

WELL RECORD

LEASE Patsy Ruth Murphy "A" Lease WELL NO. 1

☐ EAST ☒ EAST
☒ WEST OF THE ☐ WEST LINE OF THE SW $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$

Morton Kansas
COUNTY STATE

ELEVATION: G.L. 3398 D.F. 3405 R.D.B. 3407

COMPLETED AS: ☐ OIL WELL ☒ GAS WELL ☐ WATER WELL ☐ DRY HOLE

DRILLING COMMENCED 12-21 1956 COMPLETED 2-14 1957

OPERATING COMPANY Pan American Petroleum Corporation ADDRESS Box 591, Tulsa, Oklahoma

TOPS ONLY

NAME			FROM	TO P	NAME			FROM	TO P
1		Herington		2166	4		Lansing		3488
2		Winfield		2224	5		Missouri		3618
3		Topeka			6		Des Moines		4272
							Morrow		4878
							Mississippi		5426

WATER SANDS

WATER GAGES							
NAME	FROM	TO	WATER LEVEL	NAME	FROM	TO	WATER LEVEL
1	None			3			
2				4			

CASING RECORD (OVERALL MEASUREMENT)

LINER-SCREEN RECORD

[illegible]

PACKER RECORD

					SIZE	LENGTH	SET AT	MAKE AND TYPE
						None		

CEMENTING RECORD

MUDDING RECORD

[illegible]

WHAT METHOD WAS USED TO PROTECT SANDS WHEN OUTER STRINGS WERE PULLED? **None**

WERE BOTTOM HOLE PLUGS USED? **No**

IF SO, STATE KIND, DEPTH SET, AND RESULTS OBTAINED _____

ROTARY TOOLS WERE USED FROM 0 FEET TO 5481 FEET, AND FROM _____ FEET TO _____ FEET

CABLE TOOLS WERE USED FOR For Completion FEET TO _____ FEET, AND FROM _____ FEET TO _____ FEET

24-HOUR PRODUCTION OR POTENTIAL TEST

WATER _____ **BBLs.**

20 Min. Open Flow

IF GAS WELL, CUBIC FEET PER ~~XXXXXX~~ 8227 MCF/D SHUT-IN PRESSURE 1110 LBS. PER SQUARE IN.

I, THE UNDERSIGNED, BEING FIRST DULY SWORN UPON OATH, STATE THAT THIS WELL RECORD IS TRUE AND CORRECT ACCORDING TO THE RECORDS OF THIS OFFICE AND TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SUBSCRIBED AND SWORN TO BEFORE ME THIS _____ DAY OF _____ 19____ NAME AND TITLE _____

MY COMMISSION EXPIRES _____

NOTARY PUBLIC

FORMATION RECORD

DESCRIBE EACH FORMATION DRILLED. INDICATE THICKNESS, CONTENT AND WHETHER DRY, OR OIL, GAS, OR WATER BEARING.

FORMATION	TOP	BOTTOM	FORMATION	TOP	BOTTOM
Shale	0	157	Lime, Shale	3407	3432
Red Shale	157	200	Lime	3432	3481
Blue Shale	200	360	Lime, Shale	3481	3597
Redbed	360	670	Lime	3597	3650
Red Shale	670	1010	Shale & Lime	3650	3710
Redbed, Lime	1010	1130	Lime, Shale	3710	3890
Redbed, Sand stks.	1130	1395	Lime	3890	4172
Anhy Stks.	1395	1430	Lime, Shale	4172	4464
Anhy	1430	1509	Shale, Lime	4464	4510
Red Bed, Anhy	1509	1835	Lime, Shale	4510	4705
Redbed	1835	2067	Shale, Lime	4705	4776
Lime & Shale	2067	2208	Lime, Shale	4776	4833
Sand, Lime, Shale	2208	2315	Shale	4833	4902
Lime, Shale	2315	2540	Lime, Shale	4902	4949
Shale, Lime	2540	2561	Shale	4949	5014
Lime, Shale	2561	2677	Shale, Lime	5014	5150
Lime	2677	2724	Shale	5150	5270
Lime, Shale	2724	2927	Shale, Lime	5270	5330
Lime	2927	2963	Shale, Sand	5330	5378
Shale, Lime	2963	3044	Lime, Shale	5378	5450
Lime, Shale	3044	3217	Lime	5450	5481
Shale, Lime	3217	3255	TD 5481'		
Lime, Shale	3255	3344			
Lime, Shale, Cherty Lime	3344	3407			
Summary of Drilling and Completion Operations:					
Operations commenced 12-19-56					
Spudded 12-21-56					
Bottom of Cellar to ground level 4.65'					
Ground level to Rotary Drive Bushing 9.15'					
Elevation: Ground Level 3398'					
Derrick Floor 3405'					
Rotary Drive Bushing 3407'					
8-5/8" casing set at 1509' w/800 sx. Pozmix #1 cement w/2% Calcium Chloride. Cement did not circ.					
F Schlumberger Laterolog, Microlaterolog, Self-Potential Log & Gamma Ray Log w/tops:					
Nerington 2166'					
Winfield 2224'					
Topeka 3154'					
Lansing 3488'					
Missouri 3618'					
Des Moines 4272'					
Morrow 4878'					
Mississippi 5426'					
5½" casing 5480' w/1300 sx. Pozmix #1 cement. 400 sx. below and 900 sx. above DV Multiple					
Stage Cementer. Permanent Bench Mark 11.06' above side outlets in 8-5/8" Braden Head.					
Total Depth 5481'. Plugged Back Depth 5379'.					
DST #1, 2164-2208'. Gas to surface in 10 min. 1 hour gauge 251 MCF/D. Recovered 360' gas cut mud.					
Initial flow 90#, final flow 110#. BHP 500#. Hydrostatic Head 990#.					
DST #2, 3291-3344'. Weak blow, drying in 50 min. Tool closed 30 min. Recovered 60' gas cut mud.					
Initial flow 0, final 80#. BHP 510#. Initial Hydrostatic Head 1710#, Final 1630#.					
DST #3, 4252-93'. Open 1 hr, closed 20 min. Weak blow for 20 min. Recovered 7' mud. Initial and					
final flow 20#. BHP 110#. Hydrostatic Head 1950#.					
DST #4, 5079-5150'. Open 1 hr, closed 1/2 hr. Fair blow. Recovered 180' gas cut mud. Initial					
flow 60#, final flow 110#, BHP 740#, Hydrostatic Head 2460#.					
DST #5, 5317-79'. Open 1 hr, closed 1/2 hr. Gas to surface in 9 min. 1 hr. gauge 1020 MCF/D.					
Recovered 270' Hvy. GCM. Final flow 210#. BHP 1340#. Hydrostatic Head 2500#.					
DST #6, 5403-81'. Open 1 hr, closed 1/2 hr. Recovered 120' GCM w/brown stain. Initial flow 10#,					
final flow 40#. Hydrostatic Head 2650#.					