

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. KAPPLE

Phone (316) 624-6253

Contractor: Name: NORSEMAN DRILLING

License: 3779

Wellsite Geologist: _____

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: _____

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. _____

9-4-97 9-7-97 10-30-97
Spud Date Date Reached TD Completion Date

API NO. 15- 189-22233-00-00

County STEVENS

NW - NW - NE - SE Sec. 24 Twp. 34 Rge. 38 X W E

2440 Feet from X (circle one) Line of Section

1250 Feet from X (circle one) Line of Section

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

Lease Name ELLIOT "A" Well # 2H

Field Name HUGOTON

Producing Formation CHASE

Elevation: Ground 3171.8 KB _____

Total Depth 3050 PBSD 2997

Amount of Surface Pipe Set and Cemented at 729 Feet

Multiple Stage Cementing Collar Used? Yes NO No

If yes, show depth set 12-1-97 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan AH.1 4-21-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 2500 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 11-25-97

Subscribed and sworn to before me this 25th day of November
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)

SIDE TWO

JAN 1980

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

Sec. 24 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 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-CCL-GR, DIL, CNL-LDT.

Log Formation (Top), Depth and Datums Sample

Name	Top	Datum
GLORIETTA	1196-1390	
B/CIMARRON	1758	
HERINGTON	2602	
KRIDER	2632	
WINFIELD	2726	
TOWANDA	2782	
FT. RILEY	2842	

CASING RECORD							
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"	9-5/8"	32.3	724	P+ MIDCON 2/ P+	60/100	2%CC, 1/4%SK FLC/ 2%CC, 1/4%SK FLC.
PRODUCTION	8-3/4"	7"	23.0	3050	P+ MIDCON 2/ P+ MIDCON 2.	150/110	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
___ Perforate				
___ Protect Casing				
___ Plug Back TD				
___ 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	2604-2614, 2643-2649, 2678-2688, 2730-2740,	ACID: 750 GAL 7% FeHCL.	2844-2859
	2791-2801, 2804-2829, 2844-2859.	ACID: 2500 GAL 7% FeHCL.	2604-2859 (OA)
		FRAC: 91000 GAL FMD GEL & 352000# 12/20 SD	2604-2859 (OA)

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-3/8	2579		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj.	Producing Method
10-31-97	<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	Water Bbls.	Gas-Oil Ratio	Gravity
		363			

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Conmingled Other (Specify) _____

Production Interval: 2604-2859 (OA)



JOB SUMMARY 4239-1

TICKET #	234636	TICKET DATE	9.4.97
BDA / STATE	KJ	COUNTY	Jackson
PSL DEPARTMENT	CMT		
CUSTOMER REP / PHONE			
API / UWI #			
JOB PURPOSE CODE	010		

REGION	North America	NWA/COUNTRY	USA
MBU ID / EMP #	L10103 F4550	EMPLOYEE NAME	Tyce Davis
LOCATION	Liberal	COMPANY	Amador Co.
TICKET AMOUNT		WELL TYPE	02
WELL LOCATION	Land	DEPARTMENT	CMT
LEASE / WELL #	F11101	SEC / TWP / RNG	24-34-38

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
S. Tapp E0568							
C. Hilliard J1714							

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
52823-75314	60						
470047	60						
50502-66475508	20						

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

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar 2 7/8	1	H
Float Shoe 2 7/8	1	
Guide Shoe 2 7/8	1	U
Centralizers 5/8	4	
Bottom Plug		W
Top Plug 5/8	1	
Head 2 7/8	1	C
Packer		
Other 30501	1	0

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 _____		

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
	9-4-97	9-4-97	9-4-97	9-4-97
TIME	1130	1530	1815	1830

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	W	32.3	9 5/8	KB	235	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

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

ORDERED _____ Avail. _____ Used _____
TREATED _____ AVERAGE RATES IN BPM _____
Disp. _____ Overall _____
CEMENT LEFT IN PIPE _____
Reason S.J

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	60	300cc	B	300cc 1/4" 170	3.22	11.1
1	100	80	B	200cc 1/4" 170	1.32	14.0

Circulating _____	Displacement _____	Preflush: _____	Gal - BBI _____	Type _____
Breakdown _____	Maximum _____	Load & Bkdn: _____	Gal - BBI _____	Pad: BBI - Gal _____
Average _____	Frac Gradient _____	Treatment _____	Gal - BBI _____	Disp: (BBI) Gal 54.3
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr _____	Gal (BB) 34.1	23.5 f.c.
		Total Volume _____	Gal - BBI _____	

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE _____



JOB LOG 4239-5

REGION North America	NWA/COUNTRY USA	TICKET # 234636	TICKET DATE 7-11-97
MBU ID / EMP # 17001 FH550	EMPLOYEE NAME TYCE, SAMPY	BDA / STATE TX	COUNTY DALLAS
LOCATION L.B. ...	COMPANY Halliburton	PSL DEPARTMENT CMT	CUSTOMER REP / PHONE
TICKET AMOUNT	WELL TYPE ...	API / UWI #	
WELL LOCATION L... ..	DEPARTMENT CMT	JOB PURPOSE CODE DTC	
LEASE / WELL # ...	SEC / TWP / RNG 24 34 32		

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
...

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1130		6.0					Called out for job
	1530		6.0					on loc KID DRIB.
	1605	5.5	2.0					Start S.B.-D.P.
	1700							out of hole W.D.P. KID UP CASERS.
	1715							Start 9 3/8 C.S. & F.E.
	1750							C.S. on BOH. Hook up 9 3/8 P.C. & circ. Iron.
	1756							brk circ. W/KID.
	1758							circ. to P.T.
	1800							Thru. circ. Hook Iron to P.T.
	1803	5.5	3.4		✓	115		PUMP 600x PT MC at 11.1 8/1441
	1810	5.5	23.5		✓	110		PUMP 1000x PT at 14.8 8/1441
	1814	0	23.5		✓	0		Shut down DRIP PLUG.
	1815	6.0	54.3		✓	100		PUMP DISP.
	1825	2.0	54.3		✓	230		48 bbis in cmt to KID ✓
	1825	2.0	54.3		✓	230		48 bbis in S10 rate.
	1827	2.0	54.3		✓	250		Land plug.
	1828	0	54.3		✓	600		Release PSI - Float Held.
	1830							Job out.
								Thanks for calling.
								TYCE SAMPY & CREW

RECEIVED
 HALLIBURTON
 197/17/31
 P. J.



JOB SUMMARY 4239-1

TICKET # 234838	TICKET DATE 9-8-97
BDA / STATE KS	COUNTY Stevens
PSL DEPARTMENT Cement	
CUSTOMER REP / PHONE	
API / UWI # 15-1892-2233	
JOB PURPOSE CODE 035	

REGION North America	NWA/COUNTRY Mid Continent
MBU ID / EMP # L70101 G3601	EMPLOYEE NAME D. McKane
LOCATION Liberal	COMPANY Anadarko Petroleum
TICKET AMOUNT	WELL TYPE 02
WELL LOCATION Land	DEPARTMENT Cement
LEASE / WELL # Elliot A-2H	SEC / TWP / RNG 24 34S 38W

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
F. McDonald #19255			
S. Tel. Scott #4817			

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

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

TOOLS AND ACCESSORIES		
TYPE AND SIZE	QTY	MAKE
Float Collar Insert 7"	1	H
Float Shoe		
Guide Shoe Reg 7"	1	O
Centralizers 7"	19	
Bottom Plug		W
Top Plug SW 7"	1	
Head PIC 7"	1	C
Packer		
Other well Chances 7	55	O

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		

DATE	TIME	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
		9-7-97	9-8-97	9-8-97	9-8-97
		2030	2230	0506	0605

WELL DATA						
	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	W	20	7"	KB	3062	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				See Job Log
TOTAL		TOTAL		

ORDERED	HYDRAULIC HORSEPOWER	Used
	Avail.	
TREATED	AVERAGE RATES IN BPM	Overall
	Disp.	
FEET 413.50	CEMENT LEFT IN PIPE	Reason Slope Joint
	Reason	

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	150	P + mud/Co	B	29% CC 1/4 #/sk Flocele	3.22	11.1
	110	"	"	"	2.00	12.8
	25	"	"	"	"	"

Circulating _____	Displacement _____	Preflush: Gal - BBI 8-10-8	Type H₂O Super Slur
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BBI _____	Pad: BBI - Gal _____
Average _____	Frac Gradient _____	Treatment Gal - BBI _____	Disp: BBI - Gal _____
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr Gal - BBI L.C. 96 T.C. 39 R/HAN 9	
		Total Volume Gal - BBI _____	

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 #	224834	TICKET DATE	9-27-07
REGION	North America	BDA / STATE	KS
NW/COUNTRY	Mt. Carmel	COUNTY	Shawnee
MBU ID / EMP #	17111	PSL DEPARTMENT	Concrete
LOCATION	17111	CUSTOMER REP / PHONE	
TICKET AMOUNT		API / UWI #	15-1500-2183
WELL LOCATION		DEPARTMENT	Concrete
LEASE / WELL #	0112	JOB PURPOSE CODE	235
		SEC/TWP/RNG	24S 24E 20N

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

ORIGINAL

CHART NO	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psl)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0030							Job Ready
	2030							Called for Job
	2230							on location set up pump truck
								Rig laying down D.P
	0320							Out of Hole Csg crew rigging up
	0330							Start Csg & Float Equip
	0335							Csg on Bottom
	0400							Hook up P/K & Circulating Iron
	0415							Start Circulating
	0500							Through Circulating
								Hook up to Halliburton
								Job Procedure 7" long string
	0506	6	8			2500		Start Fresh water
	0508	6	10			3000		Start Super Flush
	0510	6	8			200		Start Fresh water
	0512	6	86			200		Start head Cement @ 12.8 #/gal
	0524	6	39			200		Start Tail Cement @ 12.8 #/gal
	0533					200		Through mixing Cement
	0534					0		Shut Down / Release Plug
	0535					0		Wash up pumps & lines
	0538	6	122			250		Start Displacement
						500		Max pressure before plug lands
	600	2.5				1500		Plug landed / Release float
								float held
	605		9			0		plug RH & MH

Thank You For Calling Halliburton

Denny & Crew