

FORM MUST BE TYPED

CONFIDENTIAL

SIDE ONE

ORIGINAL

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: BIG "A" DRILLING

License: 31572

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: OCT 15 1998

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. _____

8-16-96 8-29-96 11-4-96
Spud Date Date Reached TD Completion Date

API NO. 15- 129-21448-0000

County MORTON

20'S- NE - SE Sec. 35 Twp. 32 Rge. 41 X W

1960 Feet from X(S) (circle one) Line of Section

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

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

Lease Name GOING "B" Well # 3

Field Name DUNKLE

Producing Formation MORROW

Elevation: Ground 3411.8 KB _____

Total Depth 6320 PBTB 4940

Amount of Surface Pipe Set and Cemented at 1477 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 AH-1, 10-5-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 1000 ppm Fluid volume 700 bbls

Dewatering method used NATURAL EVAPORATION

Location of fluid disposal if hauled offsite: KCC

Operator Name STATE CORPORATION COMMISSION

Lease Name DFO 1 1 1995 License No. 12-12-96

Quarter 1 Sec. 35 Twp. _____ S Rng. _____ E/W

County MORTON Docket No. _____

RELEASED

FROM CONFIDENTIAL

RECEIVED
STATE CORPORATION COMMISSION

DEC 1 1

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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

Title DRILLING ENGINEER Date 12/14/96

Subscribed and sworn to before me this 11th day of December 1996.

Notary Public L. Marc Harvey

Date Commission Expires _____

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

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

DATE: 11/23/96

Operator Name ANADARKO PETROLEUM CORPORATION

Lease Name GOING "B"

Well # 3

Sec. 35 Twp. 32 Rge. 41
 East
 West

County MORTON

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: DIL, ML, CNL-LDT, SONIC,
 CBL-CCL-GR.

<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample		
Name	Top	Datum
B/STONE CORRAL	1488	
CHASE	2132	
COUNCIL GROVE	1488	
LANSING	3596	
MARMATON	4180	
MORROW	4684	
STE.GENEVIEVE	5122	
ST. LOUIS	5212	
SPERGEN	5418	
WARSAW	5572	
OSAGE	5646	
KINDERHOOK	5842	
VIOLA	5950	
ARBUCKLE	6128	

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	1477	P+ MIDCON 2/ P+	270/100	3%CC, 1/4#SK FLC/ 3%CC, 1/4#SK FLC.
PRODUCTION	7-7/8	5-1/2	15.5	6303	MIDCON/ VERSASET	110/240	2% CALSEAL, 2%CC, 1/4#SK FLC/.6% HALAD 322, .5%KCl, 12/5#/SK GILSONITE, .9% VERSASET, 1/4# F

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	Acid, Fracture, Shot, Cement Squeeze Record
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used) Depth
4	6175-6179, CIBP @ 6150, 5874-5888' CIBP @ 5840	1800 GAL 15% HCl 5874-6179 (OA)
2	5700-5726, CIBP @ 5650, 5484-5530' CIBP @ 5450	3450 GAL 7-1/2% HCl 5484-5530
2	5368-5390, CIBP @ 5320, 5248-5256' CIBP @ 5200	2800 GAL 7-1/2% HCl, 4000 GAL 15% HCl. 5248-5390 (OA)
2	5100-5110, CIBP @ 5085,	500 GAL 7-1/2% HCl 5100-5110
2	5055-62, 5014-37, 4966-72, CIBP @ 4940	1800 GAL 7-1/2% HCl, 45800 GAL GEL & 4966-5062 (OA)
4	4832-4844	190,000# 16/30 SD. 4832-4844
		500 GAL 7-1/2% FeHCl, 17300 GAL GEL & 35550# 16/30 SD.

TUBING RECORD	Size	Set At	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: 11-23-96
 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf 1583	Water Bbls. 0	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: 4832-4844

WELL DATA

FIELD _____ SEC 35 TWP 32S RNG. 4W COUNTY MORTON STATE KS.

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____

PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____

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	23	8 5/8	GL.	1478	
LINE TUBING	U	15.5	5 1/2	KB	6318	
OPEN HOLE			7 7/8	1478	6320	SHOTS/FT
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

CONFIDENTIAL

ORIGINAL

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
ROAT COLLAR <u>5 1/2</u>		
INSERT	1	H
FLOAT SHOE	1	
FILLUP		
GUIDE SHOE	1	O
REGULAR		
CENTRALIZERS	24	
S-4		
BOTTOM PLUG		W
TOP PLUG	1	
5W		
HEAD HONIC WELD A 1LB	1	C
PACKER		
OTHER		D

JOB DATA

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>8-30-76</u>	DATE <u>8-30-76</u>	DATE <u>8-31-76</u>	DATE <u>8-31-76</u>
TIME <u>1830</u>	TIME <u>2300</u>	TIME <u>0550</u>	TIME <u>1130</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
T. BROADFOOT	420042	LIBERAL KS
D4604		
T. MULLINS	50870	DUNCAN OKLA
EJ392	75051	
S. TILFORD	50866	HUGOTON KS.
H4604	7649	
D. CORPENDING	50404	"
H2441	75505	
M. ADDINGTON	0103	Pampa TX
NITROGEN	H7186	2056
D. CUMMINS	Pickup	"

MATERIALS

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

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

PROP. TYPE OCT 15 1998 LB.

PROP. TYPE _____ LB.

ACID TYPE _____ GAL. %

ACID TYPE FROM CONFIDENTIAL GAL. %

ACID TYPE _____ GAL. %

SURFACTANT TYPE _____ GAL. IN

NE AGENT TYPE _____ GAL.

FLUID LOSS ADD. TYPE _____ GAL.-LB. DEC 11

GELLING AGENT TYPE _____ GAL.-LB.

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

BREAKER TYPE _____ GAL.-LB. IN

BLOCKING AGENT TYPE _____ GAL.-LB.

PERFAC BALLS TYPE _____ QTY.

OTHER _____

OTHER _____

DEPARTMENT CEMENT

DESCRIPTION OF JOB CEMENT 5 1/2 LONG STRING

JOB DONE THRU. TUBING CASING ANNULUS TBG/ANN

CUSTOMER REPRESENTATIVE X ST

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	110	midcap prem		B	2% C.C. - 1/4" #10 CELLE	2.01	12.8
1	230	prem		B	.9% VERSASET - 6/10" HALAD 322 - 5% KCL	1.58	14
					12 1/2" G. S. S. - 1/4" #10 CELLE		
2	25	midcap prem		B	2% C.C. - 1/4" #10 CELLE	2.01	12.8

SUMMARY

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH BBL.-GAL. 75.8-10-8 H²

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN BBL.-GAL. _____ PAD BBL.-GAL. _____

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT BBL.-GAL. _____ DISP. BBL.-GAL. 149.4

SHUT-IN INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY BBL.-GAL. 41-65

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME BBL.-GAL. _____


ORDERED _____ AVAILABLE _____ USED _____ REMARKS MSD 3 ON LOC. T. NITROGEN SURFACED BLEW WELL

TREATING _____ DISPL. _____ OVERALL _____ T. D. WELLS DONE - VEHICLE ACCIDENT

FEET 43.15 REASON SHOE JT.

JOB LOG HAL-2013-C

CUSTOMER: ANADARKO PETR. CORP. WELL NO.: 73.3 LEASE: GOING JOB TYPE: 5 1/2 LONG STRING TICKET NO.: 106856

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
0830								CALLED OUT - READY 2200
0780								ON WCT. AFTER DOZER CAME AT 2230 DRUG US IN TO WCT STILL LAYING DOWN D.P. ORIGINAL
0330								START CSG IN HOLE
0715								Hook up CMT HEAD -
0730								CIRCULATING TO PIT - SAFETY MEETING
0850								Hook up TO CMT LINE - mix SUPER FLUSH
0858	3.5	70				230		START NITROFIED MUD AHEAD 100 SEC/PS
0924	2.9	8				570		START H ₂ O
0926	2.9	10				620		START Super FLUSH
0929	2.9	8						START H ₂ O
0933	5.6	39.4				730		START LEAD CMT. 12.8 #/GAL
0940	4.6	65				700		START TAIL CMT 14 #/GAL
0954	—	0				0		START OFF WASH UP - DROP PLUG
1000	4.5	140				520		START H ₂ O DISPLACEMENT
1031	2	9.4				100		SLOW RATE - (149.4) BBL TOTAL
1036	—	—				100		PLUG LANDED - FLOAT HELD
1045	2	10				80		Hook up Pump RH & MH -
1100								Job OVER
								
								THANKS FOR CALLING HALLIBURTON ENERGY SERVICES LIBERAL KS. HAVE A GOOD NIGHT & DAY
								MSDS ON LND NITROGEN BLEW TO PIT
								Had QUESTION ON PLUG LANDING ENDED UP LANDING.

RELEASED
OCT 15 1998
FROM CONFIDENTIAL

OPERATIONAL DIVISION



JOB SUMMARY

HALLIBURTON DIVISION W.L. Coate
 HALLIBURTON LOCATION Liberal KS

BILLED ON TICKET NO. 920518
 KCC

WELL DATA

FIELD Dunkle SEC. 35 TWP. 32S RING. 44W COUNTY Montgomery 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	<input checked="" type="checkbox"/>	23	8 5/8	KR	1508	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

CONFIDENTIAL

ORIGINAL

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>inscat / fill up</u>	1	Hurco
FLOAT SHOE		
GUIDE SHOE <u>RCA</u>	1	
CENTRALIZERS <u>RCA</u>	5	
BOTTOM PLUG		
TOP PLUG <u>SW</u>	1	
HEAD <u>PC</u>	1	
PACKER <u>Bracket</u>	1	
OTHER <u>WELFA</u>	1	

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>8-18-96</u> TIME <u>2630</u>	DATE <u>8-18-96</u> TIME <u>0900</u>	DATE <u>8-18-96</u> TIME <u>1314</u>	DATE <u>8-18-96</u> TIME <u>1358</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB./GAL. °API
 DISPL. FLUID _____ DENSITY **RELEASED** LB./GAL. °API
 PROP. TYPE _____ SIZE _____ LB.
 PROP. TYPE _____ SIZE **OCT 1-5-1998**
 ACID TYPE _____ GAL. _____ %
 ACID TYPE _____ GAL. _____ %
 ACID TYPE **FROM CONFIDENTIAL** _____ 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
 DESCRIPTION OF JOB set surface pipe

JOB DONE THRU TUBING CASING ANNULUS TBG/ANN

CUSTOMER REPRESENTATIVE **X** _____
 HALLIBURTON OPERATOR John Ryan COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU FT / 5K	MIXED LBS / GAL
	270	PR P7 722		B	2% CC, 1/4% Flocak	3.72	11.1
	180	PT		B	2% CC, 1/4% Flocak	1.31	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 41.68 REASON Star Joint

SUMMARY

VOLUMES

PRESLUSH. BBL.-GAL. _____ TYPE _____
 LOAD & BKDN. BBL.-GAL. _____ PAD BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISPL. BBL.-GAL. 93.8
 CEMENT SLURRY BBL.-GAL. 155 + 73
 TOTAL VOLUME. BBL.-GAL. _____

REMARKS

CUSTOMER



JOB LOG HAL-2013-C

1-18-96

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
APC		3		Coing B		P10		920518	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	0630							Called out - Requested "Now"	
	0900							On Loc.	
	0950							T.O.H. ORIGINAL	
	1140							Run Csg @ 8 5/8" 23	
	1257							On Bottom @ KB to 1508'	
	1323							Hook-up to circ.	
	1310							Hook-up to cnt.	
								Job procedure	
	1314	0-1 1/2	15.5		✓	↑	0/200	Pump lead	
	1336	6 1/2	23		✓	↓	200/150	Pump tail	
	1340	6 1/2 - 0				↓	150/0	Shot down - Drop plug	
	1342	0 - 6	93.8		✓	↑	0/350	Pump Displ - wash up tsk	
	1356	6 - 2			✓	↓	400/350	Reduce Rate	
	1357	2 - 0			✓	↑	350/1000	Plug Down - 92 bbs in	
	1358				✓	↓	1000/0	Release Press - Float held	
								Cement to surface Approx 10 bbs or 17 sks	
								THANK YOU! DEC 11 CONFIDENTIAL Tom + Tyes + crew	

RELEASED

OCT 15 1998

FROM CONFIDENTIAL