

MUST BE TYPED

# ORIGINAL

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

## CONFIDENTIAL

City/State/Zip LIBERAL, KANSAS 67905-0351

Purchaser: TEXACO TRADING & TRANSPORTATION, INC.

Operator Contact Person: DAVID W. KAPPLER

Phone (316) 624-6253

Contractor: Name: CHEYENNE DRILLING

License: 5382

Wellsite Geologist: \_\_\_\_\_

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  SIOW  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  PBDT

Commingled  Docket No. \_\_\_\_\_

Dual Completion  Docket No. \_\_\_\_\_

Other (SWD or Inj?)  Docket No. \_\_\_\_\_

3-28-98 4-7-98 4-22-98

Spud Date Date Reached TD Completion Date

API NO. 15- 175-21719 0000

County SEWARD

W/2 - W/2 - SE - NW Sec. 35 Twp. 34 Rge. 34  W

1980 Feet from N (circle one) Line of Section

1450 Feet from X (circle one) Line of Section

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

Lease Name HATCHER "B" Well # 4

Field Name ARCHER

Producing Formation ST. LOUIS

Elevation: Ground 2894 KB \_\_\_\_\_

Total Depth 6750 PBDT 6620

Amount of Surface Pipe Set and Cemented at 1620 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 AK 1-30-98  
(Data must be collected from the Reserve Pit)

ALT I WITH 10-18-07

Chloride content 1000 ppm Fluid volume 700 bbls

Dewatering method used DRY, BACKFILL & RESTORE LOCATION.

Location of fluid disposal if hauled offsite: \_\_\_\_\_

### KCC

Operator Name \_\_\_\_\_

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

\_\_\_\_\_ Quarter Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

County \_\_\_\_\_ Docket No. \_\_\_\_\_

### MAY 27

## CONFIDENTIAL

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 5-27-98

Subscribed and sworn to before me this 27th day of May 1998.

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  Plug  Other  
(Specify)

### MAY 27 2000

Form ACO-1 (7-91)

## FROM CONFIDENTIAL

SIDE TWO

ORIGINAL

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name HATCHER "B" Well #             
 Sec. 35 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: CBL-CCL-GR, DIL, ML, CNL-LDT, MSFL, SONIC.

Log Formation (Top), Depth and Datum  Sample

Name	Top	Datum
CHASE	2610	
COUNCIL GROVE	2984	
HEEBNER	4272	
TORONTO	4304	
LANSING	4422	
MARMATON	5132	
CHEROKEE	5438	
MORROW	5813	
CHESTER	6120	
STE. GENEVIEVE	6446	
ST. LOUIS	6466	
SPERGEN	6634	

**CONFIDENTIAL**  
 UNTIL 5-27-2000

CASING RECORD							
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	1620	P+ MIDCON 2/P+	320/100	3%CC, 1/4#SKFLC/2%CC, 1/4#SKFLC.
PRODUCTION	7-7/8"	5-1/2"	15.5	6705	50/50 POZ/50/50 POZ.	25/155	.75% HALAD 322, 10% SALT, 1/4#SK FLC/SAME.

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 Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	6515-6557	ACID: 3150 GAL 15% MCA.	6515-6557

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 7/8"	6553		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj. 4-23-98 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	57	47	149	825	40.3

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 6515-6557

FROM CONFIDENTIAL

REGION <b>North America</b>	NWA/COUNTRY	BDA / STATE <b>Ks</b>	COUNTY <b>SEWARD</b>
MBU ID / EMP # <b>L10102</b>	EMPLOYEE NAME <b>59179 Dennis Coma</b>	PSL DEPARTMENT <b>5001 Cement</b>	
LOCATION <b>25540 Liberal, Ks</b>	COMPANY <b>Anadarko P.Tec. Comp</b>	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE <b>01</b>	API / UWI #	
WELL LOCATION <b>W OF Liberal</b>	DEPARTMENT <b>5001</b>	JOB PURPOSE CODE <b>010 8 3/8 SUEFAC</b>	
LEASE / WELL # <b>B-4 Hatcher</b>	SEC / TWP / RNG		

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
O'Leary 59179	C. Tompkins H9692		
F. Coma 43456			

ORIGINAL

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
420041	12	50137 - 75237	3.5
5362 - 78202	12		

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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	3-29 0530	3-29 0800	3-29 1100

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY	MAKE
Float Collar <b>Tracer Head</b>	1	Houder
Float Shoe <b>Filling</b>	1	
Guide Shoe <b>D/S</b>	1	
Centralizers	6	
Bottom Plug		
Top Plug	1	
Head		
Packer <b>Basket</b>		
Other <b>Houder A</b>	120	

**WELL DATA**

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing		2.3	8 3/8	KB	1623	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole			12 1/4	GL	1620	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	
Perpac Balls	Qty.	
Other		
Other		
Other		
Other		

RELEASED  
MAY 27 2000

**HOURS ON LOCATION**

DATE	HOURS
<b>TOTAL</b>	<b>43</b>

**OPERATING HOURS**

DATE	HOURS
<b>TOTAL</b>	<b>143</b>

KCG  
MAY 27  
CONFIDENTIAL

**DESCRIPTION OF JOB**

DESIGN  
DE SUEFAC

**FROM CONFIDENTIAL CEMENT DATA**

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	310	44# Hel Con	Prem Plus	39% 1/4 # Fluoride		2.22
	100	Prem Plus		20% 1/4 # Fluoride		1.37

MAY 27 RECEIVED

Circulating _____ Displacement _____	Preflush: Gal - BBI _____ Type _____
Breakdown _____ Maximum _____	Load & Bkdn: Gal - BBI _____ Pad: BBI - Gal _____
Average _____ Frac Gradient _____	Treatment Gal - BBI _____ Disp: BBI - Gal <b>100.67</b>
Shut In: Instant _____ 5-Min _____ 15 Min _____	Cement Slurr Gal - BBI <b>201.27</b>
	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  
*[Signature]*

**JOB LOG**

ORDER NO. 70006

TICKET #	722706	TICKET DATE	5-28-98
REGION	North America	BDA / STATE	Ka
NWA/COUNTRY		COUNTY	Sevier
MBU ID / EMP #	1075	PSL DEPARTMENT	501 Cement
EMPLOYEE NAME	Dennis	CUSTOMER REP / PHONE	
LOCATION	2540	WELL TYPE	01
TICKET AMOUNT	10000	API / UWI #	
WELL LOCATION	usva local	DEPARTMENT	501
LEASE / WELL #	R-4	SEC / TWP / RNG	
		JOB PURPOSE CODE	010 8 1/2 Suvva

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

CONFIDENTIAL ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0530							Time Collected
	0800							Time entered w FE 0900 Cement onloc.
	1000							Time Ready
	0930							Start Pump Casing
	1100							Casing in hole
	1100							Hook up to Create Casing
	1105							Change Casing w/ 12" 8" Pipe
	1108							Change Pipe to Create Casing Track
	1125							Hook up to Pump Track
	01128					320		Start Mix Cement
	1155	177.72				280		Start Tail Cement
	1159	27.54				300		Flush Mix Cement
	1200	261.27				0		Stop Pump Deep Rig
	1204					150		Start Displacement
	1125					380		Flush Pump wash Pump + hoses
								Foot Hld.
								Create Cement to P.S. 20 BBL

**KCC**  
MAY 27  
CONFIDENTIAL

Thank for Coling

Dennis  
Energy

**RELEASED**  
MAY 27 2000

FROM CONFIDENTIAL



# JOB SUMMARY

ORDER NO. 70006

TICKET #

382684

TICKET DATE

4-8-98

REGION North America	NWA/COUNTRY USA	BDA / STATE KS.	COUNTY Seward
MBUID / EMP # L10103 F4550	EMPLOYEE NAME Tyce Davis	PSL DEPARTMENT CMT	
LOCATION Liberal	COMPANY Anadarko	CUSTOMER REP / PHONE J.R. Stuck	
TICKET AMOUNT	WELL TYPE OI	API / UWI #	
WELL LOCATION Lond.	DEPARTMENT CMT	JOB PURPOSE CODE 035	
LEASE / WELL # Hatcher B-4	SEC / TWP / RNG		

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 - H2308			
D. Fulk			

**CONFIDENTIAL****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
52947-75496	12						
30404-7649	36						

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 RPV 5 1/2	1	H
Float Shoe		
Guide Shoe 808	1	0
Centralizers SH	11	
Bottom Plug		W
Top Plug 5W	1	
Head 80	1	C
Packer		
Other		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	
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

**RELEASED**  
MAY 27 2000

DATE	TIME	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
4-8-98	1445		4-8-98	4-8-98	4-8-98
				7040	2130

**WELL DATA**

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	NU.	13.5	5 1/2	KB	6705	
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	
				CMT 5 1/2 LS.
				KCC MAY 27 CONFIDENTIAL
<b>TOTAL</b>		<b>TOTAL</b>		

**HYDRAULIC HORSEPOWER**

ORDERED	Avail.	Used

**AVERAGE RATES IN BPM**

TREATED	Disp.	Overall

**CEMENT LEFT IN PIPE**

FEET	Reason
44	

**RECEIVED**

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIONS	YIELD	LBS/GAL
1	25	110m 5950	10% 3917	110m Haled 322 1/4" F10		10
1	155	110m 5950	B. 10% 3917	110m Haled 322 1/4" F10	1.28	14.4

Circulating _____	Displacement _____	Preflush: Gal - (BB) 26	Type H <sub>2</sub> O SF
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BBI	Pad: BBI - Gal
Average _____	Frac Gradient _____	Treatment Gal - BBI	Disp: BBI - Gal
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr Gal - (BB) 18 L.C.	35 T.C. 6 K.H.H.
		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			

**JOB LOG**

ORDER NO. 70006

 TICKET # 302677  
 TICKET DATE 11/20/00

REGION North America	NWA/COUNTRY USA	BDA / STATE TX	COUNTY TARRANT
MBU ID / EMP # L1001 14550	EMPLOYEE NAME TYCE BRIAN	PSL DEPARTMENT 6415	
LOCATION L1001	COMPANY Halliburton	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE 201	API / UWI #	
WELL LOCATION L1001	DEPARTMENT CMT	JOB PURPOSE CODE 035	
LEASE / WELL #	SEC / TWP / RNG		

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS E. Mc Intyre 4750	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
12:00			

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**ORIGINAL**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1445							called out for job.
	1605							on Loc Rig L.O.O.
	1650							out of hole w/d.p.
	1710							Start 5 1/2 csg & F.E.
	1950							CJ8 on box Hook up 5 1/2 p.c.
	2007							BRK circ. w/rig.
	2009							circ. to pit
	2025		6.0		✓			plug kit & make hole. 255x
	2039							thru circ. Hook tool to P.T. <b>KCC</b>
	2042	6.0	8		✓	400		PUMP H <sub>2</sub> O spacer <b>MAY 27</b>
	2043	6.0	10		✓	400		PUMP Super flush. <b>CONFIDENTIAL</b>
	2044	6.0	8		✓	400		PUMP H <sub>2</sub> O spacer
	2047	6.0	20		✓	300		PUMP 255x 50/50 firm per at 10 1/2 hrs sev.
	2052	6.0	35		✓	250		PUMP 155x 50/50 firm per at 14.4 hrs sev.
	2057	0	81		✓	0		Shut down without drop plug.
	2100	7.0	158.5		✓	120		PUMP DISK.
	2121	6.0	158.5		✓	400		137 bbls in lift cmt
	2124	3.0	158.5		✓	450		150 bbls in sto rate
	2127	3.0	158.5		✓	<del>600</del> 3000		land plug - test casing to 3000 ps. Held.
	2128	0	158.5		✓	<del>3000</del> 0		Release casing - Held.
	2130							Job over
								THANKS FOR CALLING HES.
								TYCE BRIAN & CREW
								<b>RELEASED</b>
								<b>MAY 27 2000</b>
								<b>FROM CONFIDENTIAL</b>