

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: J. L. ASHTON

Phone (316) 624-6253

Contractor: Name: CHEYENNE DRILLING

License: 5382

Wellsite Geologist: NA

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

1-24-97 1-26-97 3-22-97
Spud Date Date Reached TD Completion Date

API NO. 15- 129-21480-00-00

County MORTON

SW - SW - NE - NE Sec. 34 Twp. 33 Rge. 41 E W

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

1250 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 USA HARMAN "A" Well # 2H

Field Name HUGOTON

Producing Formation CHASE

Elevation: Ground 3360.0 KB _____

Total Depth 2450 PBSD 2140

Amount of Surface Pipe Set and Cemented at 588 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 Att. 1 - 2-2-98 v.c.
(Data must be collected from the Reserve Pit)

Chloride content 6000 ppm Fluid volume 400 bbls

Dewatering method used LET DRY, BACKFILL & RESTORE

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

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

County _____ Docket No. _____

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MAY 30 4:40 PM '97
5-30-97

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 5-27-97

Subscribed and sworn to before me this 27th day of May 19 97.

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)

ORIGINAL

SIDE TWO

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name USA HARMAN "A" Well # 2H

Sec. 34 Twp. 33S 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 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, CNL-LDT, ML; CBL-CCL-GR.

<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample		
Name	Top	Datum
GLORIETTA	1050-1194	
B/STONE CORRAL	1464	
HERRINGTON	2122	
KRIDER	2140	
WINFIELD	2214	
TOWANDA	2258	

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	588	P+ MIDCON/P+	80/100	3%CC, 1/4#SK FLC/2%CC, 1/4#SK FLC.
** PRODUCTION	7-7/8"	5-1/2"	15.5	2441	P+ MIDCON	110	2%CC, 1/4#SK FLC.

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
<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	2216-2220, 2228-2230, 2237-2240. CIBP @ 2140
6	2023-2030.	ACID: 500 GAL 7 1/2% FeHCL.	2023-2030
		FRAC: 16500 GAL FOAMED KCL WTR &	2023-2030
		51000# 12/20 SD.	

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

Date of First, Resumed Production, SWD or Inj. FIRST 4-3-97 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		252	0		

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 2023-2030

LMH

ORIGINAL

ANADARKO PETROLEUM CORPORATION
USA HARMON A-2H
SECTION 5-T34S-R41W
MORTON COUNTY, KANSAS

15-129-21480

COMMENCED: 01-24-97
COMPLETED: 01-27-97

SURFACE CASING: 588' OF 8 5/8" CMTD
W/110 SKS MIDCON 3 + 3% CC + 1/4# SK
FLOCELE. TAILED IN W/100 SKS PREMIUM
PLUS + 2% CC + 1/4 #/SK FLOCELE.

FORMATION	DEPTH
SURFACE HOLE	0 - 588
RED BED	588 - 1050
GLORIETTA	1050 - 1205
RED BED	1205 - 2210
RED BED, LIMESTONE & SHALE	2210 - 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.

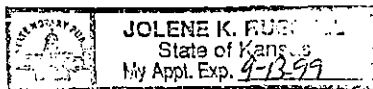


WRAY VALENTINE

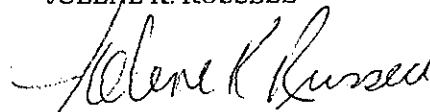
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1997 MAY 30 A 1:46

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 28TH DAY OF JANUARY, 1997.



JOLENE K. RUSSELL


NOTARY PUBLIC



JOB SUMMARY

HALLIBURTON DIVISION MFO CONT.
 HALLIBURTON LOCATION LIBERNI KS

BILLED ON TICKET NO. 185210

WELL DATA

FIELD _____ SEC 34 TWP. 33S 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	<u>N</u>	<u>23</u>	<u>8 5/8</u>	<u>K.A</u>	<u>588</u>	
LINER						
TUBING						
OPEN HOLE			<u>12 1/4 G.C.</u>	<u>588</u>		SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

TOOLS AND ACCESSORIES		
TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>ZUSSAT w/PTII</u>	<u>1</u>	<u>HOWCO</u>
FLOAT SHOE		
GUIDE SHOE <u>REG.</u>	<u>1</u>	
CENTRALIZERS <u>S-4</u>	<u>4</u>	
BOTTOM PLUG		
TOP PLUG <u>S-WASPER</u>	<u>1</u>	
HEAD <u>GC PC</u>	<u>1</u>	
PACKER <u>CMT BASKET</u>	<u>1</u>	
OTHER <u>WELD-A</u>	<u>1</u>	

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>1-24-97</u>	DATE <u>1-24-97</u>	DATE <u>1-24-97</u>	DATE <u>1-24-97</u>
TIME <u>14:00</u>	TIME <u>16:30</u>	TIME <u>19:53</u>	TIME <u>20:26</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION

RECEIVED
 KANSAS SURFACE COMPANY
 JAN 24 1997
 1146

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. _____
 PERFFAC BALLS TYPE _____ QTY. _____
 OTHER _____
 OTHER _____

DEPARTMENT 5001 CMT
 DESCRIPTION OF JOB 8 5/8 SURFACE
 JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN
 CUSTOMER REPRESENTATIVE X Castello
 HALLIBURTON OPERATOR ROBERT ELWOOD COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK	MIXED LBS./GAL
	<u>110</u>	<u>P+ MIDCON</u>		<u>B</u>	<u>3 1/2 C.C., 1/4 #/SK Floccle</u>	<u>3.22</u>	<u>11.1</u>
	<u>100</u>	<u>P+</u>		<u>B</u>	<u>2 1/2 C.C., 1/4 #/SK Floccle</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
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY BBL.-GAL. 63 + 25
 HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____
 ORDERED _____ AVAILABLE _____ USED _____ REMARKS _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET 42.01 REASON SHOC JOINT

CUSTOMER AMARCO Petroleum Corp. U.S.A. Haeman WELL NO. A-211 JOB TYPE 8 5/8 SURFACE DATE 1-24-97

JOB LOG HAL-2013-C

CUSTOMER Anadarko Pet. Corp.	WELL NO. A-2H	LEASE USA Harmon	JOB TYPE 8 5/8 SURFACE	TICKET NO. 185210
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	14:00							Called out Ready 17:00
	16:30							on loc Rig Palg
	18:30							T.D.
	18:35							L.D.D.C. ORIGINAL
	19:10							START CSG
	19:43							CSG ON Bottom
	19:49							Circulate with Rig
	19:53							Hook to HALLIBURTON
	19:57	5.25	63			150		START LEAD CMT @ 11.1 #/gal
	20:09	4.70	23.5			125		START TAIL CMT @ 14.8 #/gal
	20:14					125		SHUT DOWN
	20:15							VAC Drop 5 WIPER Top Plug
	20:15	5	35			100		START Displacement/WASH ^{PUMPS} _{LENDS}
	20:20	2	10			125		SLOW RATE
	20:25					200		Plug Down
	20:26					600		Release BACK FLOAT HOLDING
	20:27					0		Job Complete

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~~CMT CIRCULATED TO TOP~~ ✓
 14 BBL'S
 24 SKS

THANK YOU FOR CALLING
 HALLIBURTON
 ROBERT, DANNY, SAM



JOB SUMMARY

HALLIBURTON DIVISION

HALLIBURTON LOCATION

Mid Cont
Liberal Ks

BILLED ON TICKET NO.

185125

WELL DATA

FIELD _____ SEC. _____ TWP. _____ RNG. _____ 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		15.3	5 1/2	KB	2447	
LINER						
TUBING						
OPEN HOLE			7 7/8	588	2450	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

TOOLS AND ACCESSORIES		
TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>Tangent Float</u>	<u>1</u>	<u>Hercy</u>
FLOAT SHOE <u>Elliptical</u>	<u>1</u>	
GUIDE SHOE <u>Reg</u>	<u>1</u>	
CENTRALIZERS	<u>20</u>	
BOTTOM PLUG		
TOP PLUG	<u>1</u>	
HEAD	<u>1</u>	
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>1-26</u>	DATE <u>1-26</u>	DATE <u>1-26</u>	DATE <u>1-26</u>
TIME <u>1800</u>	TIME <u>1815</u>	TIME <u>2200</u>	TIME <u>2315</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>D. Goe</u>	<u>42041</u>	<u>Liberal Ks</u>
<u>R. Crist</u>		<u>"</u>
<u>L. Peterson</u>	<u>4115 / 15237</u>	<u>Horton Ks</u>
	<u>1991 MAY 30 A 1</u>	<u>RECEIVED KANSAS CORP COMM</u>

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. _____
 PERFPAC BALLS TYPE _____ QTY. _____
 OTHER _____
 OTHER _____

DEPARTMENT Cement
 DESCRIPTION OF JOB 5 1/2 Pencil String
 JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
 CUSTOMER REPRESENTATIVE X Castillo
 HALLIBURTON OPERATOR Dennis Corp COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU FT /SK	MIXED LBS./GAL.
	<u>110</u>	<u>Pem Plus</u>	<u>McLcon</u>	<u>2% CC</u>	<u>1/4# Fleche</u>	<u>3.22</u>	<u>11.1</u>
	<u>130</u>	<u>Pem Plus</u>	<u>McLcon</u>	<u>2% CC</u>	<u>1/4# Fleche</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

PRESLUSH: BBL.-GAL. 7.8 VOLUME 8 GPM / H2O
 LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISPL BBL.-GAL. 57.23
 CEMENT SLURRY: BBL.-GAL. 109.62
 TOTAL VOLUME: BBL.-GAL. _____

REMARKS

CUSTOMER Amelcarco Petro
 LEASE Havenman USA
 WELL NO. A 2-H
 JOB TYPE 5 1/2 Pencil String
 DATE 1-26-97

JOE LOG 2AL-2013-C

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
Amadiro Pecos	A 2, H	HARMON, USA	5 1/2 Prod. String	185125

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1600							Time Called
	1900							Time Ready
								Time on loc.
	2045							Start Pumping Casing
	2200							Casing in Hole
	2200							Hook up To Circulate Casing
	2210							Circulate Casing w/ Pig of Air
	2212							Circulate Mud To Central Level
	2228							Hook up To Pump Truck
2232	2230	5	8			380		Start Water Ahead
	2234	/	10			380		Start Super Flush
	2236	/	8			350		Start Water Behind
	2238					350		Start Mixing Cement
	2252		63.08			250		Start Tail Cement
	2256		46.58			250		Finish Mixing Cement
	2257		109.62			250		Shut Down
	2300					175		Start Displacement
	2315		57.23			625		Plug Down
						1000		Plug Down
								Float Held
								Circulate A Trace
								OF Cement To P.T

ORIGINAL

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 1997 MAY 30 A 1:16

Thanks For Calling Halliburton
 Dennis Cooper & Crew