

FORM MUST BE TYPED

CONFIDENTIAL

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 TRADING COMPANY **

Operator Contact Person: J. L. ASHTON

Phone (316) 624-6253

Contractor: Name: CHEYENNE DRILLING

License: 5382

Wellsite Geologist: N/A

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 PBTD

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

8-17-96 8-24-96 9-14-96

Spud Date 8-17-96 Date Reached TD 8-24-96 Completion Date 9-14-96

** WAITING ON PIPELINE.

SIDE ONE

ORIGINAL

API NO. 15- 129-21445-0000

County MORTON

 - - - NW - SW Sec. 31 Twp. 32 Rge. 41 E

1980 Feet from X(S) (circle one) Line of Section

660 Feet from X(D) (circle one) Line of Section

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

Lease Name MILAM "A" Well # 1

Field Name DUNKLE

Producing Formation TOPEKA

Elevation: Ground 3425 KB _____

Total Depth 3800 PBTD 3230

Amount of Surface Pipe Set and Cemented at 784 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 ALT 1 JH 8-21-98
(Data must be collected from the Reserve Pit)

Chloride content 1300 ppm Fluid volume 400 bbls

Dewatering method used NATURAL EVAPORATION

Location of fluid disposal if hauled offsite: _____

Operator Name NCC

Lease Name _____ License No. _____

Quarter Sec. Twp. S Rng. E/W

County Docket No. _____

RELEASED

OCT 1 1998

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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 Bruce Darlington

BRUCE DARLINGTON
DRILLING ENGINEER

Date 12-13-96

Subscribed and sworn to before me this 13th day of December 19 96.

Notary Public L. Marc Harvey

L. MARC HARVEY
Notary Public - State of Kansas
My Appt. Expires 6-12-99

Date Commission Expires _____

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 MILAM "A" Well # 1

Sec. 31 Twp. 32 Rge. 41 East County MOROTIN
 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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Attach Additional Sheets.) 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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy.) List All E.Logs Run: DIL, ML, CNL-LDT, SONIC, CBL-GR.	<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>Datum</td> </tr> <tr> <td>B/CIMARRON ANHY.</td> <td>1460</td> <td></td> </tr> <tr> <td>KRIDER</td> <td>2136</td> <td></td> </tr> <tr> <td>WABAUNSEE</td> <td>2841</td> <td></td> </tr> <tr> <td>TOPEKA</td> <td>3088</td> <td></td> </tr> <tr> <td>LANSING</td> <td>3640</td> <td></td> </tr> </table>	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample	Name	Top	Datum	B/CIMARRON ANHY.	1460		KRIDER	2136		WABAUNSEE	2841		TOPEKA	3088		LANSING	3640	
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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	784	P+ MIDCON 2/ P+	125/100	3%CC, 1/4#SK FLC/ 2%CC, 1/4#SK FLC.
PRODUCTION	7-7/8	5-1/2	15.5	3367	MIDCON/ MIDCON.	180/150	3%CC, 1/4#SK FLC/ 2%CC, 1/4#SK FLC.

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
4	3254-59, CIBP @ 3230'	NONE	
4	3164-68, 3134-41	1000 GAL 15% FeHCL ACID	3134-3168 (OA)

TUBING RECORD	Size 2-3/8	Set At 3190	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Inj.	Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil Bbls.	Gas .Mcf 52	Water Bbls. 0	Gas-Oil Ratio	Gravity
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Disposition of Gas: ** TO BE

Vented Sold Used on Lease (If vented, submit ACO-18.)

** WAITING ON PIPELINE.

METHOD OF COMPLETION

Open Hole Perf. Dually Comp. Commingled

Other (Specify) _____

Production Interval 3134-3168 (OA)

KCC

CONFIDENTIAL

ORIGINAL

15-129-21445

ANADARKO PETROLEUM CORPORATION
MILAM A-1
SECTION 31-T32S-R41W
MORTON COUNTY, KANSAS

COMMENCED: 08-17-96
COMPLETED: 08-25-96

SURFACE CASING: 791' OF 8 5/8" CMTD
W/125 SKS PREMIUM PLUS MIDCON + 3% CC
+ 1/4#/SK FLOCELE. TAILED IN W/100 SKS
PREMIUM PLUS + 2% CC + 1/4 #/SK FLOCELE.

FORMATION

DEPTH

SURFACE HOLE

0 - 791

RED BED

791 - 1050

GLORIETTA

1050 - 1218

RED BED

1218 - 2360

LIMESTONE

2360 - 3800 RTD

RELEASED

OCT 1 1998

FROM CONFIDENTIAL

KCC
DEC 13
CONFIDENTIAL

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 28TH DAY OF AUGUST, 1996.

JOLENE K. RUSSELL

NOTARY PUBLIC

KANSAS RECEIVED
MAY DEC 17 A 1:02
CORP COMM

WELL DATA
 FIELD _____ SEC. 31 TWP. 32s RING. 41w COUNTY. Morton 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	<u>N</u>	<u>23</u>	<u>8 5/8</u>	<u>KB</u>	<u>793</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>Insert/Fillup 8 5/8</u>	<u>1</u>	<u>Howro</u>
FLOAT SHOE		
GUIDE SHOE <u>TX</u>	<u>1</u>	
CENTRALIZERS <u>REG</u>	<u>3</u>	
BOTTOM PLUG		
TOP PLUG <u>SW</u>	<u>1</u>	
HEAD <u>P.C.</u>	<u>1</u>	
PACKER <u>1 3/4" x 10'</u>	<u>1</u>	
OTHER <u>WELD FL</u>	<u>1</u>	

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>8-17-96</u> TIME <u>1330</u>	DATE <u>8-17-96</u> TIME <u>1730</u>	DATE <u>8-17-96</u> TIME <u>2208</u>	DATE <u>8-17-96</u> TIME <u>2236</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
RELEASED		
OCT 1 1996		
	NOU	
	DEC 1 3	
FROM CONFIDENTIAL	CONFIDENTIAL	

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB./GAL. °API
 DISPL. FLUID _____ DENSITY _____ LB./GAL. °API
 PROP. TYPE _____ SIZE _____ LB.
 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. _____ IN
 PERFPAC BALLS TYPE _____ QTY. _____
 OTHER _____
 OTHER _____

DEPARTMENT 5001 (Cont)
 DESCRIPTION OF JOB SET SURFACE PIPE
 JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.
 CUSTOMER REPRESENTATIVE X John Shires
 HALLIBURTON OPERATOR Tom Boyer COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK	MIXED LBS./GAL.
	<u>125</u>	<u>MIDCON, P+</u>		<u>B</u>	<u>3% CC, 1/4% sk Floccle</u>	<u>3.22</u>	<u>11.1</u>
	<u>100</u>	<u>P+</u>		<u>B</u>	<u>2% CC, 1/4% sk Floccle</u>	<u>1.34</u>	<u>14.8</u>

PRESSURES IN PSI
 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 41.35 REASON SHOE JOINT

SUMMARY
 PRESLUSH: BBL.-GAL. _____ TYPE _____
 LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISPL. BBL.-GAL. 48.15
 CEMENT SLURRY 71.6 + 23.8
 TOTAL VOLUME: BBL.-GAL. _____
REMARKS
Cement to Surface

FIELD OFFICE

CUSTOMER APC
 LEASE W.L.M.
 WELL NO. 1
 JOB TYPE 010
 DATE 8-17-96



JOB LOG HAL-2013-C

CUSTOMER APC	WELL NO. #1	LEASE Milham "A"	JOB TYPE 210	TICKET NO. 920517
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1330							Called out - Requested "1730"
	1730							ON Loc. - Drilling
	2045							Run Csg @ 8 5/8" 23'
	2152							ON Bottom @ 793' of 8 5/8" csg
	2156							Hooked up to circ
	2203							Hook up to amt
	2208	0-6	7 1/2	✓		↑ 9/200		Pump lead DEC 1.3
	2220	6	23 3/4	✓		200		Pump trail CONFIDENTIAL
	2224	6-0				↓ 200		Shut down - Drop plug
	2225	0-6	48	✓		↑ 10/150		Pump Displ. - washup trk
	2230	6-2				↓ 59/200		Reduce Rate
	2235	2-0				180/200		Plug Down
	2236					50%		Release Press - Float held
								Cement to surface
								Approx 15 bbls on 26 sks
								Thank you!
								Tom & Tyce + crew

RELEASED

OCT 1 1998

FROM CONFIDENTIAL

RELEASED
OCT 17 1998
MKT. DEPT. 17



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATIONCONFIDENTIAL
Liberal, KSBILLED ON TICKET NO. 106556CUSTOMER Amador
LEASE Myland
WELL NO. 1
JOB TYPE 5 1/2 PROD. C.S.
DATE 8-25-96WELL DATA
FIELD Dunkle SEC. 31 TWP. 32 RNG. 41 COUNTY Worton 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 _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>U</u>	<u>15.5</u>	<u>5 1/2</u>	<u>1.0</u>	<u>3366</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLL <u>INSPIR</u> <u>5 1/2</u>	<u>1</u>	
FLOAT SHOE <u>FILL UP</u> <u>5 1/2</u>	<u>1</u>	
GUIDE SHOE <u>REG</u> <u>"</u>	<u>1</u>	
CENTRALIZERS <u>SY</u> <u>"</u>	<u>12</u>	
BOTTOM PLUG		
TOP PLUG <u>SW</u> <u>"</u>	<u>1</u>	
HEAD <u>P.C.</u> <u>"</u>	<u>1</u>	
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>8-25-96</u> TIME <u>0640</u>	DATE <u>8-25-96</u> TIME <u>0920</u>	DATE <u>8-25-96</u> TIME <u>1320</u>	DATE <u>8-25-96</u> TIME <u>1410</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. °API
DISPL. FLUID _____ DENSITY _____ LB/GAL. °API
PROP. TYPE _____ SIZE _____ **RELEASED**
PROP. TYPE _____ SIZE _____ LB.
ACID TYPE _____ GAL. _____ **OCT % 1 1998**
ACID TYPE _____ GAL. _____
ACID TYPE _____ GAL. _____
SURFACTANT TYPE _____ GAL. _____ **FROM CONFIDENTIAL**
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 _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
		DEC 13
		CONFIDENTIAL

DEPARTMENT CMTA
DESCRIPTION OF JOB CMT 5 1/2 PROD. CSB
JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
CUSTOMER REPRESENTATIVE X O.G. (Stank)
HALLIBURTON OPERATOR Jace Davis COPIES REQUESTED 2

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT /SK	MIXED LBS /GAL
<u>1</u>	<u>150</u>	<u>pt midcon</u>		<u>B</u>	<u>370cc 1/4" F10</u>	<u>3.22</u>	<u>11.1</u>
<u>1</u>	<u>150</u>	<u>pt midcon</u>		<u>B</u>	<u>"</u>	<u>2.01</u>	<u>12.8</u>

PRESSURES IN PSI

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 REASON Shoe Joint

SUMMARY

VOLUMES

PRESLUSH: BBL-GAL. 30 TYPE H2O SF H2O
LOAD & BKDN: BBL-GAL. _____ PAD: BBL-GAL. _____
TREATMENT: BBL-GAL. _____ DISPL BBL-GAL. 79
CEMENT SLURRY: BBL-GAL. 103.7 CC. 53.6 F.C.
TOTAL VOLUME: BBL-GAL. _____

REMARKS

FIELD OFFICE