



Oil & Gas Ltd.

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

Well Name: Cottonwood Grazing 3-22
 Location: SWSW Sec 22-T12S-R52W, Lincoln County, Colorado
 License Number: API: 05-073-06444 Region: Wildcat
 Spud Date: 3/14/11 Drilling Completed: 4/2/11
 Surface Coordinates: 660' FSL & 880' FWL
 Lat: 38.981850, Long: -102.215410
 Bottom Hole Coordinates: Same

Ground Elevation (ft): 4840 K.B. Elevation (ft): 4851'
 Logged Interval (ft): 5300' To: 6622' Total Depth (ft): 6623' LTD
 Formation: Morrow
 Type of Drilling Fluid: LSND

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.co

OPERATOR

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

GEOLOGIST

Name: M. Goolsby
 Company: Vecta Oil & Gas Ltd
 Address: 575 Union Blvd., Suite 208
 Lakewood, CO 80228

Comments

- 1) 9 5/8" csg set @ 420' KB.
- 2) Contractor: Black Gold Rig #69. Toolpusher: Bob Kliesen
- 3) Well was plugged and abandoned on 4/3/11.

ROCK TYPES

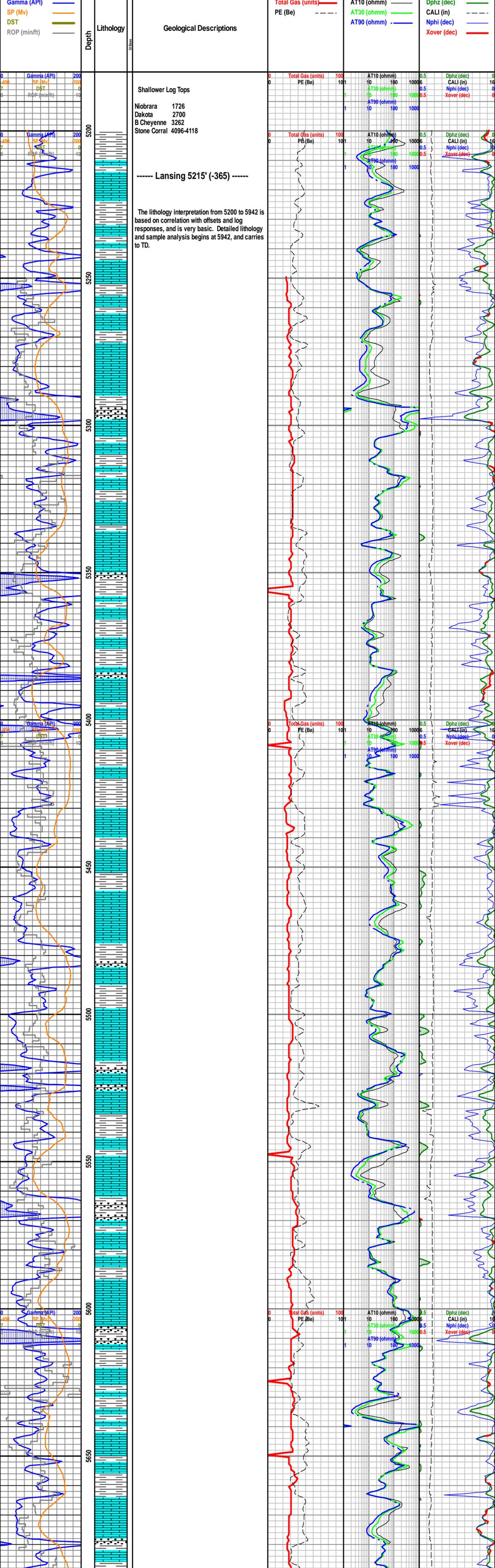
ss fg+	Clyst	Lmst	Shgy
Carb sh	Coal	Meta	Ss
Anhy	Congl	Mrlst	Till
Bent	Dol	Mrlst	sltst
Brec	Gyp	Shale	anhy1
Cht	Igne	Shcol	chalk

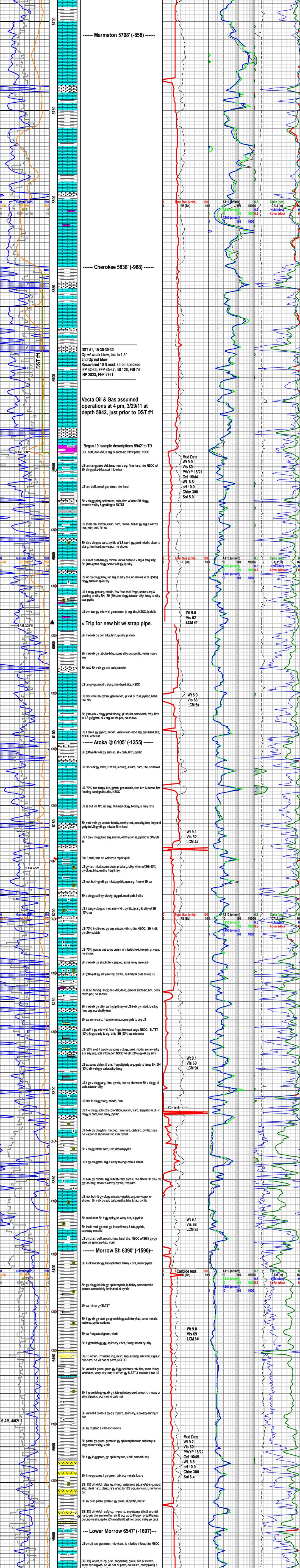
ACCESSORIES

MINERAL	Marl	Coral	Dol
Pyr	Minxl	Crin	Gyp
Anhy	Nodule	Echin	Ls
Arggrn	Phos	Fish	Mrst
Arg	Pyr	Foram	Slststrg
Bent	Salt	Fossil	Ssstrg
Bit	Sandy	Gastro	
Brecfrag	Silt	Oolite	TEXTURE
Calc	Sil	Ostra	Boundst
Carb	Sulphur	Pelec	Chalky
Chtdk	Tuff	Pellet	Cryxln
Chltt		Pisolite	Earthy
Dol	FOSSIL	Plant	Finexln
Feldspar	Algae	Strom	Grainst
Ferrpel	Amph	STRINGER	Lithogr
Ferr	Belm	Anhy	Microxln
Glau	Bioclst	Arg	Mudst
Gyp	Brach	Bent	Packst
Hymmin	Bryozoa	Coal	Wackest
Kaol	Cephal		

OTHER SYMBOLS

POROSITY TYPE	Moderate	near even	Sidewall
Earthy	Poor	Ques	New bit casing
Fracture	ROUNDING	Dead	casing
Inter	Rounded	vspotty	Survey
Moldic	Subrnd	INTERVALS	Off bottom conn
Organic	Subang	Core	perfs
Pinpoint	Angular	Dst	Survey(red)
Vuggy	OIL SHOWS	casing	
SORTING	Even	EVENTS	
Well	Spotted	Rft	





----- Marmaton 5708' (-858) -----

----- Cherokee 5838' (-988) -----

DST #1, 15-30-30
 Op w/ weak inc, up to 1.5"
 2nd Op not blow
 Recovered 10 ft mud, sli oil specked
 IFP 42-43, FFP 45-47, ISI 128, FSI 74
 IHP 2823, FHP 2761

Vecta Oil & Gas assumed operations at 4 pm, 3/29/11 at depth 5942, just prior to DST #1

Began 10' sample descriptions 5942' to TD
 DOL buff, mic-vxl, sl arg, sl sucrosic, v low perm, NSOC

LS tan-tangy, mic-vxl, foss, non-v arg, firm-hard, tite, NSOC w/ SH dk gy, platy-bily, scat mic-mica

LS tan, buff, micxl, gen clean, tite, hard

SH v dk gy, platy-splintered, carb, firm w/ abnt SH dk gy, smooth-v silty & grading to SILTST

LS some tan, micxl, clean, hard, tite w/ LS lt-m gy, arg & earthy text, brit; 20% SH aa

SH dk-v dk gy, sl carb, pyritic w/ LS tan-lt gy, pred micxl, clean to sl arg, firm-hard, no vis por, no shows

LS sl mot buff-tan-gy, micxl, varies clean to v arg & freq silty; SH (40%) pred dk gy, some v dk gy, ip silty

LS inc gy-dk gy, bily, inc arg, ip silty, tite, no shows w/ SH (50%) dk gy, tabular-splintery

LS lt-m gy, gen arg, micxl, few foss shell frags, some v arg & grading to silty SH; SH (50%) m-dk gy, tabular-bily, limey to silty, scat pyrite

LS crm-tan-gy, mic-vxl, gen clean, ip arg, tite, NSOC, ip dolc

< Trip for new bit w/ strap pipe.

SH med-dk gy, gen bily, firm, ip silty, ip v lmy

SH med-dk gy, tabular-bily, some silty, occ pyritic, varies non-v lmy

SH aa & SH v dk gy, sub carb, tabular

LS tangy-gy, micxl, sl arg, firm-hard, tite, NSOC

LS mot crm-tan-gybrn, gen micxl, ip vxl, sl foss, pyritic, hard, tite, NS

SH (60%) m-v dk gy, pred blocky, ip tabular, some carb, rthy, firm w/ LS gygybrn, sl-v arg, no vis por, no shows

LS lt tan-lt gy, gybrn, micxl, varies clean-mod arg, gen hard, tite, NSOC w/ SH aa

----- Atoka @ 6105' (-1255) -----

SH (60%) dk-v dk gy, subtab, sl-v carb, firm, pyritic

LS tan-v dk gy, micxl, tr vxl, sl-v arg, sl carb, hard, tite, noshows

LS (70%) tan-tangy-brn, gybrn, gen micxl, freq brn & dense, few floating sand grains, tite, NSOC

LS aa but inc GY, inc arg; SH med-dk gy, blocky, sl limy, rthy

SH med-v dk gy, subtab-blocky, earthy text, occ silty, freq limy and grds to LS gy-dk gy, micxl, firm-hard

LS lt gy-v dk gy, freq arg, micxl, earthy-dense, pyritic w/ 50% SH aa

Pull 8 stds, wait on welder to repair quill

LS gy-tan, micxl, some clean, pred arg, bily, v firm w/ SH (60%) gy-dk gy, bily, earthy, freq limy

LS mot buff-gy-dk gy, micxl, pyritic, gen arg, firm w/ SH aa

SH v dk gy, splinty-blocky, jagged, mod carb & silty

LS lt tangy-dk gy, sl mot, mic-vxl, pyritic, ip arg & silty w/ SH (40%) aa

LS (70%) inc lt-med gy, arg, micxl, v firm, tite, NSOC; SH lt-dk gy, bily-subtab

LS (70%) gen aa but some cream w/ micritic text, few pin pt vugs, no shows

SH med-dk gy, sl splintery, jagged, some limey, rare carb

SH (50%) dk gy, silty-earthly, pyritic, ip limey & grds to arg LS

LS aa & LS (5%) tangy, mic-vxl, dolc, gran-sl sucrosic, brit, poss micro por, no shows

SH med-dk gy, bily, earthy, ip limey w/ LS lt-dk gy, micxl, ip slt y, firm, arg, occ chalky text

SH aa, some carb, freq mic-mica, some grds to arg LS

LS buff-lt gy, mic-vxl, foss frags, few scat vugs, NSOC; SILTST (10%) lt gy, sl sdy & arg, brit; SH (50%) aa, mic-mica

LS (50%) mot lt-gy-dk gy, some v dk gy, pred micxl, some v silty & sl sdy, arg, scat ltn brn, NSOC w/ SH (50%) gy-dk gy, silty

LS aa, some dk brn & dns, freq silty/sdy, arg, grds to limey SH; SH (60%) dk-v dk gy, varies silty-limey

LS lt gy-dk gy, arg, firm, pyritic, tite, no shows w/ SH v dk gy, sl carb, tabular-bily

LS mot lt-dk gy, v arg, micxl, firm

LS lt-v dk gy, splotchy coloration, micxl, v arg, sl pyritic w/ SH v dk gy, sl carb, freq limey, pyritic

LS lt-dk gy, dk gybrn, mottled, firm-hard, carb/arg, pyritic, foss, no vis por or shows w/ freq v dk gy SH

SH v dk gy, black carb, freq dessim pyrite

LS lt gy-dk gybrn, arg & earthy to cryptoxn & dense

LS lt-dk gy, micxl, arg, subtab-bily, pyritic, tite, NS w/ SH dk-v dk gy, tab-bily, smooth-earthly, pyritic, freq carb

LS mot buff-lt gy-dk gy, micxl, v pyritic, arg, no vis por or shows; SH v dk gy, sub carb, earthy, bily & tab, pyritic

SH aa w/ abnt SH lt gy, splity, sb waxy, brit, sl pyritic

SH inc lt-med gy, steel gy, inc splintery & tab, pyritic, subwaxy-metallic

LS crm, tan, buff, micxl, foss, hard, tite, NSOC w/ SH lt-gy-gy, steel gy, splintery-tab, v brit

----- Morrow Sh 6390' (-1590)-----

SH lt-dk metallic gy, tab-splintery, flakey, v brit, minor pyrite

SH gy-dk gy, bluish gy, splintery/tab, ip flakey, some metallic lustere, some thinly laminated, sl pyritic

SH aa, minor gy SILTST

SH lt gy-dk gy, steel gy, greenish gy, splintery/tab, some metallic lustere, pyrite nodules

SH aa, freq pastel green, v brit

SH lt greenish gy, gy, splintery, v brit, flakey, smoot hy-silty

SS (tr) of wh, trmslucnt, vfg, m srt, ang-subang, silic cmt, v glauc, brit-hard, no vis por or perm, NSFOC

SH varicol lt green-green gy-lt gy, splintery-tab, fiss, some thinly laminated, waxy-silty text; tr of wh-gy SILTST & rare tab lt tan LS

SH lt greenish-gy, dk gy, tab-splintery, pred smooth, tr waxy or silty, sl pyritic, occ mot w/ carb mat

SH varicol lt green-lt gy-gy, tr purp, splintery, subwaxy-earthly, v brit

SH aa, tr glauc & carb inclusions

SH pastel gy-green, greenish gy, splintery/tabular, subwaxy-sl silty, minor v silty, v brit

SH lt gy, lt gygreen, gy, splintery-tab, v brit, smooth-silty

SH lt-m gy, some lt gy green, tab, occ metallic lustre

SS (1%) of wh/clr, clear gy, v-fng, varies m-p srt, ang/sbang, most silic, tite & hard, glauc, rare w/ up to 10% por, no vis stn, no fl or cut

SH aa, pred pastel green-lt gy green, sl pyritic, brit/sf

SS (2%) of wh/clr, uvfg-cg, m-p srt, ang-sbang, silic & w cmtid, hard, gen tite, some of wh clay fl, occ up to 8% por, pred 6% max por, no vis stn, up to 50% mod bri lt yel flor, good milky yel cuts

--- Lower Morrow 6547' (-1697)---

LS crm, lt tan, gen clean, mic-vxl, ip micritic v foss, tite, NSOC

SS (1%) wh/clr, v-fng, p srt, ang/sbang, glauc, silic & w cmtid, some qtz overwth, no vis por or perm, no vis stn, ptchy (40%) lt

Total Gas (units) PE (Be)

AT10 (ohmm) AT30 (ohmm) AT90 (ohmm)

Dphz (dec) CALI (in) Nphi (dec) Xover (dec)

Mud Data
 Wt 9.0
 Vis 60
 PV/YP 18/21
 Gel 16/44
 WL 8.8
 pH 10.0
 Chlor 300
 Sol 5.0

Wt 9.0
 Vis 62
 LCM 8#

Wt 8.9
 Vis 63
 LCM 5#

Wt 9.1
 Vis 52
 LCM 4#

Carbide test

Wt 9.1
 Vis 60
 LCM 9#

Carbide test

Wt 9.1
 Vis 68
 LCM 8#

Wt 9.0
 Vis 69
 LCM 8#

Mud Data
 Wt 9.2
 Vis 60
 PV/YP 18/22
 Gel 16/45
 WL 8.8
 pH 10.0
 Chlor 300
 Sol 6.4

