

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

API NO. 15- 189-22300-00-00
County STEVENS
10' S & 10' E OF _____ E
C - SE - SE - SE Sec. 18 Twp. 34 Rge. 37 X W

Operator: License # 4549

320 Feet from X (circle one) Line of Section

Name: ANADARKO PETROLEUM CORPORATION

320 Feet from E (circle one) Line of Section

Address P. O. BOX 351

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

City/State/Zip LIBERAL, KANSAS 67205-0351

Lease Name SPANGLER "A" Well # 3H

Purchaser: ANADARKO ENERGY SERVICES

Field Name HUGOTON

Operator Contact Person: DAVID W. KAPPLE

Producing Formation CHASE

Phone (316) 624-6253

Elevation: Ground 3176 KB _____

Contractor: Name: CHEYENNE DRILLING

Total Depth 3090 PBDT 3024

License: 5382

Amount of Surface Pipe Set and Cemented at 713 Feet

Wellsite Geologist: _____

Multiple Stage Cementing Collar Used? _____ Yes _____ No

Designate Type of Completion
X New Well _____ Re-Entry _____ Workover

If yes, show depth set _____ Feet

_____ Oil _____ SWD _____ SIOW _____ Temp. Abd.
X Gas _____ ENHR _____ SIGW
_____ Dry _____ Other (Core, WSW, Expl., Cathodic, etc)

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

If Workover:

Drilling Fluid Management Plan Att. 1, 12-16-98 U.C.
(Data must be collected from the Reserve Pit)

Operator: _____

Chloride content 5000 ppm Fluid volume 400 bbls

Well Name: _____

Dewatering method used DRY, BACKFILL & RESTORE LOCATION.

Comp. Date _____ Old Total Depth _____

Location of fluid disposal if hauled offsite: _____

_____ Deepening _____ Re-perf. _____ Conv. to Inj/SWD
_____ Plug Back _____ PBDT
_____ Commingled _____ Docket No. _____
_____ Dual Completion _____ Docket No. _____
_____ Other (SWD or Inj?) _____ Docket No. _____

Operator Name _____

Lease Name _____ License No. _____

10-12-98 10-15-98 11-20-98
Spud Date Date Reached TD Completion Date

_____ 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 12-8-98

Subscribed and sworn to before me this 8th day of December 19 98.

Notary Public Freda L. Hinz

Date Commission Expires _____

F. FREDAL HINZ
Notary Public - State of Kansas
My Appt. 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)

ORIGINAL

SIDE TWO

Operator Name AMADARKO PETROLEUM CORPORATION Lease Name SPANGLER "A" Well # 3H

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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	GLORIETTA	1220-1410	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	B/STONE CORRAL	1772	
List All E.Logs Run: CBL-CCL-GR.		HERRINGTON	2650	
		KRIDER	2672	
		WINFIELD	2760	
		TOWANDA	2818	
		FT. RILEY	2879	

CASING RECORD							
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	713	CLASS C/ CLASS C.	140/100	3%D79, .2%D46, 1/4#SK D29/2%S1, 1/4#SK D29.
PRODUCTION	7-7/8"	5-1/2"	15.5	3084	CLASS C/ CLASS C.	190/140	3%D79, 2%S1, .2%D46, 1/4#SK D29/SAME.

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	
		2	2650-2658, 2676-2684, 2712-2724, 2770-2780, 2830-2846, 2880-2894.
		FRAC: 77000 GAL FOAMED GEL W/20% METHANOL & 180500# 12/20 SD.	2650-2746 (OA)

TUBING RECORD	Size 2 3/8"	Set At 2651	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. 12/3/98		Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf 299	Water 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: _____ 2650-2894 (OA)

Schlumberger Dowell	
Cement Job Report	
JOB TYPE:	5 1/2" Production casing
DS INVOICE#:	20082940
SERV SUPV:	Danny Reid
CUSTOMER:	Anadarko Petroleum Corporation
SERVICE DATE:	10/15/98
WELL NAME:	Spangler A-3H
DRLG CONTR:	Cheyenne 8
DISTRICT:	Ulysses, KS
SEC-TWP-RNG	18-34S-37W
COUNTY, ST.	

SIZE & TYPE OF PLUGS		CASING HARDWARE:		PHYSICAL SLURRY PROPERTIES					
Top:	plastic plug 5 1/2"	18 centralizers, 1 orifice fill insert		Slurry Wt.	Slurry Yield	Water GPS	Pump Time	Bbl Slurry	Bbl Wtr.
Btm:		1 cement nose guide shoe		PPG	Ft3		Hr/Min		
MATERIALS FURNISHED BY DS									
No. Sks.	Additives								
190	Class C - 3%D79-2%S1-0.2%D46-0.25ppsD29			11.1	3.2	20.3		108.3	91.8
140	Class C - 3%D79 - 2% S1 - 0.2 % D46 - 1/4 pps D29			12.8	2	11.1		49.9	37
TOTAL								158.2	128.8

HOLE			TBG-CSG-D.P.			TBG-CSG-D.P.			COLLAR DEPTHS				
Size	%Excess	Depth	Size	Wt	Type	Depth	Size	Wt	Type	Depth	Shoe	Float	Stage
7 7/8"		3090		15.5		3077					3077	3033	

LAST CASING		PKR-CMT RET- BR PL-LINER			PERF DEPTH		TOP CONN		WELL FLUID			
Size	Wgt	Type	Depth	Brand & Type		Depth	Top	Btm	Size	Thrds	Type	Wgt

CALC DISP VOL-Bbls				CALC PSI		CALC MAX PSI		MAX TBG PSI		MAX CSG PSI		DISP FLUID		WTR
Tbg	Csg	Csg	Tot	To Bump Plug	To Rev	Rated	80%	Rated	80%	Type	Wgt	SRCE		
	72.1		72.1	575			0		0	H20	8.33	RIG		

Notes, Explanation of Trouble, Setting Tool, Running Casing, Etc.

Pressure Rate Detail							EXPLANATION
TIME:	PRESSURE-PSI		RATE	Bbl FLUID	TOTAL	FLUID	
Hr/Min	Pipe	Annulus	BPM	PUMPED	PMPD	TYPE	
6:30					0		Arrive on Loc.
11:40	3572				0		Pressure Test
11:44	207		3.7	26	26		Start spacers
11:51	257		3.97	104	130		Start lead slurry
12:12	99		5.56	50	180		Start tail slurry
12:21	0		0	0	180		Shut down & Drop plug
12:24	40		3.8	72.5	252.5		Start displacement
12:43	537		1.1	7	259.5		Cement to Surface
12:52	1625		1		259.5		Bump plug

RECEIVED
 STATE REGISTRATION COMMISSION
 OCT 15 1998
 CONSERVATION DIVISION
 Wichita, Kansas

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP	Bbl CMT Returns/Reversed	TOTAL Bbl Pumped	PSI LEFT ON CSG	SPOT TOP CMT
yes	1625	yes	7	270	0	Surface

Schlumberger Dowell													
Cement Job Report													
JOB TYPE:	8-5/8" Surface	DS INVOICE#:	20082937	SERV SUPV:	Charley King								
CUSTOMER:	Anadarko Petr. Corp.	SERVICE DATE:	10/12/98										
WELL NAME:	Spangler A-3H	DRLG CONTR:	Cheyenne #8										
DISTRICT:	Ulysses, KS	SEC-TWP-RNG	SEC 18-34S-37W	COUNTY, ST.	Stevens, Kansas								
SIZE & TYPE OF PLUGS		CASING HARDWARE:		PHYSICAL SLURRY PROPERTIES									
Top:	8 5/8" Rubber	Auto Fill Insert, Thread Lock		Slurry Wt.	Slurry Yield								
Btm:		4 centralizers, cmt basket.		GPS	Pump Time								
MATERIALS FURNISHED BY DS		PPG	Ft3	GPS	Pump Time								
No. Sks.	Additives			Hr/Min	Bbl Slurry								
140	Class C + 3% D79 + 0.2% D46 + 1/4 pps D29 (3% Extender, .2% Antifoaming Agent & 1/4 pps celloflake)		11.1	3.2	6.2								
100	Class C + 2%S1 + 1/4 pps D29 (2%CC, 1/4 pps Celloflake)		14.8	1.34	3.6								
TOTAL					103.7	29.3							
HOLE		TBG-CSG-D.P.			TBG-CSG-D.P.			COLLAR DEPTHS					
Size	%Excess	Depth	Size	Wt	Type	Depth	Size	Wt	Type	Depth	Shoe	Float	Stage
12.25		714	8.625	24		713					713	671	
LAST CASING			PKR-CMT RET- BR PL-LINER			PERF DEPTH		TOP CONN		WELL FLUID			
Size	Wgt	Type	Depth	Brand & Type		Depth	Top	Btm	Size	Thrs	Type	Wgt	
CALC DISP VOL-Bbls			CALC PSI		CALC MAX PSI		MAX TBG PSI		MAX CSG PSI		DISP FLUID		
Tbg	Csg	Csg	Tot	To Bump Plug	To Rev	Rated	Op	Rated	Op	Type	Wgt	WTR SRCE	
	42.7		42.7	172						H20	8.33	RIG	
Notes, Explanation of Trouble, Setting Tool, Running Casing, Etc.													
Pressure Rate Detail						EXPLANATION							
TIME:	PRESSURE-PSI		RATE	BBI FLUID	TOTAL	FLUID							
Hr/Min	Pipe	Annulus	BPM	PUMPED	PMPD	TYPE							
					0		<div style="text-align: center;"> <p>RECEIVED</p> <p>STATE OPERATOR DIVISION, OMAHA DIVISION</p> <p>NOV 10 1998</p> <p>CONSERVATION DIVISION</p> <p>Wichita Kansas</p> </div>						
2030	1750	0	0	0	0	psi Test							
2038	167	0	5.59	21.5	21.5	Water							
2050	131	0	5.59	77.25	98.75	Lead							
2054	194	0	5.59	23.5	122.25	Tail							
2055	13	0	0	0	122.25	Drop Plug							
2107	176	0	1.93	43	165.25	Water							
2107	934	0	0	0	165.25	Bump							
2109					165.25								
BUMPED PLUG		PSI TO BUMP PLUG		TEST FLOAT EQUIP		Bbl CMT Returns/Reversed		TOTAL Bbl Pumped		PSI LEFT ON CSG		SPOT TOP CMT	
Yees		176		Yes		Yes		165.25		0		Surface	