Max-Henry Operating, LLC

Jeffrey R. Zoller Co-Managing Member
Petroleum Geologist KS License #125
P. O. Box 30 Hoisington, KS 67544

O: 620-653-7397 Cel: 620-786-0807

E-Mail: jrz@earthlink.net

Scale 1:240 (5"=100') Imperial

Well Name: No. 1-12 ARTHUR DRACH
Location: Section 12 - 22s-13w Stafford Co., Kansas
Licence Number: API # 15-185-23268-0000 **Region:** Drach Field - Wildcat
Spud Date: August 10, 2004 **Drilling Completed:** August 21, 2004
Surface Coordinates: 990' FNL & 1040' FEL

Bottom Hole Coordinates:

Ground Elevation (ft): 1887' **K.B. Elevation (ft):** 1890'
Logged Interval (ft): 3000' **To:** 3800' DTD **Total Depth (ft):** 3800' DTD
Formation: Arbuckle
Type of Drilling Fluid: GEL FRESH WATER SYSTEM

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Harris Oil and Gas Company
Address: 1125 17th Street Suite 2290
Denver, CO. 80202

GEOLOGIST

Name: Jeffrey R. Zoller
Company: JRZ Enterprises
Address: P. O. Box 30
Hoisington, KS 67544-0030
Office: 620.653.2464
Cell: 620.786.0807
Email: jrz@earthlink.net

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Harris Oil and Gas Company

WELL COMPARISON SHEET

Company: Harris Oil and Gas Company
1125 17th Street Suite 2290
Denver, CO 80202
O: 303-293-8838 Fax: 303-293-8853
Bud Harris H: (303) 871-0225 Cel: (303) 881-7079

Well: Arthur Drach 1-12
Location: 990' FNL & 1040' FEL
Sec. 12 - 22s - 13w
Stafford Co., KS

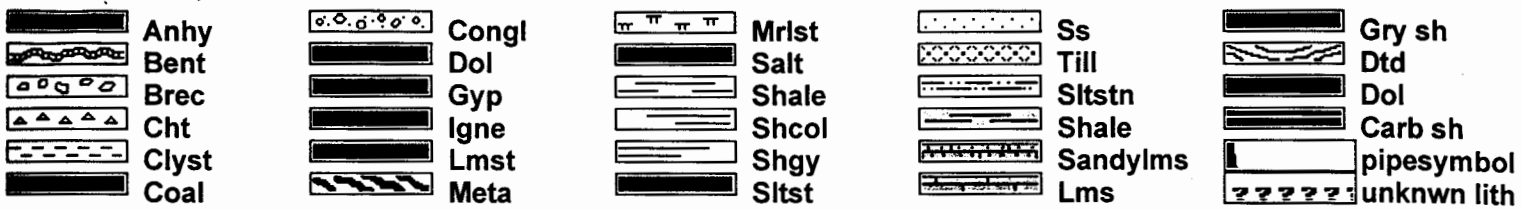
Elevation: 1890 KB 1887 GL
Field: Wildcat
API No.: 15-185-23268-0000
Surface Casing: 8 5/8" set @ 733' KB

Wellsite Geologist: Jeff Zoller Cel: (620) 786-0807 Home: (620) 653-7397

Drilling Contractor: Ace Drill-N Rig #1 (785) 249-4639 Owner/Tool Pusher: Cel (785) 249-3748

	DRILLING WELL HOGC Arthur Drach 1-12 990' FNL & 1040' FEL Sec. 12 - 22s - 13w 1890 KB				COMPARISON WELL Hess Oil Co. #2 Teichman 'A' E/2 SE NE Abandoned Lans-Arb Prod. Sec. 12 - 22s - 13w 1890 KB		Structural Relationship		COMPARISON WELL Phillips Petroleum Co. #2 Hitz OWWO C SW NW Lansing H & J Oil Producer Sec. 7 - 22s - 12w 1877 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Anhydrite	719	1171	720	1170	727	1163	8	7	NA	NA	NA	NA
Heebner	3196	-1306	3196	-1306	3182	-1292	-14	-14	NA	NA	NA	NA
Toronto	3218	-1328	3217	-1327	3204	-1314	-14	-13	NA	NA	NA	NA
Douglas Shale	3232	-1342	3230	-1340	3217	-1327	-15	-13	NA	NA	NA	NA
Brown Lime	3324	-1434	3324	-1434	3316	-1426	-8	-8	3300	-1423	-11	-11
Lansing 'A'	3340	-1450	3340	-1450	3334	-1444	-6	-6	3319	-1442	-8	-8
Lansing 'D'	3378	-1488	3377	-1487	3370	-1480	-8	-7	3355	-1478	-10	-9
Lansing 'F'	3403	-1513	3404	-1514	3400	-1510	-3	-4	3386	-1509	-4	-5
Lansing 'G'	3417	-1527	3417	-1527	3414	-1524	-3	-3	3400	-1523	-4	-4
Lansing 'H'	3460	-1570	3457	-1567	3454	-1564	-6	-3	3440	-1563	-7	-4
Stark Shale	3514	-1624	3513	-1623	3512	-1622	-2	-1	3500	-1623	-1	0
Base KC	3546	-1656	3544	-1654	3543	-1653	-3	-1	3529	-1652	-4	-2
Viola	3578	-1688	3580	-1690	3576	-1686	-2	-4	3560	-1683	-5	-7
Simpson Shale	3610	-1720	3616	-1726	3620	-1730	10	4	3610	-1733	13	7
Arbuckle	3666	-1776	3666	-1776	3672	-1782	6	6	3661	-1784	8	8
Total Depth	3800	-1910	3800	-1910	3679	-1789			3669	-1792		

ROCK TYPES



ACCESSORIES

POROSITY
- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

LITHOLOGY
- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Dol
- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- Salt
- Shale
- Shcol
- Shgy
- Sltst
- Ss
- Till
- Sltstn
- Shale
- Sandylms
- Lms
- Gry sh
- Dtd
- Dol
- Carb sh
- pipesymbol
- unknwn lith

FOSSIL
- Oomoldic
- Fuss
- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

MINERAL
- Slty
- Sand
- Dol
- Chlorite
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

STRINGER
- Sh
- Sandylms
- Lms
- Grysltt
- Grysh
- Dol
- Clystn
- Carbsh
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

TEXTURE
- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

EVENT
- Rft
- Sidewall

Curve Track 1
ROP (Min/Ft)
Gamma (API)

ROP (Min/Ft)	5
Gamma (API)	150

Depth

Lithology

Oil Shows

Geological Descriptions

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Cn = Connection

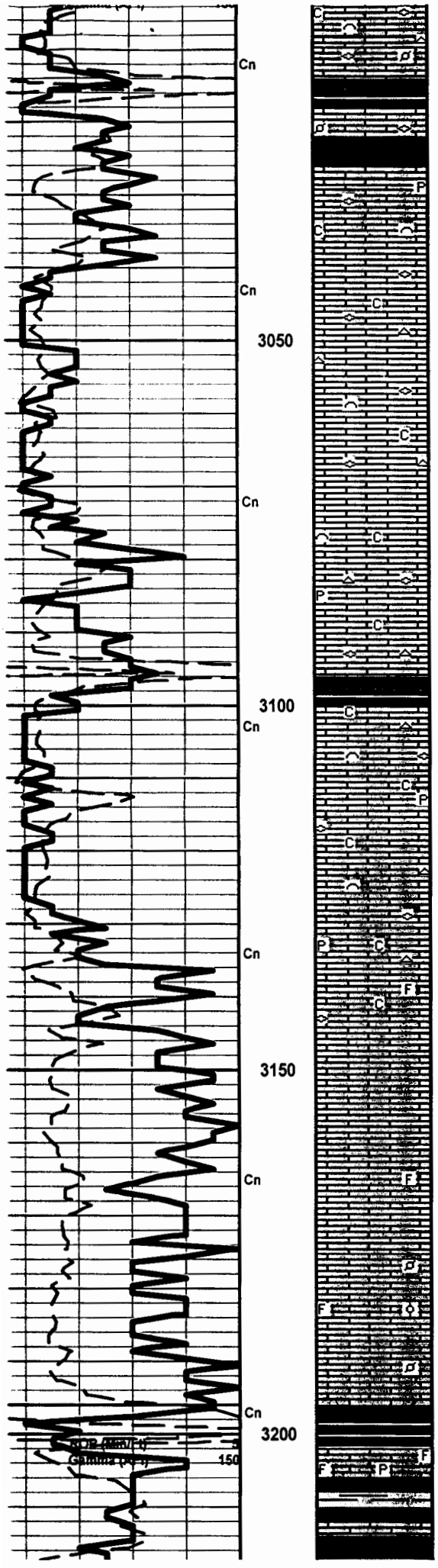
Harris Oil and Gas Company
#1-12 Arthur Drach
990' FNL & 1040' FEL
Sec. 12-22s-13w
Stafford Co., KS

Drilling Company:
Ace Drill-N, Inc. Rig #1 785-249-4639
Owner/Tool Pusher: Rick Griffin 785-249-3748

Mud Company:
MudCo/Service Mud Inc.
Mud Engineer:
Jim Wiesner 620-786-0192

Geologist, Jeffrey R. Zoller, on location @
3250' @ 7:00 AM Aug 15, 2004.

Started 1' Drill Time & 10' Samples @ 3000'



Limestone: cream-light gray-tan micro-very fine crystalline fossiliferous trace fussilinids frags sub pelletal scattered poor-fair intercrystalline & fossiliferous porosity no fluorescence slightly chalky trace Chert: cream-tan-gray sub fossiliferous

Shale: black carbonaceous & dark gray-gray-silvery gray blocky and waxy dense trace silty & waxy splintery fissile

Shale: dark gray-gray-silvery gray blocky and waxy dense trace silty & waxy splintery fissile

Limestone: tan-light gray cryptocrystaline fossiliferous trace fussilinid frags sublithographic to lithographic no visible porosi slightly chalky trace pyrite

Limestone: cream-light brown-tan micro-very fine crystalline fossiliferous abundant altered fussilinid frags scattered poor-fai intercrystalline & fossiliferous porosity no fluorescence slightly chalky trace Chert: cream-tan-light gray sub fossiliferous

Limestone: cream-light brown-tan-light gray micro-very fine crystalline fossiliferous abundant altered fussilinid frags scattere poor-fair intercrystalline & fossiliferous porosity no fluorescence slightly chalky trace Chert: cream-tan-light gray sub fossiliferous

Limestone: cream-tan-light brown-light gray crypto-micro-very fine-trace fine crystalline sub fossiliferous trace fussilinid frag nil-scattered very poor intercrystalline, fossiliferous & pinpoint porosity scattered spotty dull white-pale yellow mineral fluorescence slightly chalky trace pyrite trace Chert: cream-white

Shale: black carbonaceous & silvery gray-gray green-gray blocky-splintery waxy dense sub fissile

Limestone: tan-light brown micro-very fine-trace fine crystalline fossiliferous-fossiliferous hash scattered altered fussilinid frags poor-fair intercrystalline & fossiliferous porosity no fluorescence chalky trace Chert: opaque-white-light gray sub fossiliferous trace pyrite

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Limestone: tan-light brown-light gray crypto-microcrystalline sub fossiliferous fussilinids predominately cryptocrystaline no visible porosity no fluorescence slightly chalky trace Chert: light brown-light gray

Limestone: brown-light brown cryptocrystaline nondescript lithographic no visible porosity

Limestone: tan-light brown crypto-microcrystalline sub fossiliferous no visible porosity no fluorescence sublithographic to lithographic

Limestone: light gray-tan-light brown crypto-microcrystalline sub pelletal sub fossiliferous trace oolitic no visible porosity no fluorescence sublithographic to lithographic

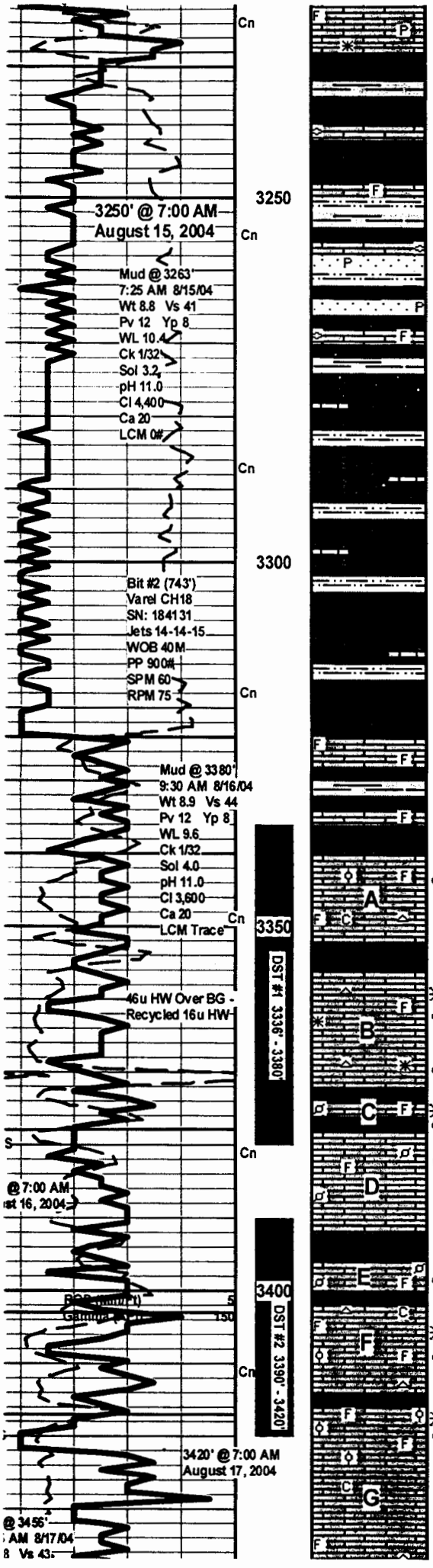
Heebner 3196 -1306

Shale: black carbonaceous & silvery gray-gray-gray green-trace light green blocky waxy fissile splintery

Limestone: tan-light brown fossiliferous cryptocrystaline lithographic no visible porosity no fluorescence trace pyrite

Shale: silvery gray-gray-light green-light gray blocky splintery waxy fissile with scattered interbedded Limestone as previousl described above

Toronto 3218 -1328



scattered poor pinpoint & trace and intercrystalline porosity scattered even dull white-pale yellow mineral fluorescence trace pyrite slightly chalky

Douglas Shale 3232 -1342

Shale: dark gray-silvery gray-gray green-brown-rust blocky waxy dense & splintery rounded fissile soft trace silty with scatte interbedded Limestone: tan-light brown crypto-micro-trace very fine crystalline sub fossiliferous trace fussilinids frags no visible porosity no fluorescence

Shale: dark gray-silvery gray-gray green-brown-rust blocky waxy dense & splintery rounded fissile soft trace silty with scatte interbedded Sandstone: light gray with clear-opaque subangular-sub rounded very fine-fine quartz grains fair sorting well cemented calcareous micaceous & pyritic and Limestone as above

Shale: silvery gray-gray-rust-brown blocky sub waxy dense silty & rounded soft fissile trace splintery with trace interbedded Limestone as previously described above

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Shale: silvery gray-gray-rust-brown blocky sub waxy dense silty & rounded soft fissile trace splintery with trace interbedded Limestone as previously described above

Brown Lime 3324 -1434

Limestone: brown-trace light brown cryptocrystaline fossiliferous sublithographic no visible porosity

INTERBEDDED Shale: gray-silvery gray-trace gray green blocky waxy dense & rounded splintery fissile and Limestone: brown-light brown-light gray micro-cryptocrystaline trace fossiliferous-fossiliferous tanish no visible porosity no fluorescenc

Lansing 3340 -1450

Limestone: cream-tan-light brown crypto-micro-trace very fine crystalline sub oolitic & fossiliferous-fossiliferous hash scatte trace poor intercrystalline & oolitic porosity with light brown saturated spotty stain white-yellow fluorescence poor-fair odor poor show of light brown free oil slightly chalky trace Chert: light brown sub opaque

Shale: gray-silvery gray-trace gray green blocky waxy dense & splintery fissile

Limestone: cream-trace tan & white crypto-microcrystalline sub fossiliferous trace calcite crystals secondary recrystallizatior fractured? scattered poor pinpoint, trace vuggy & fractured? porosity and scattered spotty bright white-yellow fluorescence abundant dark brown-black-gilsonitic spotty-wormy saturated stain fair odor fair show of light brown oil porosity with gilsonitic stain bleeding gas trace Chert: cream-tan oolitic

'C' Zone Limestone: light gray-gray-tan-brown pelletal fossiliferous-fossiliferous hash scattered poor interfossiliferous porosi with spotty-even-wormy-spotty saturated brown-dark brown-black stain fair odor poor-fair show of free oil trace porosity gassy trace Chert

Lansing 'D' Zone 3378' -1488

Back to drilling after DST #1 @ 10:52 AM Aug. 16, 2004. Trip Gas 375u HW.

'D' Zone Limestone: tan-light brown-light gray crypto-microcrystalline trace very fine crystalline and pelletal sub fossiliferous scattered poor pinpoint porosity trace gilsonitic stain no odor no show

'E' Zone Limestone: brown-gray pelletal fossiliferous trace poor interfossiliferous porosity dark brown wormy stain faint odor very poor show free oil 70u HW GAS KICK OVER BACKGROUND OF 40u

Lansing 'F' Zone 3403' -1513

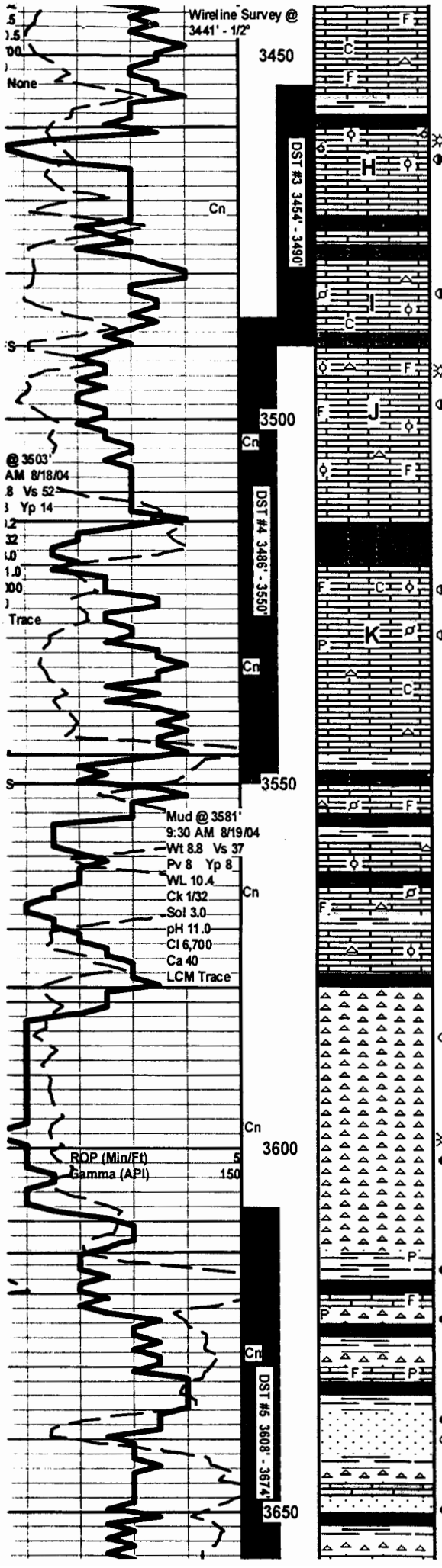
Limestone: white-cream-tan fossiliferous-fossiliferous hash and oolitic in part scattered fair interfossiliferous, oolitic & trace vuggy porosity wormy-spotty dark brown & light brown saturated stain spotty white-yellow fluorescence porosity bleeding g poor sweet odor poor show of live very light brown oil trace Chert: brown-tan-cream-white-some opaque sub fossiliferous slightly chalky
90u HW GAS KICK OVER BACKGROUND OF 40u

Lansing 'G' Zone 3417' -1527

Limestone: light brown-tan oolitic fossiliferous to fossiliferous hash trace very fine crystalline subsucrosic scattered fair interoolitic, fossiliferous & crystalline porosity even light brown saturated stain & white-yellow fluorescence good odor good show of light brown free oil trace porosity bleeding gas
130u HW GAS KICK OVER BACKGROUND OF 40u

Back to drilling after DST #2 @ 8:30 AM Aug. 17, 2004. Trip Gas 635u HW.

Limestone: tan-cream-light gray crypto-microcrystalline nondescript sublithographic sub fossiliferous no visible porosity slightly chalky



Limestone: as previously described above trace light brown becoming more fossiliferous no visible porosity no fluorescence slightly chalky trace Chert: tan-cream-white sub fossiliferous

Shale: dark gray-gray-silvery gray-gray green-light green waxy blocky splintery fissile

Lansing 'H' Zone 3460 -1570

'H' Zone Limestone: cream-tan-white oolmoldic (crypto-micro-very fine and trace fine crystalline matrix) & oolitic excellent interoolmoldic, fair intercrystalline & oolitic porosity spotty-wormy saturated light brown-dark brown-trace gilsonitic stain porosity bleeding gas good odor even bright white-yellow fluorescence fair-good show of light brown-brown free oil 125u HW GAS KICK OVER BACKGROUND OF 525u

Shale: dark gray-silvery gray-trace brown waxy splintery fissile

'I' Zone Limestone: cream-tan-light gray crypto-microcrystalline predominantly nondescript sublithographic to lithographic trace calcite crystals secondary recrystallization fractured? Sub oolitic & sub fossiliferous scattered very poor interoolitic porosity & trace fracture porosity withi edge stain scattered brown-dark brown-trace gilsonitic spotty wormy stain spotty yell fluorescence poor-fair odor poor show of dark brown oil slightly chalky trace Chert

3490' @ 7:00 AM August 18, 2004. Back to drilling after DST #3 @ 8:30 AM Aug. 18, 2004. Trip Gas 600u HW.

Limestone: cream-trace white and tan crypto-microcrystalline traces subsucrosic, oolitic & fossiliferous-fossiliferous hash scattered poor interoolitic, fossiliferous & trace pinpoint porosity spotty-wormy light brown saturated stain trace gilsonitic scattered bright white-yellow fluorescence faint sweet odor porosity bleeding gas fair show of light brown free oil trace Chert: white-cream sub opaque trace tripolitic with stain

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Stark Shale 3514 -1624

Shale: dark gray-silvery gray-gray green waxy splintery fissile trace black-dark gray sub carbonaceous

Limestone: tan-cream-light gray crypto-micro crystalline sub fossiliferous sub oolitic sub pelletal scattered very poor interoolitic & fossiliferous porosity with spotty to brown stain made odor poor show of free oil trace pyrite slightly chalky

Limestone: tan-cream crypto-micro crystalline nondescript sublithographic to lithographic no visible porosity slightly chalky trace Chert: brown

Base Kansas City 3546 -1656

Shale: dark gray-silvery gray-gray-green-brick-brown blocky waxy splintery fissile

3550' @ 7:00 AM August 19, 2004. Back to drilling after DST #4 @ 8:17 AM Aug. 19, 2004. Trip Gas 620u HW.

INTERBEDDED Limestone: tan-light gray-light brown-trace light green & rose crypto-microcrystalline sub fossiliferous-fossiliferous hash sub pelletal sub oolitic sublithographic to lithographic no visible porosity scattered mineral fluorescence trace Sandy, Shale: gray-silvery gray-green-light green-rust-brown-brick blocky and waxy dense trace splintery fissile and trace Chert: opaque-white-tan-rose-light brown

Viola 3578 -1688

Chert: cream-tan-white-some opaque-brown-trace light green, yellow & orange 70% fresh vitreous / 30% tripolitic scattered p pinpoint porosity even white-yellow fluorescence even saturated light brown stain trace gassy very faint odor very poor show free oil 225u HW GAS KICK OVER BACKGROUND OF 325u

Chert as previously described above 50% fresh vitreous / 50% tripolitic scattered poor pinpoint porosity even white-yellow fluorescence even saturated light brown stain good show of free very light brown oil

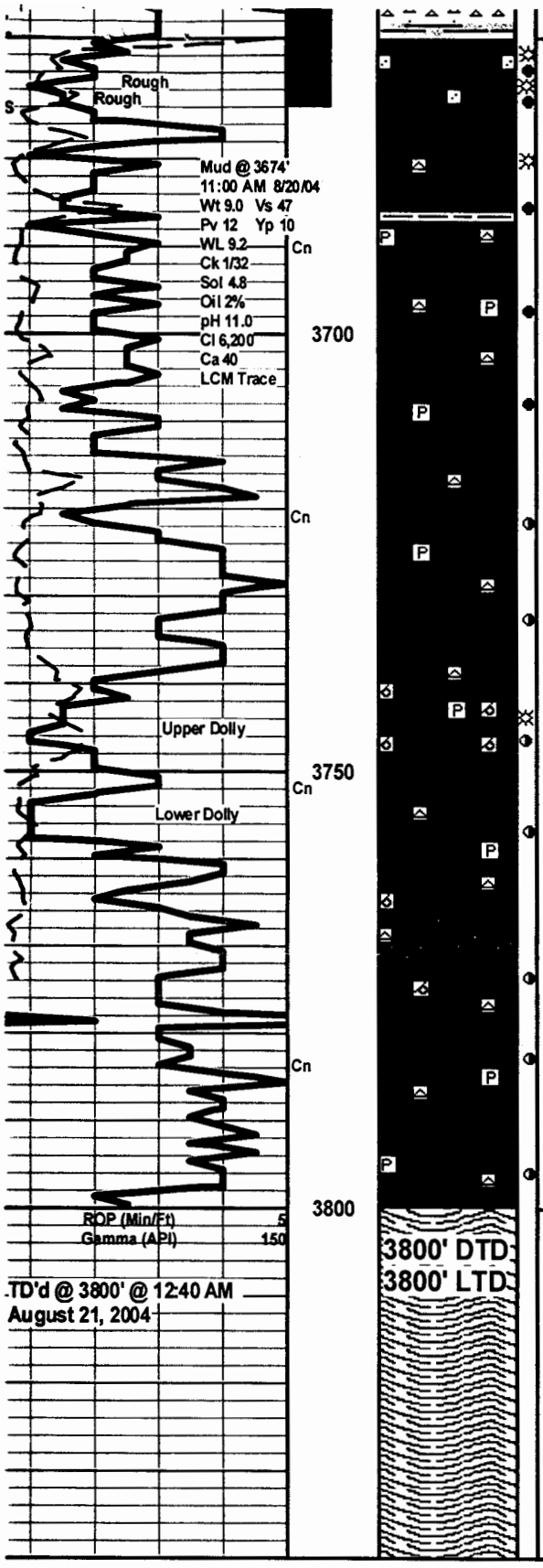
Simpson Shale 3610 -1720

INTERBEDDED Shale: dark gray-silvery gray-gray green blocky waxy dense sub calcareous splintery trace fissile and Chert: a previously described above trace black-brown fresh vitreous good show of light brown free oil from tripolitic porosity trace pyrite

INTERBEDDED Shale: turquoise-dark gray-silvery gray-gray green blocky waxy dense sub calcareous splintery trace fissile, Limestone: brown-tan crypto-microcrystalline fossiliferous no visible porosity and Chert as previously described above good show of light brown free oil from tripolitic porosity trace pyrite

trace Sandstone: abundant loose clear-opaque medium-find rounded-subrounded quartz grains on the bottom of the tray a fe with even light brown stain? poor-fair sorting

INTERBEDDED Shale: turquoise-dark gray-silvery gray-gray green-purple blocky waxy dense sub calcareous splintery trace fissile, Limestone & Chert as previously described above and Sandstone: brown-tan w/ clear-opaque fine-medium-coarse sut rounded-rounded quartz grains poorly sorted well cemented silicious-sub calcareous very poor intergranular porosity even saturated stain show of oil from the Chert & SS



Arbuckle 3666 -1776

Dolomite: tan-cream very fine crystalline sucrosic trace Sandy poor-fair intercrystalline & trace vuggy porosity even very ligi brown saturated stain even bright white-yellow-chartreuse fluorescence porosity very gassy strong odor excellent show o free light brown & brown oil 75u HW GAS KICK OVER BACKGROUND OF 325u - Recycled 125u HW

3674' @ 7:00 AM August 20, 2004. Back to drilling after DST # @ 5:45 PM Aug. 20, 2004. Trip Gas 580u HW.

3774-3780 Dolomite as previously described above was similar shows and trace cream-tan crypto-microcrystalline no visible porosity trace Shale: turquoise waxy blocky dense

3780-3790 Dolomite: tan fine-medium crystaline rhombic scattered poor-fair intercrystalline & trace vuggy porosity even white-yellow fluorescence subsucrosic even-wormy saturated light brown stain good odor poor-fair show of very light brown scattered porosity bleeding gas trace pyrite & Chert

Dolomite: cream-tan-light brown as previously described above and scattered micro-very fine crystalline sucrosic even saturated brown stain even white-yellow fluorescence good odor poor-fair show of light brown oil less fluorescence and stair as previously described above and pyrite & Chert: white-cream-sub opaque trace sub oolitic

Dolomite: cream-tan as previously described above and scattered micro-very fine crystalline sucrosic even saturated brown stain even white-yellow fluorescence good odor poor-fair show of light brown oil less fluorescence and stain as previously described above and pyrite & Chert: white-cream-sub opaque

Dolomite: white-cream-tan crypto-microcrystalline and trace very fine crystalline nil-trace very poor intercrystalline porosity spotty brown stain poor odor very poor show free oil scattered even white-yellow fluorescence trace Chert: white-sub opaqu trace sub oolitic

Dolomite: white-cream-tan-light gray crypto-micro-very fine-trace fine crystalline sucrosic in part oomoldic scattered poor intercrystalline and excellent interoomoldic porosity spotty dark brown stain fair odor excellent show of dark brown live & filn oil trace porosity bleeding gas even-spotty white-yellow fluorescence trace pyrite & Chert: white-cream sub opaque

Dolomite: white-cream-tan-light gray very fine-fine-trace medium crystalline rhombic & sucrosic in part scattered poor intercrystalline porosity spotty dark brown stain fair odor excellent show of dark brown live & filmy oil spotty white-yellow fluorescence trace pyrite & Chert: white-cream sub opaque

Dolomite: white-cream-tan crypto-microcrystalline and trace very fine crystalline subsucrosic in part trace oomoldic? from above? nil-trace very poor intercrystalline porosity spotty brown stain poor-fair odor excellent show of dark brown live oil scattered white-yellow fluorescence trace Chert: white-some opaque trace sub oolitic

Dolomite: white-cream-tan very fine-fine-medium crystalline rhombic & sucrosic in part scattered poor intercrystalline porosit spotty dark brown-black stain fair odor excellent show of very dark brown free & filmy oil (NOTE: due to the high percentage oil in the mud system?) Trace pyrite & Chert: white-cream-sub opaque sub oolitic

3800' DTD

Deviation Survey @ 3800' DTD - 1°

Respectfully Submitted,
Jeffrey R. Zoller

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