

Geological Report on

MARCOUX #1
C SW NE 26-T6S-R12E
Pottawatomie County, Kansas

of

PENDLETON LAND & EXPLORATION, INC. Englewood, Colorado

OWLL

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# Gurtis E. Govey

## PETROLEUM GEOLOGIST 3047 SOUTH MOUNT CARMEL WICHITA, KANSAS 67217

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GSA KGS AAPG CSPG SPE SPWLA ASP

2 August 1983

Pendleton Land & Exploration, Inc. 23 Inverness Way East Englewood, Colorado 80112

Re: Marcoux #1

C SW NE 26-T6S-R12E

Pottawatomie County, Kansas

### Gentlemen,

The following manuscript letter and enclosed geologist's log is a summary of the referenced well.

## RECOMMENDATION

A recommendation is made to the operator that the well be considered 'dry' and to be plugged in accordance with state rules and regulations. All sample shows/cdors were objectively analyzed or drill stem tested from surface to 3,790' (RTD).

#### GEOLOGICAL DATA

Formation Tops*:	Heebner Shale 1,242' (	+141')
	Lansing Group 1,466'	(-83')
	Base of the Kansas City Group . 1,775' (	-392')
	Mississippian-aged Limestone . 2,640' (-1	,257')
	Kinderhook Shale 2,689' (-1	,306')
	Hunton 2,908' (-1	,525')
	Maquoketa Shale 3,434' (-2	,051')
	Viola 3,507' (-2	
	Simpson Group 3,656' (-2	,273')
	Granite 3,747' (-2	
	* Log massured from Vally Dushing, E fact	

<sup>\*</sup> Log measured from Kelly Bushing; 5 feet above Permanent Datum.



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Sample examination used in conjunction with the electric logs' calculations suggests the information as noted below.

## HYDROCARBON SHOW (S)

 $0_{\rm eff}=10\%-14\%$ , Rt=44-50 ohms, Rw= .10 ohms, BW=1%-6% & Sw=60%-80%. (Archie's)

Permeability is suggested by mudcake and DST #1.

 $0_{eff}=20\%-22\%$ ,  $R_{t}=50-60$  ohms,  $R_{w}=.10$  ohms, BW=2%-3% &  $S_{w}=91\%-93\%$ . (Archie's)

Slight permeability is suggested by mudcake.

 $0_{eff}=3\%-12\%$ ,  $R_{t}=30-100$  ohms,  $R_{w}=.45$  ohms, BW=2%-6% &  $S_{w}=60\%-100\%$ .

Good permeability is suggested by mudcake.

Dolomite (Trace Calcareous) -- Light/
Medium Tan. Mottled/Singular. VF/M
Re-XLN. Euhedral crystals. Dense to
Friable. No/Good visible porosity.
No odor. Some pale yellow flouresence.
On own and after crushing, Medium/Dark
Brown Live oil. No gas. Spotted/Uniform Light Brown Stain. Positive strong
blue streaming cut/residual. Positive
acid/residual. Live oil scum on wash
water.

Dolomite (Trace Calcareous) — Medium Tan. F Re-XLN. Euhedral crystals. Friable. Trace/Fair visible porosity. No odor. No flouresence. Spotted black aspathic flecks. Negative cut/residual. Negative acid/residual. Spotted/Uniform Medium Tan Stain.

Sandstone — White/Medium Brown. Mottled. VF/F grain size. Subangular/Subrounded. Moderately Sorted. Moderate/Highly Sphericity. Vitreous Luster. Calcareous cement. Friable. Fair visible porosity. No odor. Mostly blue/Spotted pale yellow flouresence. After crushing, few pieces give free dark brown/black dead oil. Mostly blacke aspathic flecks. Spotted/Uniform Medium Brown Stain. Weak positive cut/residual. Weak positive acid/residual.

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## DRILL STEM TEST (S)

1. Viola . . . . . . . . . . Interval: 3,494' - 3,512'.

Recovery: 1,925' Water

IFP: 295#-599#/30". ISIP: 1,246#/45". FFP: 639#-1,007#/60". FSIP: 1,246#/90".

Cl- (4.3M) Temp: 121°F

#### **GENERAL**

Spudded: 22 July 1983. Plugged: 2 August 1983.

Contractor: McAllister Drilling Company -- Rig #10.

Depth: Rotary - 3,790'KB. & Logger's - 3,790'KB.

Elevation: 1,383'KB, 1,381'DF & 1,378'GL.

#### CASING

Surface: 8-5/8", New, Set @ 332' with 175 sx Common (3% CC).

Production: None.

#### SURVEYS

Electric Log: Schlumberger. Mud Program: Pro-Chem.

Gas Detector: Analex. Cores: None.

#### DISCLAIMER

The service rendered on the Marcoux#l was done without any biasing influence, intentional or unintentional, from any employee or representative of Pendleton Land & Exploration, Inc. In this review, I am an independent petroleum geologist and subsequently, not an employee of the referenced company. I will not receive any financial benefit from the positive completion of the subject well.

PENDLETONE LAND & EXPLORATION, INC. MARCOUX #1
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Pottawatomie County, Kansas

## DISCLAIMER Cont'd.

The enclosed geologist's log is considered an intergral part of this report and is not intended to be separated from the same.

The recommendations made hereon shall not be construded as absolute and are made without assuption of liability and are statements of observation/research/training/opinion only.

Should you require the services of a petroleum geologist at any time in the future, every effort will be made to serve you in the most efficient manner available.

Respectfully submitted,

Curtis E. Covey

CEC:fyd cc:file

ENCL: GEOLOGIST LOG
SURFACE SERVICE TICKETS
DST #1 SERVICE TICKET
E-LOG SERVICE TICKET
DRILLING MUD REPORTS
DRILLING TIME SHEETS

STRAIGHT HOLE TARGETS

STRAP SHEET