

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

CONFIDENTIAL

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

6-24-99

Phone (316) 624-6253

Contractor: Name: BIG "A" DRILLING
License: 31572

RECEIVED
JUN 24 1999
CONSERVATION DIVISION
Wichita, Kansas

Wellsite Geologist: _____
Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SLOW Temp. Ann.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover: Operator: _____
Well Name: _____

KCC

JUN 23 1999

Comp. Date _____ Old Total Depth _____
 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTB
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

5-7-1999 5-18-1999 6-15-1999
Spud Date Date Reached TD Completion Date

API NO. 15- 129-21584-0000
County MORTON
- - - NE - NE Sec. 16 Twp. 32 Rge. 39 E W

660 Feet from N X (circle one) Line of Section
660 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 ANADARKO "B" Well # 2
Field Name KINSLER EAST EXT.

Producing Formation MORROW
Elevation: Ground 3250 KB _____
Total Depth 6320 PBTB 6100

Amount of Surface Pipe Set and Cemented at 1741 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.1, 7-7-99 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: _____

RELEASED

Operator Name _____
Lease Name MAY 07 2001 License No. _____
Quarter Sec. Twp. S Rng. E/W
County FROM CONFIDENTIAL 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
Title DRILLING TECHNICAL ASSISTANT Date 6-23-99

Subscribed and sworn to before me this 23rd day of June 19 99.

Notary Public Freda L. Hinz
Date Commission Expires _____

FREDA L. HINZ
Notary Public - State of Kansas
My Appt. Expires 5-15-2003

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)

X

ORIGINAL

SIDE TWO

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name ANADARKO "B" Well # 2

Sec. 16 Twp. 32 Rge. 39 [] East [x] West County MORTON

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 [x] No (Attach Additional Sheets.)
Samples Sent to Geological Survey [x] Yes [] No
Cores Taken [] Yes [x] No
Electric Log Run [x] Yes [] No (Submit Copy.)
List All E.Logs Run: CBL-CCL-GR, DIL, CNL-LDT-ML.

Log Formation (Top), Depth and Datums [] Sample
Name Top Datum
KRIDER 2420
COUNCIL GROVE 2730
HEEBNER 3927
TORONTO 3937
LANSING 4022
MARMATON 4840
CHEROKEE 5206
MORROW 5496
CHESTER 5970
STE. GENEVIEVE 6040
ST. LOUIS 6185

CASING RECORD [x] New [] Used
Report all strings set-conductor, surface, intermediate, production, etc.
Table with 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 columns: Purpose, Depth Top Bottom, Type of Cement, #Sacks Used, Type and Percent Additives.

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 6212-6220, CIBP @ 6100 ACID: 600 GAL 15% HCL. 6212-6220
2 5901-5932, 5952-5970. FRAC: 42800 GAL GEL & 162500# 16/30 SD. 5901-5970 (OA)

TUBING RECORD Size Set At Packer At Liner Run [] Yes [x] No

Date of First, Resumed Production, SWD or Inj. 6-13-1999 Producing Method [x] Flowing [] Pumping [] Gas Lift [] Other (Explain)

Estimated Production Per 24 Hours Oil 20 Bbls. Gas 2896 Mcf Water 10 Bbls. Gas-Oil Ratio Gravity

Disposition of Gas: [] Vented [x] Sold [] Used on Lease (If vented, submit ACO-18.)
METHOD OF COMPLETION: [] Open Hole [x] Perf. [] Dually Comp. [x] Commingled [] Other (Specify)
Production Interval: 5901-5970 (OA)

JOB SUMMARY

CONFIDENTIAL

ORDER NO. 7006

TICKET # 63894	TICKET DATE 5-9-99
BDA / STATE KS	COUNTY MONTG
PSL DEPARTMENT ZL	ORIGINAL
CUSTOMER REP / PHONE	
API / UWI #	
JOB PURPOSE CODE 010	

REGION North America	NWA/COUNTRY Mid Continent
MBU ID / EMP # MCLE0101 105753	EMPLOYEE NAME S. TATE
LOCATION Liberal KS 025540	COMPANY ANADARKO PET. CORP
TICKET AMOUNT 684.03	WELL TYPE 02
WELL LOCATION SE/DENROT KS	DEPARTMENT ZL
LEASE / WELL # ANADARKO #13-2	SEC / TWP / RNG 16-32S-39W

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. McLane	106322	13					
S. Tate	105753	13					
R. Anderson	105915	6					
D. Fulk	106109	6					

JUN 23 1999

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
420 095	25						
54038 77941	25						
54116 - 6611	25						
52947 - 75819	25						

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
5-8-99	2000	5-8-99	5-9-99	5-9-99
TIME	2000	2100	0307	0450

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float collar insert 8 5/8	1	Howco
Float shoe fill tube	1	"
Guide shoe Reg	1	"
Centralizers "	5	"
Bottom Plug		
Top Plug 5w	1	"
Head Basket	1	"
Packer		
Other		

WELL DATA

NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	23#	8 5/8	KB	1739.64	
Liner					
Liner					
Tbg/D.P.					
Tbg/D.P.					
Open Hole					SHOTS/FT.
Perforations					
Perforations					
Perforations					

HOURS ON LOCATION

DATE	HOURS
TOTAL	

OPERATING HOURS

DATE	HOURS
TOTAL	

DESCRIPTION OF JOB

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		

HYDRAULIC HORSEPOWER

ORDERED	Avail.	Used
TREATED	AVERAGE RATES IN BPM	
	Disp.	Overall
FEET 43.30	CEMENT LEFT IN PIPE	
	Reason	Shoe Joint

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKG	ADDITIVES	YIELD	LBS/GAL
1	360	Pt mc 3		3% CC, 0.1% FWCA, 1/2# FLO	2.94	11.4
2	100	Pt	Bulk	2% CC, 1/4# FLO	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: BBI - Gal 108.5
Shut In: Instant	5 Min	Cement Slurr	Gal - BBI 188.5 L.C.	- 23.5 T.C.
	15 Min	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
[Signature]

REGION -North America	NWA/COUNTRY Mid Continent	BDA/STATE KS	COUNTY Wichita
MBU ID/EMP # 106322 105953	EMPLOYEE NAME S Tate	PSL DEPARTMENT 2E	ORIGINAL
LOCATION 1/2 mi S of 225940	COMPANY ANADARKO Pet. Prod.	CUSTOMER REP / PHONE	
TICKET AMOUNT 668403	WELL TYPE 02	API / UWI #	KCO
WELL LOCATION 1/2 mi S of 225940	DEPARTMENT 2E	JOB PURPOSE CODE 010	JUN 23 1999
LEASE / WELL # HARADANKO # B-2	SEC / TWP / RNG 16-325-39W	CONFIDENTIAL	

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. Tate	106322		13				
S. Tate	105953		13				
S. Tate	105915		6				
D. Tate	106109		6				

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	2015							Called for Job
	2230							on location hold safety meeting set up pump truck rig on bottom circulating rig tripping out D.P.
	2300							D.P. out of hole
	0027							Rig up Csg crew
	0030							Start running Csg & float equip
	0049							Csg on bottom
	0230							Hook up PLC & circulating iron
	0253							Start circulating thru circulating
	0255							Hook up to pump truck
	0305							Job Procedure 8/8 Surface
	0306							
	0307					0/300		Pressure test lines
	0312	4.5	188.5	✓		0/75		Start Lead Cement @ 11.4 #
	0353	5.5	22.5	✓		15/100		Start Tail Cement @ 14.8
	0356							Thru mixing cement
	0358							Shut down & release plug
	0400	5.5	108.5	✓		0/75		Start Displacement
	0411			✓		15/100		Displacement caught cement
	0418	2		✓		350/200		Slow down rate
	0423	1		✓		300/200		Slow down rate
	0430			✓		11000		Plug landed
	0432							Release float

MAY 07 2001

FROM CONFIDEN

RECEIVED
STATE BOARD OF COMMISSIONS

JUN 24 1999

CONSERVATION DIVISION
Wichita, Kansas

Circulated 20 Bbls to pit ✓

Thank You For Calling Halliburton

Danny & Sonny & Crew



CONFIDENTIAL

JOB SUMMARY

ORDER NO. 70006

TICKET # 70152

TICKET DATE 5-20-99

REGION North America	NW/COUNTRY mid continent	BDAV STATE Liberals KS	COUNTY MORTON
MBU ID / EMP # mcl101 106322	EMPLOYEE NAME Danny McLane	PSL DEPARTMENT ZL	ORIGINAL
LOCATION Liberals KS	COMPANY ANADARKO PET. CORP.	CUSTOMER REP / PHONE J.M Barlow	
TICKET AMOUNT 12319.26	WELL TYPE O2	API / UWI #	KCC
WELL LOCATION N-10119 KS	DEPARTMENT ZL	JOB PURPOSE CODE 035	JUN 23 1999
LEASE / WELL # ANADARKO B-2	SEC / TWP / RNG 16-32S-39W	CONFIDENTIAL	

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
Danny McLane 106322 23	R. Ferguson 106154 23	G. Gove 105292 23	
S. Tate 105953 23	J. Bruce 106347 23	J. Justus 105967 23	
J. Banda 105970 23	T. Laberge 106348 23		
Bill Sauber 106102 23	K. Koeniger 105902 23		

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
52939-T70369	20						
420993	25						
54028-77941	25						
54029-5610	25						

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	1	
Float Shoe		
Guide Shoe	1	
Centralizers	14	
Bottom Plug		
Top Plug 5W	1	
Head		
Packer		
Other		

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 _____	Qty. _____
Perfpac Balls _____	Qty. _____	
Other _____		
Other _____		
Other _____		
Other _____		

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
TIME	5-19-99	5-19-99	5-20-99	5-20-99
	1930	2300	1830	2045

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	15.5	5.5	K13	5209	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole			7 7/8	GL	10320	SHOTS/FT.
Perforations						
Perforations						
Perforations						

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				N ₂ Foam Cement L.S.
RECEIVED				
JUN 24 1999				
CONSERVATION DIVISION Wichita Kansas				
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER

ORDERED _____ Avail. _____ Used _____

AVERAGE RATES IN BPM

TREATED _____ Disp. _____ Overall _____

CEMENT LEFT IN PIPE

FEET 102.78 Reason Float Collar

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	350	Prem Plus	B	Almat	145	14.2
	25	"	"	"	132	14.8

RELEASED MAY 07 2001

FROM CONFIDENTIAL

Circulating _____	Displacement _____	Preflush: Gal - BBH 8	Type 420
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BBI _____	Pad: BBI - Gal _____
Average _____	Frac Gradient _____	Treatment Gal - BBI _____	Disp: BBH - Gal 149.5
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr Gal - BBH 90.3	Retortage 5.6
		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 _____



CONFIDENTIAL
JOB LOG ORDER NO. 70005

TICKET #	70152	TICKET DATE	5-20-99
REGION	North America	NWA/COUNTRY	Mex. Continent
BOA / STATE	KS	COUNTY	Marion
MBU ID / EMP #	MCK10101 106322	EMPLOYEE NAME	D. McLane
PSL DEPARTMENT	22	CUSTOMER REP / PHONE	Jim Barlow
LOCATION	Liberal	COMPANY	Anadarko Pet. Corp
TICKET AMOUNT	12519.26	WELL TYPE	02
API / UWI #		JOB PURPOSE CODE	035
WELL LOCATION	N. Kalka	DEPARTMENT	ZP
LEASE / WELL #	Anadarko B-2	SEC / TWP / RNG	16 32S 37W

ORIGINAL

JUN 23 1999

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. McLane 106322 23	R. Ferguson 106154 23	G. Gore 106292 23	
State 105953 23	J. Bruce 106347 23	J. Justus 105967 23	
J. Brooks 105870 23	T. LaBarge 106348 23		
B. Suber 106212 23	K. Kueger 105862 23		

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	2300							on location rig tripping out D.P. Hold Safety netting set up Pump Seams & Ux Trucks
	2310							D.P. auto hole
	2317							Rig tripping down B.O.P.
	0155							Rig up Csg Crew
	0210							Start running Csg & Start Equip.
	0517							lost rabbit & lay down Csg
	0645							start Csg again
	0800							lost rabbit & lay down Csg
	0957							order more Csg
	1215							Csg on location
	1336							Start running Csg & Start Equip.
	1645							Csg on location
	1650							Start up P/C & Circulating Iron
	1652							Start Circulating
	1712							Plug sat & release holes
	1830							Start Circulating
	1835							Hook up to pump truck
	1850							Job Proceed
	1901	6	8			9/260		Pressure test lines
	1903					260		Start Fresh water Ahead
	1904	3	21			260		Bring on Steam unit
	1905					260/60		Start Cement @ 14.2*
	1912	2	43			700/1000		Bring on the Pumper
	1935	3	26			1000/1200		slow cement down
	1941							increase cement rate
	1941							when mixing cement
	1941							shut down 2 of 3 steam units
	1942							shut down & Release plug
	1943							Washing pumps & lines
	1947	3	105			900/1000		Start Displacement
	2016	2	25			570/500		slow down rate
	2030	1	20			400		slow down rate
	2045					500/200		Plug landed
								Release Start

KCC

JUN 23 1999

CONFIDENTIAL

RELEASED

RECEIVED MAY 07 2001
 STATE OF KANSAS
 JUN 24 1999 FROM CONFIDENTIAL

CONSERVATION DIVISION
 Wichita, Kansas