

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15- 129-21458 -0000

County MORTON

SW - SW - NE - NE Sec. 34 Twp. 32 Rge. 40 X W

1250 Feet from (X) (circle one) Line of Section

1250 Feet from (E) (circle one) Line of Section

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

Lease Name BLUCHER "A" Well # 4

Field Name HUGOTON

Producing Formation CHASE

Elevation: Ground 3276.7 KB

Total Depth 2450 PBDT 2414

Amount of Surface Pipe Set and Cemented at 588 Feet

Multiple Stage Cementing Collar Used? Yes X 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 JW 7-20-98
(Data must be collected from the Reserve Pit)

Chloride content NA ppm Fluid volume 400 bbls

Dewatering method used NATURAL EVAPORATION

Location of fluid disposal if hauled offsite:

Operator Name KW 1-14-97

Lease Name DEC 1 0 License No. U

Quarter CON Section 11 Twp. 32 S Rng. 40 E/W

County _____ Docket No. _____

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

X New Well Re-Entry Workover

 Oil SWD SLOW Temp. Abd.

X 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. _____

11-4-96 11-6-96 12-3-96

Spud Date Date Reached TD Completion Date

RELEASED

JAN 29 1999

FROM 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 David W. Kapple

DAVID W. KAPPLE

Title DIVISION DRILLING ENGINEER Date 1/9/97

Subscribed and sworn to before me this 9th day of January 19 97.

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

JAN 14 1996

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name BLUCHER "A" Well # 4

Sec. 34 Twp. 32 Rge. 40 East County MORON
 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-GR.

Log Formation (Top), Depth and Datums Sample

Name	Top	Datum
BLAINE	980	
GLORIETTA	1117	
B/CIMMARON	1538	
KRIDER	2214	
WINFIELD	2333	

07000078

2201 05 WAC

JAN 14 1996

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	588	P+ MIDCON 2/ P+	110/100	2%CC, 1/4#SK FLC/ 2%CC, 1/4#SK FLC.
PRODUCTION	7-7/8	5-1/2	15.5	2450	MIDCON/ MIDCON.	130/90	2%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
2	2358-2372'	ACID: 1500 GAL 7-1/2% FeHCL.	2358-2372'
2	2183-92', 2212-24', 2240-70', 2286-2306'.	ACID: 3500 GAL 7-1/2% FeHCL. FRAC: 46000 GAL FOAMED GEL & 142000#	2183-2306' (OA)
		12/20 SD.	
TUBING RECORD	Size 2-3/8 Set At 2323 Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Date of First, Resumed Production, SWD or Inj. FIRST: 12-19-96		Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf 141.	Water Bbls. 3.	Gas-Oil Ratio	Gravity

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: 2183-2372' (OA)



JOB SUMMARY

HALLIBURTON DIVISION

Mid Continent

KCC

HALLIBURTON LOCATION

Liberal KS

BILLED ON TICKET NO.

106069

WELL DATA

FIELD _____ SEC 34 TWP. 32 RNG. 40 COUNTY Monton STATE KS

FORMATION NAME _____
 FORMATION THICKNESS _____
 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 _____

CONFIDENTIAL

	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>598</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>INSERT/FU</u>	<u>1</u>	<u>Howo</u>
FLOAT SHOE		
GUIDE SHOE <u>REG</u>	<u>1</u>	
CENTRALIZERS <u>12x4</u>	<u>4</u>	
BOTTOM PLUG		
TOP PLUG <u>5W</u>	<u>1</u>	
HEAD <u>P.C</u>	<u>1</u>	
TRIPPER <u>Basket</u>	<u>1</u>	
OTHER <u>Weld</u>	<u>1</u>	

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>11-4-96</u>	DATE <u>11-4-96</u>	DATE <u>11-4-96</u>	DATE <u>11-4-96</u>
TIME <u>1230</u>	TIME <u>1515</u>	TIME <u>1723</u>	TIME <u>1751</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
RELEASED		
JAN 29 1999		
FROM CONFIDENTIAL		
DEC 1 0		
CONFIDENTIAL		

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
 DESCRIPTION OF JOB Set SURFACE PIPE
 JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
 CUSTOMER REPRESENTATIVE X Castillo
 HALLIBURTON OPERATOR Tom Poyer COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
-	<u>110</u>	<u>Mid Con Pt 223</u>		<u>B</u>	<u>3% CC, 1/4 1/2% Flocc</u>	<u>3.22</u>	<u>11.1</u>
	<u>100</u>	<u>Mid Con Pt 2</u>		<u>B</u>	<u>2% CC</u>	<u>1.32</u>	<u>14.8</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

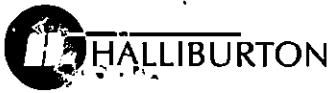
CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL.-GAL. _____ TYPE _____
 BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL. BBL. GAL 35.4
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY (BBL.-GAL.) 60 + 23
 HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____
 ORDERED _____ AVAILABLE _____ USED _____ AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 FEET 44.18 CEMENT LEFT IN PIPE _____ REASON Shoe Joint

REMARKS

Cement for SURFACECUSTOMER: APC LEASE: Blucher WELL NO: A-4 JOB TYPE: Oil DATE: 11-4-96

CUSTOMER APC	WELL NO. A-4	LEASE Blucher	JOB TYPE 010 (S.P.)	TICKET NO. 106069
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1230							Called out - Reg. 1600 CST
	1515							ON loc. - Circle on Bottom
	1545							T.O.H. - safety meeting
	1630							Run csq @ 8 5/8" 23'
	1714							on Bottom @ 598 ft
	1717							Hook up to circ. ORIGINAL
	1723							Hook up to ent.
	1726	0-6	63		✓		↑ 0/100	Pump lead @ 110 sks
	1736	6	23		✓		100	Pump tail @ 100 sks
	1740	6-0					↓ 150/	Shut down - Drop plug
	1741	0-5	35.4		✓		↑ 0/100	Pump Dopl. - wash up talk
	1747	5-3			✓		100/150	Reduce Rate
	1750	3-0			✓		↑ 150/500	Plug Down
	1751				✓		↓ 500/	Release Press - Floort hold
								Cement to Surface Approx: 12 bbls on 21 sks
								Thank you! Tom & Sunny & crew
								KCC
								DEC 10
								CONFIDENTIAL
								RELEASED
								JAN 29 1999
								FROM CONFIDENTIAL



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

mid. cont. Area.
Liberal ks.

BILLED ON TICKET NO. 106315

HCC

WELL DATA

FIELD Hugoton SEC. 34 TWP. 32 RNG. 40 COUNTY Morton STATE ks.

FORMATION NAME Chase 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

CONFIDENTIAL

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>N</u>	<u>15.5</u>	<u>5 1/2</u>	<u>KB</u>	<u>2454</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES			
TYPE AND SIZE	QTY.	MAKE	
FLOAT COLLAR <u>Insert 5 1/2</u>	<u>1</u>	<u>H</u>	
FLOAT SHOE <u>Fillup</u>	<u>1</u>		
GUIDE SHOE <u>Reg.</u>	<u>1</u>	<u>0</u>	
CENTRALIZERS <u>54</u>	<u>13</u>		
BOTTOM PLUG			<u>W</u>
TOP PLUG <u>5W</u>	<u>1</u>		
HEAD <u>P.C.</u>	<u>1</u>		<u>L</u>
PACKER			
OTHER			<u>0</u>

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>11-5-96</u>	DATE <u>11-6-96</u>	DATE <u>11-6-96</u>	DATE <u>11-6-96</u>
TIME <u>2330</u>	TIME <u>0200</u>	TIME <u>0615</u>	TIME <u>0700</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
RELEASED		
JAN 29 1999		
FROM CONFIDENTIAL		

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 cont
DESCRIPTION OF JOB 5MT 5 1/2 L.S.
JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.
CUSTOMER REPRESENTATIVE X Pastelto
HALLIBURTON OPERATOR Jye Davis COPIES REQUESTED

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>130</u>	<u>PTMC</u>		<u>B</u>	<u>290cc 1/4" F10</u>	<u>3.22</u>	<u>11.1</u>
<u>1</u>	<u>90</u>	<u>PTMC</u>		<u>B</u>	<u>"</u>	<u>2.0</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

PRESLUSH: (BBL) GAL. 26 TYPE H²O ESF
LOAD & BKDN: BBL.-GAL. PAD: BBL.-GAL.
TREATMENT: BBL.-GAL. DISPL: (BBL) GAL. 57.3
CEMENT SLURRY: (BBL) GAL. 74.5 L.C. 32 F.C.
TOTAL VOLUME: BBL.-GAL.

REMARKS

CUSTOMER Madarko
LEASE Blucher
WELL NO. A-4
JOB TYPE 5 1/2 L.S.
DATE 11-6-96

CUSTOMER Amstarco	WELL NO. A-4	LEASE Blucher	JOB TYPE 5 1/2 L.S.	TICKET NO. 106315
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
11-5-96	2330							Called out For job.
11-6-96	0200							ON LOC. Rig. L.D.O.P.
	0430							Start 5 1/2 csg. & P.E.
	0552							CSG on BOA Hook up 5 1/2 P.C. & Circ Iron to rig.
	0600							brk circ. w/ Rig. ORIGINAL
	0602							circ. to fix
	0615							Thru. circ. Hook Iron to P.T
	0618	4.0	8				150	pump 8 bbl H ₂ O
	0620	4.0	10				170	pump SF
	0622	4.5	8				170	pump H ₂ O
	0624	6.0	74.5				230	pump 1305x mcft at 11.1 #189'
	0634	6.5	32				150	pump 905x mcft at 12.8 #189'
	0640	0	32				0	thru mixing. Shut down prop plug.
	0643	6.5	57.4				100	pump DISP.
	0652	2.0	57.4				320	47 bbls in 5 to rate
	0657	2.0	57.4				450	Land plug.
	0658	0	57.4				1000	Release psi - Float - Held.
	0700	0	57.4				0	Job over
								Thanks for calling Tyce sonny mike
								max lift before landing plug 450 psi
								DEC 10 CONFIDENTIAL