

10/23/15

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

Well Name: SIDNEY # 1-17
 Location: Sec 17 26s 33w, Finney County, Kansas
 Licence Number: 15-055-22425-0000
 Spud Date: Oct. 09, 2015
 Surface Coordinates: 1050' FSL & 2305' FEL
 Region: IVANHOE
 Drilling Completed: OCT. 23, 2015

Bottom Hole Coordinates:
 Ground Elevation (ft): 2910' K.B. Elevation (ft): 2922'
 Logged Interval (ft): 4200' To: 5383' Total Depth (ft): 5383'
 Formation: MARMATON
 Type of Drilling Fluid: Natural Chemical

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OPERATOR

Company: BEREXCO, LLC
 Address: 2020 N. Bramblewood
 Wichita, Kansas
 Ge: Mr. Pete Wilson

GEOLOGIST

Name: Edwin H. Grieves
 Company: GRIEVES & CO.
 Address: P.O. Box 1325
 Edmond, Okla. 73083-3125
 1-405-826-9027

ROCK TYPES

Anhy	Congl	Mrlst	Ss	Sandylms
Bent	Dol	Salt	Till	Shale
Brecc	Gyp	Shale	Carb sh	Siltstn
Cht	Igne	Shcol	Dol	Shlystns
Clyst	Lmst	Shgy	Dtd	Sltsh
Coal	Meta	Sltst	Gry sh	Lms

ACCESSORIES

MINERAL	Marl	Belm	Fuss	Lms
Anhy	Minxl	Bioclst	Oomold	Sandylms
Arggrn	Nodule	Brach	STRINGER	Sh
Arg	Phos	Bryozoa	Anhy	Siltstn
Bent	Pyr	Cephal	Arg	TEXTURE
Bit	Salt	Coral	Bent	Boundst
Breccfrag	Sandy	Crin	Coal	Chalky
Calc	Silt	Echin	Dol	Cryxln
Carb	Sil	Fish		

- Calc
- Carb
- Chtdk
- Chltt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol

- Silt
 - Sil
 - Sulphur
 - Tuff
 - Chlorite
 - Dol
 - Sand
 - Sity
- FOSSIL**
- Algae
 - Amph

- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

- Coal
- Dol
- Gyp
- Ls
- Mrst
- Siltstrg
- Ssstrg
- Carbsh
- Clystn
- Dol
- Grysh
- Gryslt

- 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

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

Spotted

- Ques
- Dead
- Gas show

Dst

EVENTS

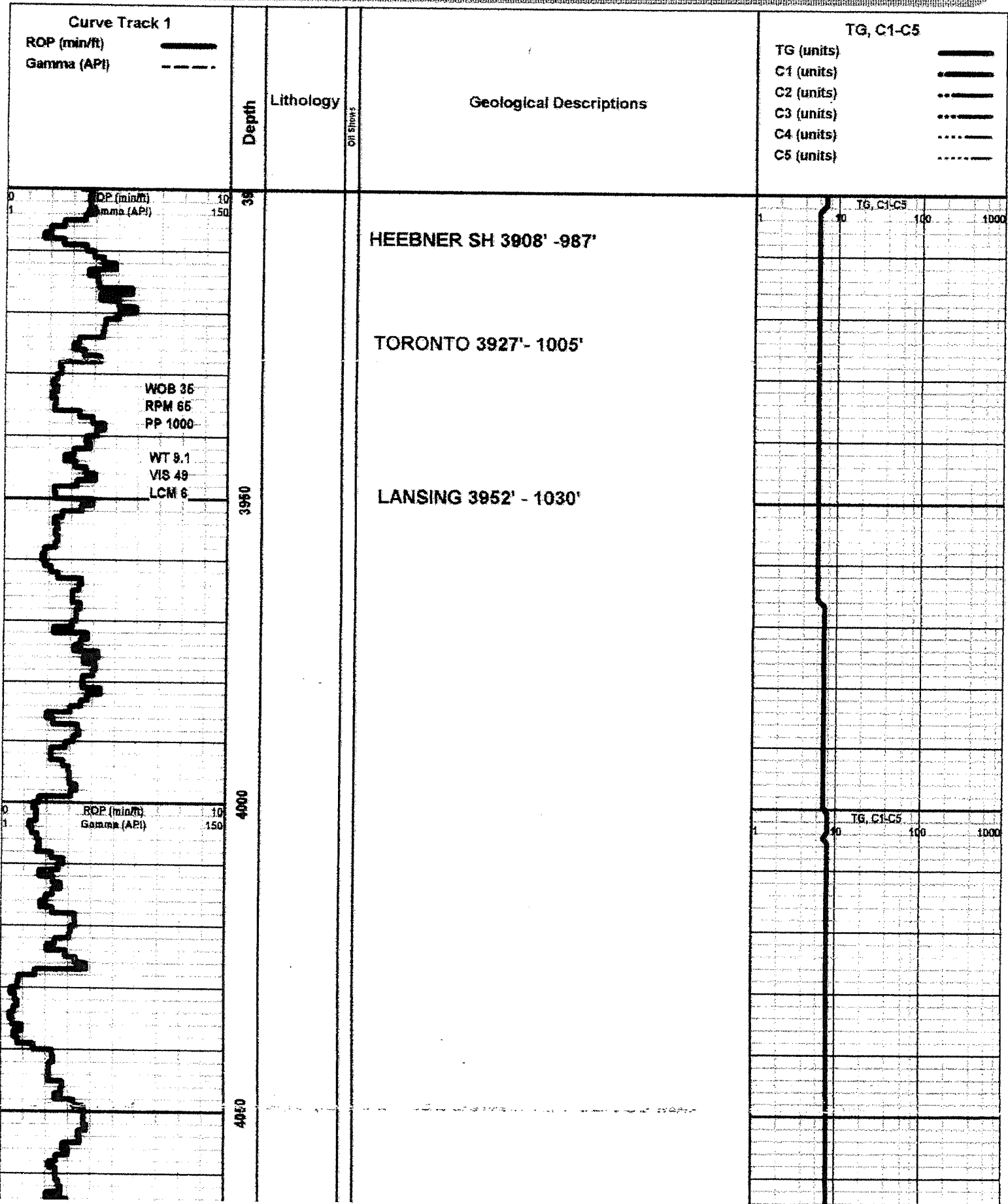
- Rft
- Sidewall

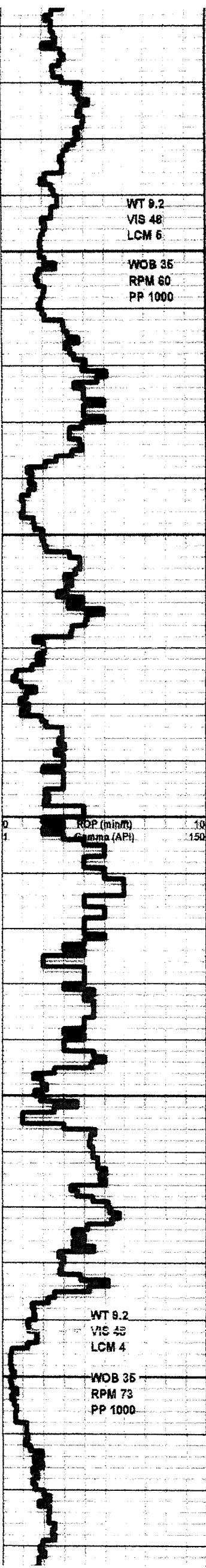
OIL SHOWS

- Even

INTERVALS

- Core
- Dst





WT 9.2
VIS 48
LCM 6

WOB 35
RPM 60
PP 1000

ROP (min/hr) 10
Gamma (API) 150

WT 9.2
VIS 43
LCM 4

WOB 35
RPM 73
PP 1000

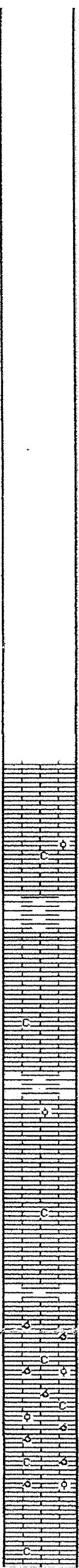
4100

4150

4200

4250

4300

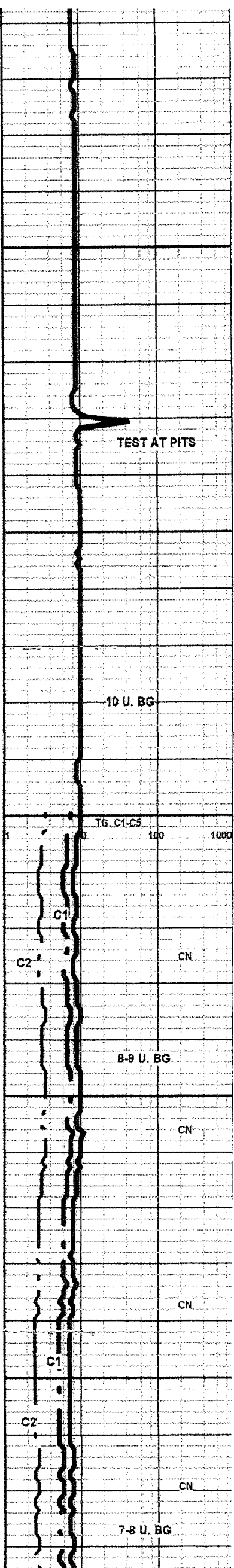


4200-4245' LMS-TAN TO TRS GRAYISH TAN;
CRYPTO-VW/F-XLN SUB CHLKY, SUB SUCRO, PACKSTN TO
TRS SUB-LITHO GRAPHIC; TR PHNTM OOLITIC IP, TRS SLI
SHLY; DLL YEL TO YEL FLUOR, NO CUT, NO VIS POR, W/
TRS CHRT GRAY OPAQUE

4245-4266' LMS-TRS TO HVY TRS WHT TO CRM CHLK & TAN;
CRYPTO-VW/FN-XLN; SUB CHLKY, SUB SUCRO TO
SUCRO; TRS PHNTM OOLITIC, DLL YEL TO YEL FLUOR; NO
CUT; HVY TRS TO ABDT PP, MICRO PP & POSS INTER-XLN
POR IP

4266-4285' LMS SIMILAR TO 4200-4245

4285-4360' LMS ABDNT WHT TO CRM, CHLK & GRAYISH TAN
TO TAN; CRYPTO TO VW/FN-XLN; W TO EXTREMELY
OOLICASTIC & OR EXTREMELY OOLITIC; MATRIX TRS SUB
CHLKY, SUB SUCRO TO SUCRO & PACKSTONE; DLL YEL TO
YEL FLUOR; NO CUT, ABDNT PR, FR TO GD, TO EXCELLENT
OOLICASTIC POR & HVY TRS PR TO FR MICRO PP & POSS
INTER-XLN POR



TEST AT PITS

10 U. BG

TG, C1-C5 100 1000

8-9 U. BG

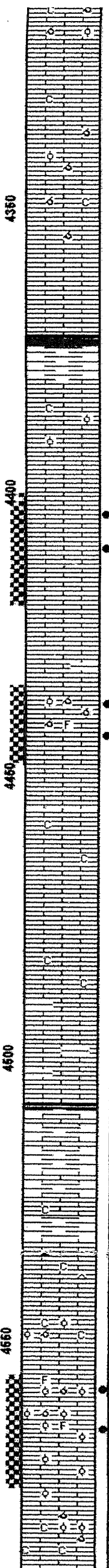
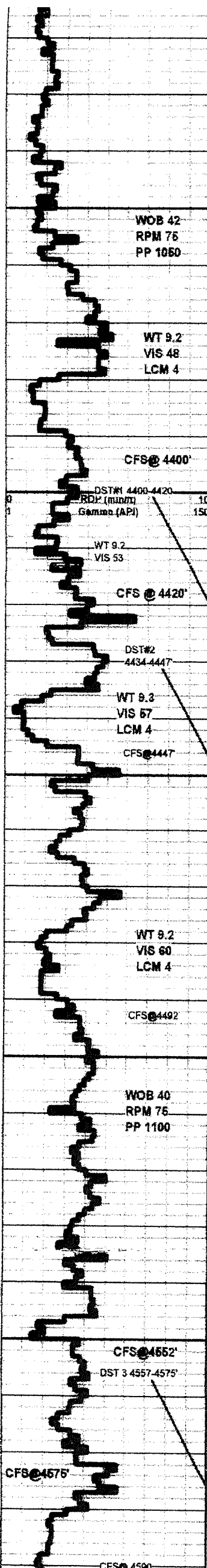
7-8 U. BG

CN

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4360-4373- LMS-LT TO MED GRY; GRAY, TANISH IP;
CRYPTO-XLN TO PACKSTN TO TRS SUB LITHOGRAPHIC,
DLL YEL FLUOR, NO CUT, NO VIS POR

SH- MD TO VI DK GY CALC TO VI DK GY TO BLK CARB

4379-4389, LMS-HVY TRS TO ABDT WHT TO CRM-CHLK & TAN CRYPTO TO
VVWFN XLN; TRS SUB CHLKY, SUB SUCRO & PACKSTN, ABDT SLI TO FRLY
OOLITIC; DLL YEL TO YEL FLO, NO CUT, ABDT PR TO FR TO HVY TRS GD
TO EXCEL MICRO PP TO PRDB INTER-XLN POR

4389-4401 LMS- LT GRAY TO TAN; CRYPTO-XLN, PACKSTN TO VI ABDT SUB
LITHOGRAPHIC, DLL YEL TO YEL FLUOR, NO CUT

4401-4411 LMS-TN WI ABDT DK TN TO LT BRN STN; CRYPTO TO VVWFN
XLN; TRS SUB-CHLKY, SUB SUCRO TO SUCRO, TRS PACKSTN, PHNTM
OOLICAST IP; DLL GOLDEN TO GOLDEN YEL FLO, FLSH TO GOOD
STRMING CUTS, ABDT PR, FR, GO & TRS EXCELLENT, PP MICRO PP, PROB
INTER-XLN POR, GOOD TO STRNG OIL ODOR

4411-4435- LMS SIMILAR TO 4389-4401

4437-4447- LMS-HVY TRS WHT TO CRM-CHLK & CRM TO LT TN, HVY TRS
ABDT DARKER TN STN, SPTD TO EVEN OIL STN, GOOD TO STRNG OIL
ODOR; VI TO EXTREMELY OOLITIC & OR SLI TO VI OOLICASTIC, TRS FOSS
IP; MTRX CRYPTO TO VVWFN-XLN, TRS WHT MED TO CRS CALC XLS &
FRAGS; MTRX SUB CHLKY, SUB SUCRO TO SUCRO TRS PCKSTN, DLL GLD
TO BRIT GLD FLUOR, WI FLSH TO GOOD STRM CUT IP, ABDT PR, FR & TRS
GOOD TO SLI TR EXCEL OOLICASTIC, PP & MICRO PP POR, HVY TRS
INTER-XLN POR IP, QUEST PERM IP

4445-4466 LMS-INTERBEDDED LMSTS-1. LMS TAN, GRAYISH IP'S;
CRYPTO-VI-XLN; SUB CHLKY, SUB SUCRO, PACKSTN & TRS
SUB-LITHOGR, DULL YEL TO TRS YEL FLUOR, NO CUT, NO VIS POR

2. LMS- LT TO MED GRY-SLI TO FRLY SHLY, TANISH IP'S, CRYPTO TO
VVWFN-XLN; SUB CHLKY; TR SUB SUCRO & PACKSTONE, TRS SUB
LITHOGR; TRS WIDULL YEL FLUOR, NO CUT, NO VIS POR

4466-4476 LMS SIMILAR TO DESCRIPT #2 @ 4445-4466

4476-4490 LMS SIMILAR TO DESCRIPT #1 @ 4445-4466

4478-4480 LMS- VI ABDT WHT TO CRM-CHLK & LT TAN TO TAN; CRYPTO TO
VVWFN-XLN, ABDT SUB CHLK & SUB SUCRO TO TRS SUCRO; DLL LT YEL
TO LT YEL FLUOR; NO CUT, HVY TR PR TO TRS FR PP TO MICRO PP POR,
NO SHOW

4490-4509 INTERBEDDED LMST SIMILAR TO 4445-4466

BKC 4509-(1587)

4508-4532- LMS- LT TO MED, DK TO VI DK GRAY- SLI TO EXTREMELY SHLY,
GRDNG TO SH, MED TO VI DK GRAY- TO BLACK; CRYPTO TO TRS VVWFN-
XLN; SUB CHLKY & OR CHLKY, TRS SUB SUCRO & PCKSTN, NO FLUOR, NO
CUT, NO VIS POR

MARM. 4532'-(1610)

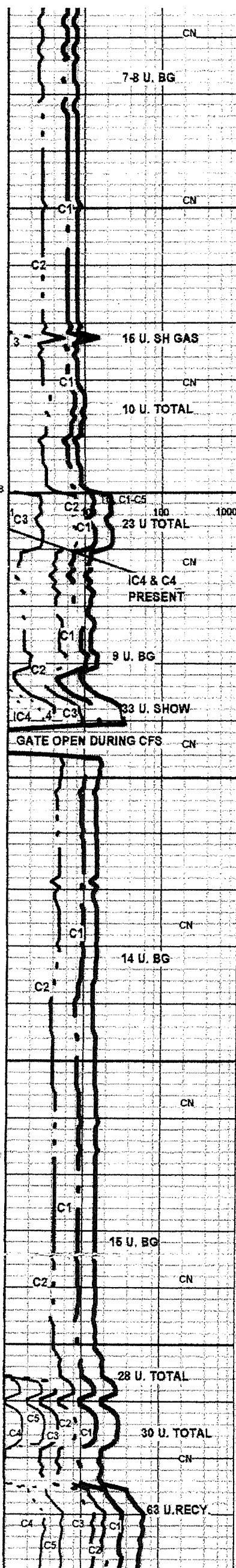
4532-4546- LMS- TN, GRYSH IP'S; CRYPTO-XLN, TRS SUB CHLKY, PCKSTN
& SUB LITHOGR; DLL LT YEL FLUOR, NO CUT, NO VIS POR, WI TRS CRT
GRAY TO TAN, TRANSLCNT TO DPQUE

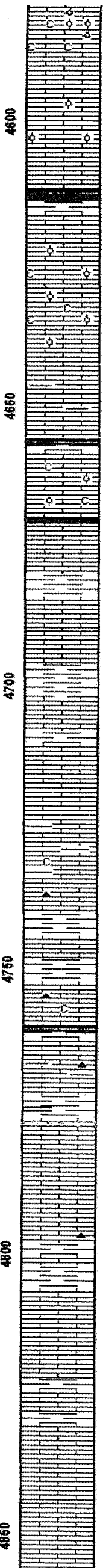
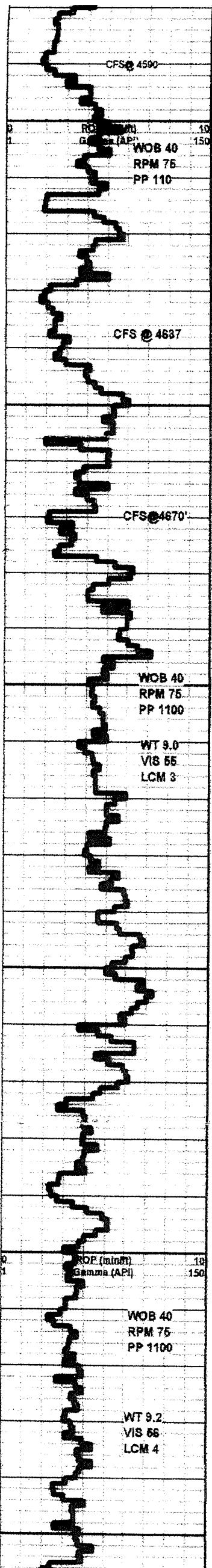
4546-4550- LMS- EXTR ABDT WHT TO CRM-CHLK & CRM TO TAN; CRYPTO
TO TRS VVWFN-XLN; VI TO HIGHLY OOLITIC & OR SLI TO FRLY OOLICASTIC
MATRIX, TRS SUB CHLKY & PCKSTN; LEMON YEL FLUOR, NO CUT, HVY
TRS TO ABDT PR, TR GD OOLICASTIC TO PP POR

4550-4557- LMS SIMILAR 4532-4546, NO CHERT

4557-4567 LMS-TRS WHT TO CRM, CHLK & LT TN TO TAN, GRYSH IP'S WI
ABDT DRKR TAN SPTD OIL STAIN, FR TO GOOD OIL ODOR; SUB
CHLKY, SUB SUCRO TO TR VI SUCRO & PCKSTN; VI TO EXTREMELY OOLITIC
IP'S & OR SLI TO FRLY OOLICASTIC IP'S, TRS FOSS FRGS, DLL GLDN
TO GLDN YEL & BRIT YEL FLUOR, ABDT FLUSH TO GD STRMING CUTS, HVY
TRS PR FR TR GD OOLICASTIC POR, ABDT PR TO FR & TR GOOD MICRO PP
TO INTER-XLN POR IP'S, ABDT WI QUEST PERM

4567-4581- LMS-GRAYISH TAN TO TAN, CRYPTO TO VVWFN-XLN; SUB
CHLKY, SUB SUCRO, PACKSTN & TRS SUB LITHOGR, PHNTM OOL
TO OOLITIC; DLL LT YEL FLUOR, NO CUT, NO VIS POR





4567-4581- LMS-GRAYISH TAN TO TAN, CRYPTO TO VV/FN-XLN; SUB CHLKY, SUB SUCRO, PACKSTN & TRS SUB LITHOGR, PHNTM OOL TO OOLITIC; DLL LT YEL FLUOR, NO CUT, NO VIS POR

4581-4590- LMS-VIEXTREMY ABDT WHT TO CRM CHLK & TRS TAN CRYPTO TO VV/FN-XLN; SLI TO VI OOLCASTIC & OR SLI TO VI OOLITIC, TRS FOSS FRGS; TRS SUB SUCRO & PCKSTN, VIDLL TO DLL YEL FLUOR, NO CUT; ABDT PR TO FR TRS GD OOLCASTIC POR, PROB NO PERM

4594-4613 LMS SIMILAR TO 4567-4581

4613-4616 SH- VI DK GY TO BLK SFT CARB

4616-4629 LMS - TANISH LT GRY TO TAN; CRYPTO TO VV/FN-XLN; TRS SUB CHLKY, SUB SUCRO, PCKSTN & TRS SUB LITHOGR; TRS PHNTM OOLITIC, VI DLL YEL FLUOR, NO CUT, NO VIS POR

4629-4637 LMS - HVY TRS TO ABDNT WHT TO CRM-CHLK & TAN, CRYPTO TO VV/FN; SUB CHLKY, SUB SUCRO TO SUCRO, W/PHNTM OOLITIC TO OOLITIC IP'S; DLL YEL FLUOR; NO CUT, ABDT PR TO FR & TRS GD MICRO PP POR & POSS INTER-XLN POR IP'S

4643-4648 LMS SIMILAR TO 4616-4629

4648-4656 LMS-LS LT GY TO TAN; CRYPTO TO VV/FN-XLN, TRS SUB CHLKY, TRS SUB SUCRO, PCKSTN & TRS SUB LITHOGR; SLI SHLY IP'S, DLL YEL FLUOR IP'S, NO CUT, NO VIS POR

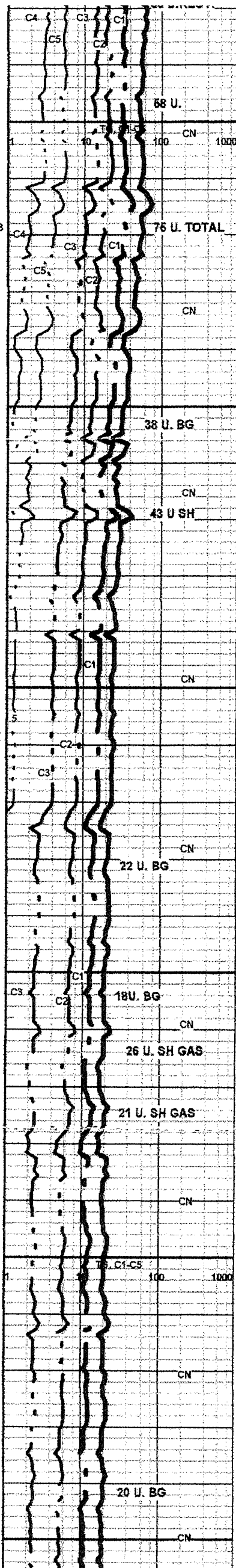
4656-4658 SH- VI DK GY TO BLK SFT CARB

4661-4667 LMS- HVY TRS TO ABDT WHT TO CRM & GRAYISH TAN TO TAN; CRYPTO TO VV/FN-XLN; SLI TO VI OOLITIC IP'S MATRIX & OR ROCK SUBCHLKY, SUB SUCRO TO SUCRO & PCKSTN; VIDLL TO DLL YEL FLUOR, NO CUT; TRS PR MICRO PP POR, NO SHOW

CHEROKEE 4671 (-1749)

4677-4863 INTERBEDDED LMS & SHALES

1. LMS- GRAYISH TAN TO TAN; CRYPTO TO VV/FN-XLN; SUB CHLKY, SUB SUCRO & SUCRO & PACKSTONE W/ TRS SUB-LITHOGR; DLL YEL TO TRS DUL YEL FLUOR, NO CUT NO VIS POR
2. LMS- LT TO MED & DK GY- SLI TO EXTREMELY SHLY GRDNG TO CALC SH; CRYPTO TO VV/FN-XLN; SUB CHLKY & OR SHLY TRS SUB SUCRO & PACKSTONE; TRS VV/DLL YEL FLUOR, NO CUT, NO VIS POR
3. SH- MED TO VI DK GY- SLI TO EXTREMELY CALC IP'S, GRDNG TO SHLY LMS
4. SH- VI DK GY TO BLK SFT CARB
5. SCATTERED TRS IP'S CHRT, LT TO DK GRY, OPAQUE TO TRANSLUCENT



4863- 4919 INTERBEDDED LMS & SHALES SIMILAR RO 4677-4863 W/ SHALE AMOUNT INCREASING & LIMESTONE AMOUNT DECREASING

MORROW 4919' (- 1997)

4919- 4937 SHALE MED TO DK GY & TR TO HVY TRS GRAYISH GREEN TO OLIVE GREEN, W/ ABDT LMS LT TO MED GRY, SLI TO V/ SHLY & GRAYISH TAN TO TAN & TRS LT BRN CRYPTO-TO V/V/FN-XLN ; SUB CHLKY & OR SHALY, SUB SUCRO & PCKSTONETR TO HVY TRS FRGMNT GRS FN TO MD W/ SCATTERED TO HVY TRS GLAUC OR CHLORITE, CRYPTO TO V/V/ FN -XLN , LM GRNS & FOSS FRGS; DLL YEL FLUOR, NO CUT , NO VIS POR

4937 - 4958- SHALES W/ LMS SIMILAR 4919-4937 W/ TRS YEL FLUOR; W/ GD STRMNG CUTS & NO VIS POR

4958-4976' SH- LT TO MD GY & TRS DK GY W/ TRS & HVY TRS GY GREEN & OLIVE GREEN W/ HVY TRS SILTY GRDNG TO SILTST- LT TO MD GY SH FILLED IP'S, CALC IP'S SCAT GLAUC OR CHLORITE, TRS DK TN TO BRN OIL STN IP'S, W/ DLL YEL TO DLL GREENISH YEL FLUOR, W/ FLSH TO GD STRMNG CUTS, NO VIS POR HVY TRS W/SHOW SIMILAR TO 4919-4937 W/ TRS YEL FLUOR, FAINT TO GD STRMNG CUTS; NO VIS POR

4976- 6002' QUTZ SDST TAN TO BRN FROM OIL STN, GRYISH IP'S; V/V/FN TO TRS V/FN GRN; ANG; PR TO GD SORT, SH FILLED IP'S; SLI TO FRLY GLAUC & OR CHLORITE, TRS HVY TRS W/ FINELY DISSEMINATED PYR, BRASSY YEL TO GLDN YEL FLUOR WHEN DRY, FLUSH TO EXCEL STRMING CUTS, ABDT PR , HVY TR FR TO TR GD INTER-GRN POR; W/ PROB INTERBEDS SH MED TO DRK GY

6002-6013- SH - MED TO DRK GY & TRS LT GREEN TO OLIVE GREEN, TRS TO ABDT PYR

6013-6021 QURTZ SNDST- W/ PROB INTERBEDS SH SIMILAR TO 4976 - 6002'

6021' -6044' SH- MED GRY SFT & MUSHY & DK GRY , SPLNTY IP'S, TRS GREEN TO OILIVE GREEN, TRS TO ABDT PYR

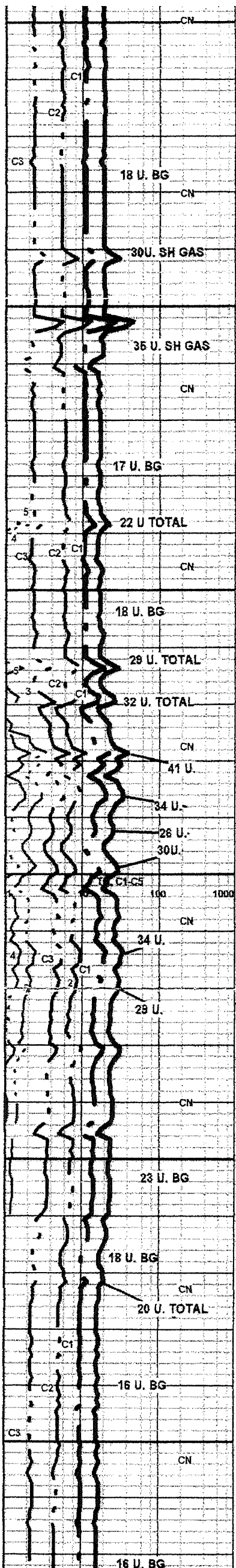
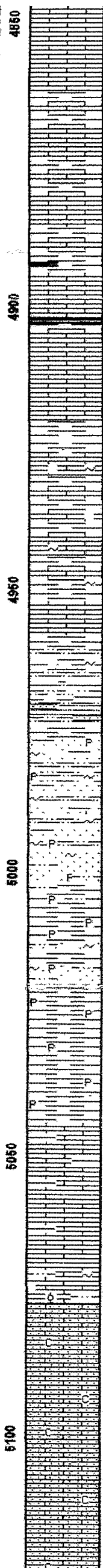
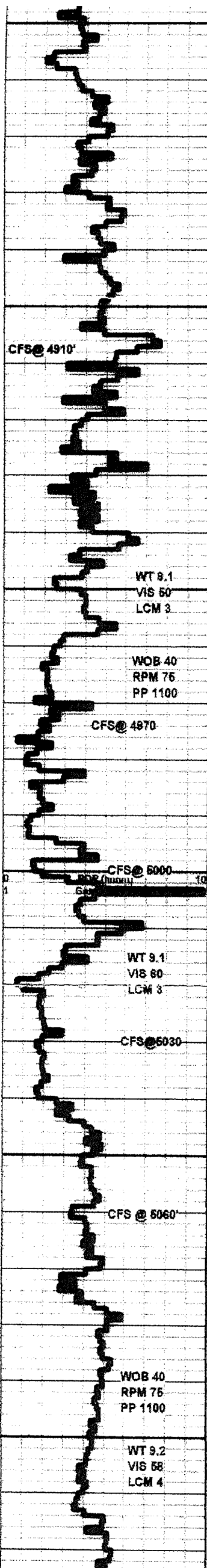
CHESTER 5044' (-2122)

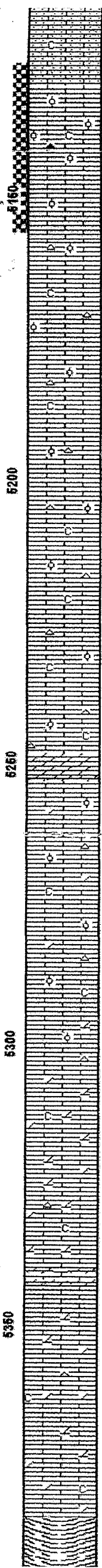
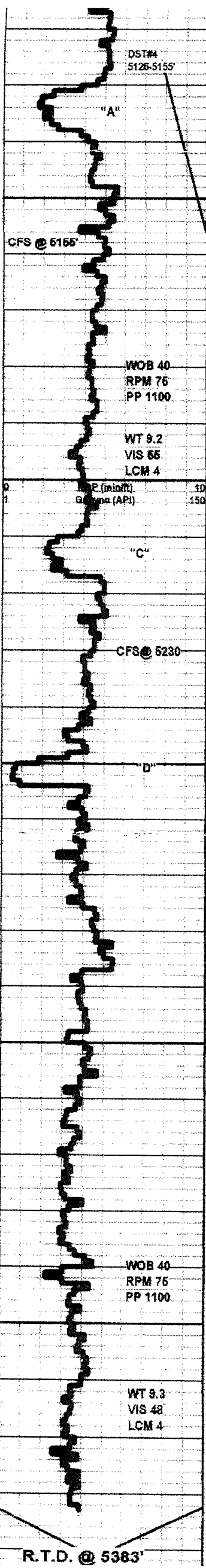
5044-5077' LMS- MED GY; CRYPTO-XLN, FRLY SHLY, SUB CHLKY OR SHLY & PCKSTN, NO FLUOR, NO VIS POR, NO CUT

5070-5077 FRGMNTD LMS LT TO MED GY W/ SPTTD TO EVEN TAN TO BRN OIL STN; V/FN TO MED GRNS (GRNS CRYPTO-V/V/FN-XLN) COMPOSED LM GRNS, FOSS FRGS & TRS OOLITES; MATRIX SUB SUCRO TO PCKSTN; SLI TO V/ SLTY IP'S W/ TRS SLTST, LT GY TO GRNSH LT GY; W/ TN TO BRN SPTTD OIL STN IP'S, CLAY, GLAUC & OR CHLORITE FILLED; YEL TO BRIT YEL FLUOR IN STAIN; FLUSH TO EXCEL STRMNG CUT, NO VIS POR

ST. GEN 5077' (-2155')

5077- 5130' LMS - LT TAN TO TAN, GRYISH IP'S; CRYPTO-V/V/FN-XLN, V/ TO EXTREMELY MICRO OOLITIC, W/ HVY TRS QURTZ GRNS, V/V/FN GRN, ANG, MATRIX TRS SUB CHLKY, SUB SUCRO & PCKSTN; V/ DLL TO DLL YEL FLUOR, NO CUT; NO VIS POR





ST. LOUIS 5130' (-2208')

5130-5139 LMS HVY TRS WHT TO CRM CHLK -TRS W/CHLK OOLITES & LT TAN;CRYPTO-VV/IFN XLN:ABDT SM MD TO TRS LRG OOLITES; MTRX CHLK,SUB CHLK,SUB SUCRO TO SUCRO & TRS PCKSTN; W/ TRS SPTTD BRN OIL STN; STN W/ DLL YEL GLDN FLUOR, FLUSH TO GD STRMING CUTS TO GD RING CUTS; TRS PR TO FR & SLI GD MICRO PP TO INTER-XLN POR; SOME LOOSE OOLITES,SLI TR CHRT ORNGE TRANSLUCENT

5139-5210 LMS- HVY TRS TO ABDT WHT TO CRM CHLK, TRS W/ CHLK OOLITES & TAN; CRYPTO TO VV/IFN-XLN; V/ TR EXTREMELY OOLITIC(SM ,MD & TRS LRG); MTRX TRS SUB CHLKY, SUB SUCRO & PCKSTN; DLL YEL FLUOR; NO CUT; NO VIS POR, TRS CHERT,ORANGE & TRANSLCNT

ST. LOUIS "C" 5210'(-2288)

5210-5217- LMS- HVY TRS TO ABDT WHT TO CRM CHLK, TRS W/ CHLKY OOLITES & TAN, CRYPTO-VV/IFN-XLN; V/ TO EXTREMELY OOLITIC(MED TO LRG & TRS SMLL); MATRIX TRS SUB CHLKY,SUB SUB SUCRO & PACKSTN, DLL LT YEL FLUOR; NO CUT; TRS PR MICRO PP POR IP'S, SLI TRS CHERT GRY TO TAN; OPQUE TO TRANSLUCENT

5217-5249' LMS- SIMILAR 5139-5210, W/ TRS CHERT, OFF WHT TO LT GY TO TAN, OPQUE TO TRANSLUCENT

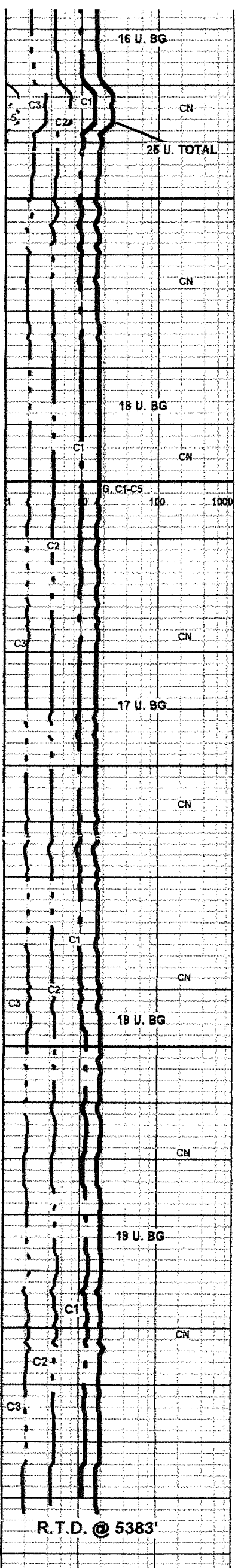
ST. LOUIS "D" 5249'(-2327')

5249- 5249' DOLO-LT GY; VV/IFN-XLN ; DLL YEL TO TRS GLDN YEL FLUOR, NO CUT

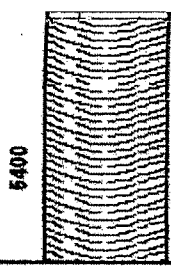
5254-5309' LMS- TRS WHT TO CRM-CHLK & TAN; CRYPTO TO VV/IFN- XLN; TRS SUB CHLK, SUB SUCRO, PACKSTN & SUB LITHOGR; TRS TO ABDT W/ OOLITES(SM , MD TO TR LRG); TRS TO HVY TRS SLI TO FRLY DOLOMITIC, DLL YEL FLUOR; NO CUT; NO VIS POR; W/ TRS CHRT , OFF WHT, LT GY TO TAN; TRANSLUCENT TO OPQUE

5309- 5383' LMS- SLI TO FRLY DOLOMITIC; TRS WHT TO CRM CHLK & TAN TO GRAYISH TAN; CRYPTO-VV/IFN-XLN; SUB SUCRO, PACKSTONE & SUB LITHOGR. TRS V/ DLL YEL TO SLI TRS YEL FLUOR; NO CUT ,NO VIS POR, W/ TRS CHRT, WHT, LT GY TO TAN; TRANSLUCENT TO OPQUE

R.T.D. @ 12:55 PM - OCT. 23, 2015
CFS 80 MIN.



R.T.D. @ 5383'	
ROP (min/hr)	10
Gamma (API)	150



R.T.D. @ 12:55 PM - OCT. 23, 2015
 CFS 80 MIN.
 SHORT TRIP 10 STANDS
 GET MUD IN SHAPE FOR LOGS
 CTCH 2 HRS / TOFL

R.T.D. @ 5383'	
TG, CI, CS	100
	1000

GEOLOGIST'S REPORT

DRILLING TIME A SAMPLE LOG

COMPANY Belexco LLC LEASE Sidney NO. H-17 LOCATION 1050' E5L + 2305' FEL TWP 17 R. 26S R. 33W COUNTY Finney STATE Kansas FIELD Ivanhde	ELEVATIONS KB 2922 DF 2920 GL 2910 MEASUREMENTS ARE ALL FROM KB																																												
CONTRACTOR Belexco Daily Rig #1 COMM 10-9-2015 COMP. 10-24-2015 RTD 5383 LTD 5389	DRILLING TIME KEPT FROM 4200 TO TD SAMPLES EXAMINED FROM 4200 TO TD GEOLOGICAL SUPERVISION FROM 4200 TO TD GEOLOGIST ON WELL Edwin H. Striemes																																												
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REMARKS **Earth-Tech had an unmanned gas detection trailer on this well from 3900 feet to total depth.**

Thank you
 Edwin H. Striemes
 Geologist

LITHOLOGY SANDSTONE LIMESTONE SHALE SLOPE	CHROMATOGRAPH HOT WIRE BY TOTAL GAS VOLUME	C1 = METHANE C2 = ETHANE C3 = PROPANE C4 = ISOBUTANE C5 = BUTANE C6 = ISOPENTANE C7 = PENTANE
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DRILL TIME SCALE	SAMPLE DESCRIPTION	GAS SCALE												
<p>7 1/2 inch Bit Info: #1 PDC 1335 to 3287 #2 New GT GT2516 In 3287 out 5383TD</p> <p>Cia Points:</p> <table border="1"> <tr><td>1.</td><td>4400</td><td>10.</td><td>4910</td></tr> <tr><td>2.</td><td>4420</td><td>11.</td><td>4970</td></tr> <tr><td>3.</td><td>4447</td><td>12.</td><td>5000</td></tr> </table>			1.	4400	10.	4910	2.	4420	11.	4970	3.	4447	12.	5000
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2.	4420	11.	4970											
3.	4447	12.	5000											

CIR POINTS:

- 1. 4400
- 2. 4420
- 3. 4447
- 4. 4492
- 5. 4552
- 6. 4575
- 7. 4590
- 8. 4637
- 9. 4670
- 10. 4910
- 11. 4970
- 12. 5000
- 13. 5030
- 14. 5060
- 15. 5155
- 16. 5230
- 17. 5383TD

DST#1 Marmaton "D" 4551-4575

2310' GTP
 2ft Clean Oil Grav. 30.60°
 14860CM 8% gas 30% oil; 61% Mud
 Total fluid 150 ft

Tool Sample 100% oil 1120°F
 IHP 2202# Max Temp
 IFP 74-40# in 30 min
 ISIP 1092# in 60 min
 FFP 44-73# in 60 min
 FSIP 1031# in 120 min
 FHP 2178

DST#1 L.KG "A" 4400-4420

ID VSS blow 3/8" Die 17 min
 FO No Blow

Rec 5' 1905WCM 42% water 58% mud
 w/ spots of oil, 5% oil chkr
 chl 7000ppm Pchl chl 2500ppm
 Rwi: 1.0 @ 48° pH: 8.0

Tool Sample 20% water, 80% mud
 IHP 2010# Max Temp 118°F
 IFP 13-19# in 30 min
 ISIP 1259# in 60 min
 FF 20-23# in 30 min

FSIP 1220# in 60 min
 FHP 2002

DST#2 KC "B" 4434-4447

ID STRG blow BOB 5 min
 FO STRG blow BOB 10 min
 1029 GIP

90ft Clean Gassy Oil 100%
 869ft 96% water, 4% Mud Thin Screen
 oil

Total Fluid 959' Grav: 137.9 @ 60°

chl. 55000ppm Pchl 4000ppm
 Rwi: 2.0 @ 56° pH: 7.0

Tool Sample 2% oil 97% water, 1% oil
 + some Gas Bubbles

IHP 2129# Max Temp 123°F
 IFP 60-29# in 30 min
 ISIP 1186# in 60 min
 FFP 306-46# in 60 min
 FSIP 1168# in 120 min
 FHP 2085

DST#3 Out of Order Above

DST#4 St Louis 5126-5155

ID 2 1/2" Right Away Built to 3" Blow
 FO No Blow Max Temp 130°F

Rec: 182' 2% gas; 98% Mud w/ thick
 screen of oil

chl 18000ppm; Pchl 1900ppm
 Rwi: .57 @ 65° pH: 7.2

Tool Sample 12% gas 32% water
 56% Mud w/ few specks oil

IHP 2412#
 IFP 87-100# in 30 min
 ISIP 1411# in 60 min
 FFP 106-119# in 30 min
 FSIP 1201# in 60 min

DST#4 St Louis 5126-5155
 ID 2 1/2" Right Away Built to 3" Blow
 FO No Blow Max Temp 130°F
 Rec: 182' 2" gas; 98% Mud w/ track
 Sum of oil
 Chl 18000 ppm; Pchl 1900 ppm
 Rv: .57 @ 65° pH. 7.2
 Tml Sample 12% gas 32% wt
 56% Mud w/ few specks oil
 IHP 2412#
 IFP 87-100# in 30 min
 ISIP 1411# in 60 min
 FIP 106-119# in 30 min
 PSIP 1381# in 60 min
 FHP 2352#

- Daily Data Progress:
1. 4200 AT 8:18 AM 10-15-15
 2. 4375 AT 7:00 AM 10-16-15
 3. 4435 AT 7:00 AM 10-17-15
 4. 4492 AT 7:00 AM 10-18-15
 5. 4575 AT 7:00 AM 10-19-15
 6. 4712 AT 7:00 AM 10-20-15
 7. 5030 AT 7:00 AM 10-21-15
 8. 5155 AT 7:00 AM 10-22-15
 9. 5300 AT 7:00 AM 10-23-15
 10. 5383 AT 7:00 AM 10-24-15

Mud Info:

Date	10-25	10-26	10-27	10-28	10-29	10-30	10-31	11-1
Depth	1166	1100	1147	1192	1175	1185	5011	5154
WT	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
Vis	49	53	50	56	50	56	56	49
PV	14	16	16	17	16	20	18	14
YP	16	19	18	21	18	20	21	15
ES	1/32	1/32	?	1/32	1/32	1/32	1/32	1/32
NL	10.4	8.0	8.0	7.2	8.8	6.8	8.4	9.2
cake	1/32	1/32	1/32	1/32	1/32	1/32	1/32	1/32
pH	10.0	9.5	9.5	9.5	9.5	10.0	9.5	9.5
CL	3100	2500	4000	3500	3700	2800	1900	2900
C2	20	40	40	40	40	40	20	20
LCM	7.0	7.0	7.0	5.0	5.0	4.0	4.0	2.0

OPERATOR Barocco LLC LOCATION 1050' ESL + 1305' FEL
 LEASE Sidney NO 1-17 SEC. 17 TWP. 26S RND 33W
 ELEVATION 2897 KB RTD 5383 COUNTY Finney STATE Kansas