

LOWER PENNSYLVANIAN GAS PAY DETERMINATIONS
FROM
MICROLOG AND GEOLOGICAL SAMPLE DESCRIPTIONS

<u>Company</u>	<u>Well</u>	<u>Microlog Pay - Feet</u>			<u>Sample Pay</u>	
		<u>Gross</u>	<u>Broken</u>	<u>Net</u> (1)	<u>Gross</u>	<u>Net</u> (2)
Amerada	Candle #2	28	--	28	108	47
Amerada	Candle #4	5	--	5	38	13
Amerada	Candle #5	34	10	39	94	40
Amerada	Candle #7	45	--	45	66	29
Amerada	Mathers #1	19	8	23	108	29
Amerada	Mathers "A" #1	13	28	27	114	54
Amerada	Mathers "A" #2	--	35	17	89	43
Amerada	State BT "C" #1	--	--	14(est)	85	19
Amerada	State BT "C" #3	21	42	42	48	24
Amerada	State BT "I" #1	--	--	13(est)	71	26
Amerada	State BT "K" #1	27	8	31	64	17
Amerada	State BT "M" #1	19	38	38	80	40
Amerada	State BT "N" #1	23	26	36	62	29
TPC&O	State "C" Ac/1 #5	--	--	14(est)		
TPC&O	State "C" Ac/2 #1	29	--	29		
Amerada-Shell	State "A" #1	32	--	32		

(1) Broken microlog pay has been been discounted 50%

(2) Gross sample pay has been discounted according to porosity description

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
Amerada EXHIBIT No. 5
CASE 1476

AMERADA BOTTOM-HOLE PRESSURE-TEMPERATURE REPORT

CODE

R.P.G. 3 NO 10775 CLOCK NO HK74824 SPEED 48 HR. LEASE Amerada-Shell State "A" Unit WELL NO. 1
 ELEMENT NO. 10655N RANGE 0-6000 CORR. TO - °F. LOCATION Bagley Area, Lea County, New Mexico
 RUN BY LT/LEK CALCULATED BY LEK REPORTED BY OCM DATE RUN 7-8-57 TIME PULLED 7-10-57 TIME

WELL DATA

POTENTIAL: CHOKE OIL WATER G.O.R. ZONE Penn. TOP 9805 BOTTOM 9815 T.D. 11,075
 HOW PRODUCED Natural flow thru tbg. P.I. CASING 5-1/2 DEPTH 9809 TUBING 2-3/8 DEPTH 9810
 HOURS SHUT IN 38 WELL HEAD PRESS.: CAS. TUB TOP LINER PERFORATIONS 9805-9815
 LAST RESERVOIR PRESSURE 3371 DEPTH 9024 DATE 1-18-56 ELEVATION 4274 GRAVITY OF OIL SP. GR. OF GAS d.f.

TEST RECORD

PURPOSE OF TEST To determine the build-up characteristics of the well.

Hours Shut-In	DEPTH	WELL PRESSURE				REMARKS
0	9810	3056				Flowing pressure.
1	(-5536)	3092				Shut-in pressures.
2		3098				
3		3104				
4		3111				
5		3114				
6		3114				
7		3117				
8		3114				
10		3114				
12		3117				
14		3120				
16		3120				
18		3117				
22		3123				
26		3120				
30		3123				
34		3126				
38		3126				

EXPLANATIONS OR CHART

Prior to shut-in, this well and the J.T. Caudle No. 7 had been flowing at normal rates. The J.T. Caudle No. 7 remained flowing during the build-up test on the Amerada-Shell State "A" Unit No. 1.

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BEFORE THE
 OIL CONSERV. COMMISSION
 SANTA FE, NEW MEXICO
 Amrda EXHIBIT No. 6
 CASE 1776

AMERADA BOTTOM-HOLE PRESSURE-TEMPERATURE REPORT

R.P.G. 3 NO. 10775 CLOCK NO. 2149 SPEED 72 HR. LEASE Amerada-Shell State "A" Unit WELL NO. 1
 ELEMENT NO. 10655N RANGE 0-6000# CORR. TO -°F. LOCATION Bagley Area, Lea County, New Mexico
 RUN BY LET/LEK CALCULATED BY LEK REPORTED BY OCM DATE RUN 7-12-57 TIME PULLED 7-15-57 TIME

WELL DATA

POTENTIAL: CHOKE OIL WATER G.O.R. ZONE Penn. TOP 9805 BOTTOM 9815 T.D. 11,075
 HOW PRODUCED P.I. CASING 5-1/2 DEPTH 9889 TUBING 2-3/8 DEPTH 9810
 HOURS SHUT IN 161 WELL HEAD PRESS.: CAS. TUB TOP LINER PERFORATIONS 9805-9815
 LAST RESERVOIR PRESSURE DEPTH DATE ELEVATION 4274 GRAVITY OF OIL SP. GR. OF GAS

TEST RECORD

PURPOSE OF TEST To measure effect of Caudle No. 7 flow on this wells BHP.

Hours	DEPTH	TEMP. PRESSURE			Hours	Pressure	REMARKS
0	9810	3147			18	3138	
1/3	(-5536)	3144			19	3138	
2/3		3141			20	3141	
1		3141			21	3138	
2		3142			22	3138	
3		3141			23	3139	
4		3141			24	3138	
5		3141			26	3144	
6		3141			28	3142	
7		3142			30	3141	
8		3141			32	3142	
9		3139			34	3141	
10		3141			36	3141	
11		3141			38	3141	
12		3141			40	3141	
13		3138			44	3138	
14		3139			48	3138	
15		3139			52	3135	
16		3138			56	3138	
17		3138			60	3138	
					64	3138	
					65	3138	(Well had been shut-in 161 hrs. - see note below)

EXPLANATIONS OR CHART

Ran gauge back in Amerada-Shell State "A" Unit No. 1. Opened J.T. Caudle No. 7 at estimated rate of 4,000 MCF/Day. The "Hours" column above represents hours after the J.T. Caudle No. 7 had been opened. Actually, the Amerada-Shell well had been shut-in approximately 96 hours before the Caudle No. 7 was opened.

AMERADA BOTTOM-HOLE PRESSURE-TEMPERATURE REPORT

CODE

R.P.G. **3** NO. **10775** CLOCK NO. **HK74824** SPEED **48** HR.
 ELEMENT NO. **10655N** RANGE **0-6000** CORR. TO **-** °F.
 RUN BY **LET** CALCULATED BY **LEK** REPORTED BY **OCM**

LEASE **Amerada-Shell State A Unit** WELL NO. **1**
 LOCATION **Bagley Lower Penn., Lea Co., N.M.**
 DATE RUN **7-15-57** TIME **---** PULLED **7-16-57** TIME **---**

WELL DATA **Lower**

POTENTIAL: CHOKE **---** OIL **---** WATER **---** G.O.R. **---**
 HOW PRODUCED **Natural flow thru tbn.**
 HOURS SHUT IN **---** WELL HEAD PRESS.: CAS. **---** TUB **---**
 LAST RESERVOIR PRESSURE **---** DEPTH **---** DATE **---**

ZONE **Penn.** TOP **9805** BOTTOM **9815** T.D. **11,075**
 CASING **5½** DEPTH **9889** TUBING **2-3/8** DEPTH **9810**
 TOP LINER **---** PERFORATIONS **9805-9815**
 ELEVATION **4274** GRAVITY OF OIL **---** SP. GR. OF GAS **---**

TEST RECORD

PURPOSE OF TEST

HOLES	DEPTH	TEMP. PRESSURE				REMARKS
68	9810	3168				
	(-5536)					
70		3168				
72		3165				
74		3162				
76		3153				
78		3162				
80		3162				
82		3156				
84		3156				
86		3156				
88		3153				
90		3153				

EXPLANATIONS OR CHART

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AMERADA BOTTOM-HOLE PRESSURE-TEMPERATURE REPORT

3

CODE

R.P.G. **3** NO. **10775** CLOCK NO. **2149** SPEED **72** HR. LEASE **J.T. Caudle** WELL NO. **7-T**
 ELEMENT NO. **10655N** RANGE **0-6000** CORR. TO **-** °F. LOCATION **Bagley Area, Lea County, New Mexico**
 RUN BY **LEI/LEK** CALCULATED BY **LEK** REPORTED BY **OCM** DATE RUN **7-10-57** TIME _____ PULLED **7-12-57** TIME _____

WELL DATA

POTENTIAL: CHOKE OIL WATER G.O.R. ZONE **Penn.** TOP **9758** BOTTOM **9925** T.D. **9952**
 HOW PRODUCED **Natural flow thru tbg.** P.I. CASING **5-1/2** DEPTH **9956** TUBING **2-3/8** DEPTH **9813**
 HOURS SHUT IN **42** WELL HEAD PRESS.: CAS. TUB TOP LINER PERFORATIONS **9758-9813**
 LAST RESERVOIR PRESSURE **3250** DEPTH **9800** DATE **2-4-57** ELEVATION **4264** GRAVITY OF OIL SP. GR. OF GAS

This well is a gas-gas dual.

TEST RECORD

PURPOSE OF TEST **To determine the build-up characteristics of the well.**

Hours Shut-in	DEPTH	WELL PRESSURE			REMARKS
0	8686	2649			Flowing pressure.
1	(-4422)	2939			Shut-in pressures.
2		2966			
3		2972			
4		2975			
5		2972			
6		2966			
7		2966			
8		2963			
10		2963			
12		2966			
14		2975			
16		2978			
18		2972			
22		2981			
26		2981			
30		2772			
34		2969			
38		2966			
42		2963			

EXPLANATIONS OR CHART

This well had been flowing at its normal rate prior to shut-in. The Amerada-Shell State "A" Unit #1 had been shut-in about 48 hours before the J.T. Caudle #7 was shut-in, and the Amerada-Shell well remained shut-in during the build-up test on J.T. Caudle #7.

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