

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 SIOW 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. _____

4-14-98 4-24-98 5-27-98
Spud Date Date Reached TD Completion Date

API NO. 15- 189-22281-00-00

County STEVENS

- W/2 - NW - NW Sec. 21 Twp. 34 Rge. 38 X W

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

330 Feet from X W (circle one) Line of Section

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

Lease Name TAYLOR "B" Well # 2

Field Name WILDCAT

Producing Formation MORROW

Elevation: Ground 3275.0 KB _____

Total Depth 7000 PBD 6600

Amount of Surface Pipe Set and Cemented at 1806 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 3568 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan Atel, 8-17-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 700 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. _____

8-5-98
STATE CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WICHITA, KANSAS
RECEIVED
AUG 05 10 09 AM

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 8-3-98

Subscribed and sworn to before me this 3rd day of August 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	<input checked="" type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep <input type="checkbox"/> NGPA
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug <input type="checkbox"/> Other (Specify)

ORIGINAL

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name TAYLOR #1 Well # 2

Sec. 21 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, MSFL, ML, CNL-LDT,
 BHC SONIC.

Log Formation (Top), Depth and Datums		Sample
Name	Top	Datum
CHASE	2668	ST. LOUIS
COUNCIL GROVE	2996	SPERGEN
WABAUNSEE	3432	6658
TOPEKA	3706	6830
B/HHEEBNER	4275	
TORONTO	4294	
LANSING	4402	
KANSAS CITY	4624	
MARMATON	5076	
CHEROKEE	5362	
MORROW	5904	
CHESTER	6398	
STE.GENEVIEVE	6466	

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	1806	P+ MIDCON 2/ P+	360/100	3%CC, 1/4#SK FLC/ 2%CC, 1/4#SK FLC.
PRODUCTION	7-7/8"	5-1/2"	15.5	6834	50/50 POZ/ 50/50 POZ.	20/160	.6% HALAD 322, 10% SALT, 1/4#SK FLC/ SAME.
			F.O. TOOL @	3568	P+ MIDCON 2	60	3%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	
		Amount	Depth
4	6690-6700, CIBP @ 6600.	ACID: 1000 GAL 15% HCL.	6690-6700
4	6338-6342.	NONE.	

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. 6-3-98 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas 2000 Mcf	Water 0 Bbls.	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 6338-6342

JOB SUMMARY

ORDER NO. 70006

TICKET #	382685	TICKET DATE	4-15-98
BDA / STATE	KS	COUNTY	SEVEN
PSL DEPARTMENT	CMT		
CUSTOMER REP / PHONE			
API / UWI #			
JOB PURPOSE CODE	010		

REGION	North America	NWA/COUNTRY	USA
MBU ID / EMP #	L20103 F4550	EMPLOYEE NAME	Tyce David
LOCATION	Liberal	COMPANY	APC
TICKET AMOUNT		WELL TYPE	01
WELL LOCATION	Land	DEPARTMENT	CMT
LEASE / WELL #	T9108 B-2	SEC / TWP / RNG	21-34-38

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
B. McTigue - 42308			
G. Humphries - 49697			
R. Ferguson - 35602			

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
54038-75374	60	50866-75505	18	52827-75237	18		

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 1/2" x 3 1/2"	1	H
Float Shoe Fill	1	
Guide Shoe 1 1/2"	1	O
Centralizers CH	4	
Bottom Plug		W
Top Plug 5W	1	
Head P.C.	1	C
Packer		
Other Boster	1	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	
Perpac Balls	Qty.	
Other		
Other		
Other		
Other		

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
4-15-98	0630	0970	1200	1300

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	23	8 5/8	KB	1819	
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	
				CMT 85 ft 5.8

ORDERED	HYDRAULIC HORSEPOWER	Used
	Avail.	
TREATED	AVERAGE RATES IN BPM	Overall
	Disp.	
FEET	CEMENT LEFT IN PIPE	Reason
43		S.J

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	360	PTMC	B	3% AC 1/4" F10	3.22	11.1
1	100	PT	B	3% AC 1/4" F10	1.32	14.2

Circulating Breakdown	Displacement	Preflush:	Gal - BBI	Type
Average	Maximum	Load & Bkdn:	Gal - BBI	Pad: BBI - Gal
Shut In: Instant	Frac Gradient	Treatment	Gal - BBI	Disp: BBI - Gal
	5 Min	Cement Slurr	Gal - BBI	206.5
	15 Min	Total Volume	Gal - BBI	23.571

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

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE _____

JOB LOG

ORDER NO. 70006

TICKET #	TICKET DATE
38765	11/1/84
BDA / STATE	COUNTY
KS	
PSL DEPARTMENT	
CUSTOMER REP / PHONE	
API / UWI #	
DEPARTMENT	JOB PURPOSE CODE
SEC / TWP / RNG	

REGION	NWA/COUNTRY
North America	USA
MBU ID / EMP #	EMPLOYEE NAME
LOCATION	COMPANY
	WPC
TICKET AMOUNT	WELL TYPE
WELL LOCATION	DEPARTMENT
LEASE / WELL #	SEC / TWP / RNG
	21 36 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

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
38765	0630							Called out for job.
	0920							on loc. rig SBPP.
	1000							out of hole W/D.P.
	1030							Start 8 3/4" ISY & CIE
	1145							CSY on B&H HOPE UP 8 3/4" P.C. & circ. from
	1150							brk circ. W/RIY.
	1152							circ. to PIT.
	1159							Thru circ. HOPE from to PIT.
	1203	7.0	206.5		✓			250 pump 360s PLUG AT 11.1" P.Y. 1
	1232	6.0	23.5		✓			160 pump 100s PLUG AT 14.8" P.Y. 4
	1235	0	230.0		✓			0 Shut down PROP PLUG.
	1236	6.5	113.6		✓			120 pump DISP
	1250	7.0	113.6		✓			400 83 bbls in line to pit
	1253	2.0	113.5		✓			430 103 bbls in sta rate.
	1256	2.0	113.6		✓			430 81 LATE PLUG.
	1257	0	112.6		✓			820 Valve FLOPP - held.
	1300							job over

113.6
- 83
= 30.6 bbl to pit

Thanks for calling HES
Tye Brown & crew



JOB SUMMARY

ORDER NO. 70006

TICKET #	382853	TICKET DATE	4-26-98
BDA / STATE	Ks	COUNTY	Steven's
PSL DEPARTMENT	5001		
CUSTOMER REP / PHONE	Tr Stuck		
API / UWI #	15-189-222810000		
JOB PURPOSE CODE	035		

REGION	North America	NWA/COUNTRY	MidCon USA
MBU ID / EMP #	L10110 H3115	EMPLOYEE NAME	Nick Karbe
LOCATION	Liberal	COMPANY	Anadarko Pet Corp
TICKET AMOUNT		WELL TYPE	02
WELL LOCATION	30w, 3N of Liberal	DEPARTMENT	5001
LEASE / WELL #	Taylor B-2	SEC / TWP / RNG	21-34S-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
N. Karbe H3115			
R. Elwood D4360			
S. Teleford H4817			

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
420045	66						
52947/75496	66						
52276/6611	36						

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
	4-25-98	4-26-98	4-26-98	4-26-98
TIME	2130	0100	0700	0800

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar <i>FPV</i>	1	H
Float Shoe		H
Guide Shoe <i>Reg</i>	1	DW
Centralizers <i>48</i>	1	DW
Bottom Plug		
Top Plug <i>5-W</i>	1	C
Head <i>Basket</i>	1	O
Packer		
Other <i>Baker FO Tool 1 slot = 3/4" x 6"</i>		

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	15.5	5 1/2	0	68	3000'±
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	
Perpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
4-26-98	4 hrs	4-26-98	hr	035
TOTAL		TOTAL		

ORDERED	HYDRAULIC HORSEPOWER Avail.	Used
TREATED	AVERAGE RATES IN BPM Disp.	Overall
FEET	CEMENT LEFT IN PIPE Reason	sh jt

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
SAV	20	50/50 Per (A)	B	10% salt 4" Haled-322, 4" floccle	5.97	10
T	160	50/50 Per (A)	B	10% salt 4" Haled-322, 4" floccle	1.28	14.4

Circulating _____	Displacement _____	Preflush: Gal - BBI _____	Type _____
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 _____	
		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: *O. Stuck*

REGION North America	NW/COUNTRY Mid Cas USA	BDA / STATE KS	COUNTY Stevens
MBU ID / EMP # L10110 H3115	EMPLOYEE NAME Nick Karbe	PSL DEPARTMENT 5001	
LOCATION Liberal	COMPANY Anadarko Pet. Corp.	CUSTOMER REP / PHONE Tr. Starck	
TICKET AMOUNT	WELL TYPE O2	API / UWI # 15-189-222810000	
WELL LOCATION 30 mi. 3N of Liberal	DEPARTMENT 5001	JOB PURPOSE CODE 035	
LEASE / WELL # Taylor B-2	SEC / TWP / RNG 21-34S-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
N. Karbe H 3115			
R. Edward D4360			
S. Teleford H4817			

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS T/C	PRESS (psi)		JOB DESCRIPTION / REMARKS
					Tbg	Csg	
	2130						called out
	0400						on loc Held safety mtg setup Trks
							rig laying down D.P.
	0300						start F.E. F.O. Tool @ 3250'
	0630						Break circ
	0700						Plug R.H. + M.H. 4 bbl + 3 bbl
	0712	5	8/10/8			200	start scum flush
	0717	6	21			700	start scum in cont 20 sks 10 gal 50/50 par (H)
	0721	6.5	37			150	start cont 180 sks 14.4 gal 50/50 par (H)
	0726						end cont
	0727						wash up pump + line
	0728						release plug
	0729	6	0			50	start + disp
	0802		143			650/3500	Bump plug + processg - plug loaded 18 bbl early release pres float hold
							run measuring line tag at @ 6410' + r/ckup Trk washup Trk
							Job complete
							Thank you
							Nick, Robert, Stan
							HES
							Run measuring line tag 6795'

