

BERNARD W. LOUNSBURY
CONSULTING GEOLOGIST
VICKERS-KSB&T BUILDING
WICHITA, KANSAS 67202

January 3, 1972

Murfin Drilling Co.
617 Union Center
Wichita, Kansas

Re: Murfin Drilling Co.
#1 Bliss
C NW SW
Section 33-2S-34W
Rawlins County, Kansas

Gentlemen:

The following is a sample analysis report of the above captioned test. Samples were examined from 3200' to 4010', total depth. The test was under geological supervision from 3620' to total depth.

COMMENCED: 12-28-71
COMPLETED: 1-2-72
CONTRACTOR: Rig #8, Murfin Drilling Co.
ELEVATIONS: 3057' K.B.
3054' D.F.
3052' G.L.
CASING RECORD: 8 5/8" @ 247' w/225sx.

<u>FORMATION</u>	<u>DEPTH</u>	<u>SEA LEVEL DATUM</u>
Anhydrite	2825'	+232'
Base Anhydrite	2874'	+183'
Wabaunsee	3523'	-466'
Topeka	3811'	-754'
Oread	3918'	-861'
Heebner	3939'	-822'
Lansing	3983'	-926'
Total Depth	4010'	-953'

All measurements from rotary bushing elevation.

DRILL STEM TESTS:

None

CORING RECORD:

None

ELECTRICAL SURVEY:

A Dresser Atlas Gamma Ray Log was run inside drill pipe for correlation purposes from 3400' to 4005', depth reached.

WABAUNSEE:

- 3703'-06' Gray, finely crystalline to dense, slightly fossiliferous limestone with a rare trace of asphaltic to gilsonite stain in poor fossil porosity. No odor. No free oil.
- 3726'-30' Cream, finely crystalline, fossiliferous limestone. Fair to poor fossil porosity. Rare trace tarry free oil. Spotty asphaltic to gilsonite stain. No odor.

OREAD:

- 3918'-28' Gray, finely crystalline to chalky, fossiliferous limestone with a trace of gilsonite stain in poor fossil porosity. No odor. No free oil.

LANSING:

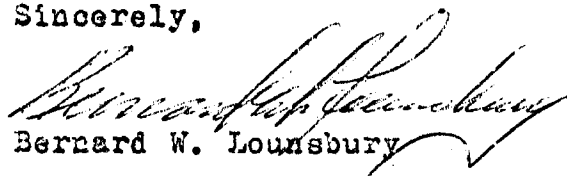
- 3983'-86' Cream, finely crystalline to chalky, slightly fossiliferous limestone with a rare trace of dead spotted stain. No odor. No free oil.

REMARKS:

Structurally the #1 Bliss is 9' lower than the Skelly #1 Ankle, a dry hole $\frac{1}{2}$ mile northwest, 8' lower than the Stewart #1 Ankle, $\frac{1}{2}$ mile northwest and 5' lower than the Murfin #1 Steele, 1 mile northeast.

Therefore, plugging orders were secured and the #1 Bliss was abandoned in the Lansing at the total depth of 4010' (-953').

Sincerely,



Bernard W. Lounsbury

BWL:sl

DRILLING TIME

2800	2810	1-1-1-1-1-1-1-1-1-1
	20	1-1-1-1-1-1-1-1-1-1
	30	1-1-1-1-1-2-1-2-2-3
	40	3-3-3-3-3-2-3-3-3-4
	50	4-3-4-4-5-4-5-5-2-3
	60	3-4-4-3-4-4-4-3-3-4
	70	4-2-1-1-1-1-1-1-1-1
	80	2-4-5-5-2-1-1-1-1-2
	90	2-2-2-1-2-1-1-1-1-1
	2900	1-1-1-1-1-1-1-1-1-1
2900	2910	1-1-1-1-2-1-2-2-1
	20	1-1-1-1-1-1-1-1-1-1
	30	2-2-3-3-2-3-4-2-3-2
	40	2-2-2-2-2-2-2-1-2-1
	50	1-2-1-2-2-2-1-2-2-2
	60	2-3-2-3-2-2-2-3-2-4
	70	2-3-4-2-1-1-1-1-2-1
	80	1-1-1-2-2-2-3-1-2-2
	90	1-1-1-1-1-1-2-1-2-1
	3000	1-1-1-1-1-1-1-1-1-1
3000	3010	1-1-1-1-1-1-1-1-1-1
	20	1-2-1-1-1-2-2-1-2
	30	2-1-2-2-2-2-2-1-1-2
	40	2-1-2-2-2-1-1-2-2-2
	50	1-1-1-1-1-1-1-1-1-1
	60	1-2-2-2-2-1-1-1-1-2
	70	2-1-1-2-2-1-2-2-2-1
	80	2-1-1-1-1-1-1-1-1-2
	90	1-1-1-1-1-1-1-1-1-1
	3100	1-1-1-1-1-1-1-1-1-1
3100	3110	1-1-1-1-1-1-1-1-2-1-1
	20	1-1-1-1-2-2-2-1-2-2
	30	1-1-1-1-1-1-1-1-2-1
	40	1-1-1-2-1-1-1-1-1-1
	50	1-1-1-1-1-1-1-1-2-2-2
	60	2-2-1-2-2-3-2-2-2-2
	70	2-1-2-2-3-3-3-2-3-2
	80	2-1-2-1-2-2-2-2-2-2
	90	2-1-2-2-1-2-3-2-2-2
	3200	2-2-1-2-2-2-3-2-2-2
3200	3210	3-2-2-2-2-2-1-1-2-1
	20	2-1-2-1-2-2-2-3-2-3
	30	3-1-2-2-2-1-2-2-1-2
	40	2-2-2-1-2-3-2-2-3-2
	50	2-2-2-2-3-2-2-2-3-2
	60	2-3-2-2-2-3-2-3-3-1
	70	1-1-1-1-1-1-1-1-1-1
	80	1-2-2-1-2-2-2-2-3-2
	90	2-2-2-2-2-2-2-3-2-1
	3300	2-1-2-2-2-2-2-1-2-1

Trip @ 3259'

3300	3310	1-1-2-2-1-1-1-2-1-1
	20	1-2-1-2-1-2-1-2-2-1
	30	1-1-1-2-1-2-2-2-1-1
	40	1-2-1-2-2-2-2-2-2-2
	50	1-2-2-2-2-2-2-2-2-1
	60	2-2-1-1-2-2-1-1-2-1
	70	1-2-1-2-1-2-2-1-2-2
	80	1-2-2-1-2-2-1-2-1-2
	90	2-1-1-2-1-1-1-2-1-1
	3400	1-1-1-2-1-2-1-1-2-1
3400	3410	2-1-1-2-1-2-1-1-2-1
	20	2-1-2-2-1-1-2-1-2-2
	30	1-2-2-2-2-2-2-1-2-3
	40	2-2-2-2-3-2-2-1- $\frac{1}{2}$ - $\frac{1}{2}$
	50	$\frac{1}{2}$ - $\frac{1}{2}$ -1/3-1/3-1/3-1- $\frac{1}{2}$ -1-1
	60	1-2-3-2-1-1-1-2-2-2
	70	2-3-2-2-2-2-3-3-4-4
	80	2-3-3-2-3-3-4-2-3-3
	90	$\frac{1}{2}$ - $\frac{1}{2}$ -1- $\frac{1}{2}$ - $\frac{1}{2}$ -1-1-1-1-1
	3500	1-1-1-2-3-2-3-4-3-4
3500	3510	4-4-3-4-4-4-4-3-3-3
	20	4-3-4-3-4-3-4-4-3-3
	30	4-4-4-2-1-2-2-2-2-2
	40	3-3-3-4-3-3-2-2-2-4
	50	3-3-4-4-4-4-4-4-4-5
	60	4-4-5-4-4-4-5-4-4-4
	70	3-5-3-3-2-6-4-3-3-2
	80	2-3-3-4-4-4-3-4-4-5
	90	4-5-3-4-5-4-4-3-3-4
	3600	5-3-4-4-4-5-5-5-4-5
3600	3610	3-4-2-4-4-3-3-4-6-6
	20	6-6-6-5-5-4-5-5-5-6
	30	5-6-5-6-6-5-4-6-6-4
	40	5-4-5-6-2-5-5-7-8-6
	50	5-5-6-6-5-5-6-5-1-2
	60	2-3-1-2-1-1-1-2-3-3
	70	2-2-1-2-2-2-2-2-1-2
	80	1-2-2-1-2-2-1-2-1-2
	90	2-3-2-2-1-2-1-2-2-3
	3700	3-2-4-3-3-2-2-2-2-2
3700	3710	3-2-2-3-3-4-3-4-2-3
	20	4-3-3-4-5-3-5-3-3-2
	30	2-2-2-2-2-2-2-2-3-4
	40	3-4-4-5-4-3-3-3-4-3
	50	2-2-2-2-2-2-2-2-2-3
	60	2-3-2-4-4-4-5-4-4-2
	70	2-2-2-2-2-3-4-4-3-2
	80	2-3-2-3-2-2-2-3-3-3
	90	3-3-3-3-3-3-3-3-3-3
	3800	3-3-3-4-4-3-3-3-3-3

Trip @ 3648'

33-2-34W

Buss No1

3800	3810	3-3-3-4-3-3-4-3-3-2
	20	3-2-3-4-5-5-5-6-6-5
	30	5-5-4-4-5-4-3-4-5-4
	40	4-4-4-3-3-1-1-2-3-3
	50	3-2-3-4-3-3-3-3-4-4
	60	4-2-1-2-1-2-2-2-3-3
	70	3-3-3-3-3-3-3-3-2-4
	80	3-3-4-4-5-5-5-5-6-6
	90	5-6-6-5-5-4-4-4-5-4
	3900	5-4-4-4-5-4-5-5-4-5
3900	3910	5-3-5-4-4-4-4-4-4-3
	20	3-3-4-3-3-3-4-3-3-4
	30	4-5-4-3-3-2-3-4-4-5
	40	6-6-6-5-6-5-6-5-6-5
	50	4-4-7-5-6-5-4-4-4-3
	60	3-5-3-2-2-3-3-4-3-4
	70	4-4-4-4-4-5-5-5-4-5
	80	5-5-5-5-5-4-6-5-6-5
	90	4-6-4-4-6-5-4-5-7-6
	4000	6-6-6-6-6-5-6-5-7-7
4000	4010	7-5-5-6-6-4-3-3-5-5

T.D. @ 4010'