Vecta Oil & Gas Ltd.

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

Well Name:	Torreys No.31-4		
Location:	NW NE Sec.4-T14S-R47W, Cheyenne County, Colorado		
License Number:	API: 05-017-07705	Region:	Wildcat
Spud Date:	7/21/11	Drilling Completed:	8/2/11
Surface Coordinates:	354'FNL 1623'FEL LAT 38.86574 LON -102.67272		
Bottom Hole Coordinates:	Same		
Ground Elevation (ft):	4297'	K.B. Elevation (ft):	4308'
Logged Interval (ft):	4000' To: 5530'	Total Depth (ft):	5530'
Formation:	Marmaton, Morrow, Spergen		
Type of Drilling Fluid:	LSND, Hydro Resources		

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

CORE

Contractor:			
Core #:	1		
Formation:	Morrow Shale V3-V7 Section		
Core Interval:	From: 5206	Cut:	49
	To: 5255	Recovered:	46
Bit type:			
Size:			
Coring Time:			

OPERATOR

Company: Vecta Oil & Gas Ltd
Address: 575 Union Blvd, Suite 208
Lakewood, CO 80228
Tel. (303) 945-2860

GEOLOGIST

Name: Randy Say
Company: RSay Enterprises
Address: 13524 W. 67th Way
Arvada, CO 80004
303-940-8751

Logs

Schlumberger Well Services, Fort Morgan, CO

Array Induction GR SP
MicroLog
Comp Neutron LithoDensity PEFZ

DSTs

DST No.1 4752'-4775'(23')- Conventional Marmaton Pawnee
Testing Company: Trilobite Testing, Inc.;Mud Type - Chemical
Blows: IF-5 min; ISI-30 min ; FF-60 min ; FSI-90 min
IO-5 min-Open BOB in 3 min
ISI-30 min-Bled off for 5 min, built to 1" blow
FO-60 min-Open BOB in 5 min
FSI-90 min-Bled off for 5 min, built to 6" blow
Recovery: 1394' Total Fluid Recovery; MCW [40% mud/60% water]; No gas or oil recovered
Rw- 0/20 @ 67 F, CL= 40,000 ppm
IHP-2287 ;IFP-76-144 ;ISIP-1274 ;FFP-175-640;FSIP-1267 ;FHP-2205

Comments

8.625" csg set @ 438'
Plugged and abandoned

Contractor: Black Gold Rig No.69. Toolpusher: Bob Kliesen

ROCK TYPES

ss_fg+	Clyst	Lmst	Shgy
Carb sh	Coal	Meta	Ss
Anhy	Congl	Mrlst	Till
Bent	Dol	Salt	sltst
Brec	Gyp	Shale	anhy1
Cht	Igne	Shcol	chalk

ACCESSORIES

MINERAL
Pyr, 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

FOSSIL
Algae, Amph, Belm, Bioclst, Brach, Bryozoa, Cephal

Coral, Crin, Echin, Fish, Foram, Fossil, Gastro, Oolite, Ostra, Pelec, Pellet, Pisolite, Plant, Strom

STRINGER
Anhy, Arg, Bent, Coal

Dol, Gyp, Ls, Mrst, Sltstrg, Ssstrg

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

OTHER SYMBOLS

POROSITY TYPE
Earthy, Fenest, Fracture, Inter, Moldic, Organic, Pinpoint, Vuggy

Moderate, Poor

ROUNDING
Rounded, Subrnd, Subang, Angular

OIL SHOWS
Even, Spotted

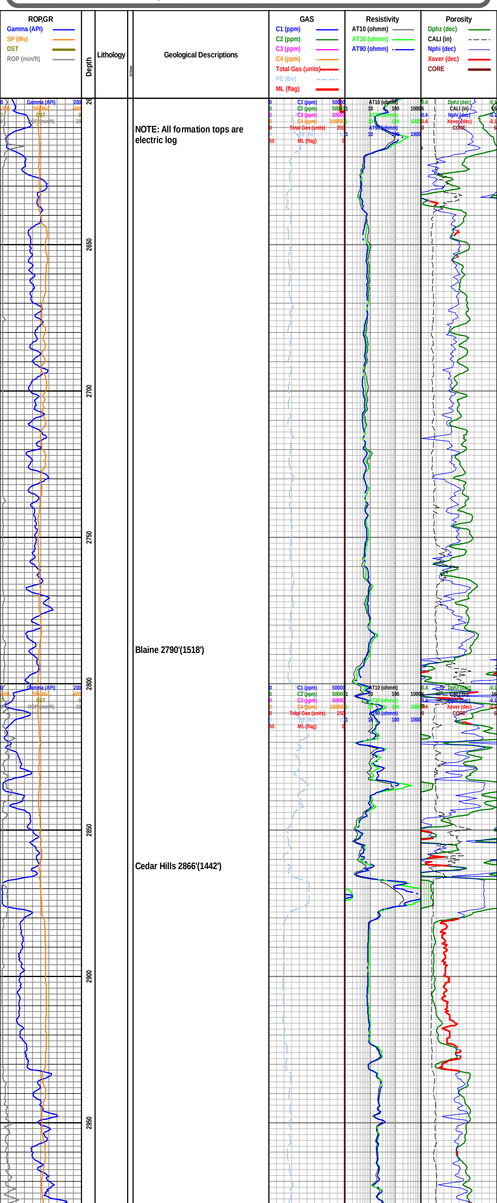
near even, Ques, Dead, vspotty

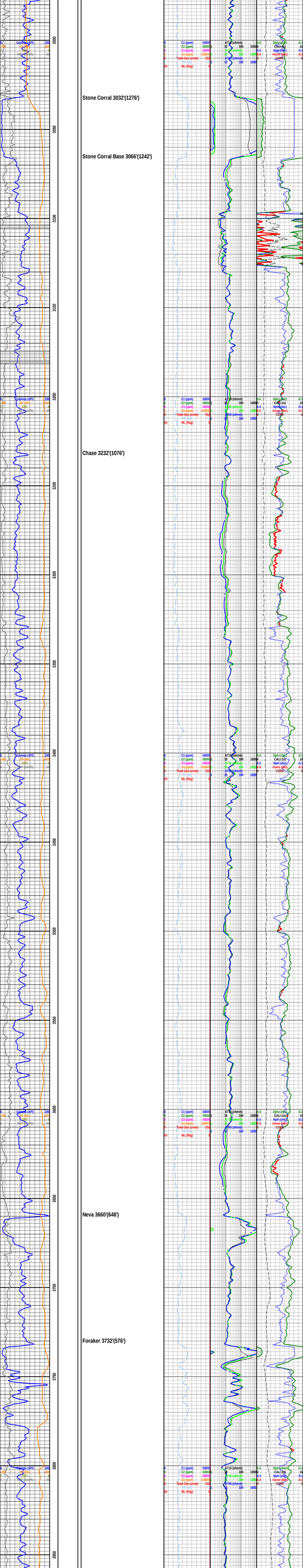
INTERVALS
Core, Dst, casing

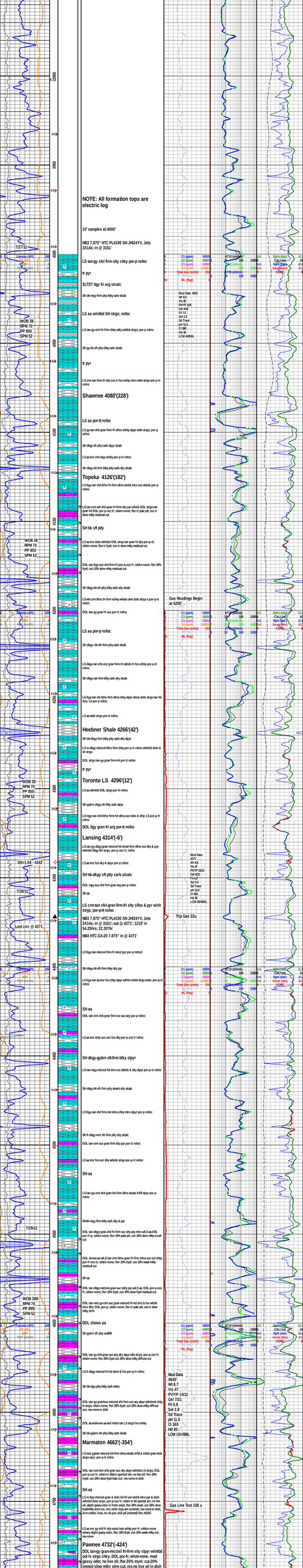
EVENTS
Rft

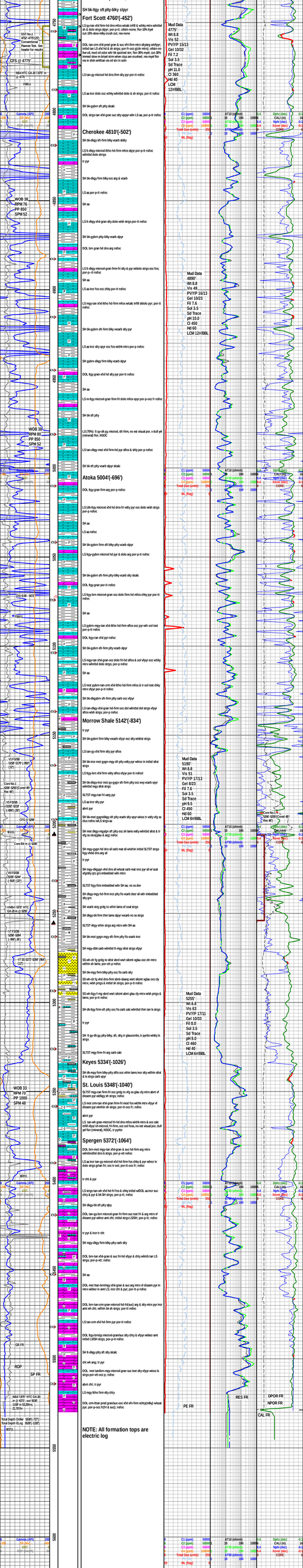
Well

Sidewall, New bit, casingr, casing, Survey, Off bottom, conn, perfs, Survey(red)




Stone Corral 3032'(1276')
Stone Corral Base 3066'(1242')
Chase 3232'(1076')
Neva 3660'(648')
Foraker 3732'(576')
Gamma (API)
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
Total Gas (units)
WL (flag)
AT10 (ohmm)
Dphi (%dec)
CALI (in)
Nphi (vol)
Kxovr (mD)
CORE


NOTE: All formation tops are electric log
10' samples at 4000'
NB3 7.875" HTC PL4100 SN JH824YV, Jets 3X14s; in @ 3161'
LS tan-gy xhl firm silty chky por-p nsfoc
tr pyr
SLTST ltgy fri arg slcalc
SH dk-mgy firm pity-blky carb slcalc
LS aa wlmtbd SH strgs: nsfoc
LS tan-gy-crm fri-firm chky-silty wkltst strgs; por-p nsfoc
SH gy-bk sft pity-blky carb slcalc
tr pyr
LS crm-tan firm-fri sity occ tr fos vchky mtrx wkh strgs por-p-tt nsfoc
Shawnee 4080'(228')
LS aa por-tt nsfoc
LS gy-tan xhd-gran firm-fri sltos vchky slpyr wkh strgs; por-p wnfoc
SH dkgy sft pity carb slpyr slcalc
LS aa incr crm-ltgy vchky por-p-tt nsfoc
SH dkgy-bk firm blky-pity carb sity slcalc
Topeka 4126'(182')
LS ltgy-tan xhd-litho fri-firm sltos wkhk mtrx occ sldolo por-p nsfoc
LS tan-crm-wh xhd-gran fri-firm slty pyr wlmtb DOL strgs tan gran hd DOL por-p-oc tr; oilstn-none; flor-tr pale yel; cut-tr slow milky residual cut
SH bk sft pity
LS aa incr dolo wlmtbd DOL strgs tan gran fri sty por-p-tt; oilstn-none; flor-tr ltyel; cut-tr slow milky residual cut
DOL tan-ltgy suc-xhd firm-fri por-p-oc tr; oilstn-none; flor-10% pale yel; cut-10% slow milky residual cut
SH dkgy-bk sft pity-blky carb slty slcalc
LS wh-crm litho fri-firm vchky wkloc arnt dolo strgs n por-p-tt
Gas Readings Begin at 4200'
DOL tan-gy gran fri suc por-tt nsfoc
LS aa por-p nsfoc
SH dkgy-bk sft firm pity carb slcalc
LS dkgy-tan xhd-occ gran firm-fri sldolo tr fos vchky por-p-tt nsfoc
SH dkgy-tan firm blky carb sity slcalc
LS ltgy-tan xfx litho firm sltos chky slpyr wkoc dolo strgs tan hd dns; LS por-p nsfoc
LS aa wkh strgs por-tt nsfoc
Heebner Shale 4266'(42')
SH bk-dkgy firm blky-pity carb sity slpyr
LS m-dkgy microxl-litho firm chky por-p-tt nsfoc wlmtbd dolo & sh strgs
DOL strgs tan-gy gran firm-hd por-tt nsfoc
tr pyr
Toronto LS 4296'(12')
LS aa wlmtbd DOL strgs por-tt nsfoc
SH gybrn-dkgy sft blky carb slpyr
LS mgy-tan xhd-litho firm-hd sltos occ dolo & silty; LS por-p-tt nsfoc
DOL ltgy gran fri arg por-tt nsfoc
Lansing 4314'(-6')
LS tan-gy-dkgy gran microxl hd dmod-firm sltos occ sty & pyr; wlmtbd dkgy SH strgs; por-p-oc tr; nsfoc
LS aa incr fos sty & slpyr por-p nsfoc
SH bk-dkgy sft pity carb slcalc
DOL mgy suc-xhd firm gran arg por-p nsfoc
SH aa
LS crm-tan xhd-gran firm-fri silty sltos & pyr wlsh strgs; por-p-tt nsfoc
NB3 7.875" HTC PL4100 SN JH824YV, Jets 3X14s; in @ 3161'; out @ 4371'; 1210' in 54.25hrs; 22.30'/hr
NB4 HTC GX-20 7.875" in @ 4371'
Trip Gas 22u
LS ltgy-tan microxl firm-fri sloof pyr por-p nsfoc
SH dkgy-bk sft-firm blky sty pyr
LS ltgy-tan aa incr fos chky slpyr wthin imbd strgs dolo; por-p-tt nsfoc
SH aa
DOL tan-crm xhd-gran firm occ suc arg por-p nsfoc
LS aa incr dolo suc occ fos sty por-p-oc tr nsfoc
SH dkgy-gybrn sft-firm blky slpyr
LS tan-mgy microxl hd dns occ sldolo & sty slpyr por-p-tt nsfoc
SH dkgy-bk sft-firm pity slcarb sity slcalc
LS ltgy-tan xhd firm-hd mfos chky mtrx slpyr por-p nsfoc
SH lt-dkgy mot sft-firm pity sity slcalc
DOL tan-crm suc gran firm sity pyr por-tt nsfoc
LS aa incr fos occ sty wkloic strgs por-p-tt nsfoc
SH aa
LS tan-gy-crm xhd-gran hd-firm sltos wkstc infill slpyr por-p nsfoc
SHdk-mgy firm blky carb sty & pyr
DOL tan-dkgy gran xhd fri-firm suc sty arg mtrx wLS aa DOL por-tr-p; oilstn-none; flor-20% pale yel; cut-10% slow milky crush cut
DOL shows aa wLS tan-crm litho-gran fri-firm mfos occ ool chky por-fr-oc tr; oilstn-none; flor-10% ltyel; cut-10% weak milky residual cut
SH aa
DOL tan-dkgy microxl-gran suc vsity pyr wLS aa; DOL por-p-oc tr; oilstn-none; flor-20% ltyel; cut-10% slow ltyel residual cut
DOL tan-mot gy-crm suc gran-microxl fri-hd dns fo fos wkhk mtrx sty; DOL por-p; oilstn-none; flor-tr pale yel; cut-tr slow milky strm
DOL shows aa
SH gybrn sft pity vcalRB
DOL tan-gy xhd gran suc arg sty slpyr wfs strgs; por-p-oc tr; oilstn-none; flor-20% ltyel cut-20% slow milky diffuse cut
LS f-dkgy microxl fri-hd sbool & fos por-p-tt nsfoc
SH bk-dgy pity-blky carb sldsty
DOL tan-gy granlusc-microxl vfri-firm occ arg slpyr wlmtbd chky ls strgs; oilstn-none; flor-20% ltyel; cut-20% slow milky diffuse cut; no-none in dish
DOL aa wshlows aa and imbd tan LS strgs fos vchky
SH bk-gybrn sft pity-blky carb slcalc
Marmaton 4662'(-354')
LS mot gyltan microxl hd-firm sltos wkstc infill & imbd gran dolo strgs slpyr; por-p-tt nsfoc
DOL tan-crm brn xhd-gran suc sty slpyr wlmtbd LS strgs; DOL por-p-oc tr; oilstn-tr oilstn spotted stn, no live oil; flor-20% ltyel; cut-20% slow ltyel halo cut; no-none in dish
SH aa
LS m-ltgy microxl-gran & dolo hd-fri ool wkhk mtrx pyr & dolo wlmtbd dolo strgs; por-p-oc tr; oilstn-tr bk spotted stn, no live oil, slight gassy odor in fresh smpl; flor-20% myel, cut-20% slow ltyelmilky strm cut, incr when ctgs are crushed; no-none in dish, tr-n oolitic, foss, no vis por, dull yel (mineral) fluo, NSOC
Gas Line Test 108 u
LS aa incr gy xhd fri sty wkool tset vchky por-fr; oilstn-none slvery slight gassy odor; flor-10% ltyel; cut-10% weak milky cut; no-none
Pawnee 4732'(-424')
DOL tan-gy gran-microxl fri-firm slty slpyr wlimtbd ool fos strgs chky; DOL por-fr; oilstn-none, mod gassy odor, no live oil; flor-20% myel; cut-20% immed slow milky strm cut; res-no live oil in dish
WOB 38 RPM 70 PP 850 SPM 52
WOB 38 RPM 70 PP 850 SPM 52
WOB 38 RPM 70 PP 850 SPM 52
WOB 38K RPM 70 PP 899 SPM 52
DS#1.04 - 4342'
Lost circ @ 4371
7/27/11
7/28/11
7/29/11
Mud Data 4040' Wt 8.5 Vis 40 PV/YP 3/8 Gel 4/10 Fl 12 Sol 1.3 Sd Trace pH 12.0 Cl 380 Hd 40 LCM 4#BBL
Mud Data 4200' Wt 8.5 Vis 40 PV/YP 2/8 Gel 4/10 Fl 12 Sol 1.3 Sd Trace pH 12.0 Cl 380 Hd 40 LCM 4#BBL
Mud Data 4371' Wt 8.8 Vis 47 PV/YP 3/12 Gel 4/13 Fl 6.8 Sol 2.8 Sd Trace pH 11.5 Cl 360 Hd 30 LCM 10#BBL
Mud Data 4640' Wt 8.7 Vis 47 PV/YP 14/11 Gel 7/21 Fl 6.8 Sol 2.8 Sd Trace pH 11.5 Cl 360 Hd 40 LCM 10#BBL
C1 (ppm) 50000
C2 (ppm) 50000
C3 (ppm) 50000
C4 (ppm) 50000
Total Gas (units) 100
WL (flag)
AT10 (ohmm) 10
AT30 (ohmm) 100
AT90 (ohmm) 1000
Gamma (API) 200
CALI (in) 16
Hole Size 6.4
Xover (dec) 0.3
CORR 0.5


Fort Scott 4760'(-452')
Cherokee 4810'(-502')
Atoka 5004'(-696')
Morrow Shale 5142'(-834')
Keyes 5334'(-1026')
St. Louis 5348'(-1040')
Spergen 5372'(-1064')
Mud Data
4775'
Wt 8.8
Vis 52
PV/YP 15/13
Gel 10/12
Fil 7.2
Sol 3.5
Sol Trace
pH 11.0
Cl 360
Hd 40
LCM
12#/BBL
Mud Data
4890'
Wt 8.8
Vis 49
PV/YP 16/13
Gel 10/23
Fil 7.6
Sol 3.5
Sol Trace
pH 10.0
Cl 450
Hd 60
LCM 12#/BBL
Mud Data
5190'
Wt 8.8
Vis 51
PV/YP 17/13
Gel 8&23
Fil 7.6
Sol 3.5
Sol Trace
pH 9.5
Cl 450
Hd 60
LCM 8#/BBL
Mud Data
5255'
Wt 8.8
Vis 63
PV/YP 17/11
Gel 16/33
Fil 8.0
Sol 3.5
Sol Trace
pH 8.0
Cl 460
Hd 40
LCM 6#/BBL
WOB 38
RPM 76
PP 850
SPM 52
WOB 38
RPM 80
PP 850
SPM 52
WOB 33
RPM 70
PP 1000
SPM 48
CFS @ 4775'
CFS @ 5080'
ROP
SP FR
GR FR
RES FR
DPOR FR
NPOR FR
CAL FR
PE FR
Total Depth Driller 5930'(-727')
Total Depth ELog 5928'(-1026')
NOTE: All formation tops are electric log