

ORIGINAL

FORM MUST BE TYPED

SIDE ONE

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: SHAWN D. YOUNG

Phone (316) 624-6253

Contractor: Name: NA

License: NA

Wellsite Geologist: NA

Designate Type of Completion
 New Well Re-Entry Workover

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

If Workover:

Operator: ANADARKO PETROLEUM CORPORATION

Well Name: PATE 1-31

Comp. Date 7-6-55 Old Total Depth 3190

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back 3164 PBTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

12-31-97 -- 3-8-98
Spud Date or Date Reached TD Completion Date

Start of workover.

API NO. 15- 129-10543 - 0001

County MORTON 5-26-98 rec'd

W/2 - SE Sec. 31 Twp. 33S Rge. 42 E W

1320 Feet from N (circle one) Line of Section

2692 Feet from E (circle one) Line of Section

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

Lease Name PATE Well # 1-31

Field Name GREENWOOD

Producing Formation WABAUNSEE, TOPEKA, GREENWOOD LANSING

Elevation: Ground 3190 KB _____

Total Depth 3190 PBTD 3164

Amount of Surface Pipe Set and Cemented at 599 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 Re-work, 6-22-98 v.c.
(Data must be collected from the Reserve Pit) NOT APPLICABLE

Chloride content _____ ppm Fluid volume _____ bbls

Dewatering method used _____

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.

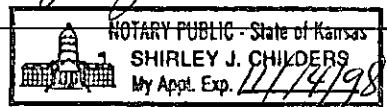
Signature Shawn D. Young
SHAWN D. YOUNG

Title DIVISION PRODUCTION ENGINEER Date 5/20/98

Subscribed and sworn to before me this 20th day of May 19 98

Notary Public Shirley J. Childers

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)

SIDE TWO

ORIGINAL

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name PATE Well # 1-31

Sec. 31 Twp. 33S Rge. 42 East 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 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:

Log Formation (Top), Depth and Datums Sample
 Name Top Datum

SEE ATTACHED SCOUT TICKET

** Original Completion CASING RECORD							
Report all strings set-conductor, <input checked="" type="checkbox"/> New <input type="checkbox"/> Used, 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	NA	10-3/4	NA	599	NA	400	NA
** PRODUCTION	NA	7	NA	3186	NA	300	NA

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	2753-2773, 2731-2799, 2675-2681, 2684-2689, 2664-2670	ACID: 4900 GAL 15% FeHCl	2664-2799
	CIBP @ 3164		

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-1/16	3153	--	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj. RESUMED : 3-1-98 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0	490	25	--	

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.) METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled 2664-3158 OA Other (Specify) _____ Production Interval _____

ORIGINAL

FULL WELL

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*** Well Header *** 2 of 2 Wells
(MID-CONTINENT - HISTORICAL WELL)

API Nbr: 15129105430000 State: KANS County: MORTON
Oper: PANHANDLE EASTN PIPELNE Oper Code: 112449
Well: 1-31 Lease: PATE
Lease Nbr: Lease Type:
Province: ANADARKO BASIN Prov Code: 360
Field: GREENWOOD GAS Field Code: 000919
Prop Source Code: PI

Meridian: 6TH PRINCIPAL Meridian Code: 06
Twp: 033S Rng: 042W Sec: 31 Spot: W2 W2 SE
Footages: 1320FSL 2692FWL CNGRS T-R-SEC /FULL SEC
Lat: 37.12939 Ref Lat:
Source: TSS27 Long: 101.92531 Ref Long:

*** TDG Surface Location Information ***

Source: Dwrights (pre-1997) Method: Machine/bisection
Quality: Location falls at same sp
Location: 6P 33S 42W 31 990S 2310E

Oper Elev: 3562DF Rig Ht:
Drir Depth: 3190 Old TD: Form@TD: 405LNSG
PB Depth: 3173 Oldest Age Pen: PENNSYLVAN Log TD: 3190

Status: GAS Spud Date: 06/07/1955 WHCS Date: 195507
Hole Dir: Comp Date: 07/06/1955 Last Update: 199802
Numeric Class: INL-6 FNL-2
Alpha Class: INL-D FNL-DG
Prod Form: 406WBNS

Contr: MORAN Tools: ROTARY Rig Nbr:

*** Casing / Liner / Tubing ***

Casing Size: 10 3/4 Depth: 599 Cement: 400 SX
Casing Size: 7 Depth: 3186 Cement: 300 SX

*** Initial Potential Tests ***

IPF: 19921 MCFD Cut:
Prod Form: 406WBNS Thru: PERF
Type Perfs: w/ 4 FT Intrvl: 2910-3158 GROSS
Type of Trtmnt: ACID Interval: 2910-3158
Vol or Wt: 8000 Measure: GALS Trtmnt Fluid:
Amt of Prop Agnt: Prop Agnt: FBRKP:
Avg Rate of Inj: Type ADDTV: Nbr of Stgs: 2
Remarks:

15-129-10543-0001
RECEIVED
GREENWOOD GAS CORP CORP.
1978 MAY 26 12:50

ORIGINAL

FULL WELL

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Shut-in Pressure: 396(BH) Slope:
FPCAOF: ATP: ISP:

RECEIVED
KANSAS CORP CO
1998 MAY 26 12:54

*** Formation Tops ***

Study: Interpreter: OPERATOR
Subsea calculated from: 3562 DF

Src Form CD	Formation Name	MD	TVD	SHOW	Subsea
LOG 406WBNS	WABAUNSEE		2660	IP GAS	902
LOG 406TOPK	TOPEKA	2881		681	
LOG 405LNSG	LANSING	3124		438	

*** Formation Bases ***

*** Fault Data ***

*** Core Descriptions ***

*** Formation Test Data ***

*** Production Tests ***

PTF: 927 MCFD Cut:
Prod Form: 406WBNS Thru: PERF
Type Perfs: w/ 4 FT Intrvl: 3152-3158

PTF: 1436 MCFD Cut:
Prod Form: 406WBNS Thru: PERF
Type Perfs: w/ 4 FT Intrvl: 3131-3146

PTF: 5400 MCFD Cut:
Prod Form: 406WBNS Thru: PERF
Type Perfs: w/ 4 FT Intrvl: 3131-3146
Type of Trtmnt: ACID Interval: 3131-3146
Vol or Wt: 1000 Measure: GALS Trtmnt Fluid:
Amt of Prop Agnt: Prop Agnt: FBRKP:
Avg Rate of Inj: Type ADDTV: Nbr of Stgs:
Remarks:

PTF: 5919 MCFD Cut:
Prod Form: 406WBNS Thru: PERF
Type Perfs: w/ 4 FT Intrvl: 3004-3096 GROSS
Open/Perf: PERF
Perf Detail: 3004-3010 3014-3026 3036-3044
3055-3060 3080-3096 -
Type of Trtmnt: ACID Interval: 3004-3096
Vol or Wt: 1000 Measure: GALS Trtmnt Fluid:
Amt of Prop Agnt: Prop Agnt: FBRKP:
Avg Rate of Inj: Type ADDTV: Nbr of Stgs:
Remarks:

ORIGINAL

FULL WELL

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PTF: 9042 MCFD Cut:
 Prod Form: 406WBNS Thru: PERF
 Type Perfs: w/ 4 FT Intrvl: 3004-3158 GROSS
 Open/Perf: PERF
 Perf Detail: 3004-3010 3014-3026 3036-3044
 3055-3060 3080-3096 3131-3146
 3152-3158 - -
 Type of Trtmnt: ACID Interval: 3004-3096
 Vol or Wt: 2000 Measure: GALS Trtmnt Fluid:
 Amt of Prop Agnt: Prop Agnt: FBRKP:
 Avg Rate of Inj: Type ADDTV: Nbr of Stgs:
 Remarks:

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 KANSAS CORP COM
 1998 MAY 26 12:54

PTF: 11965 MCFD Cut:
 Prod Form: 406WBNS Thru: PERF
 Type Perfs: w/ 4 FT Intrvl: 2910-3158 GROSS
 Open/Perf: PERF
 Perf Detail: 2910-2919 2923-2932 2944-2956
 2964-2971 3004-3010 3014-3026
 3036-3044 3055-3060 3080-3096
 3131-3146 3152-3158 -
 Type of Trtmnt: ACID Interval: 2910-2971
 Vol or Wt: 2000 Measure: GALS Trtmnt Fluid:
 Amt of Prop Agnt: Prop Agnt: FBRKP:
 Avg Rate of Inj: Type ADDTV: Nbr of Stgs:
 Remarks:

*** Log Surveys ***

LOG INTRVL	LOG TYPE	LOG CO	LOG INTRVL	LOG TYPE	LOG CO
00000-03190	EL	SCHL			

*** Drilling Shows ***

*** Porosity Zones ***

*** Drilling Data ***

*** Miscellaneous Data ***

*** Proposed Bottom Hole Location ***

*** Actual Bottom Hole Location ***

*** Deviation Data ***

*** Directional Survey **

*** Horizontal Drilling Data ***

*** Tenroc Geology Data ***

*** Tenroc Sand Data ***

*** Tenroc Hydrocarbon Data ***

*** Tenroc Mud Data ***

*** Tenroc Fault Data ***

*** Narrative Data ***

** Well(s) Selected: 2 **

** Well(s) Reported: 2 **

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1998 MAY 26 12:54