3-13S-13W

Examination of cuttings from
Phillips #1, Sec. 3-13 S-13 W., Russell County
of M. M. Valerius Oil & Gas Company.
By N. W. Bass

Plotted

2800 Open textured limestone. Abundantly fossiliferous. A little gray black fissile shale.

2815 White limestone. Fossils. (Crinoid stem fragments and fragments of Fusulina) Few small quartz crystals.

2820 Greenish gray shale. Light gray cherty lime. Little red shale.

2825 White open textured limestone and light gray cherty lime. Trace of pyrite. A very little black shale. Fossils.

2835 Light gray cherty limestone and creamy white open textured lime. Trace black shale. Fossils.

2856 Light gray calcareous shale. Little black shale. Little pyrite. Fossils (Fusulina).

2855 Light gray open textured limestone. Light gray calcareous shale, and gray non-calcareous shale. Little pyrite. Crinoid stems.

2920 Light gray calcareous shale and limestone. Trace red shale.

2930 Light gray shale and grayish white lime. Trace red shale.

2965 Dark gray shale. Some white porous and mottled gray limestone.

2985 White limestone. Some gray and dark gray shale.

3000 White lime and gray shale. Fossils.

3020 Gray calcareous shale. Dark gray chert. Little white limestone. Little pyrite. Fossils.

3030 Same

3040 Red and green shale. Little white limestone.

3050 Red and green shale. Some white lime.

3055 Green and red shale and white limestone. A very little chert. Trace pyrite. Fossils. (Fusulina?)

3060 White oolitic limestone. Green and red shale. Some white chert. Little pyrite. Fossils.

3070 Green and red shale and white limestone.

3080 Red shale. Some green shale and white lime. Trace pyrite.

3100 White lime. Some greenish gray shale. Trace pyrite. Fossils (Fusulina).

3115 Dingy gray chert. Little dark shale. Fossils (Fusulina).

3125 Light gray cherty lime. Some gray shale. Little pyrite.

3-13s-13w

3135	Gray and dark gray limestone, slightly cherty; and gray shale.
3145	Gray and white lime and greenish gray shale. Fossils.
3155	Gray and black shale. Little dark cherty limestone. Little pyrite.
3160	White and gray slightly cherty and oolitic, very fossiliferous lime; some greenish gray shale.
3170	Gray shale. Some gray chert. Trace pyrite. Fossils.

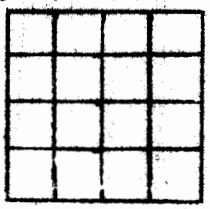
Company Valerious Oil Co.

Sec. 3 T. 13S R. 13W
Loc. SW cor.

Farm Phillips No. 1

Total Depth 3810
Comm. 2/1/24
Comp. 8/31/24
Shot or Treated
Contractor
Issued

County /Russell



Elevation 1693

Production Dry

By R. Roth

Casing

20 in.	10 in.
15 1/2	8 1/4
12 1/2	6 5/8
13 3/8	5 3/16

Figures Indicate Bottom of Formation

	Surface - 0-125
0-125	One sample, Angular to frosted sand and gray shale
	Dakota 125-310
125-200	One sample, Angular to frosted sand and glauconitic
200-280	Angular to frosted sand, pyrite and glauconite
280-310	Very coarse sand and pyrite
	Woodward Formation - 360-685
360-685	One sample, of bright red grits
	Cave Creek 685-730
685-730	Anhydrite and gyp
	Lower Enid 730-970
730-740	Terra Cotta shale
740-745	Gyp
745-770	Terra Cotta shale
770-775	Gyp
775-865	Terra Cotta shale
865-870	Gyp
870-910	Terra Cotta shale
910-970	One sample, Terra Cotta Shale
	Wellington 870-1490
870-995	Brown shale
995-1000	Gyp
1000-1050	Brown shale
1050-1060	Gray shale, gyp and salt
1060-1390	One sample, gyp, anhydrite, gray shale and red grits
1390-1395	Salt
1395-1400	Anhydrite

1485-1490	Anhydrite, gyp, gray shale and grits
	Chase 1730-1850
1730-1850	One sample, red grits (Material same as that above the Cave Creek)
	Garrison? 1981-1990
1981-1990	Greasy gray shale, lime, and brown shale, fossiliferous
	Neva? 1990-2010
1990-2010	Granular lime T. sp.
	Waubaunsee 2135-2309
2135	Gray shale and marl
2220	Granular lime
2245	Fine and buff shale and lime T. sp,
2290-2295	Dark gray marl T. sp., and F. cf. Longissimoide
2300-2307	Angular sand and grits
	Shawnee 2400-2445
2400-2420	Gritty dark gray shale
2420-2435	Dark gray shale, sand, and lime T. sp. T. cullomensis
2435-2445	Dark gray shale
	Ervine Creek 2445-2647
2445-2475	Lime and marl, with some dark gray shale T. beedei, F. pawhuskaensis, F. pawhuskaensis
2520	White chalky lime
2560-2575	White chalky lime
2575-2580	Gray shale
2642	Gray shale and dense brown lime
	Kansas City-Lansing 2800-3170
2800-	Granular proeous lime T. cf. cullomemsis (KL)
2815-2820	White lime
2820-2825	Lime and dark gray shale
2835	Granular lime and chert
2855-2856	Lime and gray shale T. cf. cullomensis (KL)
2920-	Gray shale and lime
2930	Brown shale and lime
2965	Oolitic granular dolomite and chert
2985	Lime
3000	Lime
3020	Greasy, gray, green shale andchert
3030	Greasy, gray, green shale and lime
3040	Lime
3045-3055	Oolitic lime T. cf. cullomensis (KL) T. sp. li
3055-3060	Chert
3070	Lime
3080	Gray and brown shale
3100-3130	Lime T. cf. cullomensis (KL) Staffella sp. Orobius sp.
3130-3135	Gray shale
3145	Lime
3155-3160	Black shale and granular lime Staffells sp.
3170	Lime and gray shale Orobious sp. (very abundant)

Decora in part 3400-3480

3400	Frosted sand, dolomite, green and red shale
3465-3480	Sucrose dolomite

Chasyan in part 3480-3815

3480-3485	Angular to frosted sand and dolomite
3485-3495	Chert and dolomite
3510-3520	Dolomite
3520-3530	Green and red shale, frosted sand and dolomite
3538-3540	Angular to frosted sand
3540-3554	Dolomite
3815-	Very coarse angular to frosted sand, containing green and brown shale with many conodonte and graptolites.