

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: 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. _____

3-10-97 3-13-97 4-2-97

Spud Date Date Reached TD Completion Date

API NO. 15- 189-22150-00-00

County STEVENS

SW - SW - NE - NE Sec. 17 Twp. 34 Rge. 38 X W

1250 Feet from X (circle one) Line of Section

1250 Feet from X (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE, SE, NW or SW (circle one)

Lease Name COULTER "C" Well # 1

Field Name PANOMA COUNCIL GROVE

Producing Formation COUNCIL GROVE

Elevation: Ground 3265.1 KB _____

Total Depth 3365 PBDT 3166

Amount of Surface Pipe Set and Cemented at 627 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 A17-22-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 10500 ppm Fluid volume 400 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 Ring 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 5-28-97

Subscribed and sworn to before me this 28th day of May
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

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name COULTER "C" Well # 1

Sec. 17 Twp. 34 Rge. 38
 East
 West

County STEVENS

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, CNL-LDT.

Log Formation (Top), Depth and Datums Sample

Name	Top	Datum
GLORIETTA	1270-1450	
B/STONE CORRAL	1805	
HERRINGTON	2642	
KRIDER	2660	
WINFIELD	2748	
TOWANDA	2807	
WREFORD	2962	
COUNCIL GROVE	2986	

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	627	P+ MIDCON 2/ P+	100/100	3%CC, 1/4#SK FLC/ 2%CC, 1/4#SK FLC.
PRODUCTION	7-7/8"	5-1/2"	15.5	3208	P+ MIDCON/ P+	165/125	2%CC, 1/4#SK FLC/ 2%CC, 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	3030-3064		ACID: 2000 GAL 7 1/2% FeHCL.
			FRAC: 50528 GAL FOAMED GEL & 120000#	3030-3064
			12/20 SD.	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8	3074		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj. 4-15-97 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		459	12		

Disposition of Gas: _____ METHOD OF COMPLETION _____ Production Interval _____

Vented Sold Used on Lease (If vented, submit ACO-18.) Open Hole Perf. Dually Comp. Commingled _____
 Other (Specify) _____ 3030-3064

L M H

ORIGINAL

ANADARKO PETROLEUM CORPORATION
COULTER C-1
SECTION 17-T34S-R38W
STEVENS COUNTY, KANSAS

COMMENCED: 03-10-97
COMPLETED: 03-14-97

SURFACE CASING: 635' OF 8 5/8" CMTD
W/100 SKS MIDCON 3 + 3% CC + 1/4 #/SK
FLOCELE. TAILED IN W/100 SKS PREMIUM
PLUS + 2% CC + 1/4 #/SKFLOCELE.

FORMATION	DEPTH
SURFACE HOLE	0 - 635
RED BED	635 - 1265
GLORIETTA	1265 - 1452
RED BED	1452 - 2550
CHASE	2550 - 3335
WABAUNSEE	3335 - 3365 RTD

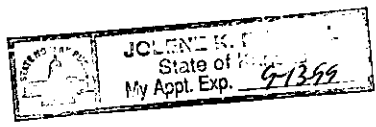
I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHEYENNE DRILLING, INC.

WRAY VALENTINE

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 18TH DAY OF MARCH, 1997.



JOLENE K. RUSSELL

NOTARY PUBLIC

RECORDED
KANSAS COURT
1997 MAR -11 A 12:24



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATIONMid Continent
Liberal KSBILLED ON TICKET NO. 185788FIELD Panama Council Grove SEC. 17 TWP. 34S RING. 38W COUNTY Stevens STATE KSFORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
INITIAL PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
PRESENT PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
PACKER TYPE _____ SET AT _____
BOTTOM HOLE TEMP. _____ PRESSURE _____
MISC. DATA _____ TOTAL DEPTH 635

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>N</u>	<u>23</u>	<u>8 7/8</u>	<u>C35</u>	<u>KB</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL**JOB DATA**

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>3-10-97</u>	DATE <u>3-10-97</u>	DATE <u>3-10-97</u>	DATE <u>3-10-97</u>
TIME <u>1345</u>	TIME <u>1615</u>	TIME <u>1912</u>	TIME <u>1945</u>

TOOLS AND ACCESSORIES			
TYPE AND SIZE	QTY.	MAKE	
FLOAT <u>Insert</u> <u>8 7/8</u>	<u>1</u>	<u>H</u>	
FLOAT SHOE			
GUIDE SHOE <u>Reg</u> <u>8 7/8</u>	<u>1</u>	<u>O</u>	
CENTRALIZERS <u>8 7/8</u>	<u>4</u>		
BOTTOM PLUG		<u>W</u>	
TOP PLUG <u>5W</u> <u>8 7/8</u>	<u>1</u>		
HEAD <u>P/C</u> <u>8 7/8</u>	<u>1</u>	<u>C</u>	
PACKER			
OTHER <u>Basket</u> <u>8 7/8</u>	<u>1</u>	<u>O</u>	

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>D. McKane</u>		<u>Liberal</u>
<u>J Woodrow</u>		<u>"</u>
<u>S Teljord</u>		<u>Hugoton</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB./GAL. °API

DISPL. FLUID _____ DENSITY _____ LB./GAL. °API

PROP. TYPE _____ SIZE _____ LB.

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

SURFACTANT TYPE _____ GAL. _____ IN

NE AGENT TYPE _____ GAL. _____ IN

FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN

GELLING AGENT TYPE _____ GAL.-LB. _____ IN

FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN

BREAKER TYPE _____ GAL.-LB. _____ IN

BLOCKING AGENT TYPE _____ GAL.-LB. _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT Cement

DESCRIPTION OF JOB Cement 8 7/8 Sur-Job

JOB DONE THRU: TUBING CASING ANNULUS TBG ANN.

CUSTOMER REPRESENTATIVE X Pasillo

HALLIBURTON OPERATOR Ray McKane COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK	MIXED LBS./GAL.
	<u>100</u>	<u>P+ Molcon</u>	<u>South West</u>	<u>B</u>	<u>3% CC 1/4#/sk Floceek</u>	<u>3.22</u>	<u>11.1</u>
	<u>100</u>	<u>Prem Plus</u>	<u>"</u>	<u>"</u>	<u>2% CC 1/4#/sk Floceek</u>	<u>1.32</u>	<u>14.8</u>

PRESSURES IN PSI**SUMMARY****VOLUMES**

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM _____

AVERAGE _____ FRACTURE GRADIENT _____

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____

HYDRAULIC HORSEPOWER _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 42.32 REASON Shoe Joint

PRESLUSH (BBL.-GAL.) 5 TYPE Fresh Water

LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____

TREATMENT: BBL.-GAL. _____ DISPL. (BBL.-GAL.) 32.9

CEMENT SLURRY (BBL.-GAL.) L.C 57.3 T.C 23.5

TOTAL VOLUME: BBL.-GAL. _____

REMARKSCUSTOMER Andale Petroleum Corp LEASE C-1 WELL NO. C-1 JOB TYPE 8 7/8 Sur-Job DATE 3-10-97

CUSTOMER *Amianta* WELL NO. *C-1* LEASE *Colter* JOB TYPE *8 3/4 Sur Face* TICKET NO. *185798*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1345							Job Ready Now
	1345							Called for Job
	1600							On Location with Pump truck & Bulk Cont Rig still Drilling wait on Cont
	1705							Rig Has hole Cont on Bottom Circulating
	1720							through Circulating
	1722							Start tripping out DP.
	1800							Start running Csg & Float Equip.
	1852							Csg on Bottom
	1900							Hook up PIC & Circulating Iron
	1910							through Circulating
	1911							Hook up to Pump truck
								Job Procedure for 8 3/4 Sur Face
	1912	5	5			0/150		Run 5 bbls Fresh Water Ahead
	1913	6	57.3			150/200		Start 100 sks L.C. @ 11.1 #/gal
	1920	6	23.5			200/110		Start 100 sks T.C. @ 14.8 #/gal
	1922							through mixing Cont
	1924							Shut Down & Release plug
	1925	6	40			0/250		Start Displacement
								23 Bbls out Good Cont to Surface ✓
	1935					250/100		Max PSI Before Plug Lands
	1935					700		Plug Landed / Release Float
	1936							Float held
								Job Complete
								15 bbls out to pit 26 sks

ORIGINAL

Thank You

Danny & Woody & Crew

HALLIBURTON
 1717 1/2 N. V. 1225
 1800 0325 0000



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

Midcontinent
Liberal Ks.

BILLED ON TICKET NO. 183732

WELL DATA

FIELD PANAMA Council Grove SEC. 17 TWP. 34S RNG. 38W COUNTY STEVENSON STATE KS.

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
INITIAL PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
PRESENT PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
PACKER TYPE _____ SET AT _____
BOTTOM HOLE TEMP. _____ PRESSURE _____
MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	15.5	5.5	KB	3208.95	
LINER						
TUBING						
OPEN HOLE			7 7/8	KB	33065	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>3/14/99</u>	DATE <u>3/14/99</u>	DATE	DATE
TIME <u>0200</u>	TIME <u>0430</u>	TIME	TIME

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>T. Mullins</u>	<u>52947</u>	<u>Liberal</u>
<u>E0392</u>	<u>-75496</u>	
<u>R. CREST</u>	<u>420045</u>	<u>Liberal</u>
<u>S. Telford</u>	<u>50737</u>	<u>Hugoton</u>
<u>H4817</u>	<u>75817</u>	

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
<u>insert float Assy</u>	<u>1</u>	<u>H</u>
FLOAT SHOE		<u>0</u>
GUIDE SHOE <u>5 1/2 Regular</u>	<u>1</u>	<u>W</u>
CENTRALIZERS <u>5 1/2, S-4</u>	<u>20</u>	<u>C</u>
BOTTOM PLUG		<u>4 0</u>
TOP PLUG <u>Swiper 5 1/2</u>	<u>1</u>	<u>0</u>
HEAD <u>QC.PC.</u>	<u>1</u>	<u>W</u>
PACKER		<u>C</u>
OTHER <u>Super Flush</u>	<u>10</u>	<u>0</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. °API
DISPL. FLUID _____ DENSITY _____ LB/GAL. °API
PROP. TYPE _____ SIZE _____ LB.
PROP. TYPE _____ SIZE _____ LB.
ACID TYPE _____ GAL. _____ %
ACID TYPE _____ GAL. _____ %
ACID TYPE _____ GAL. _____ %
SURFACTANT TYPE _____ GAL. _____ IN
NE AGENT TYPE _____ GAL. _____ IN
FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN
GELLING AGENT TYPE _____ GAL.-LB. _____ IN
FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN
BREAKER TYPE _____ GAL.-LB. _____ IN
BLOCKING AGENT TYPE _____ GAL.-LB. _____
PERFPAC BALLS TYPE _____ QTY. _____
OTHER _____
OTHER _____

DEPARTMENT 5001 Cement
DESCRIPTION OF JOB 5.5" long string
JOB DONE THRU: TUBING CASING ANNULUS TBG. ANN.

CUSTOMER REPRESENTATIVE X
HALLIBURTON OPERATOR Thomas J. Mullins
RON CREST
COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU FT./SK.	MIXED LBS./GAL.
	<u>165</u>	<u>Midcon P4</u>		<u>8</u>	<u>2% CC 1/4 #/sk Floccle</u>	<u>3.20</u>	<u>11.1</u>
	<u>125</u>	<u>Midcon P4</u>		<u>0</u>	<u>2% CC 1/4 #/sk Floccle</u>	<u>2.00</u>	<u>12.8</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____
BREAKDOWN _____ MAXIMUM _____
AVERAGE _____ FRACTURE GRADIENT _____
SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN. _____
HYDRAULIC HORSEPOWER _____
ORDERED _____ AVAILABLE _____ USED _____
AVERAGE RATES IN BPM _____
TREATING _____ DISPL. _____ OVERALL _____
CEMENT LEFT IN PIPE _____
FEET 33.83 REASON Shot Joint

PRESLUSH: BBL-GAL. 8/10/8 TYPE H₂O / SUPER FLUSH / H₂O
LOAD & BKDN: BBL-GAL. _____ PAD: BBL-GAL. _____
TREATMENT: BBL-GAL. _____ DISPL. BBL-GAL. 25.5 H₂O
CEMENT SLURRY: BBL-GAL. Limit 94.03
Fail = 44.52
TOTAL VOLUME: BBL-GAL. 138.55 bbls
REMARKS _____

CUSTOMER QuadDanco Potokun deep lease courtier
WELL NO. D-1
JOB TYPE 035 long string
DATE 3/14/99

JOB LOG - 2013-C

 CUSTOMER: **ANA DARKO Petro Corp** WELL NO: **C-1** LEASE: **Coulter** JOB TYPE: **035 LongString** TICKET NO: **183732**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0130	—	—	—	—	—	—	Called out ORIGINAL
	0500	—	—	—	—	—	—	on location, setup truck
	0522	—	—	—	—	—	—	Rig crew running casing in hole
	0715	—	—	—	—	—	—	Drop Ball, Rig crew putting landing joint on.
	0753	—	—	—	—	—	—	Rig up to mud line and circulate mud to pit, Prime truck up
	0735	—	—	—	—	—	—	Mix Super Flush
	0758	—	—	—	—	—	—	SHUT DOWN mud switch to cement line. Close washup tee valve and open Head valve
	0800	6 bbl/min	8 bbl	—	✓	—	500	8 bbls H ₂ O Ahead
	0802	6 bbl/min	10 bbl	—	✓	—	475	10 bbls Super Flush
	0806	6 bbl/min	8 bbl	—	✓	—	400	8 bbls H ₂ O behind, mix cement for lead 11.1 #/gal
	0808	3 bbl/min	4 bbls	—	✓	—	325	START Lead cement
	0809	6 bbl/min	90 bbls	—	✓	—	325	Increase Rate for rest of Job
	0825	6 bbl/min	44.5	—	✓	—	275	START Tail Cement 12.0 #/gal
	0835	—	—	—	—	—	—	SHUT DOWN, wash pumps and lines close Head valve open washup tee valve Drop Plug
	0838	6 bbl/min	65.5	—	✓	—	400	Close washup tee, open Head valve, start displacement
	0849	3 bbl/min	10	—	✓	—	685	Slow Rate
	0855	—	—	—	✓	—	1,052	Plug landed
	0856	—	—	—	—	—	—	Release Pressure, Float Holding
	0858	—	—	—	—	—	—	Rig Down truck, load Head and IRON

Thanks For Calling
 Halliburton
 Ron, Tom, STAN

1007-11-11
 1007-11-11
 1007-11-11