

Circulating Report

START UNMANNED UNIT 12/12/2010

START MANNED UNIT 12/14/2010

CFS 3254' 20,40,60 TOTAL 1.5 HRS

SHORT TRIP

CTCH 1 HR

CFS 3280' 20,40,60

CFS 3321' 20,40,60

CFS 350' 20,40,60 TOTAL 2 HRS

DST#1

CTCH 3350' 1 HR

CFS 3400' 20,40,60

CFS 3435' 20,40,60 TOTAL 1.5 HRS

DST#2

RIG TIME. CIRCULATING 30 STANDS OFF BOTTOM DUE TO DRILL LINE PROBLEMS START 2:00 PM 12/16/2010


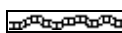
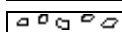
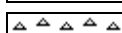
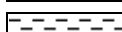


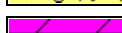
DST's Report



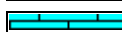

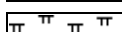

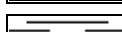
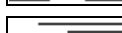
DST#1 3304'-3350' 46' ANCHOR IF:STRNG BLOW. BOB IN 5 MIN,ISI:NO BLOW FF:STRNG BLOW. BOB IN 3 MIN
FSI:WEAK BLOW 1/2-1 1/2" RECOVERY 205' GIP,80,GOCM.110' MW W OIL SPOTS TOTAL 190' BHT 105 DEG API RV
12@43 DEG CLORIDES 119,000, IH:1573,FIF:37,FFF:55,ISI:1011,SIF:54,SFF:108,FSI:963, FH:1554, TIMES:5,60,45,135

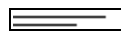

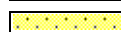




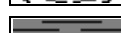
DST#2 3386'-3435' ANCHOR:49' IF STRNG BLOW BOB IN 2 MINS ISI:WEAK BLOW 1/2", FF:STRONG BLOW BOB IN
20 SEC FSI:STRONG BLOW GTS WHILE BLEEDING OFF VENT FSIP, RECOVERY:250' GOCM,60'CGO,125'GOCM
TOTAL:435' BHT 105 DEG GRAVITY:36.4 CLORIDES 4600 IH:1641,FIF:41,FFF:67,ISI:
1222,SIF:80,SFF:187,FSI:1195,FH:1597,
TIMES 8,60,60,180







DST's Report

ROCK TYPES

	Anhy
	Bent
	Brec
	Cht
	Clyst
	Coal
	Congl
	Dol

	Gyp
	Igne
	Lmst
	Meta
	Mrlst
	Salt
	Shale
	Shcol

	Shgy
	Sltst
	Ss
	Till
	Carb sh
	Dol
	Dtd
	Gry sh

	Sandylms
	Shale
	Sltstn
	Shlyslts
	Sltyslts
	Lms

ACCESSORIES

- MINERAL**
- Anhy
 - Arggrn
 - Arg
 - Bent
 - Bit
 - Breclfrag
 - Calc
 - Carb
 - Chtdk
 - Chtlt
 - Dol
 - Feldspar
 - Ferrpel
 - Ferr
 - Glau
 - Gyp
 - Hvymin
 - Kaol
 - Marl
 - Minxl
 - Nodule
 - Phos
 - Pyr

- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Sity

- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

- FOSSIL**
- Algae
 - Amph
 - Belm
 - Bioclst
 - Brach
 - Bryozoa
 - Cephal
 - Coral
 - Crin
 - Echin
 - Fish
 - Foram

- STRINGER**
- Anhy
 - Arg
 - Bent
 - Coal
 - Dol
 - Gyp
 - Ls
 - Mrst
 - Sltstrg
 - Ssstrg
 - Carbsh

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

OTHER SYMBOLS

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

- SORTING**
- Well
 - Moderate
 - Poor

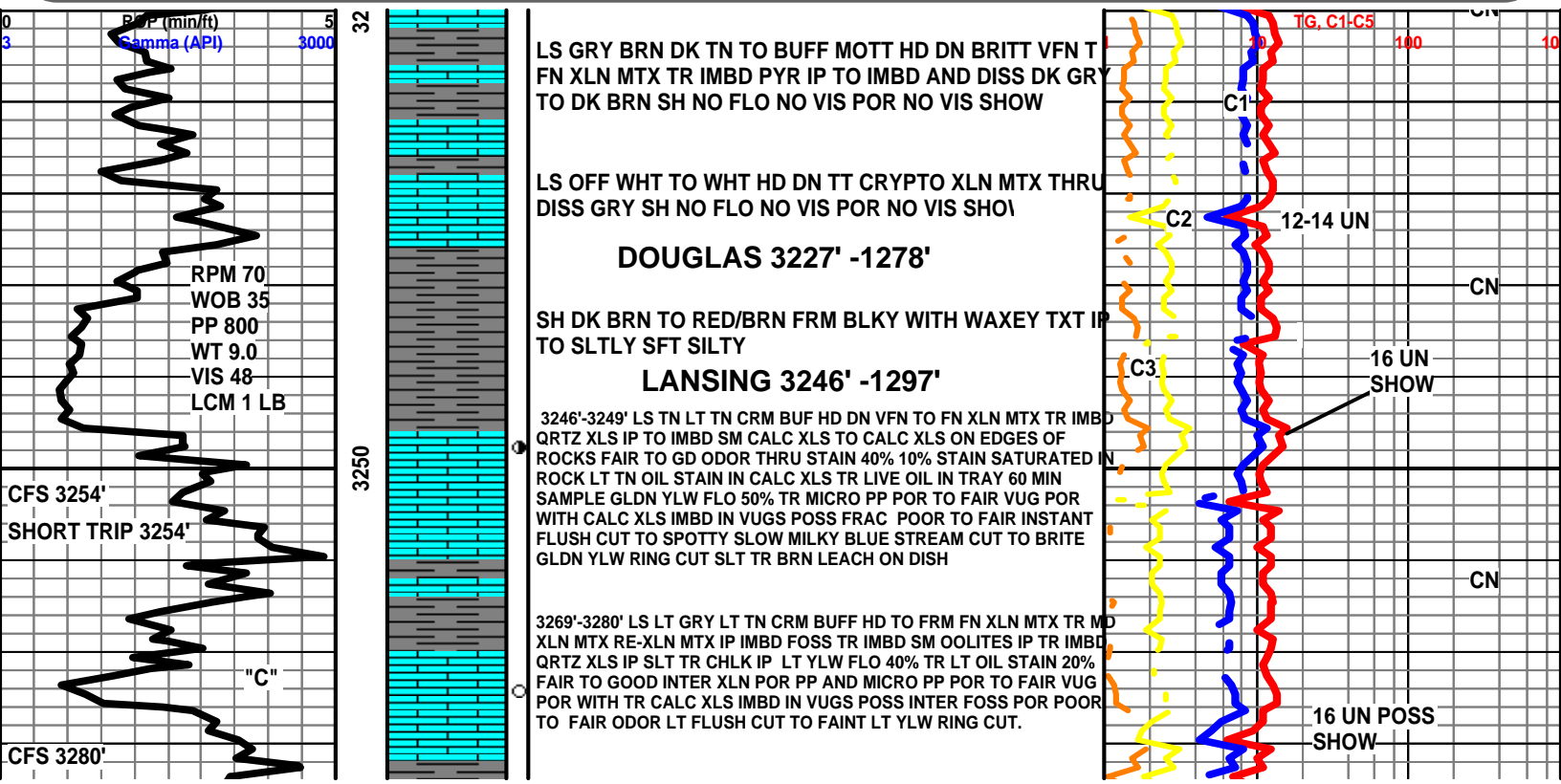
- Angular

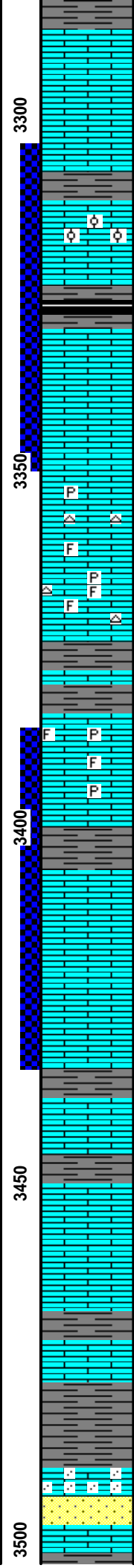
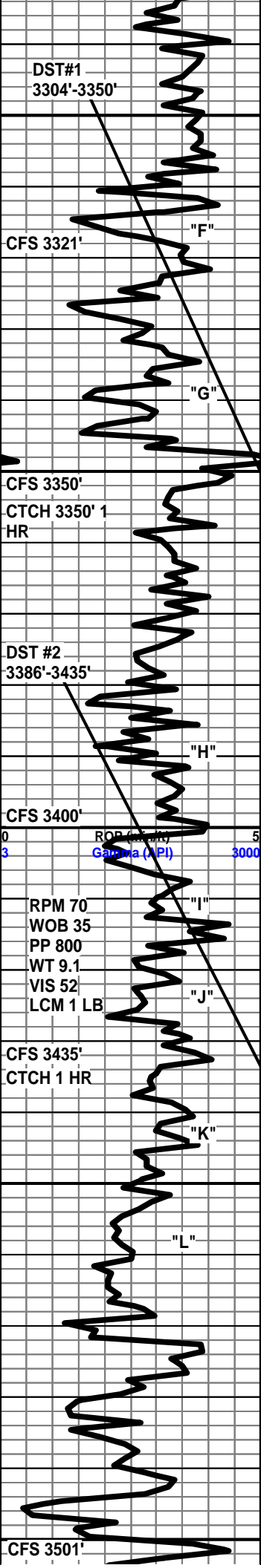
- INTERVALS**
- Core
 - Dst
 - Dst

- ROUNDING**
- Rounded
 - Subrnd
 - Subang

- OIL SHOWS**
- Even
 - Spotted
 - Ques
 - Dead
 - Gas show

- EVENTS**
- Rft
 - Sidewall





SH DK GRY SMOOTH HRD TO BRITT

3304'-3350' LS CRM BUFF OFF WHT TO WHT HD DN TT CRYPTO TO VVFN XLN MTX TR IMBD FOSS TR LMNTD PYR IP NO FLO NO VIS POR NO VIS SHOW

3312'-3319' LS TN LT TN DUE TO STAIN CRM BUFF FRM BRITT VFN TO FN TO TR MD XLN MTX RE-XLN MTX IMBD SM OOLITES WITH IMBD CALC XLS FAIR TO GOD INTER XLN POR TR VUG POR POOR FAIR TO TR GOOD INTER FOSS POR GLDN YLW FLO THRU STAIN 60% GOOD TO EXCEL ODOR FAIR TO GOOD INSTANT FLUSH CUT TO FAIR STRONG MILKY BLUE STREAM CUT

SH DK GRY SMOOTH HRD BRITT TO BLK CARB SF

3337'-3345' LS CRM BUFF TO OFF WHT HD DN FRM FN XLN MTX IMBD FOSS TR LOOSE QRTZ XLS IN TRAY CALC XLS IP GLDN YLW FLO 80% STAIN 50-60% SLT TR LIVE OIL IN 60 SMPLE GOOD ODOR THRU POOR TO TR FAIR INTER XLN POR TO FAIR SM/MD VUGS PP POR INSTANT FLUSH CUT TO SLOW MILKY BLUE STREAM CUT

LS LT GY LT TN CRM BUFF TO OFF WHT HD DN TT CRYPTO TO VVFN XLN MTX TR IMBD PYR TO TR IMBD FOSS IP TR LT WHT TO LT GRN CHERT IP NO FLO NO VIS POR NO VIS SHOW

SH DK GRY HD SMOOTH FRM SPLNTY CALC TO LMY

3377'-3385' LS LT TN CRM BUFF HD FRM BRITT VFN TO FN XLN MTX RE-XLN MTX RE-XLN MTX IP TR IMBD QRTZ XLS IP TR VRY SM LS GRNS IMB IP STAIN 10% LT YLW FLO 25% POOR TO NO INTER XLN POR TR POOR VUG TO TR PP AND MICRO PP POR IP FAINT ODOR VRY FAINT FLUSH CUT LT YLW RING CUT

SH GRY BRN FRM BLKY CALC TO LMY

3408'-3413' LS CRM BUFF OFF WHT HD DN TT CRYPTO TO VVFN XLN MTX TR CHERT IP LT YLW FLO 20% SLT TR OIL STAIN 5% TR VUGS IP TO TR MICRO PP POR TO NO POR FAINT TO POOR ODOR FAINT FLUSH CUT TO LT YLW RING CUT

3417'-3427' LS LT TN DUE TO STAIN CRM BUFF HD TO FRM VFN TO FN TO TR MD XLN MTX IMBD CALC XLS IN VUGS OOMOLDIC IP SUCRO TXT THRU POOR TO TR FAIR INTER XLN POR POOR VUGS TO TR PP AND MICRO PP POR. LT YLW FLO 40% GLDN YLW FLO 20% STAIN 50% POOR TO FAIR ODOR FAIR INSTANT FLUSH CUT TO SPURTY MILKY BLUE STREAM CUT LT YLW RING CUT

LS CRM BUFF OFF WHT TO WHT HD DN TT CRYPTO TO VVFN XLN MTX DIS GRY SH IP NO FLO NO VIS POR NO VIS SHOW

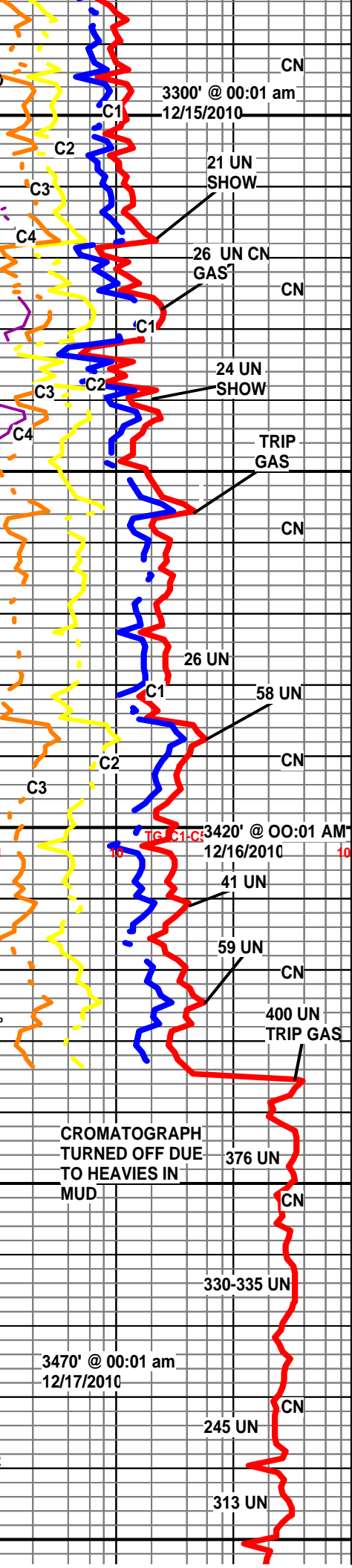
LS DK TN LT TN CRM BUFF TO LT GRY HD DN TT CRYPTO TO VVFN TO FN XLN MTX RE-XLN MTX IP IMBD FOSS SUB-CHLKY IP TR IMBD SM LS GRNS IP SCATT LT YLW FLO NO VIS POR NO VIS SHOV

BKC 3478' -1529'

SH GRY DK RN FRM BLKY TO SMOOTH SPLNTY

3489'-3494' LS CRM BUFF OFF WHT HD FRM BRITT FN XLN MTX IMBD SUB-RND TO RND SS GRNS TO TR LOOSE QRTZ XLS IN TRAY TR LT OIL STAIN POSS TT INTER XLN TO NO POR LT YLW FLO 30% NO ODOR FAINT FLUSH CUT

3494'-3498' SS TN DUE TO STAIN TO CLR FRSTY WHT FRI VRY SM TO SM TO MD ANG SUB-ANG TO SUB-RND SS GRNS WITH SILICIOUS CMNT FAIR TO GOOD SORT STAIN 95% GLDN FLO THRU POOR FAIR TO GOOD INTER GRAN POR FAIR TO GOOD ODOR INSTANT FLUSH CUT TO SLOW STRONG MILKY BLUE STREAM CUT



CUT TO SLOW STRONG MILKY BLUE STREAM CUT GLDN YLW RIN
CUT TO BRN LEACH ON DISH

SH RED BRN SLTLY FRM SFT GUMMY WITH OFF WHT TN TO ORNG
CHERT TR LS DK TN TO TN HD DN TT CRYPTO XLN MTX

ARBUCKLE 3527' -1578'

3527'-3533' DOL CRM BUFF OFF WHT HD FRM VFN TO FN XLN MTX
SUCRO TXT WITH VRY SM DOL GRNS IMBD GLDN YLW FLO 50% STAIN
30% FAIR ODOR POSS TT INTER XLN POR FAIR FLUSH CUT GLDN YLW
RING CUT

3533'-3545' DOL CRM BUFF OFF WHT TN DUE TO STAIN LT GRY IP HD
FRM SM TO MD ANG TO SUB-ANG DOL XLS THRU LT GLDN YLW FLO
THRU STAIN 70% LIVE OIL ON ROCKS AND IN TRAY POOR TO FAIR
INTER XLN POR PP AND MICRO PP POR FAIR TO GOOD ODOR
EXCELLENT INSTANT FLUSH CUT TO SLOW MILKY BLUE STREAM CL
BRN LEACH ON DISH

CFS 3545'

3550

3600

3650

3700

ROP (min/ft) 5
Gamma (API) 3000

211 UN
SHOW

CN

CN

TG, C1-C5

10

100

10