

ORIGINAL

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

5-23-97 5-25-97 6-20-97
Spud Date Date Reached TD Completion Date

API NO. 15- 175-21629-00-00
County SEWARD
NW - NW - NW - NE Sec. 34 Twp. 34 Rge. 34 W
200 Feet from X (circle one) Line of Section
2340 2340 Feet from X (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE SE, NW or SW (circle one)
Lease Name SWINDLER "A" Well # 2
Field Name HUGOTON
Producing Formation CHASE
Elevation: Ground 2908.2 KB _____
Total Depth 2800 PBTB 2757
Amount of Surface Pipe Set and Cemented at 726 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, 3-11-98 U.C.
(Data must be collected from the Reserve Pit)
Chloride content 400 ppm Fluid volume 400 bbls
Dewatering method used DRY, BACKFILL & RESTORE LOCATION
Location of fluid disposal if hauled offsite: 9-10-97
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 9-9-97
Subscribed and sworn to before me this 9th day of September
19 97.
Notary Public Freda L. Hinz
Date Commission Expires _____
A. FREDAL 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)

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

Sec. 34 Twp. 34 Rge. 34 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, CNL-LDT.

Log Formation (Top), Depth and Datums Sample

Name	Top	Datum
GLORIETTA	1122-1286	
B/STONE CORRAL	1672	
WELLINGTON	2310	
HERRINGTON	2623	
KRIDER	2649	
WINFIELD	2740	

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	726	P+ MIDCON 2/ P+	150/100	3%CC, %SK FLC/ 2%CC, %SK FLC.
PRODUCTION	7-7/8"	5-1/2"	15.5	2799	P+ MIDCON 2/ P+	190/90	3%CC, %SK FLC/ 3%CC, %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		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
2	2656-2665, 2624-2640		ACID: 2000 GAL 15% FeHCL. FRAC: 17166 GAL GEL, 4000# 40/70 SD & 24000# 20/40 SD.	2624-2665 (OA) 2624-2665 (OA)
3	2684-2726		NONE	
4	2310-2318		ACID: 800 GAL 15% HCL W/20% METHANOL	2310-2318
TUBING RECORD	Size 2 3/8	Set At 2630	Packer At Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj. 6-23-97		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 278	Water Bbls. 0	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. Conmingled Other (Specify) _____

Production Interval: 2310-2726 (OA)



HALLIBURTON®

JOB SUMMARY 4239-1

TICKET # 185719	TICKET DATE 5-24-97
BDA / STATE KS	COUNTY SEWARD
PSL DEPARTMENT CEMENT	ORIGINAL
CUSTOMER REP / PHONE	
API / UWI #	JOB PURPOSE CODE 010

REGION North America	NWA/COUNTRY Mid Continent
MBU ID / EMP # 40101	EMPLOYEE NAME Tom Poyer
LOCATION Liberal KS	COMPANY APC
TICKET AMOUNT	WELL TYPE 02
WELL LOCATION NW Liberal	DEPARTMENT Cmt. (5001)
LEASE / WELL # Swindler A-2	SEC / TWP / RING 34-34s-34w

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
T Poyer 48120							
S GRANT 14639							
Robby							

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES

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

TYPE AND SIZE	QTY	MAKE
Float Collar INSEAT	1	HAWOOD
Float Shoe		
Guide Shoe REG	1	
Centralizers 12	4	
Bottom Plug		
Top Plug SW	1	
Head PC	1	
Packer BASKET	1	
Other WELD	1	

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		

	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE	5-24-97	5-24-97	5-24-97	5-24-97
TIME	0150	0400	0516	0545

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	23	8 5/8	KB	725	
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	
TOTAL		TOTAL		

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

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	150	PP	B	3% CC, 1/4 1/2 Flocels	3.22	11.1
	100	PP	B	2% CC, 1/4 1/2 Flocels	1.72	14.8

Circulating _____	Displacement _____	Preflush: Gal - BBI 2	Type H₂O
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BBI	Pad: BBI - Gal
Average _____	Frac Gradient _____	Treatment Gal - BBI	Disp: BBI Gal 44
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr Gal - BBI 80 + 23	
		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 _____



JOB LOG 4239-5

TICKET #	155719	TICKET DATE	5-24-97
BDA / STATE	KS	COUNTY	SEWICK
PSL DEPARTMENT	6021-1		
CUSTOMER REP / PHONE			
API / UWI #			
JOB PURPOSE CODE	10		

REGION	North America	NWA/COUNTRY	USA
MBU ID / EMP #	114141	EMPLOYEE NAME	T. K. ...
LOCATION		COMPANY	
TICKET AMOUNT		WELL TYPE	
WELL LOCATION		DEPARTMENT	(5-1)
LEASE / WELL #		SEC / TWP / RNG	14-31

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

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0150							Called out - REG. 0400
	0255							DN LOC.
	0407							RUN Csg. 84833
	0435							DN Bottom
	0445							Hook up & circulating
	0516	2-6	80		✓	1780		Pump lead amt.
		6	23		✓	1840		Pump tail amt
	0536	0-0				1570		Shut down - Drop plug
	0535	0-5	49		✓	1150		Pump Displ. - wash up
	0544	3-0			✓	1150		Plug Down
	0545				✓	1100		Release Press. - Float held

Cement to Surface ✓
 Approx 45 bbls
 Thank you!
 Joe & Sam



JOB SUMMARY 4239-1

TICKET #	184506	TICKET DATE	5-25-97
BDA / STATE	Ks	COUNTY	Seward
PSL DEPARTMENT	5001	ORIGINAL	
CUSTOMER REP / PHONE	035 5 1/2 Prod String		
API / UWI #			
JOB PURPOSE CODE			

REGION	North America	NWA/COUNTRY	
MBU ID / EMP #	L10102	EMPLOYEE NAME	59179 Dennis Cohen
LOCATION	25540 Liberty Ks	COMPANY	Andrews Petro. Corp
TICKET AMOUNT		WELL TYPE	02
WELL LOCATION	NW of Liberty	DEPARTMENT	5001 Cement
LEASE / WELL #	A 2. Seward	SEC / TWP / RNG	34 / 34 S / 34 W

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
Dennis	(S.McTigue)		
Chry			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
420041	10	50866-7649	33				
53552-78262	10						

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 Target Float	1	Hercopl
Float Shoe 5/16" ID	1	
Guide Shoe 2 1/2"	1	
Centralizers	13	
Bottom Plug		
Top Plug	1	
Head	1	
Packer Hercules A	1	
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	
Perpac Balls	Qty.	
Other		
Other		
Other		
Other		

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
	5-25 1430	5-25 1645	5-25 2140	5-25 2320

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	159	5 1/2	KB	2799.40	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole			7 1/8		2800	SHOTS/FT.
Perforations						
Perforations						
Perforations						

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

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	190	Midcon	PP	3% CC 1/4# Floceke	3.22	11.1
1	90	Midcon	PP	3% CC 1/4# Floceke	2.0	12.8
Plugs	25	Midcon	PP	3% CC 1/4# Floceke 10 ^{SE} Movable 15 ^{SE} PRT/H	2.0	12.8

Circulating Breakdown	Displacement	Maximum	5 Min	15 Min
Average	Frac Gradient			
Shut In: Instant				
Preflush:	Gal - BBI	8 water 10 ^{SE}	8/ water	
Load & Bkdn:	Gal - BBI		Pad: BBI - Gal	
Treatment	Gal - BBI		Disp: BBI - Gal	65.6
Cement Slurr:	Gal - BBI	141.01		
Total Volume	Gal - BBI			

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	190	Midcon	PP	3% CC 1/4# Floceke	3.22	11.1
1	90	Midcon	PP	3% CC 1/4# Floceke	2.0	12.8
Plugs	25	Midcon	PP	3% CC 1/4# Floceke 10 ^{SE} Movable 15 ^{SE} PRT/H	2.0	12.8

Circulating Breakdown	Displacement	Maximum	5 Min	15 Min
Average	Frac Gradient			
Shut In: Instant				
Preflush:	Gal - BBI	8 water 10 ^{SE}	8/ water	
Load & Bkdn:	Gal - BBI		Pad: BBI - Gal	
Treatment	Gal - BBI		Disp: BBI - Gal	65.6
Cement Slurr:	Gal - BBI	141.01		
Total Volume	Gal - BBI			

REGION North America	NWA/COUNTRY	BDA / STATE KS	COUNTY Seward
MBU ID / EMP # 110002	EMPLOYEE NAME Dennis Cooney	PSL DEPARTMENT 3001	
LOCATION 2500 Lincoln St	COMPANY Halliburton Services Corp	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE	API / UWI #	
WELL LOCATION 2500 Lincoln St	DEPARTMENT Well Control	JOB PURPOSE CODE 035 52 Maintenance	
LEASE / WELL # 4 2 101 10	SEC / TWP / RNG 31 / 34 / 34W		

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS Dennis Cooney	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS B McIntyre	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
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ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1430							Time Collect
	1830							Time Ready
	1645							Time outlet Big Pump DP in Hole + Cir Hole
	1730							Big Starts To Lay Down DP
	2030							Start Pump casing
	2140							Casing in Hole
	2140							Hook Up To Circulate Casing
	2144							Circulate Casing w/ Big Pump
	2146							Circulate Mud To Circulate Level
	2215	6.22	5.3 / 2.5					Big Rat + Mouse Hole
	2230							Hook Up To Pump Truck
	2234	5	8			250		Start Water Ahead
	2236		10			250		Start Super Flush
	2238		8			250		Start water Behind
	2240	6.3				250		Start Mix Cement
	2254		108.96			200		Start Talk Cement
	2300		32.02			300		Final Mix Cement
	2301		141.01			200		Shut Down
	2305	6				150		Start Displacement
	4:30		65.6			600 / 1100		Plug Down
	2320							Plug Held Circulate Cement To The O.K. ✓

Thanks For Calling

H. A. Unsworth
Energy Services
Dennis Cooney