

ORIGINAL

15-175-21634-0000

FORM MUST BE TYPED

SIDE ONE

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 PBD

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

6-7-97 6-9-97 7-12-97

Spud Date Date Reached TD Completion Date

API NO. 15- 175-21634-0000

County SEWARD

NE - NE - SW - SW Sec. 21 Twp. 33 Rge. 33 E W

1250 Feet from (circle one) Line of Section

1250 Feet from (circle one) Line of Section

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

Lease Name MORGAN "O" Well # 1H

Field Name HUGOTON

Producing Formation CHASE

Elevation: Ground 2846.5 KB _____

Total Depth 2751 PBD 2690

Amount of Surface Pipe Set and Cemented at 545 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 A.H.L. 4-10-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content NA 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.

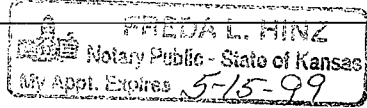
All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature L. Marc Harvey
L. MARC HARVEY
Title DRILLING TECHNICAL ASSISTANT Date 9-29-97

Subscribed and sworn to before me this 29th day of September
19 97.

Notary Public Freda L. Hinz

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)

JAN 1990

SIDE TWO

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name MORGAN "Q" Well # 1H

Sec. 21 Twp. 33 Rge. 33 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 (Attach Additional Sheets.) Yes No

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run (Submit Copy.) Yes No

List All E.Logs Run: CBL-CCL-GR.

Log Formation (Top), Depth and Datums Sample

Table with 3 columns: Name, Top, Datum. Rows include GLORIETTA, B/STONE CORRAL, HERRINGTON, U. KRIDER, L. KRIDER.

CASING RECORD

New Used

Report all strings set-conductor, surface, intermediate, production, etc.

Table with 8 columns: 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.

ADDITIONAL CEMENTING/SQUEEZE RECORD

Table with 5 columns: Purpose, Depth Top Bottom, Type of Cement, #Sacks Used, Type and Percent Additives.

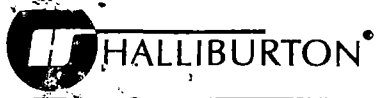
Table with 3 columns: Shots Per Foot, PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated, Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth.

TUBING RECORD Size Set At Packer At Liner Run Yes No

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

Table with 7 columns: Estimated Production Per 24 Hours, Oil Bbls., Gas Mcf, Water Bbls., Gas-Oil Ratio, Gravity.

Disposition of Gas: Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled Other (Specify) Production Interval 2587-2680 (QA)



JOB SUMMARY 4239-1

TICKET # **184366** TICKET DATE **6-9-97**

REGION North America	NWA/COUNTRY Mid-cont.	BDA / STATE Mid-cont Ks	COUNTY W. A
MBU ID / EMP # L 2100-62098	EMPLOYEE NAME Jason Nicholas	PSL DEPARTMENT Cement Seal	
LOCATION L 2100	COMPANY Onadaka	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE C2	API / UWI #	
WELL LOCATION North Liberal	DEPARTMENT SOOL	JOB PURPOSE CODE 035	ORIGINAL
LEASE / WELL # Morgan D-44	SEC / TWP / RNG Sec-21-33S-33W		

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 KAVES 143377			
P BAKER			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
52370-7720							
51100							
1447001							

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
	6-9-97	6-9-97	6-9-97	6-9-97
TIME	1337	1415	1455	2153

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar SWPER Val	1	H
Float Shoe Fullup ROSS	1	
Guide Shoe	1	O
Centralizers	13	
Bottom Plug		W
Top Plug SWPER	1	
Head		C
Packer		
Other		O

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	NEW	15.5	5 1/2	43	2758	
Liner					10	
Liner					10	
Tbg/D.P.					10	
Tbg/D.P.					10	
Open Hole					1	SHOTS/FT.
Perforations					A	
Perforations					A	
Perforations					A	

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	
				5 1/2 LONG STRING
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER
 ORDERED _____ Avail. _____ Used _____
AVERAGE RATES IN BPM
 TREATED _____ Disp. _____ Overall _____
CEMENT LEFT IN PIPE
 FEET **412.29** Reason **SHOE JOINT**

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
LEAD	210	MIDCON PT	B	3% CC 4 FLOCELE	3.22	11.1
TAIL	90	MIDCON PT	B	5% LL 14 FLOCELE	2.01	12.8
RET	75	MIDCON PT	B	3% CC 14 FLOCELE	1.32	14.0

Circulating _____ Displacement _____ Preflush: Gal - BBI _____ Type **SUPERFLUSH 102**
 Breakdown _____ Maximum _____ Load & Bkdn: Gal - BBI _____ Pad: BBI - Gal _____
 Average _____ Frac Gradient _____ Treatment Gal - BBI _____ Disp: BBI - Gal **65**
 Shut In: Instant _____ 5 Min _____ 15 Min _____ Cement Slurr Gal - BBI **170** **7 55**
 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

TICKET # 184366 TICKET DATE 6-9-97

REGION North America	NWA/COUNTRY Mid-cont.	BDA / STATE Mid cont. Ks.	COUNTY USA
MBU ID / EMP # LT 0102 G2098	EMPLOYEE NAME Jason Nicholas	PSL DEPARTMENT	
LOCATION Liberal	COMPANY Anadarko	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE 02	API / UWI #	
WELL LOCATION North Liberal	DEPARTMENT 5001	JOB PURPOSE CODE 035	ORIGINAL
LEASE / WELL # Morgan O-1H	SEC / TWP / RNG Sec 21-33S-33W		

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 RAINES #3377							
B BARKER J							

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1330							CALLED OUT
	1615							ON LOCATION - LDDIT
	1955							HOOK UP TO RIG TO CIRCULATE
	2037	4	8	✓		65/140		Pump H ₂ O
		4	10	✓		65/140		Pump SUPERFLUSH
	2044	4	8	✓		65/140		Pump H ₂ O SHUT DOWN
	2104	1.2	5.8	✓		40/60		Pump CEMENT RAT & MOUSE HOLES - 25 SKS
	2117	6.5	120.5	✓		50/210		Pump LEAD CEMENT 210 SKS MIDCON PREMIUM PLUS 3% CC, 1/4# FLOCCLE - 11.1#/gal
	2135	6.4	32	✓		24 3/4/210		Pump TAIL CEMENT 90 SKS MIDCON PREMIUM PLUS 3% CC, 1/4# FLOCCLE - 12.8#/gal
	2140							SHUT DOWN - WASH PUMPS & LINES - DROP PLUG
	2143	6.8	55	✓		50/500		Pump DISPLACEMENT
	2151	2.5	10			50/500		SLOW DOWN LAST 10 BBL
	2155			✓		50/100		PLUG LAID - FLOAT HELD
<p>THANK YOU FOR CALLING HALLIBURTON ENERGY SERVICES</p> <p>NICHOLAS, RAINES</p>								



JOB SUMMARY 4239-1

TICKET #	2356111	TICKET DATE	6-7-97
BDA / STATE	KS	COUNTY	Sevier
PSL DEPARTMENT	Sevier Cement		
CUSTOMER REP / PHONE	Mr. J. Barton		
API / UMI #	2117		
ORIGINAL			

REGION	North America	NWA/COUNTRY	mid point
MBU ID / EMP #		EMPLOYEE NAME	John K Hoff
LOCATION	3327	COMPANY	Arvidmark Polym Corp
TICKET AMOUNT		WELL TYPE	22
WELL LOCATION		DEPARTMENT	Sevier Cement
LEASE / WELL #		SEC / TWP / RNG	21-33S-2212

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
5 Tak			
2 Frap			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
52473, 75374							

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
6-7-97	16:05	6-7-97	6-7-97	6-7-97
			22:14	22:05

TOOLS AND ACCESSORIES		
TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe	1	H
Centralizers	4	O
Bottom Plug		O
Top Plug	1	O
Head		O
Packer	1	
Other		

WELL DATA						
	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	234	8 5/8	0	545.1	1500
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	
6-7-97	36.4	6-7-97	36.4	8 5/8 Surface
TOTAL		TOTAL		

ORDERED _____ HYDRAULIC HORSEPOWER _____
 TREATED _____ AVERAGE RATES IN BPM _____
 FEET 4191 CEMENT LEFT IN PIPE _____
 Reason Slip Joint

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	100	Prem-Dia	B	370 Cact, 4 1/2 SK Floccate	3.22	11.1
2	100	Prem-Dia	B	270 Cact, 4 1/2 SK Floccate	1.32	11.8

Circulating _____ Displacement _____ Preflush: Gal - BBI 25 Type 140
 Breakdown _____ Maximum _____ Load & Bkdn: Gal - BBI _____ Pad: BBI - Gal
 Average _____ Frac Gradient _____ Treatment Gal - BBI _____ Disp: BBI - Gal 32.20
 Shut In: Instant _____ 5 Min _____ 15 Min _____ Cement Slurr Gal - BBI 6) 57.34 T) 23.58
 Total Volume Gal - BBI 140.4

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

TICKET #	TICKET DATE
BDA / STATE	COUNTY
PSL DEPARTMENT	
CUSTOMER REP / PHONE	
API / UWI #	
JOB PURPOSE CODE	

REGION North America	NWA/COUNTRY
WBU ID / EMP.#	EMPLOYEE NAME
LOCATION	COMPANY
TICKET AMOUNT	WELL TYPE
WELL LOCATION	DEPARTMENT
LEASE / WELL #	SEC / TWP / RNG

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

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	16:05							Callout
	18:30							On location
	18:45							Rg-up / Safety Meeting
	21:00							Surf float Equipment
	21:50							Drop BALL
	22:03							Hookup iron / circulate w/ R.ig
	22:16	6.5	5			✓	120	SBBL H2O ahead
	22:28	6.5	57.34			✓	100	Mix Pump CRT (LOAD) 11.1#/gal
	22:29	7.0	23.50			✓	50	" (TAIL) 14.4#/gal
	22:31							Shut down / Drop Plug
	22:30	7.0	32.00			✓	110 100 500	Start Displacement
	22:40							Land Plug
	22:41							Release back / Plug held
	22:45							End Job.

Thank You
John - Sonny - R. AARI - GARRY