



SIDE TWO

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

Sec. 31 Twp. 33S Rge. 42  East County MORTON  
 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 Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run (Submit Copy.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No List All E.Logs Run:	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample Name Top Datum  SEE ATTACHED SCOUT TICKET
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** Original Completion 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	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	2664' - 2699'	FRAC W/ 14713 GAL 30# LINEAR GELLED 2% KCL 2664-2699 FMD W/ 70 Q N2 + 11660# 16/30 SND

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2-1/16"	3155	--	

Date of First, Resumed Production, SWD or Inj. RESUMED : 3-29-01	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0	303	21		

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 \_\_\_\_\_

1-31 PATE

ORIGINAL

State: KANSAS  
County: MORTON  
Operator: PANHANDLE ESTRN P/L  
API: 1512910543000 IC:  
Initial Class: D  
Target Objective:  
Final Well Class: DG  
Status: GAS  
Field: GREENWOOD GAS  
Permit: on JUL 15, 1955

Projected TD: Formation:  
Hole Direction:  
IP Summary: Oil Gas Water Top Form  
19921 MCFD WABAUNSEE

Abandonment Date:

Location

Section, Twp., Range: 31 33 S 42 W  
Spot Code: W2 W2 SE  
Footage NS, EW: 1320 FSL 2692 FWL CONGRESS SECTION  
Surface remark:  
Principal Meridian: 6TH PRINCIPAL MRD  
Lat/Long: 37.1303000 / -101.9266200 TS  
PBHL:  
PHBL remark:  
ABHL:  
ABHL remark:  
ABHL: From Surface: TVD:

Dates and Depths

Spud: JUN 07, 1955 Spud Date Code:  
TD: 3190 on  
LTD: 3190  
PlugBack Depth: 3173  
Completed: JUL 06, 1955  
Formation @ TD: 405LNSG Name: LANSING  
Ref. Elevation: 3562 DF  
KB. Elevation:  
Ground Elevation:  
Contractor: MORAN  
Rig Release Date: Rig #

IP # 001

Top Formation: WABAUNSEE  
Base Formation: WABAUNSEE  
Oil: Condst:  
Gas: 19921 MCFD Water:  
Interval: 2910 - 3158 GROSS Method: FLOWING  
Duration of Test: Hours Choke:  
Oil: Gravity: GOR:  
Prod Method: PERF  
Perforations: Interval Cnt Type Shots/Ft Top Formation  
2910 - 3158 4 FT 406WBNS WABAUNSEE

Treatments: 1 Interval: 2910 - 3158  
Fluid: 8000 GAL ACID Type: A  
Additive:

ORIGINAL

Prop Agent:  
Formation Break Down Pressure:  
Average Injection Rate:  
Stages: 2    Remarks: ACID:ORIG TREATMENT CD

PD # 001

Top Formation: WABAUNSEE  
Base Formation: WABAUNSEE  
Oil:  
Gas: 927 MCFD  
Interval: 3152 - 3158  
Duration of Test: Hours  
Oil: Gravity:  
Prod Method: PERF  
Perforations: 406WBNS            WABAUNSEE  
Perf Interval: 3152 - 3158            Shots/Ft: 4  
Condst:  
Water:  
Method: FLOWING  
Choke:  
GOR:

PD # 002

Top Formation: WABAUNSEE  
Base Formation: WABAUNSEE  
Oil:  
Gas: 1436 MCFD  
Interval: 3131 - 3146  
Duration of Test: Hours  
Oil: Gravity:  
Prod Method: PERF  
Perforations: 406WBNS            WABAUNSEE  
Perf Interval: 3131 - 3146            Shots/Ft: 4  
Condst:  
Water:  
Method: FLOWING  
Choke:  
GOR:

PD # 003

Top Formation: WABAUNSEE  
Base Formation: WABAUNSEE  
Oil:  
Gas: 5400 MCFD  
Interval: 3131 - 3146  
Duration of Test: Hours  
Oil: Gravity:  
Prod Method: PERF  
Perforations: 406WBNS            WABAUNSEE  
Perf Interval: 3131 - 3146            Shots/Ft: 4  
Condst:  
Water:  
Method: FLOWING  
Choke:  
GOR:

Treatments: 101    Interval: 3131 - 3146  
Fluid: 1000 GAL            ACID    Type: A  
Additive:  
Prop Agent:  
Formation Break Down Pressure:  
Average Injection Rate:  
Stages:            Remarks: ACID:ORIG TREATMENT CD

PD # 004

Top Formation: WABAUNSEE  
Base Formation: WABAUNSEE  
Oil:  
Gas: 5919 MCFD  
Interval: 3004 - 3096 GROSS  
Duration of Test: Hours  
Oil: Gravity:  
Prod Method: PERF  
Perforations: 406WBNS            WABAUNSEE  
Perf Interval: 3004 - 3010            Shots/Ft: 4  
Condst:  
Water:  
Method: FLOWING  
Choke:  
GOR:

Perforations: 406WBNS WABAUNSEE  
 Perf Interval: 3014 - 3026 Shots/Ft: 4  
 Perforations: 406WBNS WABAUNSEE  
 Perf Interval: 3036 - 3044 Shots/Ft: 4  
 Perforations: 406WBNS WABAUNSEE  
 Perf Interval: 3055 - 3060 Shots/Ft: 4  
 Perforations: 406WBNS WABAUNSEE  
 Perf Interval: 3080 - 3096 Shots/Ft: 4

ORIGINAL

Treatments: 102 Interval: 3004 - 3096  
 Fluid: 1000 GAL ACID Type: A  
 Additive:  
 Prop Agent:  
 Formation Break Down Pressure:  
 Average Injection Rate:  
 Stages: Remarks: ACID:ORIG TREATMENT CD

PD # 005

Top Formation: WABAUNSEE  
 Base Formation: WABAUNSEE  
 Oil:  
 Gas: 9042 MCFD  
 Interval: 3004 - 3158 GROSS  
 Duration of Test: Hours  
 Oil: Gravity:  
 Prod Method: PERF  
 Perforations: 406WBNS WABAUNSEE  
 Perf Interval: 3004 - 3010 Shots/Ft: 4  
 Perforations: 406WBNS WABAUNSEE  
 Perf Interval: 3014 - 3026 Shots/Ft: 4  
 Perforations: 406WBNS WABAUNSEE  
 Perf Interval: 3036 - 3044 Shots/Ft: 4  
 Perforations: 406WBNS WABAUNSEE  
 Perf Interval: 3055 - 3060 Shots/Ft: 4  
 Perforations: 406WBNS WABAUNSEE  
 Perf Interval: 3080 - 3096 Shots/Ft: 4  
 Perforations: 406WBNS WABAUNSEE  
 Perf Interval: 3131 - 3146 Shots/Ft: 4  
 Perforations: 406WBNS WABAUNSEE  
 Perf Interval: 3152 - 3158 Shots/Ft: 4

Condst:  
 Water:  
 Method: FLOWING  
 Choke:  
 GOR:

Treatments: 103 Interval: 3004 - 3096  
 Fluid: 2000 GAL ACID Type: A  
 Additive:  
 Prop Agent:  
 Formation Break Down Pressure:  
 Average Injection Rate:  
 Stages: Remarks: ACID:ORIG TREATMENT CD

PD # 006

Top Formation: WABAUNSEE  
 Base Formation: WABAUNSEE  
 Oil:  
 Gas: 11965 MCFD  
 Interval: 2910 - 3158 GROSS  
 Duration of Test: Hours  
 Oil: Gravity:  
 Prod Method: PERF  
 Perforations: 406WBNS WABAUNSEE

Condst:  
 Water:  
 Method: FLOWING  
 Choke:  
 GOR:

ORIGINAL

Perf Interval:	2910 - 2919	Shots/Ft:	4
Perforations:	406WBNS	WABAUNSEE	
Perf Interval:	2923 - 2932	Shots/Ft:	4
Perforations:	406WBNS	WABAUNSEE	
Perf Interval:	2944 - 2956	Shots/Ft:	4
Perforations:	406WBNS	WABAUNSEE	
Perf Interval:	2964 - 2971	Shots/Ft:	4
Perforations:	406WBNS	WABAUNSEE	
Perf Interval:	3004 - 3010	Shots/Ft:	4
Perforations:	406WBNS	WABAUNSEE	
Perf Interval:	3014 - 3026	Shots/Ft:	4
Perforations:	406WBNS	WABAUNSEE	
Perf Interval:	3036 - 3044	Shots/Ft:	4
Perforations:	406WBNS	WABAUNSEE	
Perf Interval:	3055 - 3060	Shots/Ft:	4
Perforations:	406WBNS	WABAUNSEE	
Perf Interval:	3080 - 3096	Shots/Ft:	4
Perforations:	406WBNS	WABAUNSEE	
Perf Interval:	3131 - 3146	Shots/Ft:	4
Perforations:	406WBNS	WABAUNSEE	
Perf Interval:	3152 - 3158	Shots/Ft:	4

Treatments: 104 Interval: 2910 - 2971  
 Fluid: 2000 GAL ACID Type: A  
 Additive:  
 Prop Agent:  
 Formation Break Down Pressure:  
 Average Injection Rate:  
 Stages: Remarks: ACID:ORIG TREATMENT CD

**Casing, Liner, Tubing**

Casing	10 3/4 IN @	599 w/	400 sx
Casing	7 IN @	3186 w/	300 sx

**Formations and Logs**

Log # 1	EL @	0 - 3190						
Logging Co.	153789							
Top Formation	Measured	Top	Base	Base	Source	Lith-	Age	
	Depth	TVD	Depth	TVD		ology	code	
WABAUNSEE	2660				LOG		406	
TOPEKA	2881				LOG		406	
LANSING	3124				LOG		405	

**Dwights Energydata Narrative**

Accumulated through 1997

IP: F 9900 MCFGPD; -- F 9,900 MCFGPD  
 Perfs: 3152-3145  
 Perfs: 3152-3160, 3130-3145, AC 1000GAL, PB 3110  
 Perfs: 3004-3096  
 Perfs: 3004-3096, AC 5000GAL, 9,000 MCFG  
 Perfs: 2910-2971  
 Perfs: 2910-2971, AC 10,000GAL, RP 396#, 9,900 MCFG  
 Dwights number: K5322850

**Operator Address**

Street or PO Box:

Operator Address

City:  
State, Zip:  
Country:  
Phone:  
E-Mail:  
Agent Name:  
Agent Remark:

Fax:  
Agent Code:

ORIENTAL

1-31 PATE

State: KANSAS  
 County: MORTON  
 Operator: PANHANDLE ESTRN P/L  
 API: 15129105430000  
 Initial Class: D  
 Target Objective:  
 Final Well Class: DG  
 Status: GAS  
 Field: GREENWOOD GAS  
 Permit: on JUL 15, 1955

IC:

ORIGINAL

Abandonment Date:

Projected TD: Formation:  
 Hole Direction:  
 IP Summary: Oil Gas Water Top Form  
 19921 MCFD WABAUNSEE

Section, Twp., Range: 31 33 S 42 W  
 Spot Code: W2 W2 SE  
 Footage NS, EW: 1320 FSL 2692 FWL CONGRESS SECTION  
 Surface remark:  
 Principal Meridian: 6TH PRINCIPAL MRD

Lat/Long: 37.1303000 / -101.9266200 TS

PBHL:

PHBL remark:

ABHL:

ABHL remark:

ABHL: From Surface: TVD:

and Depths

Spud: JUN 07, 1955 Spud Date Code:  
 TD: 3190 on  
 LTD: 3190  
 PlugBack Depth: 3173  
 Completed: JUL 06, 1955  
 Formation @ TD: 405LNSG Name: LANSING  
 Ref. Elevation: 3562 DF  
 KB. Elevation:  
 Ground Elevation:  
 Contractor: MORAN  
 Rig Release Date: Rig #

001

Top Formation: WABAUNSEE  
 Base Formation: WABAUNSEE  
 Oil: Condst:  
 Gas: 19921 MCFD Water:  
 Interval: 2910 - 3158 GROSS Method: FLOWING  
 Duration of Test: Hours Choke:  
 Oil: Gravity: GOR:  
 Prod Method: PERF  
 Perforations: Interval Cnt Type Shots/Ft Top Formation  
 2910 - 3158 4 FT 406WBNS WABAUNSEE

Treatments: 1 Interval: 2910 - 3158  
 Fluid: 8000 GAL ACID Type: A  
 Additive:



ORIGINAL

Prop Agent:  
Formation Break Down Pressure:  
Average Injection Rate:  
Stages: 2     Remarks: ACID:ORIG TREATMENT CD

PD # 001

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Gas: 927 MCFD  
Interval: 3152 - 3158  
Duration of Test: Hours  
Oil: Gravity:  
Prod Method: PERF  
Perforations: 406WBNS     WABAUNSEE  
Perf Interval: 3152 - 3158     Shots/Ft: 4

Condst:  
Water:  
Method: FLOWING  
Choke:  
GOR:

PD # 002

Top Formation: WABAUNSEE  
Base Formation: WABAUNSEE  
Oil:  
Gas: 1436 MCFD  
Interval: 3131 - 3146  
Duration of Test: Hours  
Oil: Gravity:  
Prod Method: PERF  
Perforations: 406WBNS     WABAUNSEE  
Perf Interval: 3131 - 3146     Shots/Ft: 4

Condst:  
Water:  
Method: FLOWING  
Choke:  
GOR:

PD # 003

Top Formation: WABAUNSEE  
Base Formation: WABAUNSEE  
Oil:  
Gas: 5400 MCFD  
Interval: 3131 - 3146  
Duration of Test: Hours  
Oil: Gravity:  
Prod Method: PERF  
Perforations: 406WBNS     WABAUNSEE  
Perf Interval: 3131 - 3146     Shots/Ft: 4

Condst:  
Water:  
Method: FLOWING  
Choke:  
GOR:

Treatments:     101     Interval:     3131 - 3146  
Fluid:     1000 GAL     ACID     Type: A  
Additive:  
Prop Agent:  
Formation Break Down Pressure:  
Average Injection Rate:  
Stages:     Remarks: ACID:ORIG TREATMENT CD

PD # 004

Top Formation: WABAUNSEE  
Base Formation: WABAUNSEE  
Oil:  
Gas: 5919 MCFD  
Interval: 3004 - 3096 GROSS  
Duration of Test: Hours  
Oil: Gravity:  
Prod Method: PERF  
Perforations: 406WBNS     WABAUNSEE  
Perf Interval: 3004 - 3010     Shots/Ft: 4

Condst:  
Water:  
Method: FLOWING  
Choke:  
GOR:

Perforations: 406WBNS WABAUNSEE  
 Perf Interval: 3014 - 3026 Shots/Ft: 4  
 Perforations: 406WBNS WABAUNSEE  
 Perf Interval: 3036 - 3044 Shots/Ft: 4  
 Perforations: 406WBNS WABAUNSEE  
 Perf Interval: 3055 - 3060 Shots/Ft: 4  
 Perforations: 406WBNS WABAUNSEE  
 Perf Interval: 3080 - 3096 Shots/Ft: 4

ORIGINAL

Treatments: 102 Interval: 3004 - 3096  
 Fluid: 1000 GAL ACID Type: A  
 Additive:  
 Prop Agent:  
 Formation Break Down Pressure:  
 Average Injection Rate:  
 Stages: Remarks: ACID:ORIG TREATMENT CD

PD # 005

Top Formation: WABAUNSEE  
 Base Formation: WABAUNSEE  
 Oil:  
 Gas: 9042 MCFD Condst:  
 Water:  
 Interval: 3004 - 3158 GROSS Method: FLOWING  
 Duration of Test: Hours Choke:  
 Oil: Gravity: GOR:  
 Prod Method: PERF  
 Perforations: 406WBNS WABAUNSEE  
 Perf Interval: 3004 - 3010 Shots/Ft: 4  
 Perforations: 406WBNS WABAUNSEE  
 Perf Interval: 3014 - 3026 Shots/Ft: 4  
 Perforations: 406WBNS WABAUNSEE  
 Perf Interval: 3036 - 3044 Shots/Ft: 4  
 Perforations: 406WBNS WABAUNSEE  
 Perf Interval: 3055 - 3060 Shots/Ft: 4  
 Perforations: 406WBNS WABAUNSEE  
 Perf Interval: 3080 - 3096 Shots/Ft: 4  
 Perforations: 406WBNS WABAUNSEE  
 Perf Interval: 3131 - 3146 Shots/Ft: 4  
 Perforations: 406WBNS WABAUNSEE  
 Perf Interval: 3152 - 3158 Shots/Ft: 4

Treatments: 103 Interval: 3004 - 3096  
 Fluid: 2000 GAL ACID Type: A  
 Additive:  
 Prop Agent:  
 Formation Break Down Pressure:  
 Average Injection Rate:  
 Stages: Remarks: ACID:ORIG TREATMENT CD

PD # 006

Top Formation: WABAUNSEE  
 Base Formation: WABAUNSEE  
 Oil:  
 Gas: 11965 MCFD Condst:  
 Water:  
 Interval: 2910 - 3158 GROSS Method: FLOWING  
 Duration of Test: Hours Choke:  
 Oil: Gravity: GOR:  
 Prod Method: PERF  
 Perforations: 406WBNS WABAUNSEE

ORIGINAL

Perf Interval:	2910 - 2919	Shots/Ft:	4
Perforations:	406WBNS	WABAUNSEE	
Perf Interval:	2923 - 2932	Shots/Ft:	4
Perforations:	406WBNS	WABAUNSEE	
Perf Interval:	2944 - 2956	Shots/Ft:	4
Perforations:	406WBNS	WABAUNSEE	
Perf Interval:	2964 - 2971	Shots/Ft:	4
Perforations:	406WBNS	WABAUNSEE	
Perf Interval:	3004 - 3010	Shots/Ft:	4
Perforations:	406WBNS	WABAUNSEE	
Perf Interval:	3014 - 3026	Shots/Ft:	4
Perforations:	406WBNS	WABAUNSEE	
Perf Interval:	3036 - 3044	Shots/Ft:	4
Perforations:	406WBNS	WABAUNSEE	
Perf Interval:	3055 - 3060	Shots/Ft:	4
Perforations:	406WBNS	WABAUNSEE	
Perf Interval:	3080 - 3096	Shots/Ft:	4
Perforations:	406WBNS	WABAUNSEE	
Perf Interval:	3131 - 3146	Shots/Ft:	4
Perforations:	406WBNS	WABAUNSEE	
Perf Interval:	3152 - 3158	Shots/Ft:	4

Ints: 104 Interval: 2910 - 2971  
 Fluid: 2000 GAL ACID Type: A  
 Additive:  
 Prop Agent:  
 Formation Break Down Pressure:  
 Average Injection Rate:  
 Stages: Remarks: ACID:ORIG TREATMENT CD

tubing

Casing	10 3/4 IN @	599 w/	400 sx
Casing	7 IN @	3186 w/	300 sx

Logs

Log # 1 EL @ 0 - 3190  
 Logging Co. 153789

tion	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lith- ology	Age code
EE	2660				LOG		406
	2881				LOG		406
	3124				LOG		405

ydata Narrative

simulated through 1997

IP: F 9900 MCFGPD; -- F 9,900 MCFGPD  
 Perfs: 3152-3145  
 Perfs: 3152-3160, 3130-3145, AC 1000GAL, PB 3110  
 Perfs: 3004-3096  
 Perfs: 3004-3096, AC 5000GAL, 9,000 MCFG  
 Perfs: 2910-2971  
 Perfs: 2910-2971, AC 10,000GAL, RP 396#, 9,900 MCFG

Dwights number: K5322850

Press

Street or PO Box:

Operator Address

Date: 5/22/2001  
Time: 9:08 AM

ORIGINAL

City:  
State, Zip:  
Country:  
Phone:  
E-Mail:  
Agent Name:  
Agent Remark:

Fax:  
Agent Code: