501	1.40	14.50
				1/4 # Floccle		
	25	STD	13	R. Hole - M. Hole		

Circulating _____	Displacement _____	Preflush: Gal - BB1 8-10-8	Type 1120 SFLH 1120
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BB1	Pad: BB1 Gal
Average _____	Frac Gradient _____	Treatment Gal - BB1	Disp: BB1 Gal 124
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr Gal - BB1 29.93	
		Total Volume Gal - BB1	

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

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE _____



JOB LOG

ORDER NO. 7006

TICKET # 394756

TICKET DATE 4-23-93

REGION North America	NW/COUNTRY USA	BDA / STATE KS	COUNTY Comanche
MBU ID / EMP # PROS02 61622	EMPLOYEE NAME DODD, S030	PSL DEPARTMENT STIM	
LOCATION Pratt KS 25555	COMPANY Hilltop Oil Coop	CUSTOMER REP / PHONE DAN J. STEPHANSON	
TICKET AMOUNT 9397.77	WELL TYPE OZ	API / UWI # 1503320957	
WELL LOCATION S.W. Wellmore KS	DEPARTMENT CAIT	JOB PURPOSE CODE 035	
LEASE / WELL # Emeryck C #3	SEC / TWP / RNG 24-31S-13W		

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
L. SCIBO 61622	11 1/2						
C. NIXON 41660	11 1/2						
B. JOHNSON 69726	11 1/2						

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	01:30							Called out
	06:00							ON LO W/TKS: Float Equip. T.D. 5750' SAFETY MTG T.P. 5242 126 Feat. JT's Csg. Run ON Bottom Csg. Run 124 JT's Csg.
								GOOD S.I.L.C. & T.P.A.F. ON 1 JT - 42.70 CENT. ON JT'S 1-3-4-5-8-11-14
	12:50							START Csg
	15:20							DRAG BRCL
	15:25							Csg ON Bottom
	15:30							Hook up to Csg
	15:39							Break Circ W/TKS (6 BPM 500 psi)
	16:13	6				350		START PUMP PREFLUSHES @ 6BLS H2O SPUR 10 BLS S. FLUSH 8 BLS H2O SPUR
		6				400		STINK MIXING: PUMP RUIT THRU JOB
	16:30		24.93					SHUT DOWN
		4						RELIEF Plug SW T Plug CLEAR PUMP: LINES
	16:34	8				300		START D/S/D Shw. Rptd
	16:50	4	122			1000		Plug down
	16:53	2	124			2500		PST - Held
	16:54							Release Held
								WASH up THANKS TOPO
								Rack paper book CALL EQ/MTM CHAD
								OFF LOC ROAD

DATE: 4/23/93
 TIME: 16:00
 BY: [Signature]
 CHECKED: [Signature]