

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 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 PBTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

8-27-96 8-29-96 9-19-96
Spud Date Date Reached TD Completion Date

API NO. 15- 129-21449-00-00

County MORTON

20'S- N/2 - S/2 - NW Sec. 9 Twp. 34 Rge. 41 E W

1670 Feet from X (circle one) Line of Section

1320 Feet from W (circle one) Line of Section

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

Lease Name TURNER "C" Well # 2H

Field Name HUGOTON

Producing Formation CHASE

Elevation: Ground 3404.7 KB _____

Total Depth 2450 PBTD 2345

Amount of Surface Pipe Set and Cemented at 462 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 2-13-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 33000 ppm Fluid volume 400 bbls

Dewatering method used NATURAL EVAPORATION

Location of fluid disposal if hauled offsite: 12-9-96

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 David W. Kapple
Title DIVISION DRILLING ENGINEER Date 12/9/96

Subscribed and sworn to before me this 4th day of December 1996.

Notary Public L. Marc Harvey
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 TURNER "C" Well # 2H

Sec. 9 Twp. 34 Rge. 41 East County MORTON
 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 type="checkbox"/> Yes <input checked="" 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: DIL, ML, CNL-LDT, NGR, CCL-CBL-GR.	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"><input checked="" type="checkbox"/></td> <td style="width:60%;">Log Formation (Top), Depth and Datums</td> <td style="width:10%;"><input type="checkbox"/></td> <td style="width:20%;">Sample</td> </tr> <tr> <td></td> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td></td> <td>KRIDER</td> <td>2148</td> <td></td> </tr> <tr> <td></td> <td>WINFIELD</td> <td>2200</td> <td></td> </tr> <tr> <td></td> <td>TOWANDA</td> <td>2270</td> <td></td> </tr> <tr> <td></td> <td>FT. RILEY</td> <td>2346</td> <td></td> </tr> </table>	<input checked="" type="checkbox"/>	Log Formation (Top), Depth and Datums	<input type="checkbox"/>	Sample		Name	Top	Datum		KRIDER	2148			WINFIELD	2200			TOWANDA	2270			FT. RILEY	2346	
<input checked="" type="checkbox"/>	Log Formation (Top), Depth and Datums	<input type="checkbox"/>	Sample																						
	Name	Top	Datum																						
	KRIDER	2148																							
	WINFIELD	2200																							
	TOWANDA	2270																							
	FT. RILEY	2346																							

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	462	P+ MIDCON 2/P+	60/100	3%CC, 1/4#SK FLC/2%CC, 1/4#SK FLC.
PRODUCTION	7-7/8	5-1/2	15.5	2391	MIDCON/MIDCON.	140/100	3%CC, 1/4#SK FLC/3%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	2156-2172'	ACID: 1200 GAL 7-1/2% FeHCL.	2156-2172'
		FRAC: 20200 GAL 25# GLD LINEAR 2% KCL & 46200# 20/40 SD.	2156-2172'

TUBING RECORD	Size 2-3/8	Set At 2136	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. FIRST: 10-4-96	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 363 Mcf	Water 2 Bbls.	Gas-Oil Ratio	Gravity
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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 2156-2172'

Kcc

ORIGINAL

ANADARKO PETROLEUM CORPORATION
TURNER C-2H
SECTION 9-T32S-R41W
MORTON COUNTY, KANSAS

15-129-21449

COMMENCED: 08-27-96
COMPLETED: 08-29-96

SURFACE CASING: 469' OF 8 5/8" CMTD
W/60 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

FORMATION	DEPTH
SURFACE HOLE	0 - 469
RED BED	469 - 903
RED BED & ANHYDRITE	903 - 1055
GLORIETTA	1055 - 1199
RED BED	1199 - 1928
ANHYDRITE	1928 - 1958
RED BED	1958 - 2230
RED BED & SHALE	2230 - 2450 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

WRAY VALENTINE

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KANSAS COURT COMM
1996 DEC -9 P 2:16

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 30TH DAY OF AUGUST, 1996.

JOLENE K. RUSSELL

Jolene K Russell
NOTARY PUBLIC





JOB SUMMARY

HALLIBURTON DIVISION **MID CONTINENT**
 HALLIBURTON LOCATION **LIBERAL KS**

BILLED ON TICKET NO. **106854**

KCC
106854

WELL DATA
 FIELD _____ SEC **9** TWP **34S** 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	29	8 3/8	GL.	469	
LINEP	CSG N	13.5	5 1/2	KB	2303	2403
TUBING						
OPEN HOLE			7 7/8	469		SHOTS/FT
PERFORATIONS			ORIGINAL			
PERFORATIONS						
PERFORATIONS						

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR INSERT	1	A
FLOAT SHOE Fillup	1	
GUIDE SHOE Regular	1	O
CENTRALIZERS S-4	12	
BOTTOM PLUG		w
TOP PLUG 5w	1	
HEAD APWS WELD A-11B	1	C
PACKER		
OTHER		O

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL @ API _____
 DISPL. FLUID _____ DENSITY _____ LB/GAL @ API _____
 PROF. TYPE _____ SIZE _____ LB. _____
 PROF. 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 _____

JOB DATA

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 8-29-96	DATE 8-29-96	DATE 8-29-96	DATE 8-29-96
TIME 1500	TIME 1830	TIME 2135	TIME 2230

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
T. BROADFOOT	420044	LIBERAL KS
D. MCLANE	53554	"
G.3601	76900	"
J. ORTEGA	4037	DUNCAN OKLA
H1924	7620	

DEPARTMENT **CEMENT**
 DESCRIPTION OF JOB **CEMENT 5 1/2 LONG STRING**
 JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.
 CUSTOMER REPRESENTATIVE **X. O. J. Stubb**
 HALLIBURTON OPERATOR **J. Broadfoot** COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	140	MIDCONT PT		B	3% C.C. - 1/4 #/SK FLOCELE	3.22	11.1
1	100	" "		"	"	2.01	12.8

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 **36.07** REASON **SHOE JT**

SUMMARY

PRESLUSH: BBL.-GAL. **8-10-8** TYPE **HO-Super 2 1/2" H²O**
 LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISPL BBL.-GAL. **54**
 CEMENT SLURRY BBL.-GAL. **80-36**
 TOTAL VOLUME: BBL.-GAL. _____

REMARKS
MIS AS GIVEN TO CO MAN
No CMT CIRCULATED TO P,T
Job WELL DONE - NO ACCIDENTS

CUSTOMER: ANADARKO PETRO. CORP. LEASE: T-1292-R
 WELL NO: 24
 JOB TYPE: 5 1/2 LONG STRING DATE: 8-29-96



HALLIBURTON ORIGINAL

DATE 8-29-96 PAGE NO.

JOB LOG - HAL-2013-C

CUSTOMER ANADARKO PETR. CORP. WELL NO. 2-H LEASE TURNER JOB TYPE 5 1/2 LONG STRING TICKET NO. 106854

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1500							CALLED OUT - READY 1900
	1830							ON LOC - LOGGING
	1930							START RUNNING CSG.
	2045							HOOK UP CMT HEAD
	2055							CIRCULATION TO PIT - SAFETY MEETING
								START MIXING - Super Flush
	2130							HOOK up To CMT LINE
	2135	4	8			0	210	START H ₂ O SPACER
	2137	5	10			0	210	START Super Flush
	2139	4	8			0	225	START H ₂ O SPACER
	2141		80			0	285	START LEAD CMT 11.1#/GAL
	2155		36			0	110	START TAIL CMT 12.8#/GAL
	2201		0			0	0	SNUT OFF - WASH UP - DROP PLUG.
	2207		50			0	500	START DISPLACEMENT H ₂ O
	2218	2	4			1300	1300	SLOW RATE - (54 TOTAL BBL)
	2220		-			1300	1300	PLUG LANDED - JOB OVER FLOAT HELD
								THANKS FOR CALLING HALLIBURTON ENERGY SERVICES LIBERAL IS.
								HAVE A GOOD NIGHT
								BROADFOOT - MCLANE - ORTEGA
								MS DS ON LOC
								NO CMT CIRCULATED TO PIT



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S.A. C. 10/1/96
P. 217



HALLIBURTON JOB SUMMARY

DIVISION **CONCRETE**
 HALLIBURTON LOCATION **LIBERTY - KS**

BILLED ON TICKET NO. **106711**
 CUSTOMER **REC**

FIELD **HUGOTON** SEC **9** TWP **31S** RNG **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	N	234	8 5/8	462	469	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT-COLLAR INSERT FLOAT	1	
FLOAT-SHOE FILLUP	1	
GUIDE SHOE TEXAS STYLE	1	
CENTRALIZERS 4 3/8	3	
BOTTOM PLUG BASKET	1	
TOP PLUG	1	
HEAD	1	
PACKER		
OTHER WELDED	1	

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 _____

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 8-27-96 TIME 14:30	DATE 8-27-96 TIME 17:30	DATE 8-27-96 TIME 21:50	DATE 8-27-96 TIME 21:21

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
R. C. ...	420045 P11	Liberal
R. ...	75496	...
D. ...	7620	Hugoton

DEPARTMENT **CEMENT**
 DESCRIPTION OF JOB **8 5/8 SUP FACS**
 JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
 CUSTOMER REPRESENTATIVE **XPO**
 HALLIBURTON OPERATOR **RICHARD BRETTON** COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	100	P+M. Mineral		B	390cc 1/4% Floerite	3.22	11.1
2	100	Pre-m +		B	290cc 1/4% Floerite	1.32	11.8

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 **41.85'** REASON **SHOE Joint**

SUMMARY

PRESLUSH: BBL.-GAL. **10** TYPE **4 3/8**
 LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISPL. BBL.-GAL. **27**
 CEMENT SLURRY: BBL.-GAL. **57.9**
 TOTAL VOLUME: BBL.-GAL. _____

REMARKS
See Job Log

CUSTOMER: **REC**
 LEASE: **TURNER C**
 WELL NO.: **2 H**
 JOB TYPE: **8 5/8 SUP FACS**
 DATE:



CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
PLANDARKO Petro		Z H		TURNER "C"		9 1/2" SURFACE		106711	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	17:30							CALL OUT	
	17:30							ON LOCATION	
	17:50							RIG UP - PRIME PUMPS	
	20:50							HOOK UP TO CSG	
	21:04	2.5	10		X		0	PUMP 10RBL + 10 ahead	
	21:08	2			X		27	BROKE CIRCULATION	
	21:13	6	34.4		X		175	START 11.1# cement (LEAD)	
	21:16	6	23.5		X		176	START 14.8# cement (TAIL)	
	21:20							SHUT DOWN - DROP PLUG	
	21:22	6	27		X		110	START Displacement w/ H ₂ O	
	21:24	2						SLOW RATE DOWN	
	21:30	2	21					Cement to surface	
	21:35						500	Bump PLUG	
	21:38							CHECK FLOAT - FLOAT HELD	
	22:00							HALLIBURTON OFF LOCATION	
			ORIGINAL						
							128	PSI Before Plug Bumped	

THANKS,
RECAL.
R.W.

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196 DEC 9 P 2:17