

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. KAPPLER

Phone (.316.) 624-6253

Contractor: Name: DUKE DRILLING

License: 5929

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 _____ PBTB
 Commingled _____ Docket No. _____
 Dual Completion _____ Docket No. _____
 Other (SWD or Inj?) _____ Docket No. _____

10-21-97 11-5-97 12-9-97
Spud Date Date Reached TD Completion Date

API NO. 15- 189-22249-50-00

County STEVENS

SW - SE Sec. 18 Twp. 34 Rge. 37 E
X W

1980 Feet from X (circle one) Line of Section

660 Feet from E (circle one) Line of Section

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

Lease Name SPANGLER "A" Well # 2

Field Name VOORHEES

Producing Formation MORROW

Elevation: Ground 3186.0 KB _____

Total Depth 6800 PBTB 6391

Amount of Surface Pipe Set and Cemented at 1803 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 3150 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan AH-1, 5-14-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 750 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. _____

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.

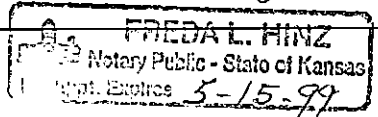
Signature L. Marc Harvey
L. MARC HARVEY

Title DRILLING TECHNICAL ASSISTANT Date 2-12-98

Subscribed and sworn to before me this 12th day of February 19 98.

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)
Fred L. Hinz

SIDE TWO

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name SPANGLER "A" Well # 2

Sec. 18 Twp. 34 Rge. 37 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: SBT-CCL-GR, DIL, ML, MSFL, CNL-LDT, SONIC.

DST REPORT ATTACHED.

Log Formation (Top), Depth and Datums Sample

Name	Top	Datum
B/STONE CORRAL	1802	
CHASE	2674	
COUNCIL GROVE	3012	
WABAUNSEE	3428	
TOPEKA	3706	
HEEBNER	4280	
TORONTO	4304	
LANSING	4400	
MARMATON	5054	
CHEROKEE	5384	
MORROW	5944	
CHESTER	6398	
STE. GENEVIEVE	6538	
ST. LOUIS	6636	

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	1803	P+ MIDCON 2/ P+	455/100	3%CC, 1/4#SK FLC/ 2%CC, 1/4#SK FLC.
PRODUCTION	7-7/8"	5-1/2"	15.5	6460	50/50 POZ/ 50/50 POZ.	25/190	.75%HALAD-322, 10% SALT, 1/4#SK FLC/ SAME.
			F.O. TOOL @	3150	P+ MIDCON 2	60	NONE.

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
<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	
	2	6288-6298.	ACID: 500 GAL 7% FeHCL.	6288-6298
		FRAC: 29200 GAL FMD GEL & 55000# 16/30 SD.	6288-6298	

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. 12-29-97 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		285	3		

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 6288-6298



JOB SUMMARY 4239-1

TICKET # **231691** TICKET DATE **10-22-97**

REGION North America	NWA/COUNTRY Mid CONTINENT	BDA / STATE Ks.	COUNTY STEVENS
MBU ID / EMP # LE104 62573	EMPLOYEE NAME JOHN WOODROW	PSL DEPARTMENT CEMENT	
LOCATION LEBRAL, Ks.	COMPANY ANADARKO PET.	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE 02	API / UWI #	
WELL LOCATION S. HUGGTON	DEPARTMENT CEMENT	JOB PURPOSE CODE 010-8 5/8 SURFACE	
LEASE / WELL # SPANGLER A-2	SEC / TWP / RNG 18-34S-37W		

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
G. HUMPHRIES H9692							
J. FROST 69775							
J. CLARK H9224							

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
4200144 P/W	76						
53554 76800 75 P/W	76						
50404 6610 BLK							
4032/5772 BLK							

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

DATE	TIME	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
10-22-97			10-22-97		

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar TUSERT 4 1/2	1	H
Float Shoe		
Guide Shoe SLIP ST 8 1/2	1	O
Centralizers S-4 8 1/2	1	
Bottom Plug		W
Top Plug S-10 8 1/2	1	
Head P/C 8 1/2	1	C
Packer		
Other BASKET 8 1/2		O

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	23'	8 5/8	625	1803	
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.	ln
NE Agent	Gal.	ln
Fluid Loss	Gal/Lb	ln
Gelling Agent	Gal/Lb	ln
Fric. Red.	Gal/Lb	ln
Breaker	Gal/Lb	ln
Blocking Agent	Gal/Lb	
Perpac Balls	Qty.	
Other		
Other		
Other		
Other		

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

HYDRAULIC HORSEPOWER

ORDERED _____ Avail. _____ Used _____

TREATED _____ AVERAGE RATES IN BPM _____ Overall _____

FEET **38** CEMENT LEFT IN PIPE _____ Reason **SHOE JOINT**

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	455	Pt med col	B	3.2 cc 1/4 FLOCCEL	3.22	11.1
	100	P+	B	2.8 cc 1/4 FLOCCEL	1.34	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 113
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr Gal - BBI 261 cc	35.0%
		Total Volume Gal - BBI _____	

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

THE INFORMATION STATED HEREIN IS CORRECT CUSTOMER'S REPRESENTATIVE SIGNATURE _____



JOB LOG 4239-5

TICKET # **231671** TICKET DATE **10-22-97**

REGION North America	NWA/COUNTRY MEX CONTINENT	BDA/STATE KS	COUNTY STEVENS
MBU ID / EMP # LE104 0873	EMPLOYEE NAME JOHN WOODKOW	PSL DEPARTMENT CEMENT	
LOCATION LIBERAL KS	COMPANY AMADARKO PET.	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE 02	API / UWI #	
WELL LOCATION HUGOTON	DEPARTMENT CEMENT	JOB PURPOSE CODE 010-8 5/8 SURFACE	
LEASE / WELL # SPAWGLER A-2	SEC / TWP / RNG 18-34S-57W		

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
G. HUNTER/119497							
J. PROY/69775							
J. CLARK/49211							

ORIGINAL

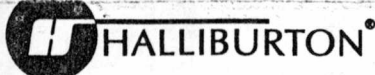
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1900							JOB READY
	1700							CALLED OUT FOR JOB
	1830							PUMP TRUCK ON LOCATION / RIG STILL DRILLING SET UP PUMP TRUCK RIG THROUGH DRILLING 1803' AT 12 1/4" HOLE / ON BOTTOM CIRCULATING
	1915							TRIP OUT DRILL PIPE
	2100							START RUNNING 8 5/8 CSG + FLOAT EQUIPMENT
	2200							CASING ON BOTTOM 1803
	2215							HOOK UP 8 5/8 P/C + CIRCULATING IRON START CIRCULATING WITH RIG PUMP HOLD SAFETY MEETING THROUGH CIRCULATING / HOOK UP TO PUMP TRUCK JOB PROCEDURE =
	2219	5-7	255			0/125		START MIXING 445 SKS LEAD CMT AT 11.1 ⁴⁵/GAL
	2303	6.0	235			93		START MIXING 100 SKS TAIL CMT AT 14.8 ⁴⁵/GAL THROUGH MIXING CMT / SHUT DOWN RELEASE PLUG / START DISPLACING HAVE 30 BBLs OUT / HAVE CMT RETURNS TO SURFACE /
	2345		115.0			0/150		PLUG DOWN RELEASE FLOAT FLOAT HELD
CIRCULATED (80 BBLs 163 SKS) ✓								

THANK YOU FOR CALLING HALLIBURTON

WOODY & GARY

STATE OF

10-23-97



JOB LOG 4239-5

TICKET #	2314277	TICKET DATE	11-21-97
BDA / STATE	K.	COUNTY	3F...
PSL DEPARTMENT	Cement		
CUSTOMER REP / PHONE			
API / UWI #			
DEPARTMENT	5101		
JOB PURPOSE CODE	POT Collar		
SEC / TWP / RNG	181 34 / 37		

REGION	North America	NWA/COUNTRY	
MBU ID / EMP #	3179	EMPLOYEE NAME	Dennis Lane
LOCATION		COMPANY	...
TICKET AMOUNT		WELL TYPE	
WELL LOCATION		DEPARTMENT	
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

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	01400							Time Called
	0800							Time Kerry
	0700							Time outside.
	1625							Hookup Tie - Comp.
	10314					1500		Press Test
	10338							Balance Press
	1035	2				350		Run into floor
	1044	3	RD			500		Increase Rate.
	1047		10			500		Start Cement
	1054		34.4			475		End 11/200
	1055					200		Start Displacement
	1058		17					Shut Down
	1059					1500		Close Test
	1100							Back to Press up
	1115							R. B. Labels
	1115							hookup
	1115							Back to Press up
	1125		20					Shut Down
	1026							Back to Press up
	1030							Final with job.

Thank You for looking
 Halliburton
 Energy

Dennis Lane
 Stan

RECEIVED
 9147
 FEB 17 1998

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Test Ticket

15-189-22249
No 10731

Well Name & No. Springer # A-2 Test No. #1 Date 11-3-97
 Company Anadarko Pet. Corp. Zone Tested Mottow 11" D"
 Address Suberal W.S. Elevation 3198 KB 3186 GL
 Co. Rep / Geo. Jeff Zoller Cont. Duke Rj #6 Est. Ft. of Pay 10 Por. 14 %
 Location: Sec. 18 Twp. 34S Rge. 37W Co. Stevens State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 5947-6320 Initial Str Wt./Lbs. 98000 Unseated Str Wt./Lbs. 94000
 Anchor Length 373' Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 130000
 Top Packer Depth 5942 Tool Weight 2500
 Bottom Packer Depth 5947 Hole Size — 7 7/8" X Rubber Size — 6 3/4" X
 Total Depth 6320 Wt. Pipe Run _____ Drill Collar Run 609'
 Mud Wt. 9.1 LCM 6 Vis. 47 WL 8.8 Drill Pipe Size 4 1/2" - 0 Ft. Run 5670'

Blow Description Fair Blow Built to B.O.B. in 30 min.
1st. Bld off in No Blow Back.
2nd opening & string Blow Built. soon as open took
Est. Bld off in No Blow Back.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>180</u> Feet Of <u>Dily mud</u>	<u>430</u>	<u>180</u>	
Rec. _____ Feet Of _____			
Rec. _____ Feet Of _____			
Rec. _____ Feet Of _____			
Rec. _____ Feet Of _____			

BHT 133 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 800 ppm System

(A) Initial Hydrostatic Mud	<u>2903</u>	<u>3067</u> PSI	Recorder No. <u>3024</u>	T-Started <u>10:00am.</u>
(B) First Initial Flow Pressure	<u>54</u>	<u>217</u> PSI	(depth) <u>5252</u>	T-Open <u>1:16pm</u>
(C) First Final Flow Pressure	<u>63</u>	<u>217</u> PSI	Recorder No. <u>10993</u>	T-Pulled <u>4:16pm</u>
(D) Initial Shut-in Pressure	<u>628</u>	<u>791</u> PSI	(depth) <u>6316</u>	T-Out <u>7:00pm</u>
(E) Second Initial Flow Pressure	<u>60</u>	<u>228</u> PSI	Recorder No. _____	
(F) Second Final Flow Pressure	<u>97</u>	<u>239</u> PSI	(depth) _____	
(G) Final Shut-in Pressure	<u>1217</u>	<u>1296</u> PSI	Initial Opening <u>30min.</u>	Test <input checked="" type="checkbox"/> <u>Conventional</u>
(H) Final Hydrostatic Mud	<u>2864</u>	<u>3036</u> PSI	Initial Shut-in <u>60min.</u>	Jars <input checked="" type="checkbox"/>
	<u>AKinc</u>	<u>AK-1</u>	Final Flow <u>60min</u>	Safety Joint <input checked="" type="checkbox"/>
			Final Shut-in <u>90min</u>	Straddle _____

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Jed Shree
 Our Representative Mike Carter

Circ. Sub N/C
 Sampler
 Extra Packer _____
 Elect. Rec.
 Other FILED 17 11:11
 TOTAL PRICE \$ 651.500