David A. Barbour

CONSULTING GEOLOGIST

GEOLOGIST

Name: David A. Barbour
Company:
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OPERATOR

Company: Chariton Oil Co., Inc.
Address: 613 S. 4th, P.O. Box 130
Sunset, Kansas 67865

337' KC 4054 to 4026, 30-60-60-60, IF: weak blow 6 for 7", FF: strong blow BOB in 1 min., SIC; ISI: 1026 3/4", IF gas cut mud, FF: 21 MM, FFF: 21 MM, SIP: 1026 3/4", HP: 2035 to 2008.

337' KC 4054 to 4041, 30-60-60-60, IF: strong blow BOB in 8 min, FF: strong blow BOB in 1 min, SIC; ISI: 1026 3/4", IF: gas cut mud, FF: 21 MM, FFF: 21 MM, SIP: 1026 3/4", HP: 2035 to 2008, FFF 13 MM, SIP 977 to 1042#, HP: 2035 to 2008.

Daily Status:

5/03/2012 started DR, cut 7' dry at 4147' casing, sent with 3BC on drilled pin cement, plug down at 1:30 A.M.
5/04/2012 waiting on cement
5/07/2012 waiting on cement, 2TW
5/08/2012 waiting on cement, WOT
5/09/2012 waiting on cement, WOT
5/10/2012 waiting on cement, WOT
5/11/2012 waiting on cement, WOC DET #1, 4068' to 4094'
5/12/2012 waiting on cement
5/13/2012 waiting on cement, 2TW, 8 stand short trip conditions hole to 3700', no fill
5/14/2012 morning report: TIH3 Run 121 JTS of 5 1/2" casing, 15 BW Tally 5118 and at 5100' with 4CSH set, plug down at 10:30 A.M.

Remarks

Set 5 1/2" casing to 5108' to further test the Mississippian formation through plug.

Contractor

Pioneer Drilling Rig #2
Rig Phone:
Cell: 316 371-2494

ACCESSORIES

C	Cement	DST	Drill Stem Test
CH	Chert	FM	Formation
CHT	Chat	FOS	Fossil
CO	Coal	GAS	Gas
DOL	Dolomite	GLAU	Glauconite
LIM	Limestone	GYP	Gypsum
LS	Lost Circulation	HVY	Heavy
MKR	Marker	INCR	Increase
NS	No Sample	LTR	Light
OIL	Oil	MED	Medium
PP	Pump Pressure	MNR	Minor
SH	Shale	PP	Pump Pressure
SLTST	Siltstone	PRTY	Porosity
SS	Sandstone	SHOW	Show
TD	Total Depth	SLTY	Silty
TR	Trace	SPTY	Spotty
WTR	Water	STN	Stain
		TR	Trace

LITHOLOGY

	Anhydrite		Limestone
	Basalt		Marl
	Bentonite		Metamorphic
	Chalk		Novaculite
	Chert		Oolite
	Conglomerate		Pellet
	Coquina		Porcellanite
	Dolomite		Quartzite
	Gilsonite		Salt
	Gypsum		Shale
	Igneous		Siltstone
	Limestone		Sandstone

TEXTURE

	Chalky
	Crystalline
	Earthy
	Fine Crystalline
	Granular
	Microcrystalline
	Oolitic
	Pellet
	Sucrosic

POROSITY

	Anhydritic
	Argillaceous
	Calcareous
	Dolomitic
	Fossiliferous
	Glauconitic
	Gypsiferous
	Oolitic
	Pyritic
	Sandy
	Silty
	Slightly
	Very

STAINING

	Even
	Spotted
	Streaked
	Trace

OTHER SYMBOLS

	Anhydrite
	Basalt
	Bentonite
	Chalk
	Chert
	Clay
	Coal
	Conglomerate
	Coquina
	Dolomite
	Gilsonite
	Gypsum
	Igneous
	Limestone
	Marl
	Metamorphic
	Novaculite
	Oolite
	Pellet
	Porcellanite
	Quartzite
	Salt
	Shale
	Siltstone
	Sandstone
	Unknown
	Weathered

SHOWS

	Gilsonite
	Gas
	Oil
	Oil Stain

SAMPLE TYPE

	Cuttings
	Core
	Chip
	Sidewall

	Brown coal
	Brown dolomite
	Brown limestone
	Brown shale
	Brown sandstone
	Brown siltstone

	Cream coal
	Cream dolomite
	Cream limestone
	Cream shale
	Cream sandstone
	Cream siltstone

	Dark gray coal
	Dark gray dolomite
	Dark gray limestone
	Dark gray shale
	Dark gray sandstone
	Dark gray siltstone

	Gray coal
	Gray dolomite
	Gray limestone
	Gray shale
	Gray sandstone
	Gray siltstone

	Green coal
	Green dolomite
	Green limestone
	Green shale
	Green sandstone
	Green siltstone

	Light gray coal
	Light gray dolomite
	Light gray limestone
	Light gray shale
	Light gray sandstone
	Light gray siltstone

	Multi color
	Orange
	Pink
	Red
	Tan
	White

	Black coal
	Black dolomite
	Black limestone
	Black shale
	Black sandstone
	Black siltstone

	Blue coal
	Blue dolomite
	Blue limestone
	Blue shale
	Blue sandstone
	Blue siltstone

	Brown coal
	Brown dolomite
	Brown limestone
	Brown shale
	Brown sandstone
	Brown siltstone

	Cream coal
	Cream dolomite
	Cream limestone
	Cream shale
	Cream sandstone
	Cream siltstone

	Dark gray coal
	Dark gray dolomite
	Dark gray limestone
	Dark gray shale
	Dark gray sandstone
	Dark gray siltstone

	Gray coal
	Gray dolomite
	Gray limestone
	Gray shale
	Gray sandstone
	Gray siltstone

	Green coal
	Green dolomite
	Green limestone
	Green shale
	Green sandstone
	Green siltstone

	Light gray coal
	Light gray dolomite
	Light gray limestone
	Light gray shale
	Light gray sandstone
	Light gray siltstone

	Multi color
	Orange
	Pink
	Red
	Tan
	White

	Black coal
	Black dolomite
	Black limestone
	Black shale
	Black sandstone
	Black siltstone

	Blue coal
	Blue dolomite
	Blue limestone
	Blue shale
	Blue sandstone
	Blue siltstone

	A green shale
	Brown dolomite
	Cream dolomite
	Green dol
	Green shale

TG, C1-C5

Curve Track 1
Mud Logging

Curve Track 2
Lithology

Curve Track 3
Geological Descriptions

Drilling Time
Gas Units
Chromatography

Shale: gray, silty, LS: buff, finecrys, poor interxyln porosity

Shale: gray, silty, LS: buff, finecrys, fossils in part

Shale: gray, silty, blocky

Shale: black, very dense, LS: dark gray, microxln, dense, silty in part, SS: buff, finecrys, poor interxyln porosity

LS: brown to dark brown, microxln, dense, poor interxyln porosity, Shale: black, Shale: gray

LS: cream to buff, silty streaks, Siltstone: light gray, calcareous, very dense

Increase in Siltstone: light gray, poor intergranular porosity, dense, no show, LS: cream, finecrys, Shale: light gray

Shale: green to gray, LS: cream to buff, dark brown in part, microxln

LS: buff, microxln, dense, poor interxyln porosity, , LS: dark brown, microxln, dense, poor interxyln porosity

SS: 20% light gray, fine grain, poor intergranular porosity, dense, no show, LS: cream, no show, Shale: gray

SS: 10% gray to gray/buff, finegrain, friable in part, no show, fine grain, for cutting purposes only, poor intergranular porosity, in part, no show, otherwise in part

SS: 10% gray/buff, fine grain, friable in part dense in part, for cutting, sub rounded to rounded, poor intergranular to fracture porosity, no show, LS: cream to buff, finecrys, dense

SS:20% gray, fine grain to siltstone, no show, fossils

SS:20% gray, fine grain

LS: yellow/brown, microxln, dense, oolitic, poor interxyln porosity

LS: buff, to gray/buff to gray/brown, microxln, very dense, silty in part

LS: brown to gray/brown, microxln, dense, no visable porosity

LS: gray, microxln, very dense, shaly, Shale: black to dark gray to gray,

LS: dark brown, microxln, dense, LS: chert/gray, finecrys, nodular in part

LS: gray/buff, microxln, slightly mott, poor interxyln porosity

LS: brown, finecrys, oolitic, with slight intergranular porosity, Shale: dark gray, LS: dark brown, microxln, dense,

LS: brown, microxln, dense, blocky, poor interxyln porosity

LS: gray/brown, microxln, dense, Shale: dark gray, LS: dark brown fragments, Shale: dark gray

Shale: black to dark gray, LS: dark gray, microxln, very dense

LS: dark gray, microxln, very dense, Shale: dark gray, LS: cream, finecrys, Shale: dark gray, poor interxyln porosity

LS: dark gray, microxln, dense, Shale: gray, LS: buff gray

LS: cream, finecrys, poor interxyln porosity, Shale: gray,

LS: cream to buff to light gray, finecrys poor interxyln porosity

LS: cream to buff, finecrys, streaks of crystlinxln, ant silty pieces, Chert: semi cherty

LS: cream to buff, finecrys, poor interxyln porosity, Shale: in part, Chert: semi blond

LS: cream to buff, finecrys, poor interxyln porosity, slight intercrystalline porosity

Chert: silty, gray, shaly, LS: brown to gray/brown, finecrys to microxln, poor interxyln porosity,

LS: cream/brown to cream and buff, finecrys, mott in part, Shale: gray

LS: brown, microxln, dense, Shale: black and light brown in part

Shale: black, LS: gray/brown, microxln, dense, LS: brown, microxln, dense, Shale: black

Shale: black, LS: dark gray, to gray/brown, microxln, dense,

LS: dark gray/black, Shale: black, LS:buff, microxln, dense,

Chert: semi translucent, Shale: green, LS: buff, microxln, dense, Shale: black, LS: cream, microxln, dense, poor interxyln porosity

Shale: green silty, LS: cream, finecrys to microxln, LS: green, waxy, microxln, shaly, dense,

LS: buff to cream, finecrys, shly in part, Shale: green, LS: light green, microxln, dense,

LS: gray/brown, microxln, to visable porosity, Shale: green, LS: buff, microxln, dense, Shale: green, waxy, Shale: red, mott,

LS: brown/buff, finecrys, poor interxyln porosity

Shale: black, green silty, LS: buff to tan, microxln, dense

LS: brown to light brown, microxln, dense, Shale: green and red, blocky, dense,

Shale: light green, LS: gray/brown, microxln, dense, Shale: red, mott, LS: cream, clear, shows no odor, no fluorescence,not very slight intergranular porosity,

Limey gray-green sandy shale. Chert: white, translucent, angular, Sandstone: light gray, fine to v. fine, in part. Imperfect ridge porosity.

Chert: white, shaly, semi-translucent, angular, Sandstone: light gray, fine to v. fine, in part. Imperfect ridge porosity, cut black stain.

Dolomite: shly gray, very fine granular, poor intergranular porosity, light

Dolomite: light tan, chalky, very fine granular, LS: light tan, finecrys, poor interxyln porosity,

LS: cream to tan microxln/xln in part, poor interxyln porosity, small amount of chalcedony grey

LS: tan, finecrys, poor interxyln porosity, chalky, weak brown in part

Shale: green waxy, blocky, LS: tan to wht, finecrys, dense, poor interxyln porosity,

LS: gray, finecrys, grey, poor interxyln porosity, no show

LS: cream to creamy/gray, microxln, Shale: gray/brown, to brown,

Shale: dark gray, brown, dolomitic,

Shale: dark gray, brown, LS: gray/buff, finecrys to microxln, dense, Shale: dark gray, LS: cream, finecrys, dense, poor interxyln porosity, Shale: dark gray, mott, LS: cream, finecrys, dense,

Shale: brown to dark brown, carbonaceous, with fluorescent specks

DST #1, 4068 to 4094, 30-60-60-60, IF: weak blow 1 for 7", FF: strong blow BOB in 1 min, SIC; ISI: 1026 3/4", IF: gas cut mud, FF: 21 MM, FFF: 21 MM, SIP: 1026 to 1026, HP: 2035 to 2008.

DST #2, 4093 to 4093, 30-60-60-60, IF: strong blow in 30 secs, FF: strong blow BOB in 1 min, SIC; ISI: 1026 3/4", IF: gas cut mud, FF: 21 MM, FFF: 21 MM, SIP: 1026 to 1026, HP: 2035 to 2008.

Shale: green to gray, LS: cream to buff, dark brown in part, microxln, dense, poor interxyln porosity, Shale: black, Shale: gray

LS: buff, microxln, dense, poor interxyln porosity, , LS: dark brown, microxln, dense, poor interxyln porosity

SS: 20% light gray, fine grain, poor intergranular porosity, dense, no show, LS: cream, no show, Shale: gray

SS: 10% gray to gray/buff, finegrain, friable in part, no show, fine grain, for cutting purposes only, poor intergranular porosity, in part, no show, otherwise in part

SS: 10% gray/buff, fine grain, friable in part dense in part, for cutting, sub rounded to rounded, poor intergranular to fracture porosity, no show, LS: cream to buff, finecrys, dense

SS:20% gray, fine grain to siltstone, no show, fossils

SS:20% gray, fine grain

LS: yellow/brown, microxln, dense, oolitic, poor interxyln porosity

LS: buff, to gray/buff to gray/brown, microxln, very dense, silty in part

LS: brown to gray/brown, microxln, dense, no visable porosity

LS: gray, microxln, very dense, shaly, Shale: black to dark gray to gray,

LS: dark brown, microxln, dense, LS: chert/gray, finecrys, nodular in part

LS: gray/buff, microxln, slightly mott, poor interxyln porosity

LS: brown, finecrys, oolitic, with slight intergranular porosity, Shale: dark gray, LS: dark brown, microxln, dense,

LS: brown, microxln, dense, blocky, poor interxyln porosity

LS: gray/brown, microxln, dense, Shale: dark gray, LS: dark brown fragments, Shale: dark gray

Shale: black to dark gray, LS: dark gray, microxln, very dense

LS: dark gray, microxln, very dense, Shale: dark gray, LS: cream, finecrys, Shale: dark gray, poor interxyln porosity

LS: dark gray, microxln, dense, Shale: gray, LS: buff gray

LS: cream, finecrys, poor interxyln porosity, Shale: gray,

LS: cream to buff to light gray, finecrys poor interxyln porosity

LS: cream to buff, finecrys, streaks of crystlinxln, ant silty pieces, Chert: semi cherty

LS: cream to buff, finecrys, poor interxyln porosity, Shale: in part, Chert: semi blond

LS: cream to buff, finecrys, poor interxyln porosity, slight intercrystalline porosity

Chert: silty, gray, shaly, LS: brown to gray/brown, finecrys to microxln, poor interxyln porosity,

LS: cream/brown to cream and buff, finecrys, mott in part, Shale: gray

LS: brown, microxln, dense, Shale: black and light brown in part

Shale: black, LS: gray/brown, microxln, dense, LS: brown, microxln, dense, Shale: black

Shale: black, LS: dark gray, to gray/brown, microxln, dense,

LS: dark gray/black, Shale: black, LS:buff, microxln, dense,

Chert: semi translucent, Shale: green, LS: buff, microxln, dense, Shale: black, LS: cream, microxln, dense, poor interxyln porosity

Shale: green silty, LS: cream, finecrys to microxln, LS: green, waxy, microxln, shaly, dense,

LS: buff to cream, finecrys, shly in part, Shale: green, LS: light green, microxln, dense,

LS: gray/brown, microxln, to visable porosity, Shale: green, LS: buff, microxln, dense, Shale: green, waxy, Shale: red, mott,

LS: brown/buff, finecrys, poor interxyln porosity

Shale: black, green silty, LS: buff to tan, microxln, dense

LS: brown to light brown, microxln, dense, Shale: green and red, blocky, dense,

Shale: light green, LS: gray/brown, microxln, dense, Shale: red, mott, LS: cream, clear, shows no odor, no fluorescence,not very slight intergranular porosity,

Limey gray-green sandy shale. Chert: white, translucent, angular, Sandstone: light gray, fine to v. fine, in part. Imperfect ridge porosity.

Chert: white, shaly, semi-translucent, angular, Sandstone: light gray, fine to v. fine, in part. Imperfect ridge porosity, cut black stain.

Dolomite: shly gray, very fine granular, poor intergranular porosity, light

Dolomite: light tan, chalky, very fine granular, LS: light tan, finecrys, poor interxyln porosity,

LS: cream to buff, finecrys, poor interxyln porosity, chalky, weak brown in part

Shale: green waxy, blocky, LS: tan to wht, finecrys, dense, poor interxyln porosity,

LS: gray, finecrys, grey, poor interxyln porosity, no show

LS: cream to creamy/gray, microxln, Shale: gray/brown, to brown,

Shale: dark gray, brown, dolomitic,

Shale: dark gray, brown, LS: gray/buff, finecrys to microxln, dense, Shale: dark gray, LS: cream, finecrys, dense, poor interxyln porosity, Shale: dark gray, mott, LS: cream, finecrys, dense,

Shale: brown to dark brown, carbonaceous, with fluorescent specks

DST #1, 4068 to 4094, 30-60-60-60, IF: strong blow in 30 secs, FF: strong blow BOB in 1 min, SIC; ISI: 1026 3/4", IF: gas cut mud, FF: 21 MM, FFF: 21 MM, SIP: 1026 to 1026, HP: 2035 to 2008.

DST #2, 4093 to 4093, 30-60-60-60, IF: strong blow in 30 secs, FF: strong blow BOB in 1 min, SIC; ISI: 1026 3/4", IF: gas cut mud, FF: 21 MM, FFF: 21 MM, SIP: 1026 to 1026, HP: 2035 to 2008.

Curve Track 1
Mud Logging

Curve Track 2
Lithology

Curve Track 3
Geological Descriptions

Drilling Time
Gas Units
Chromatography

TG, C1-C5

Kansas City Gp. @ 3772 (KC)

Lansing Gp. @ 3810 (LANS)

Stanton LS. @ 3772 (STN)

Upper Kansas City @ 3772 (UKC)

Drum LS. @ 3772 (DRUM)

Stark Shale @ 3772 (STRK)

Swope LS. @ 3772 (SWPE)

Hertha LS. @ 3772 (HRTH)

Bethany Falls LS. @ 3772 (BF)

Upper Lansing @ 3772 (ULANS)

Lower Lansing @ 3772 (LLANS)

Kansas City @ 3772 (KC)

Base Kansas City @ 3772 (BKC)

Marmaton Gp. @ 3772 (MARM)

Pawnee LS. @ 3772 (PWNE)

Fort Scott LS. @ 3772 (FTSC)

Cherokee Gp. @ 3772 (CHER)

Atoka LS. @ 3772 (ATOK)

Morrow Gp. @ 3772 (MORR)

Chester Gp. @ 3772 (CHES)

Ste. Genevieve LS. @ 3772 (STGEN)

St. Louis LS. @ 3772 (STLOU)

Spergen LS. @ 3772 (SPGN)

Warsaw @ 3772 (WSAW)

Osage @ 3772 (OSAGE)

Kinderhook @ 3772 (KDHK)

Viola @ 3772 (VIOLA)

Simpson Gp. @ 3772 (SMPSN)

Arbuckle @ 3772 (ARBK)

RTD: 5107
LTD: 5107