

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: DAVID W. KAPPLF

Phone (.316.) 624-6253

Contractor: Name: NORSEMAN DRILLING

License: 3779

Wellsite Geologist: _____

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SIOH 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 PBDT

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

10-8-97 10-11-97 11-25-97

Spud Date Date Reached TD Completion Date

API NO. 15- 189-22231-00-00

County STEVENS

SE - SE - NW - NW Sec. 28 Twp. 34 Rge. 3B X W

1250 Feet from NX (circle one) Line of Section

1250 Feet from XW (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE, SE, NW or SW (circle one)

Lease Name MORRIS "A" Well # 2

Field Name HUGOTON

Producing Formation CHASE

Elevation: Ground 3255.1 KB _____

Total Depth 3100 PBDT 3027

Amount of Surface Pipe Set and Cemented at 635 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, 5-12-98 U.C.

(Data must be collected from the Reserve Pit)

Chloride content 2000 ppm Fluid volume 400 bbls

Dewatering method used DRY, BACKFILL & RESTORE LOCATION.

Location of fluid disposal if hauled offsite: _____

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 L. Marc Harvey

L. MARC HARVEY

Title DRILLING TECHNICAL ASSISTANT Date 1-30-98

Subscribed and sworn to before me this 30th day of January 19 98.

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

RECEIVED

Distribution _____

KCC SWD/Rep NGPA

KGS Plug Other

FEB 2 1998 (Specify)

SIDE TWO

JAN 1970

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name MORRIS-"A" Well # 2

Sec. 28 Twp. 34 Rge. 38 East County STEVENS
 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	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	GLORIETTA	1218-1430	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	B/CIMARRON ANHY.	1790	
List All E.Logs Run: CBL-CCL-GR.		HERRINGTON	2641	
		KRIDER	2666	
		WINFIELD	2770	
		TOWANDA	2828	
		FT. RILEY	2879	

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	635	P+ MIDCON 2/ P+	80/100	3%CC, 1/4#SK FLC/ 2%CC, 1/4#SK FLC.
PRODUCTION	8-3/4"	5-1/2"	15.5	3085	P+ MIDCON 2/ P+ MIDCON 2.	180/130	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	
	1	2679-2688, 2712-2731.5, 2773-2789.5,	ACID: 750 GAL 7% FeHCL.	2884-2908
	2828-2867, 2884-2908.	ACID: 3000 GAL 7% FeHCL.	2679-2908 (OA)	
		FRAC: 89700 GAL FMD GEL & 360000# 12/20 SD	2679-2908 (OA)	
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. 12-13-97	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 854	Water Bbls. 0	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: 2679-2908 (OA)



JOB SUMMARY 4239-1

REGION North America	NWA/COUNTRY	TICKET # 230935	TICKET DATE 10/9/97
MBU ID / EMP # LI0104	EMPLOYEE NAME Mid Cont	BDA / STATE KS	COUNTY STEVENS
LOCATION LIBERAL	COMPANY Melvin Fox	PSL DEPARTMENT CEMENT	CUSTOMER REP / PHONE Steve Ridewood
TICKET AMOUNT	WELL TYPE ANADARKO	API / UWI #	JOB PURPOSE CODE 010
WELL LOCATION 6164517	DEPARTMENT CEMENT		
LEASE / WELL # Merrill # 117	SEC / TWP / RNG 20/34S/38W		

ORIGINAL

HES EMP NAME/EMP#(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#(EXPOSURE HOURS) HRS
M FOX E0423			
B Tomlinson J1832			
K PA HELLSON H 8760			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
53824E							
52938-7131							
50866-75237							

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
10/8	10/8	10/8	10/9	10/9
TIME 2030	2330		0830	0205

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe	1	Howco
Centralizers	4	Howco
Bottom Plug		
Top Plug	1	Howco
Head Packer	1	Howco
Other		

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing		23	8 5/8	0		
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

MATERIALS

Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
Prop. Type	Size	Lb.
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	in
NE Agent	Gal.	in
Fluid Loss	Gal/Lb	in
Gelling Agent	Gal/Lb	in
Fric. Red.	Gal/Lb	in
Breaker	Gal/Lb	in
Blocking Agent	Gal/Lb	
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				SURFACE PIPE
TOTAL		TOTAL		

ORDERED _____ HYDRAULIC HORSEPOWER _____
 Avar. _____ Used _____
 TREATED _____ AVERAGE RATES IN BPM _____
 Disp. _____ Overall _____
 FEET _____ CEMENT LEFT IN PIPE _____
 Reason _____

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	80	P. Midcon		3% CC 1/2 SK Floc 1E	3.27	16.1
	100	Perm Plus		2% CC 1/2 SK Floc 1E	1.34	14.8

Circulating _____ Displacement _____ 41 BBL _____
 Breakdown _____ Maximum _____
 Average _____ Frac Gradient _____
 Shut In: Instant _____ 5 Min _____ 15 Min _____

Preflush: Gal - BBI _____ Type _____
 Load & Bkdn: Gal - BBI _____ Pad: BBI - Gal _____
 Treatment: Gal - BBI _____ Disp: BBI - Gal _____
 Cement Slurr: Gal - BBI _____
 Total Volume: Gal - BBI _____ Lead 45 _____ Tail 24 _____

Frac Ring #1	Frac Ring #2	Frac Ring #3	Frac Ring #4
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THE INFORMATION STATED HEREIN IS CORRECT CUSTOMER'S REPRESENTATIVE SIGNATURE



JOB LOG 4239-5

TICKET # 234935	TICKET DATE 10/9/97
REGION North America	NWA/COUNTRY Mid Cont.
BDA / STATE Ks	COUNTY STEVENS
MBU ID / EMP # LJ0104	EMPLOYEE NAME MELVIN FOX
LOCATION LIBERAL	COMPANY ANADARKO
TICKET AMOUNT	WELL TYPE GAS OIL
WELL LOCATION SITE 5817A	DEPARTMENT CEMENT
LEASE / WELL # Morris #A-2	SEC / TWP / RNG 18/34S/38W
PSL DEPARTMENT CEMENT	CUSTOMER REP / PHONE STUE RIDEAOUR
API / UWI #	JOB PURPOSE CODE 010

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
M FOX 50423			
B TOMLINSON 31832			
L PATTERSON 118760			

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	2030							Called out
	2330							on LOC
	0030							Hook up to CIRC.
	0100							Hook up HEAD & CIRC
	0134	6.0	45					Pump LEAD CMT 11.1#
	0141	6.0	24					Pump TAIL 14.8#
	0146							Drop Plug
	0148	6.0	41					DISPLACE
	0154		30					CIRC. CEMENT w/30 BBL Dis. OUT
	0156					240		Plug Down -float Hold
								1 CIRC. 11 BBL to Pit ✓
								THANKS FOR CALLING OUR CO HALLIBURTON
								M FOX B TOMLINSON & L. PATTERSON
								RECEIVED
								FEB 2 1998
								OPERATION DIVISION



JOB SUMMARY 4239-1

TICKET #	231860	TICKET DATE	10-12-97
BDA / STATE	Ks	COUNTY	STEVENS
PSL DEPARTMENT	5001 Cmt	CUSTOMER REP / PHONE	5890
API / UWI #		JOB PURPOSE CODE	035

REGION	North America	NWA/COUNTRY	U.S.A.
MBUID / EMP #		EMPLOYEE NAME	
LOCATION	Leocal Ks	COMPANY	ANADARKO
TICKET AMOUNT		WELL TYPE	02
WELL LOCATION	S. FERRATA 15	DEPARTMENT	5001 Cmt
LEASE / WELL #	Moore A-2	SEC / TWP / RNG	

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
R. ELLIOTT 04360	M. G. FLOYD 3		
S. RAINES 11377			
S. TELFORD 44137			

ORIGINAL

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
38040 PU	66						
52938-7131	66						

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE	10-11-97	10-11-97	10/12/97	10/12/97
TIME	18:00	22:00	0357	0436

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe		
Centralizers		
Bottom Plug		
Top Plug		
Head		
Packer		
Other		

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	13.5	5 1/2	KB	3102	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole			7 7/8	6.6	3100	SHOTS/FT.
Perforations						
Perforations						
Perforations						

MATERIALS

Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
Prop. Type	Size	Lb.
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	
Perpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				5 1/2" length string
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER
 ORDERED Avail. _____ Used _____
AVERAGE RATES IN BPM
 TREATED Disp. _____ Overall _____
CEMENT LEFT IN PIPE
 FEET Reason _____ 5 HOE EXIST

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	RECEIVED	YIELD	LBS/GAL
	180	P+M	B	24 C.C., 1/4" High Flocc		2.0	12.1
	120	P+M	B	24 C.C., 1/4" High Flocc		2.0	12.8
	25	P+M	B	PIV, RAT & Fluore Holes	FEB 2 1998		

Circulating _____ Displacement _____ Preflush: Gal - (BB) _____
 Breakdown _____ Maximum _____ Load & Bkdn: Gal - (BB) _____
 Average _____ Frac Gradient _____ Treatment Gal - (BB) _____
 Shut In: Instant _____ 5 Min _____ 15 Min _____ Cement Slurr Gal - (BB) _____
 Total Volume Gal - (BB) _____

Frac Ring #1	Frac Ring #2	Frac Ring #3	Frac Ring #4
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THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE



JOB LOG 4239-5

TICKET #	231810	TICKET DATE	11-12-97
REGION	North America	BDA / STATE	
NWA/COUNTRY	USA	COUNTY	
MBU ID / EMP #		PSL DEPARTMENT	
LOCATION		CUSTOMER REP / PHONE	
TICKET AMOUNT		API / UWI #	
WELL LOCATION		DEPARTMENT	
LEASE / WELL #		SEC / TWP / RNG	
JOB PURPOSE CODE			

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS

CHART NO.	TIME	RATE (BPM)	VOLUME (BB)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	2000							CALLING OUT READY 2130
	2200							ON LOC RIG LAYING DOWN DRILL PIPE
	0020							START Csg
	0319							Hook up to Circ & Plug Manifold at Hat Hole
	0349		30					Pump Spacers & Super Flush
	0357		103					Pump Lead Cont, @ 11.1"
	0409		46					Pump Test 1 Cont @ 14.8"
	0419							Para Plug
	0421		73					Displace
	0436					730		Plug Down Float Hold

ORIGINAL

Thanks for calling Halliburton
M For a CCFW

~~J.D. 570~~

REMOVED

FEB 2 1998

CONVENTION DIVISION
Wichita, Kansas