

OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS 66720 - PHONE (316) 431-2650

October 13, 1983

Mack C. Colt, Inc.
P. O. Box 388
Iola, Kansas 66749

Gentlemen:

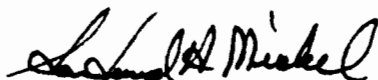
Attached hereto are the results of tests run on the rotary core taken from the Henniger 'B' Lease, Well No. 1-AO, located in the Northeast $\frac{1}{4}$ of the Northeast $\frac{1}{4}$, of the Northeast $\frac{1}{4}$ in Section 10, T-24S, R-21E, Allen County, Kansas.

The core was sampled in the laboratory after being delivered unbagged by a representative of the client on October 10, 1983. The client reported the core had been exposed to air for three days.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Sanford A. Michel

SAM/rmc

5 c to Iola, Kansas

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LOGCompany Mack C. Colt, Inc. Lease Henninger 'B' Well No. 1-AO

<u>Depth Interval, Feet</u>	<u>Description</u>
<u>BARTLESVILLE SANDSTONE</u>	
608.0 - 612.0	Gray shaly sandstone.
612.0 - 619.4	Gray slightly sandy shale.
619.4 - 620.0	Gray shale containing a vertical fracture.
620.0 - 620.5	Grayish brown very shaly sandstone.
620.5 - 622.0	Gray shale.
622.0 - 622.2	Grayish brown shaly sandstone.
622.2 - 623.0	Brown sandstone.
623.0 - 624.0	Brown sandstone with scattered gray shale inclusions.
624.0 - 625.0	Brown slightly shaly sandstone with scattered gray shale and mica partings.
625.0 - 627.3	Brown sandstone with scattered gray shale and mica inclusions.
627.3 - 627.7	Gray and brown finely laminated shale and sandstone.
627.7 - 628.2	Grayish brown shaly sandstone.
628.2 - 629.1	Brown shaly sandstone with scattered gray shale partings.
629.1 - 629.6	Gray and brown laminated shale and sandstone.
629.6 - 631.3	Gray slightly sandy shale.
631.3 - 631.5	Brown sandstone.
631.5 - 632.0	Brown sandstone with gray shale nodules.
632.0 - 632.2	Gray shale.
632.2 - 633.0	Gray and brown laminated shale and sandstone.

Company Mack C. Colt, Inc. Lease Henninger 'B' Well No. 1-A0

<u>Depth Interval, Feet</u>	<u>Description</u>
633.0 - 634.4	Brown sandstone with scattered gray shale inclusions.
634.4 - 635.5	Gray shale with scattered brown sandstone partings.
635.5 - 636.5	Brown sandstone with scattered gray shale and mica partings.
636.5 - 639.0	Gray and brown laminated shale and sandstone.
639.0 - 639.3	Brown sandstone.
639.3 - 640.0	Gray and light brown laminated shale and sandstone.
640.0 - 641.4	Grayish brown very shaly sandstone.
641.4 - 641.6	Brown shaly sandstone.
641.6 - 643.0	Grayish brown shaly sandstone.
643.0 - 647.0	Gray slightly sandy shale.
647.0 - 649.1	Gray slightly sandy shale with widely scattered brown sandstone partings.
649.1 - 657.0	Gray shale.

HENNINGER B1A0

Elev. 1004.5'

- 8-611.6 ss gry, vy fn gr, med w/ dotted dark sil
- 617 sh. med gry
- 619.4 lbnt, silty
- 620.1 siltst & sh interl 20" x strat, irreg $\frac{1}{4}$ " ven sh
- 620.6 ss, vlt, fn gr, good sat & sh med gry, ss 65 = sh 35
- 622.0 siltst lt gry & sh, med gry in sl wavy intel.
- 627.25 ss, ~~fn~~ → med gr, good sat, w/ scat siltst ptings
- 629.1 ss fn → vy fn gr ^{good sat} w/ 5% sh & siltst lam
- 629.8 lbnt interb w/ 2" sh licks
- 631.5 sh, med gry w/ 10% lam of wh siltst.
- 632 ss, fn gr w/ flat med ^{siltst} sh pebs in basal 2' $\frac{1}{2}$ "
- 632.3 sh, med gry
- 634.7 ss, med → fn gr good sat w/ scat flat wh pebs of siltst
- 635.6 sh, med gr, interl w/ siltst, wh; 1" of ss fn gr good sat
- 636.6 ss fn gr, good sat
- 637.1 siltst, wh, intel w/ sh dk gry
- 637.6 ss, fn gr good sat
- 638.3 sh med gry, vy contorted w/ siltst interl & 1" ss fn gr good sat
- 639.1 ss, fn gr, good sat, w/ 5% siltst lam
- 640 sh, dk gry, w/ abnd. siltst, wh, interl.
- 640.5 ss, fn gr, good sat.
- 640.8 sh, med gry (vy contorted & siltst wh)
- 642.9 ss, fn gr, good sat, w/ 30% interb sh, med gry
- 648 sh, med gry w/ scat vy thin irreg ptings siltst, wh
- 648.4 ss, vy fn gr, med sat w/ thin interb sh, gry
- 657.0 sh, med gry, locally slicken, irreg x strat

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company Mack C. Colt, Inc. Lease Henninger 'B' Well No. 1-AO

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A. Ft.	Permeability, Millidarcys
			Oil	Water	Total		
1	622.5	17.3	38	17	55	510	97.
2	623.8	17.1	37	17	54	491	72.
3	624.9	14.1	48	19	67	525	9.4
4	625.9	16.3	66	12	78	835	25.
5	626.9	16.8	40	17	57	521	52.
6	627.9	10.6	15	52	67	123	2.0
7	628.9	12.5	30	25	55	291	1.6
8	633.1	14.7	32	18	50	365	22.
9	634.1	15.7	34	25	59	414	13.
10	636.2	14.7	40	13	53	456	21.
11	638.6	11.0	46	25	71	393	0.63
12	641.5	13.6	42	21	63	443	2.4

RESULTS OF SATURATION & PERMEABILITY TESTS

LEASE HENNINGER "B"

-Well No. 1A0[illegible]