

15-175-21617-0000

ORIGINAL

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. KAPPL

Phone (316) 624-6253

Contractor: Name: CHEYENNE DRILLING

License: 5382

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. _____

4-17-97 4-26-97 6-4-97
Spud Date Date Reached TD Completion Date

API NO. 15- 175-21617-0000

County SEWARD

C - SW - SE Sec. 20 Twp. 33 Rge. 33 X W

660 Feet from X S (circle one) Line of Section

1980 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 MORGAN "P" Well # 1

Field Name EVALYN

Producing Formation MARMATON

Elevation: Ground 2844.7 KB _____

Total Depth 6500 PBDT 5130

Amount of Surface Pipe Set and Cemented at 1562 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 5210 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan A14.1, 4-2-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 1000 ppm Fluid volume 700 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. _____

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KANSAS CORP. COM.
AUG 15 1997
8-15-97
105

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 8-13-97

Subscribed and sworn to before me this 13th day of August 1997.

Notary Public Freda L. Hinz

Date Commission Expires _____

FREDA L. HINZ
Notary Public - State of Kansas
My Appl. 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

Operator Name: ANADARKO PETROLEUM CORPORATION Lease Name MORGAN "P" Well # 1

Sec. 20 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 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: SBT-CCL-GR, DIL, ML, CNL-LDT.

Log Formation (Top), Depth and Datums Sample

Name	Top	Datum
CHASE	2579	
COUNCIL GROVE	2905	
HEEBNER	4200	
TORONTO	4242	
LANSING	4352	
MARMATON	5038	
CHEROKEE	5262	
MORROW	5640	
CHESTER	5882	
STE. GENEVIEVE	6187	
ST. LOUIS	6278	

CASING RECORD

New 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	1562	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	6394	VERSASET	65	.6% HALAD 322, 5% KCL, .9% VERSASET, 1/4#SK FLC.
			D.V. TOOL @	5210	VERSASET	190	SAME AS ABOVE.

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose: ____ Perforate ____ Protect Casing ____ Plug Back TD ____ Plug Off Zone	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			

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	6304-6311, CIBP @ 6295		ACID: 700 GAL 15% FeHCL.
4	6246-6257, 6261-6271, CIBP @ 5130.		ACID: 2100 GAL 15% FeHCL.	6246-6271 (OA)
4	5055-5078.		ACID: 2300 GAL 15% FeHCL.	5055-5078

TUBING RECORD	Size 2 3/8	Set At 5098	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Inj. 6-16-97 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil 0 Bbls.	Gas 253 Mcf	Water 40 Bbls.	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 5055-5078

ORIGINAL

DRILLERS LOG

ANADARKO PETROLEUM CORPORATION
MORGAN P-1
SECTION 20-T33S-R33W
SEWARD COUNTY, KANSAS

15-175-21617

COMMENCED: 04-17-97
COMPLETED: 04-28-97

SURFACE CASING: 1561' OF 8 5/8" CMTD
W/305 SKS PREMIUM PLUS MIDCON + 3% CC
+ 1/4 #/SK FLOCELE. TAILED IN W/100 SKS
PREMIUM PLUS + 2% CC + 1/4 #/SK FLOCELE.

FORMATION	DEPTH
SURFACE HOLE	0 - 1600
RED BED & SHALE	1600 - 2460
LIMESTONE & SHALE	2460 - 6500 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 Valat

WRAY VALENTINE

KANSAS RECEIVED
1997 APR 15 A 1:05
STATE OF KANSAS
CORP. COMM.

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 29TH DAY OF APRIL, 1997.

State of Kansas
My Appl. Exp. 9-13-99

JOLENE K. RUSSELL
Jolene K. Russell
NOTARY PUBLIC

REGION North America	NWA/COUNTRY USA	BDA / STATE KS.	COUNTY Seward.
MBU ID / EMP # L10103 F4550	EMPLOYEE NAME Tyle Davis	PSL DEPARTMENT CMT	
LOCATION Liberal KS.	COMPANY Anadarko	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE 02	API / UWI #	ORIGINAL
WELL LOCATION Lead.	DEPARTMENT CMT	JOB PURPOSE CODE 010	
LEASE / WELL # Morgan P-1	SEC / TWP / RNG 20-33-33		

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
D. McJure 63601			
E. Chumley 43456			
T. W. P. 50033			
K-KRCK			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
53554-76900	20						
50404-6610	46						
4461-6611	46						
420042	20						

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	4-18-97	4-18-97	4-18-97	4-18-97
TIME	0700	1000	1650	1745

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar 1 1/2" x 1 1/2" x 1 1/2"	1	H
Float Shoe F-11	1	
Guide Shoe 1 1/2"	1	O
Centralizers S4	4	
Bottom Plug		W
Top Plug 5W	1	
Head P.C.	1	C
Packer		
Other 30362	1	O

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	23	8 5/8	6 B	1620	
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	
4-18-97	8	4-18-97	1 hr	CMT SHOE PLUG 1 1/2" x 1 1/2" x 1 1/2"
TOTAL		TOTAL		

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	305	PFMC	B	390cc 1/4" F10	3.22	11.1
1	100	PL	B	230cc 1/4" F10	1.32	14.8

Circulating _____ Displacement _____ Preflush: Gal - BBI _____ Type _____
 Breakdown _____ Maximum _____ Load & Bkdn: Gal - BBI _____ Pad: BBI - Gal _____
 Average _____ Frac Gradient _____ Treatment Gal - BBI _____ Disp: **BB** - Gal **900**
 Shut In: Instant _____ 5 Min _____ 15 Min _____ Cement Slurr Gal - **BB** **17.5 L.C.** **23.5 P.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
John Skilling

REGION North America	NWA/COUNTRY	BDA / STATE	COUNTY
MBU ID / EMP #	EMPLOYEE NAME	PSL DEPARTMENT	
LOCATION	COMPANY	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE	API / UWI #	ORIGINAL
WELL LOCATION	DEPARTMENT	JOB PURPOSE CODE	
LEASE / WELL #	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

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0700							Called out For job.
	1000							on Loc. N18. N18.
	1300							Start SB.OP
	1400							Out of Hole w/ O.P. N18 up casers.
	1420							Start 8 5/8 CS8 S.R.E.
	1540							Hook Swoodge to CS8. 450' up.
	1600							brk circ. try to circ. J ² down.
	1645							Shut down. Lay down J ² .
	1630							CS8 on Bot. Hook up 8 5/8 P.C. & circ Iron
	1643							brk circ. wiring.
	1644							Thru. circ Hook Iron to P.T.
	1649		175		✓			PUMP 30.5x PTMC AT 11.1 ¹ gpm
	1713	7.0	23.5		✓	100		PUMP 1005x PT 9+ 14.8 ¹ gpm
	1720	0	23.5		✓	0		Thru. mixing Shut down Drop plug.
	1721	6.0	100.7		✓	100		PUMP DISP.
	1733	6.5	100.7		✓	300		69 bbis in cmt to pit.
	1737	2.0	100.7		✓	200		20 bbis in sio rate
	1742	2.0	100.7		✓	250		land plug.
	1743	0	100.7		✓	650		Release Flooz - Hold.
	1745							Job over Thanks For calling Type Jimmy & crew 30 bbis cmt to pit ✓

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 APR 11 5 11:06



JOB SUMMARY 4239-1

TICKET # 183985 TICKET DATE 4-27-97

REGION <u>North America</u>	NWA/COUNTRY	BDA / STATE <u>Ks</u>	COUNTY <u>Sullivan</u>
MBU ID / EMP # <u>L10107</u>	EMPLOYEE NAME <u>59179 Dennis Galt</u>	PSL DEPARTMENT <u>5001 Cement</u>	
LOCATION <u>25945 Sullivan Ks</u>	COMPANY <u>AWACHIEKO PETRO CORP</u>	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE <u>01</u>	API / UWI #	
WELL LOCATION <u>The Kipool Ks</u>	DEPARTMENT <u>Cement</u>	JOB PURPOSE CODE <u>035 5/8 DV 2 1/2" Prod. Stn</u>	
LEASE / WELL # <u>D-1 (Mango)</u>	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
<u>L10107 59179</u>	<u>Total Well time - 10033</u>		
<u>Unit 06450</u>			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
<u>420041</u>	<u>20</u>	<u>4037 75817</u>	<u>23</u>				
<u>5352 78202</u>	<u>20</u>						

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type DV Tool Set At 5211
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
	<u>4-27</u>	<u>4-27</u>	<u>4-27</u>	<u>4-27</u>
TIME	<u>0800</u>	<u>1030</u>	<u>1615</u>	<u>2310</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar		<u>Howo</u>
Float Shoe		
Guide Shoe	<u>1</u>	
Centralizers	<u>20</u>	
Bottom Plug	<u>1</u>	
Top Plug	<u>1</u>	
Head	<u>1</u>	
Packer	<u>1</u>	
Other		

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	<u>1</u>	<u>150</u>	<u>8 -</u>	<u>KR</u>	<u>6351</u>	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole			<u>7 7/8</u>	<u>1561</u>	<u>6300</u>	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	
TOTAL		TOTAL		

ORDERED	HYDRAULIC HORSEPOWER Avail.	Used
TREATED	AVERAGE RATES IN BPM Disp.	Overall
FEET <u>4235</u>	CEMENT LEFT IN PIPE Reason	<u>1/200</u>

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	<u>65</u>	<u>Portland</u>		<u>9% Vericol 5% KCL 4/10% Holad 372 1/4" Frac</u>	<u>1.41</u>	<u>14.5</u>
	<u>190</u>	<u>Portland</u>		<u>9% Vericol 5% KCL 4/10% Holad 372 1/4" Frac</u>	<u>1.41</u>	<u>14.5</u>

Circulating _____	Displacement <u>20</u>	Preflush: Gal - BBI <u>10 BBL</u>	Type <u>Super Flush</u>
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BBI _____	Rad: BBI Gal <u>School</u>
Average _____	Frac Gradient _____	Treatment Gal - BBI _____	Disp: BBI - Gal <u>15L</u>
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr Gal - BBI _____	<u>12.1</u>
		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 Steve Vidonour



HALLIBURTON[®] JOB LOG 4239-5

TICKET # 173985 TICKET DATE 4-27-97

REGION North America	NWA/COUNTRY	BDA / STATE Ks	COUNTY Seward
MBU ID / EMP # 11002	EMPLOYEE NAME Tom Deane	PSL DEPARTMENT 5001 Cement	
LOCATION Well 11002	COMPANY Halliburton	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE	API / UWI #	ORIGINAL
WELL LOCATION Well 11002	DEPARTMENT	JOB PURPOSE CODE	
LEASE / WELL # 1-1 11002	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

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0900							Time Collect
	1200							Time Ready
	1030							Time work.
	1300							Start Pump Casing
	1415							Casing intake
	1615							1 st Stage Hookup To Circulate Casing
	1623							Circulate Casing w/ Bag Pump
	1625							Circulate MUD to Gradual level
	1705	1720	3.5/4.5					Hookup + Cement Pat Hole 15 ^{SE} Moore Hole 10 ^{SE}
	1725							Hookup to Pump Truck
	1730					250		Start water ahead
	1732	8				250		Start Super Flush
	1734	10				250		Start Super Behind
	1736	8				250		Start Mixing Cement
	1738	16 ⁻³				205		Finish Mixing Cement
	1745					0		Shut Down Open Pkg wash Pumps + Lines
	1748	27 ⁴⁹		Reg		75		Start Displacement
		124 ⁰		Reg				
	1815	151 ⁴⁹		TOTAL				Pkg Down Circulate Fluid Then out close
	1820							Open Boom
	1845					830		Recessed + Open DV Tool Break Circ w/ mud
	1850							Hook to Pkg Pump + CIP Case
								2 nd Stage
	2015							Hookup to Pump Truck
	2018							Start Water Ahead
	2022	20				250		Start Mixing Cement
	2133	47 ⁷¹				250		Finish Mixing Cement
	2230					0		Shut Down Open Pkg wash Pumps + Lines
	2243					175		Start Displacement
		124 ⁰						
	2310					2085		Pkg Down DV Tool Shut at 100 ^{PS} Back up 20 ^{PS}
								Circulate Fluid Then out close

APPROVED
DATE 4/27/97
BY [Signature]

APPROVED: [Signature]
DATE: 4/27/97
BY: [Signature]