



CONSULTING GEOLOGIST

Geologist's Report
Drilling Time and Sample Log

OPERATOR Chieftrain Oil Co. Inc
LEASE AHS Cattle Co. WELL NO. #10
FIELD Strathman API No. 15-007-24255

LOCATION N/2 N/2 NE SE 2490 FSL & 660 TEL
SEC. 12 TWP. 35S RGE. 12W
COUNTY Barber STATE Kansas

CONTRACTOR Maverick #106
COM. 12/29/2014 COMP. 01/04/2015
RTD 5467' LOC TD 5476'
SAMPLES SAVED FROM 4100' TO TD
DRILLING TIME KEPT FROM 4100' TO TD
SAMPLES EXAMINED FROM 4300' TO TD
GEOLOGICAL SUPERVISION FROM 4300' TO TD
MUD LOG TYPE MUD GEL/CHEMICAL

FORMATION TOP BOTTOM SAMPLER STRICK
Kansas City 4370 -2878 -4367 -2975
Stark Sh 4515 -3123 -4512 -3120

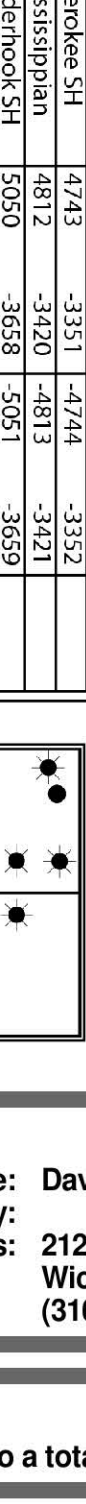
Slope 4528 -3136 -4527 -3135
Cherokee Sh 4743 -3351 -4744 -3352
Mississippian 4812 -3420 -4813 -3421
Kinderhook Sh 5050 -3658 -5051 -3659
Chattanooga Sh 5131 -3739 -NA -NA
Maquoketa Sh 5162 -3770 -5150 -3738
Viola 5218 -3826 -5214 -3822
Base Viola 5318 -3926 -5308 -3916
Simpson 5338 -3946 -NA -NA

TD 5476
REFERENCE WELL FOR STRUCTURAL POSITION

ELEVATION
KB 1392'
DF 1391'
GL 1382'

Measurements Are All
From KB
CASING RECORD
SURFACE Bore 13 3/8" 3408'
w/ 360 SX 60/40 P/OZ
PRODUCTION Bore 5 1/2" 12813'
@5436 w/ 225 SX 6A2

ELECTRICAL SURVEYS
NDM/DI



GEOLOGIST

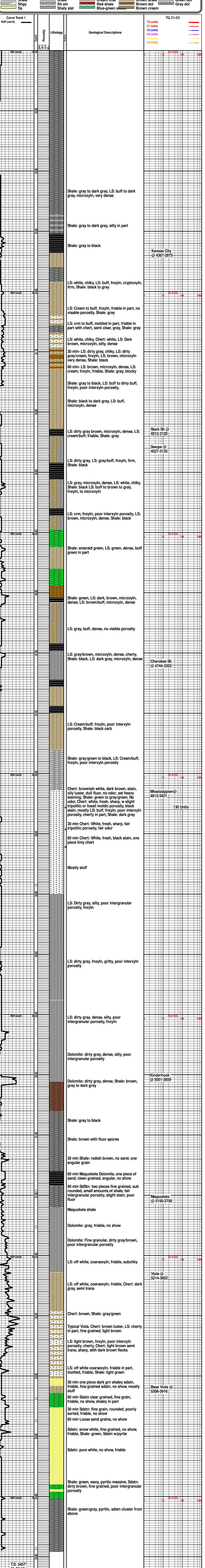
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Company:
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Remarks

Production casing was set to a total depth 5436' to further test the Mississippian formation.

ACCESSORIES

- FOSSIL: Algae, Amph, Belm, Bioclst, Brach, Bryozoa, Cephal, Coral, Crin, Echin, Fish, Foram, Fossil, Gastro, Oolite, Ostra, Pelec, Pellet
- Pisolite, Plant, Strom, Fuss, Oomold
- MINERAL: Anhy, Arggrn, Arg, Bent, Bit, Brecfrag, Calc, Carb, Chtdk, Chtit, Dol, Feldspar
- Ferrpel, Ferr, Glau, Gyp, Hyvmin, Kaol, Marl, Minxl, Nodule, Phos, Pyr, Salt, Sandy, Silt, Sil, Sulphur, Tuff, Chlorite, Dol
- Sand, Silty
- STRINGER: Anhy, Arg, Bent, Coal, Dol, Gyp, Ls, Mst, Sststrg, Ssstrg, Carbsh, Clystn, Dol, Grysh
- Lms, Sandylys, Sh, Siltstn
- TEXTURE: Boundst, Chalky, Cryxln, Earthy, Finexln, Grainst, Lithogr, Microxln, Mudst, Packst, Wackest
- OTHER SYMBOLS: Carb shale, Gray shale, Sandy lmst, Shale, Silt stn, Shaly slst, Silty shale, Blank, Gray lmst, Cream lmst, Red shale, Blue-green siltstn, D. green shale, Green shale
- Brown lmst, Brown shale, Brown dol, Brown cream, D. green lmst, Light cream lmst, Gray cream lmst, Green dol, Gray dol
- ROUNDING: Rounded, Subrnd, Subang, Angular
- OIL SHOWS: Even, Spotted, Ques, Dead, Gas show
- INTERVALS: Core, Dst, Dst
- EVENTS: Rft, Sidewall, Cfs, Conn
- POROSITY TYPE: Earthy, Fenest
- Fracture, Inter, Moldic, Organic, Pinpoint, Vuggy
- LITHOLOGY: Anhy, Cht, Congl, Shale, Shgy, Ss
- ROCK TYPES: Anhy, Cht, Congl, Shale, Shgy, Ss, Carb shale, Gray shale, Sandy lmst, Shale, Silt stn, Shaly slst, Silty shale, Blank, Gray lmst, Cream lmst, Red shale, Blue-green siltstn, D. green shale, Green shale, D. green lmst, Light cream lmst, Gray cream lmst, Green dol, Gray dol



T.D. 5457'
01-04-15