15-025-00121

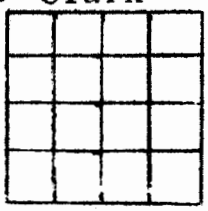
Company R. Watchorn

Farm Stephen No. 1 3?

Sec. 21 T. 32S R. 21W
Loc. C/ NW NW

Total Depth 5475
Comm. 3-28-28 Comp. 11-14-28
Shot or Treated
Contractor
Issued

County Clark



Elevation 2119

Production 20M. Gas

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

	Marmaton 4849 - 5055
4849-4855	Granular lime.
4855-4860	Gray chert and granular lime.
4860-4875	Granular lime, quite porous.
4875-4896	Black platy shale and lime shells.
4900-4905	Lime.
4905-4910	Granular green lime.
4910-4920	Light buff lime.
4920-4925	Fissile gray shale.
4925-4945	Lime and translucent chert.
4945-4960	Dense buff lime.
4960-4970	Gray crystalline lime.
4970-4998	Buff to gray lime.
4998-5005	Light to dark gray shale. Fusulinidae: Castropoda Amphissites, Centronotus, Seminulites, sp. Healdia sp. Kirkbya, perplexa and Bairdia sp.
5005-5025	Lime.
5025-5055	Alternating beds of lime, gray marl, and gray shale.
	Cherokee 5055 - 5475
5055-5060	Gray shale.
5060-5070	Very dark shale/
5070-5075	Lime.
5075-5090	Gray carbonaceous shale.
5090-5095	Black shale.
5095-5105	Lime.
5105-5110	Black shale.
5110-5115	Buff lime.
5115-5125	Carbonaceous shale, some coal
5125-5130	Dark gray shale.

Figures Indicate Bottom of Formation

5130-5135	Lime	
5135-5145	Dark gray shale	Amphissites, cereae.
5145-5150	Lime	
5150-5155	Dark gray shale	
5155-5160	Lime	
5160-5165	Black shale.	
5165-5180	Greasy green gray shale	
5180-5185	Brown shale and lime	
5185-5200	Varigated shale	
5200-5205	Black shale	
5205-5210	Lime and gray shale	
5210-5220	Fissile dark gray shale	
5220-5230	Varigated shale	Chonetes mesolobus.
5230-5235	Gray shale	
5235-5240	Lime	Fusulinella sp.
5240-5245	Cherty and gray shale	
5245-5250	Dense buff lime	
5250-5270	Nodular dark gray shale	Lonchodus ?
5270-5280	Black shale	
5280-5290	Black shale and cherty lime	Fusulinella girtyi? (cave).
5290-5295	Gray shale	
5295-5300	Lime	
5300-5310	Gray and black shale	
5310-5320	Lime	Fusulinella meeki?
5320-5345	Dark gray shale	
5345-5350	Brown cherty lime	
5350-5370	Black carbonaceous shale with lime shells	
5370-5385	Carbonaceous shale	
5385-5410	Alternating lime and carbonaceous shale	
5410-5420	Dark gray shale	
5420-5430	Lime	
5430-5440	Varigated granular shale, with some very fissile gray shale	
5440-5442	Frosted sand	
5454-5460	Gray shale	
5460-5465	Angular to frosted sand	
5465-5475	Very fissile light and dark gray shale	F. meeki.

Note: The base of the Hermatom may be as low as 5145, or the top of the Cherokee may be above 4849. There are no fossils that are absolutely indictive one way or the other. I rather imagine the first is correct.