

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

11-20-96 11-30-96 1-3-97  
Spud Date Date Reached TD Completion Date

API NO. 15- 175-21579-00-00

County SEWARD

-APPX - S/2 - NE Sec. 23 Twp. 34 Rge. 34  E  W

1980 Feet from  (circle one) Line of Section

1345 Feet from  (circle one) Line of Section

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

Lease Name UNDERWOOD "A" Well # 4

Field Name ADAMSON

Producing Formation LOWER MORROW

Elevation: Ground 2902.5 KB --

Total Depth 6650 PBSD 6495

Amount of Surface Pipe Set and Cemented at 1629 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 97 8-20-97  
(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: \_\_\_\_\_

Operator Name 2-25-97

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

\_\_\_\_\_ Quarter Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_

County \_\_\_\_\_ Docket No. \_\_\_\_\_

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INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 W. 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 2/21/97

Subscribed and sworn to before me this 21st day of February 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)

ORIGINAL

SIDE TWO

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

Sec. 23 Twp. 34 Rge. 34  East County SEWARD  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, SONIC, SBT-CCL-GR.

Name	Top	Datum
CHASE	2632	
COUNCIL GROVE	2938	
HEEBNER	4294	
LANSING	4515	
MARMATON	5228	
MORROW	5816	
CHESTER	6144	
STE. GENEVIEVE	6453	
ST. LOUIS	6534	

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	1629	P+ MIDCON 2/ P+	305/100	3%CC, 1/4#SK FLC/ 2%CC, 1/4#SK FLC.
PRODUCTION	7-7/8	5-1/2	15.5	6549	VERSASET	160	3%CC, .6% HALAD 322 5% KCL, 1/4#SK FLC, 9% VERSASET

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	6098-6104, 6108-6121.	ACID: 1200 GAL 7-1/2% FEHCL	6098-6121 (OA)
		FRAC: 30100 GAL FOAMED GEL & 134000#	6098-6121 (OA)
		16/30 SD.	

TUBING RECORD	Size 2-3/8	Set At	Packer At 6066	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Inj. FIRST: 1-27-97 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf 920.	Water Bbls. 22	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: 6098-6126 (OA)



CUSTOMER APC	WELL NO. A-4	LEASE Underwood	JOB TYPE 8 5/8 S.P.	TICKET NO. 107351
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0600							called out for job.
	0800							on loc. rig drilling.
	0940							Thru drilling - S.B.D.P.
	1030							out of hole w/dp rig up casers.
	1050							start 8 5/8 casing i.f.e.
								ORIGINAL
	1144							CSB on BOB HOOK UP 8 5/8 P.C. & circ iron.
	1148							brk circ. wiring pump.
	1150							circ to pit
	1152							Thru. circ HOOK iron to P.T.
	1153	7.0	175		✓	200		Pump 305sx Pcmc 30cc 1/4" F10 at 11.15%
	1216	6.0	23.5		✓	110		pump 100sx pf 290cc 1/4" F10 at 14.8% 1/241
	1221	0	23.5		✓	0		Thru mixing shut down drop plug
	1222	6.0	102.4		✓	100		pump disp.
	1236	6.0	102.4		✓	260		84 bbls disp. cmt to pit
	1238	3.0	102.4		✓	290		90 bbls disp. 510 skate
	1241	2.0	102.4		✓	<del>300</del> <del>800</del>		Land plug.
	1242	0	102.4		✓	<del>800</del> 0		Release psi - float held
	1245							job over
								Thanks for calling. Halliburton Tye Sonny & crew.
								18 bbls cmt to pit 31sx cmt to pit psi before landing plug 300

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WELL DATA  
FIELD \_\_\_\_\_ SEC 23 TWP 34 S RNG 34 COUNTY Seward 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		155	5 1/2	K13	6547	
LINER						
TUBING						
OPEN HOLE			7 7/8		6647	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**ORIGINAL**

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>5 1/2</u> <u>Reset Float</u>	<u>1</u>	<u>Hercos</u>
FLOAT SHOE <u>5 1/2</u> <u>Fill Up</u>	<u>1</u>	
GUIDE SHOE <u>5 1/2</u> <u>Po</u>	<u>1</u>	
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG	<u>1</u>	
HEAD		
PACKER		
OTHER		

**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 <u>11-30</u>	DATE <u>11-30</u>	DATE <u>12-1</u>	DATE <u>12-1</u>
TIME <u>1830</u>	TIME <u>2030</u>	TIME <u>0450</u>	TIME <u>0730</u>

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION
<u>Clare</u>	<u>420041</u>	<u>Ward Ks</u>
<u>Clay</u>	<u>52938</u>	<u>"</u>
<u>G. Lewis</u>	<u>35066</u>	<u>Horton Ks</u>

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DEPARTMENT Cement  
DESCRIPTION OF JOB 5 1/2 Red Stag

JOB DONE THRU: TUBING  CASING  ANNULUS  TBC/ANN.

CUSTOMER REPRESENTATIVE X  
HALLIBURTON OPERATOR Dennis G. B. R. COPIES REQUESTED \_\_\_\_\_

**CEMENT DATA**

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>160</u>	<u>Premium</u>	<u>Verset</u>		<u>0.6% Haled 322 5% PCL 9/10/08 Verset 1.41</u>		<u>14.5</u>
	<u>25</u>	<u>Prem</u>			<u>17% PCL - Mouse Hole</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 414 REASON Stop Job

**SUMMARY**

PRESLUSH: BBL.-GAL. 3 BBL / 435 VOLUMES 134 TYPE SE  
LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL BBL.-GAL. 155  
CEMENT SLURRY: BBL.-GAL. 40.1  
TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

REMARKS \_\_\_\_\_

CUSTOMER \_\_\_\_\_ LEASE Underwood WELL NO. H JOB TYPE 5 1/2 long string DATE \_\_\_\_\_



JOB LOG HAL-2013-C

CUSTOMER <b>Amstarco Retco</b>	WELL NO. <b>A</b>	LEASE <b>Underwood</b>	JOB TYPE <b>5/8 Prod Stag.</b>	TICKET NO. <b>107293</b>
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1830							Time Collected
	2230							Time Ready Time outloc.
								<b>ORIGINAL</b>
								START Pump Casing.
	0445							Casing in Hole
	0450							Hook Up To Circulate Casing
	0500							Circulate Casing w/req Pump
	0502							Circulate Mud To Ground Level
	0615/0625		2.5/3.5					Plg Bot Hole w/15 <sup>st</sup> Mouse Hole 10 <sup>st</sup>
	0625							Hook Up To Pump Truck
	0630	5	8				450	Start Water Ahead.
	0632	/	10				450	Start Super Flush
	0634	/	8				450	Start Water Behind.
	0636	6.2					450	Start MUD Cement
	0641	/	140 <sup>+</sup>				350	Finish MUD Cement
	0643	/					320	SLIT Down
	0645	6					250	Start Displacement
		3.4	155					wash Pump's throes
	0730						520	Plug Down
								Circulate Fluid out close.
								Didn't get Plg Down Pump Down 135 eff SLIT Down. Fluid Hdd.
								Thanks For Calling Halliburton D. Davis E. [unclear] C. [unclear]

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