KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
October 2008
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 32211
Name: O'BRIEN ENERGY RESOURCES CORP.
Address 1: 18 CONGRESS STREET, STE. 207
Address 2:
City: PORTSMOUTH State: NH Zip: 03801 + ____
Contact Person: JOSEPH FORMA
Phone: (603) 427-2099
CONTRACTOR: License # 5929
Name: DUKE DRILLING CO., INC.
Wellsite Geologist: PETER DEBENHAM
Purchaser:

Designate Type of Completion:
____ New Well ✓ Re-Entry ____ Workover
____ Oil ____ SWD ____ SIOW
____ Gas ____ ENHR ____ SIGW
____ CM (Coal Bed Methane) ____ Temp. Abd.
✓ Dry ____ Other DRY & ABANDONED
(Core, WSW, Expl., Cathodic, etc.)

If Workover/Re-entry: Old Well Info as follows:
Operator: EAGLE CREEK CORPORATION
Well Name: CONNOR #1-18
Original Comp. Date: 9/14/2002 Original Total Depth: 4707'
✓ Deepening ____ Re-perf. ____ Conv. to Enhr. ____ Conv. to SWD
____ Plug Back: ____ Plug Back Total Depth
____ Commingled Docket No.:
____ Dual Completion Docket No.:
____ Other (SWD or Enhr.?) Docket No.:

8/2/2010	8/7/2010	PLUGGED 8/8/2010
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 119-21093-00-01
Spot Description:
N2 - SW - NW - SE Sec. 18 Twp. 33 S. R. 29 ☐ East ☑ West
430' Feet from ☐ North / ☑ South Line of Section
2310' Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
County: MEADE
Lease Name: CONNOR "OWWO" Well #: 1-18
Field Name: UNNAMED
Producing Formation:
Elevation: Ground: 2697' Kelly Bushing: 2709'
Total Depth: 6356' Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: EXISTING 1562' Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 4,400 ppm Fluid volume: 4 bbls
Dewatering method used: HAUL FREE WATER. NATURAL EVAP. W/36 INCH MINIMUM

Location of fluid disposal if hauled offsite:
Operator Name: DILLCO FLUID SERVICE, INC.
Lease Name: I B REGIER License No.: 6652
Quarter SWNE Sec. 17 Twp. 33 S. R. 27 ☐ East ☑ West
County: MEADE Docket No.: D21232

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature:
Title: VICE PRESIDENT Date: 8/23/2010
Subscribed and sworn to before me this 23rd day of August,
2010.
Notary Public:
Date Commission Expires:

MARK EDDINGER
Notary Public - New Hampshire
My Commission Expires June 17, 2014

KCC Office Use ONLY
N Letter of Confidentiality Received
If Denied, Yes ☐ Date:
✓ Wireline Log Received
✓ Geologist Report Received
UIC Distribution
WO - Dg - 9/2/10

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Side Two

Operator Name: O'BRIEN ENERGY RESOURCES CORP. Lease Name: CONNOR "OWWO" Well #: 1-18

Sec. 18 Twp. 33 S. R. 29 ☐ East ☑ West County: MEADE

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional Sheets) ☐ Yes ☑ No

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run (Submit Copy) ☑ Yes ☐ No

List All E. Logs Run:

ARRAY INDUCTION, COMPENSATED NEUTRON LITHO. DENSITY

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
HEEBNER	4444'	-1735'
LANSING	4590'	-1881'
MARMATON	5258'	-2549'
CHEROKEE	5428'	-2719'
MORROW	5730'	-3021'
MISSISSIPPI CHESTER	5842'	-3133'
SPERGEN	6330'	-3621'

CASING RECORD ☐ New ☑ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
CONDUCTOR	24"	20"		EXISTING 40'	READY MIX	6 YARDS	N/A
SURFACE	12 1/4"	8 5/8"	24#	EXISTING 1562'	MIDCON	350	3%CC 1/4# FLOSEAL
					PREMIUM	150	3%CC 1/4#FLOSEAL

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: ___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or Enhr. Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled ☐ Other (Specify)

PRODUCTION INTERVAL:

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Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

BASIC energy services, L.P.

TREATMENT REPORT

Customer: OBRIEN ENERGY	Lease No.:	Date: 8-8-10	
Lease: CONNOR	Well #: 1-18		
Field Order #: 17 1003 A	Station: Liberal, KS 1717	Casing: 8 5/8	Depth: 1500
County: Meade	State: KS		
Type Job: Plug to Abandon OW	Formation:	Legal Description: 18-33-29	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid 8/13/2010	RATE	PRESS	ISIP
Depth	Depth	From	To	Pre Pad	Max 6	50	5 Min.
Volume	Volume	From	To	Pad	Min 3	0	10 Min.
Max Press	Max Press	From	To	Frac	Avg 4	50	15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative: Roger Pearson | Station Manager: Jerry Bennett | Treater: Carlos Lopez

Service Units	27462	19828	19883	19902								
Driver Names	R. COX	Ruben	Chavez	C. Lopez								

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
5:30AM					ARRIVE AT LOCATION
5:35					Spot in Trucks
5:40					Safety Huddle
5:50					Rig up Iron & Hoses
8:56	0		10.7	4 bpm	Pump 1ST Plug @ 1590' 50 SKS 60/40 Poz
9:04	50		16	6	Displacement Mud SIR Rig Pump
9:42	50		8.5	4	2ND Plug @ 550' 40 SKS 60/40 Poz
9:44	0		2	4	Displacement H2O
10:16	50		4.3	4	3RD Plug @ 60' 20 SKS 60/40 Poz
11:08	0		6.4	3	Plug Mousehole w/ 30 SKS 60/40 Poz
11:15	0		4.3	3	Plug Rathole w/ 20 SKS 60/40 Poz
11:20					Washup Pumps & Lines to Pit
11:45					Rig Down Equiptment
12:30					Depart Location

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FRANCIS CASING CREWS, INC.

FOSTER POWER TONG SERVICE
P. O. Box 815
GREAT BEND, KANSAS 67530

PHONE (620) 793-9630

No 39184

Date 8-8, 20 10

Company O'Brien Energy — Called By

Address — E. O. or F. O. No. Mendo, KS

Lease Conner — Well No. 1-18

SERVICE REPORT

Tool Rental					Amount:
Rods					Amount:
Tubing					Amount:
Casing	Laid Down 5665 ft D.P. @ 24#				Amount: 1359.60
Power Tongs					Amount:
Tong Operator	Bryan Flapsburgh				Amount:
Helpers	Daniel Beck, Jeff Grant, Mikeal McCabe				Amount:
Transportation Charge	70	Miles @	1.50	Per Mile	Amount: 105.00
Waiting Time		Hours @		Per Hour	Amount:
					TOTAL SERVICE CHARGE 1464.60

Remarks: Truck No. 97 arrived @ 330 AM
330 AM TO 600 AM They Tripped Back in Hole & Prepped For Laydown.
600 AM TO 830 AM Laid Down To 1590' Set First Plug
830 AM TO 945 AM Laid Down To 550' Set Second Plug
945 AM TO 1100 AM Laid All But Two Down To Use For Cement

Date Work Commenced 8-8-10 — Date Work Completed 8-8-10 — By Roger Pearson

GOLDEN BELT PRINTING, INC. 330 AM — 1100 AM

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O'Brien Energy Resources, Inc.

Connor No. 1-18

Section 18, T33S, R29W

Meade County, Kansas

August, 2010

Well Summary

O'Brien Energy Resources, Incorporated reentered and deepened the Connor No. 1-18. This well was originally drilled as a Lansing test by Eagle Creek Corporation in 2002 and plugged and abandoned at a total depth of 4702'. No problems occurred during the reentry or the drilling to a total depth of 6356' in the Spergen Formation.

The closest offset was the Rickers Ranch Extension No. 6-19, approxamitely 3000' to the Southeast. Considerable structure was gained relative to this well. Formation tops from the Marmaton to the Ste. Genevieve ran 40 to 56' high.

Several quality shows were documented during the drilling of this test. The Morrow(5762'-5776') consists of very calcareous Sandstone to a sandy Limestone: Speckled green, white, clear, medium to dark mottled brown, fine to course, poorly sorted, subround grains, very calcareous with abundant fine to very course reworked Limestone inclusions, fossiliferous, glauconitic, pyritic in part, trace intergranular to occasional good isolated vuggy porosity, good light yellow to pale blue hydrocarbon fluorescence, good fast streaming cut, brown matrix oil stain and trace live oil when crushed. A 120 Unit mud gas increase occurred on the hotwire.

A 170 Unit gas kicked occurred at the top of the Chester from 5844' to 5854'. Limestone: Light brown, buff, finely crystalline, subchalky to chalky, brittle, clean, fossiliferous, sandy, slightly glauconitic, trace intercrystalline porosity with chalk infill, trace very pale blue hydrocarbon fluorescence, faint bleeding to weak streaming cut.

A lower Chester Sandstone(6050'-6064') consists of a Sandstone in 6% of the samples: Medium brown, friable, very fine upper, well sorted, subround grains, very calcareous and grading to a sandy Limestone, clean, trace to occasional fair intergranular porosity, trace isolated vuggy porosity, excellent medium brown matrix oil staining, live oil when crushed, dull browngold hydrocarbon fluorescence(all Sandstone), excellent streaming cut, slight oil odor. A 200 Unit gas increase occurred.

Electric log characteristics indicate low porosity/permeability for the above mentioned show intervals. No Rickers Ranch Chester Sandstone was documented and the Connor No. 1-18 was plugged and abandoned 8/8/10.

Respectfully Submitted,

Peter Debenham

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WELL DATA

Operator:	O'Brien Energy Resources, Inc., John Forma – Portsmouth, NH Geologist: Paul Wiemann – Denver, CO
Prospect Geologist:	Ed Schuett, Denver, Dave Ward, Land: Gordon Beamguard
Well:	Connor No. 1-18, Reentry, Well was originally drilled as a Lansing test to a total depth of 4702' by Eagle Creek Corporation in September, 2002.
Location:	430' FSL & 2310' FEL, Section 18, T33S, R29W, Meade County, Kansas – 12 miles Southeast of Plains.
Elevation:	Ground Level 2697', Kelly Bushing 2709'
Contractor:	Duke Drilling Rig No. 6, Type: Double jacknife, triple stand, Toolpusher Rick Schollenbarger, Drillers: Terry Sortor, Danny White, Mike Brewer
Company Man:	Roger Pearson – Liberal, Kansas
Spud Date:	Reentered old hole 8/2/10, Started drilling new hole 8/3.
Total Depth:	8/7/10, Driller 6344', Logger 6356', Spergen Formation
Casing Program:	20" conductor pipe at 40', 37 joints of 8 5/8", J55, 24Lbs/ft, set at 1562' with 500 sacks of ALT 1.
Mud Program:	Winter Mud, engineer Gary Monroe. Displaced for new hole.
Wellsite Consultant:	Peter Debenham with mudlogging trailer, Call depth new hole, Box 350, Drake, CO 80515, 720/220-4860.
Samples:	10' to TD. Zones of interest saved.
Electric Logs:	Weatherford, engineer Steven Tottey, 1) Array Induction, 2) Neuton Density, 3) Microlog
Status:	Plugged and abandoned 8/8/10.

WELL CHRONOLOGY

DATE	6 AM DEPTH	FOOTAGE	RIG ACTIVITY
8/2	598'	598'	Move to and rig up rotary tools. Dig ditches and pump water. Mix spud mud. Drill rathole and mousehole and wash down first plug(30'-124') and second plug(580'-640').
8/3	4805'	103'	Ream and wash down(4401'-4708'). Clean pits and displace hole at 4708'. Drill new hole to 4805'.
8/4	5385'	580'	Run survey(1/2 deg.) and service rig. Drill.
8/5	5770'	385'	Survey(3/4 deg.) and drilling ahead.
8/6	6185'	415'	Drilling.
8/7	6344'TD	155'	To 6344'TD and circulate(pipe tally correction to 6356'). Condition mud and short trip 40 stands and circulate. Drop survey(1 ½ deg.) and trip for logs and run Elogs and wait on orders.
8/8	TD		Wait on orders. Plug and abandon well. Rig down.

BIT RECORD

NO.	MAKE	TYPE	SIZE	OUT	FOOTAGE	HOURS
1	STC	F27YI	7 7/8"	6344'	1566'	86 1/2
				Total Rotating Hours:		86 1/2
				Average:		18.1 Ft/hr

DEVIATION RECORD - degree

5028' ½, 5717 ¾, 6344' 1 1/2

MUD PROPERTIES

DATE	DEPTH	WT	VIS	PV	YP	pH	WL	CL	LCM-LBS/BBL
8/2	85'	9.0	Reentering old hole						
8/3	3600'	9.1	52	15	36	7.8	n/c	68K	2
8/3	4710'	8.4	68	11	11	10.0	11.2	800	2
8/4	5091'	8.8	37	8	7	10.0	10.4	6.2K	--
8/5	5546'	9.0	40	12	8	11.5	10.4	4.2K	3
8/6	5985'	9.0	43	13	6	11.5	8.8	4.1K	4
8/7	6323'	9.2	47	14	6	11.0	8.4	4.4K	4

ELECTRIC LOG FORMATION TOPS- KB Elev. 2709'

FORMATION	DEPTH	DATUM	*Rickers Ranch Extension 6-19 DATUM	POSITION
Heebner	4444'	-1735'	-1763'	+17'
Toronto	4464'	-1755'	+1786'	+31'
Lansing	4590'	-1881'	-1905'	+24'
Marmaton	5258'	-2549'	-2592'	+43'
Cherokee	5428'	-2719'	-2761'	+42'
Atoka	5684'	-2975'	-3025'	+50'
Morrow	5730'	-3021'	-3069'	+48'
Mississippi Chester	5842'	-3133'	-3189'	+56'
Lower Chester SS	NA	NA	-3278'	NA
Ste. Genevieve	6100'	-3391'	-3433'	+42'
St. Louis	6144'	-3435'	NA	NA
Spergen	6330'	-3621'	NA	NA
TD	6356'	-3647'		

*O'Brien Energy Resources, Rickers Ranch Extension No. 6-19, approxamitely 3000' to the SE, K.B. Elevation 2685'.

LITHOLOGY DESCRIPTION

SAMPLES ARE LAGGED
CORRECTED E-LOG FORMATION TOPS
*INDICATES HYDROCARBON SHOW
Note: All depths 12' high due to pipe tally error.

Atoka 5684'
5690-5732 LIMESTONE: Dk gray brown black micr crpxln hard dense silica argillaceous to marly fossils carbonaceous tight no show interbed with SHALE: Blk firm fissile carbonaceous

Morrow 5730'
5732-5758 SHALE: Blk dark gray fissile firm carbonaceous with Dk brown to gray marly LIMESTONE: as above poor vis porosity no fluorescence no stain or cut

5758-5766 *120 Units, SANDSTONE: Spec green white clear medium to dark mottled brown fine/coarse poor sorted sbrnd grains very calcareous with abt fine/vc reworked LIMESTONE incls glauconitic pyrite in part trace intgran to occasional gd vug porosity gd light yellow to pale blue hydrocarbon fluorescence(all SANDSTONE) gd fast strmg cut brown matrix oil stain trace live oil very calcareous and grdng to and interbed very sndy and fossils LIMESTONE: occasional vug porosity hydrocarbon fluorescence and CUT

5766-5778 SHALE: Blk firm fissile waxy carbonaceous

5778-5792 *LIMESTONE: Mot brown salt and pepper speck green micr fine crystalline sbchky brittle in part very sndy and glauconitic with fine/coarse poor sorted grains trace vug and intxln porosity predominant tight abt speck blue hydrocarbon fluorescence(5%) gd strmg cut brown oil stain

5792-5808 SHALE: Blk dark gray firm fissile carbonaceous

5808-5826 LIMESTONE: Dk to medium mottled brown to gray micr crpxln hard dense fossils sndy glauconitic pyrite poor vis porosity no show

5826-5832 SHALE: Blk dark gray firm fissile carbonaceous silica

Mississippi Chester 5842'
5832-5848 Poor Spl Qlty *170 Units, LIMESTONE: Lt brown buff fine crystalline sbchky to chalky brittle clean fossils sndy slightly glauconitic trace intxln porosity chlk infill trace very pale blue hydrocarbon fluorescence faint bldng to weak strmg cut no stain

5848-5880 SHALE: Blk firm fissile carbonaceous waxy interbed with LIMESTONE: Lt brown buff white micxl micsuc in part sbchky brittle clean fossils poor vis porosity no fluorescence no stain or cut

5880-5902 SHALE: Blk firm fissile waxy carbonaceous

5902-5918 LIMESTONE: Mot brown gray crpxln hard dense fossils silica tight no show with SHALE: Dk gray firm fissile waxy

5918-5936 LIMESTONE: Dk mottled brown to gray micr crpxln hard dense argillaceous fossils tight no show

5936-5946 SHALE: Gy gygn dark gray to green occasional redbrn black firm to soft sbfis to blocky waxy to silty

5946-5964 LIMESTONE: Lt to medium mottled brown buff micr crpxln hard dense sbchky in part clean fossils tight no show

5964-5996 SHALE: Dk gray gygn black firm fissile waxy carbonaceous

5996-6002 LIMESTONE: Med to dark mottled brown biomicr crpxln hard dense silica fossils tight no show

6002-6010 SHALE: Dk gray firm fissile waxy trace LIMESTONE: Pred as above poor vis porosity no fluorescence no stain or cut

6010-6026 SHALE: Redbrn to brown gray to gygn maroon viol varic in part firm fissile waxy

6026-6040 LIMESTONE: Brn crpxln hard dense silica tight no fluorescence no stain or cut trace CHRT: Brn gray translucent in part hard crystalline

6040-6050 *200 Units, SANDSTONE(6% sample): Med brown friable vfu well sorted sbrnd grains very calcareous and grdng to sndy LIMESTONE clean trace to occasional fair intgran porosity trace vug porosity exc medium brown oil stain live oil when crushed dull brngold hydrocarbon fluorescence(all SANDSTONE) exc strmg cut slightly odor

6050-6078 SHALE: Varic redbrn to brown gray to gygn occasional green maroon viol varic soft waxy fissile occasional interbed with LIMESTONE: Med brown to gray redbrn micr hard dense argillaceous to marly tight no show

Ste. Genevieve 6100'
6078-6096 LIMESTONE: Lt brown buff micxln micsuc brittle clean sndy poor vis porosity no fluorescence no stain or cut

6096-6150 Tr SHALE: Blk dark gray firm sbfis carbonaceous waxy with LIMESTONE: Lt brown buff medium brown micxln micsuc brittle clean to argillaceous sndy with very fine well sorted sbrnd grains poor vis porosity no fluorescence no stain or cut

St. Louis 6144'
Poor Spl Qlty to abt varic SHALE cavings from above
6150-6170 LIMESTONE: Lt brown buff medium brown micxln micsuc brittle clean to argillaceous sndy with very fine well sorted sbrnd grains poor vis porosity no fluorescence no stain or cut

6170-6200 LIMESTONE: Lt to medium brown buff micxln micsuc brittle clean very sndy fossils oolites occasional intxln/granular porosity no show

6200-6250 LIMESTONE: Lt brown buff biomicr micxln micsuc brittle clean fossils sndy oolites poor vis porosity no show trace CHRT: Wh translucent mlky white to gray hard crystalline

6250-6300 LIMESTONE: Lt brown white buff micxln micsuc brittle clean sbchky in part very sndy chrt nodls clean trace intxln porosity no fluorescence no stain or cut with trace CHRT: as above

Poor Spl Qlty to abt varic SHALE cavings from above

6300-6310 SHALE: Red to orange occasional yellow gray to gygn green varic earthy fissile to splty waxy abt CHRT: Mlky gray to white brown translucent hard crystalline

Spergen 6330'
6310-6344 Abt CHRT: AA Mlky white to gray translucent hard crystalline LIMESTONE: Lt brown to gray buff white fine crystalline sbchky in part dolic in part and micsuc with trace intxln porosity no fluorescence no show trace DOLOMITE: Lt brown buff tan fine crystalline micsuc in part dense to trace intxln porosity no show

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name:	O'Brien Energy, Connor No. 1-18 - Reentry
Location:	430'FSL & 2310'FEL, Section 18, 33S, R29W, Meade Co., KS
Licence Number:	API: 15-119-21093-00-01 — **Region:** Hougoton
Spud Date:	Reentered 8/2/10 — **Drilling Completed:** 8/7/10
Surface Coordinates:	430'FSL & 2310'FEL, Section 18, 33S, R29W, Meade Co., KS
Bottom Hole Coordinates:	430'FSL & 2310'FEL, Section 18, 33S, R29W, Meade Co., KS
Ground Elevation (ft):	2697' — **K.B. Elevation (ft):** 2709'
Logged Interval (ft):	4700' **To:** TD — **Total Depth (ft):** 6344'
Formation:	Lansing, Morrow, Chester, Ste Genevieve, St. Louis
Type of Drilling Fluid:	Chemical Gel/LSND/LCM, mud up on reentry.

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

OPERATOR

Company: O'Brien Energy Resources, Corp.
Address: 18 Congress St., Suite 207
Portsmouth, NH 03801
President/Owner John Forma, Geologist Paul Wiemann

GEOLOGIST

Name: Wellsite: Peter Debenham
Company: Petrolific Consulting Services
Address: P.O. Box 350
Drake, CO 80515
720/220-4860, Petrolific@gmail.com

Comments

Engineer Roger Pearson, Duke Drilling Rig No. 6, T.P. Rick Schollenbarger, Drillers Terry Sorter, Danny White, Mike Brewer, 20" conductor pipe at 40', 37 joints of 8 5/8", J55, 24Lbs/ft, set at 1562' with 500 sacks of ALT 1.. Weatherford engineer Steven Tottey, Winter Mud engineer Adam Norris, Plugged and abandoned 8/8/10.

ROCK TYPES

ACCESSORIES

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

MINERAL
- 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
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

TEXTURE
- BS Boundst
- C Chalky
- CX Cryxln
- E Earthy
- FX Finexln
- GS Grainst
- L Lithogr
- MX Microxln
- MS Mudst
- PS Packst
- WS Wackest

OTHER SYMBOLS

INTERVALS
- Core
- Dst

EVENTS
- Rft
- Sidewall

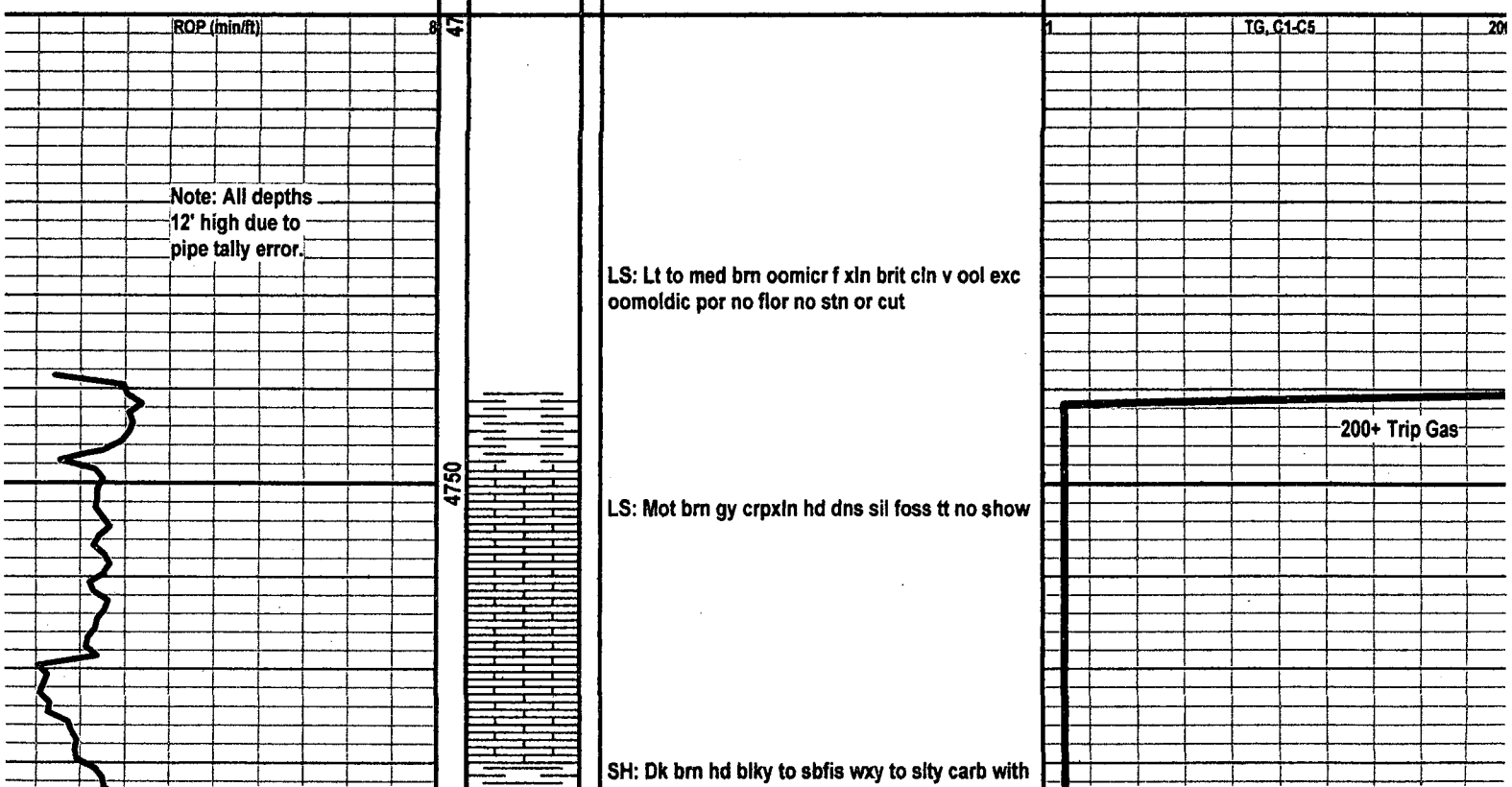
POROSITY TYPE
- E Earthy
- F Fenest
- Fracture
- X Inter
- Moldic
- O Organic
- P Pinpoint
- V Vuggy

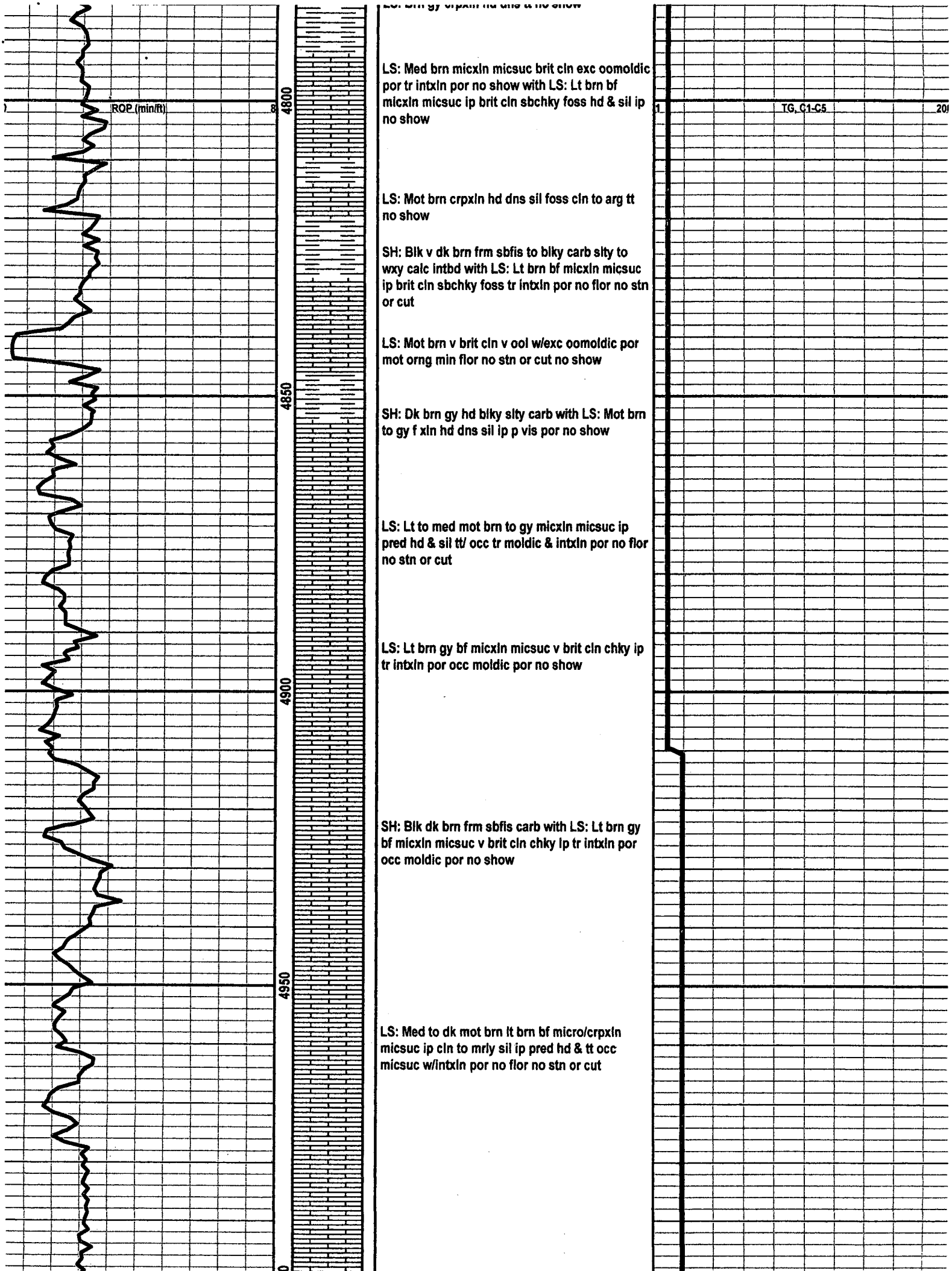
SORTING
- W Well
- M Moderate
- P Poor

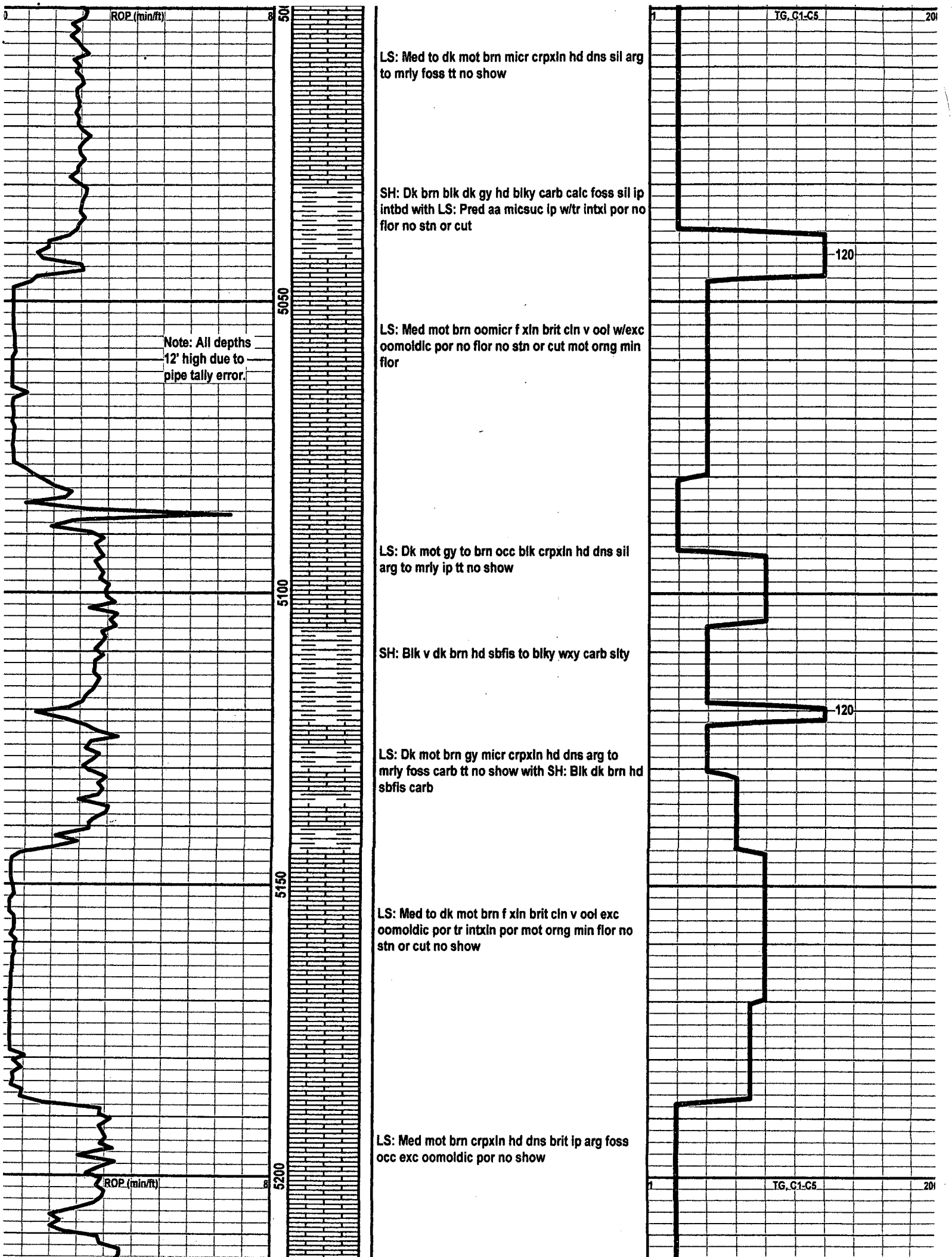
ROUNDING
- R Rounded
- r Subrnd
- a Subang
- A Angular

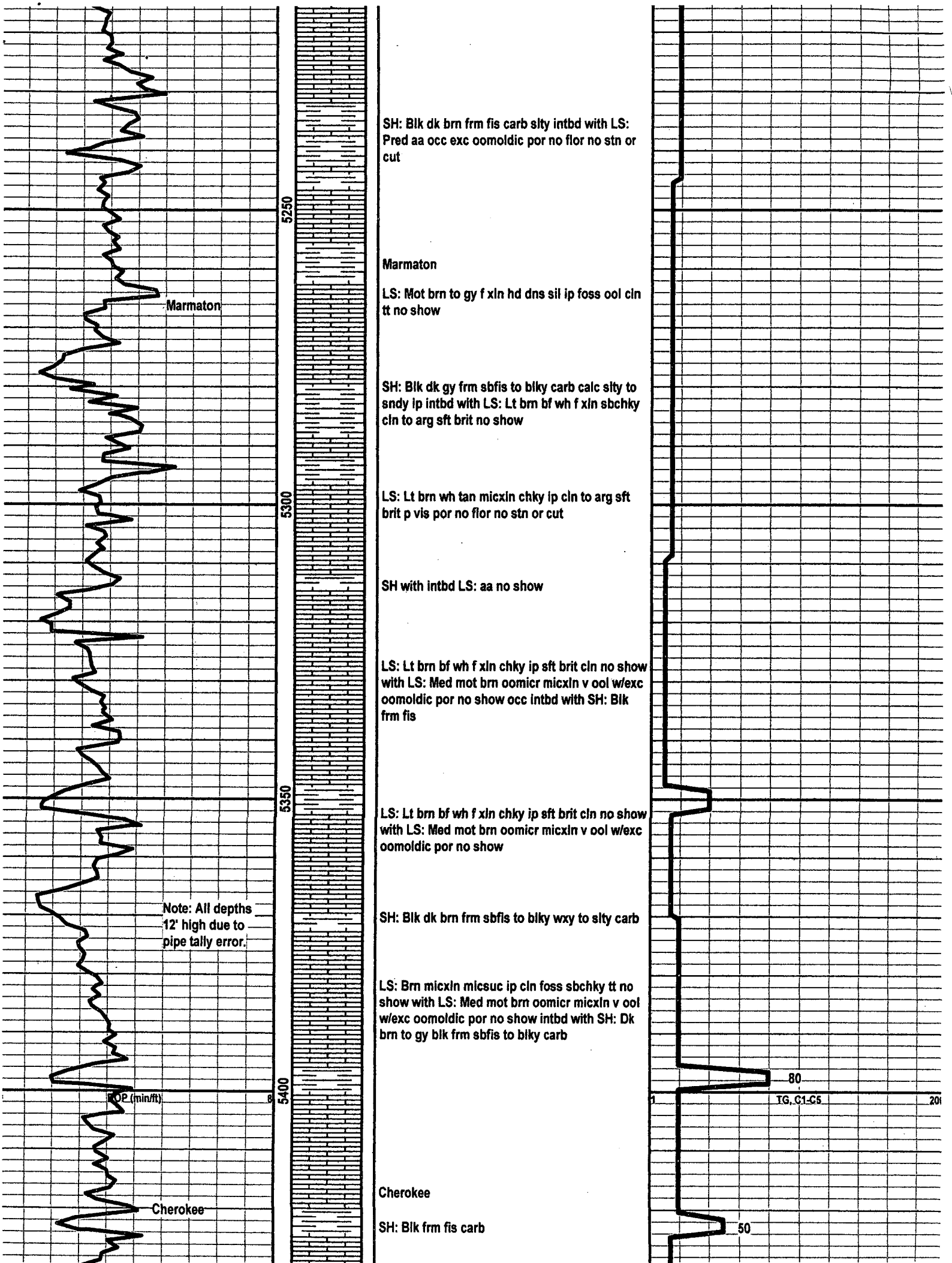
OIL SHOWS
- Even
- Spotted
- O Ques
- D Dead

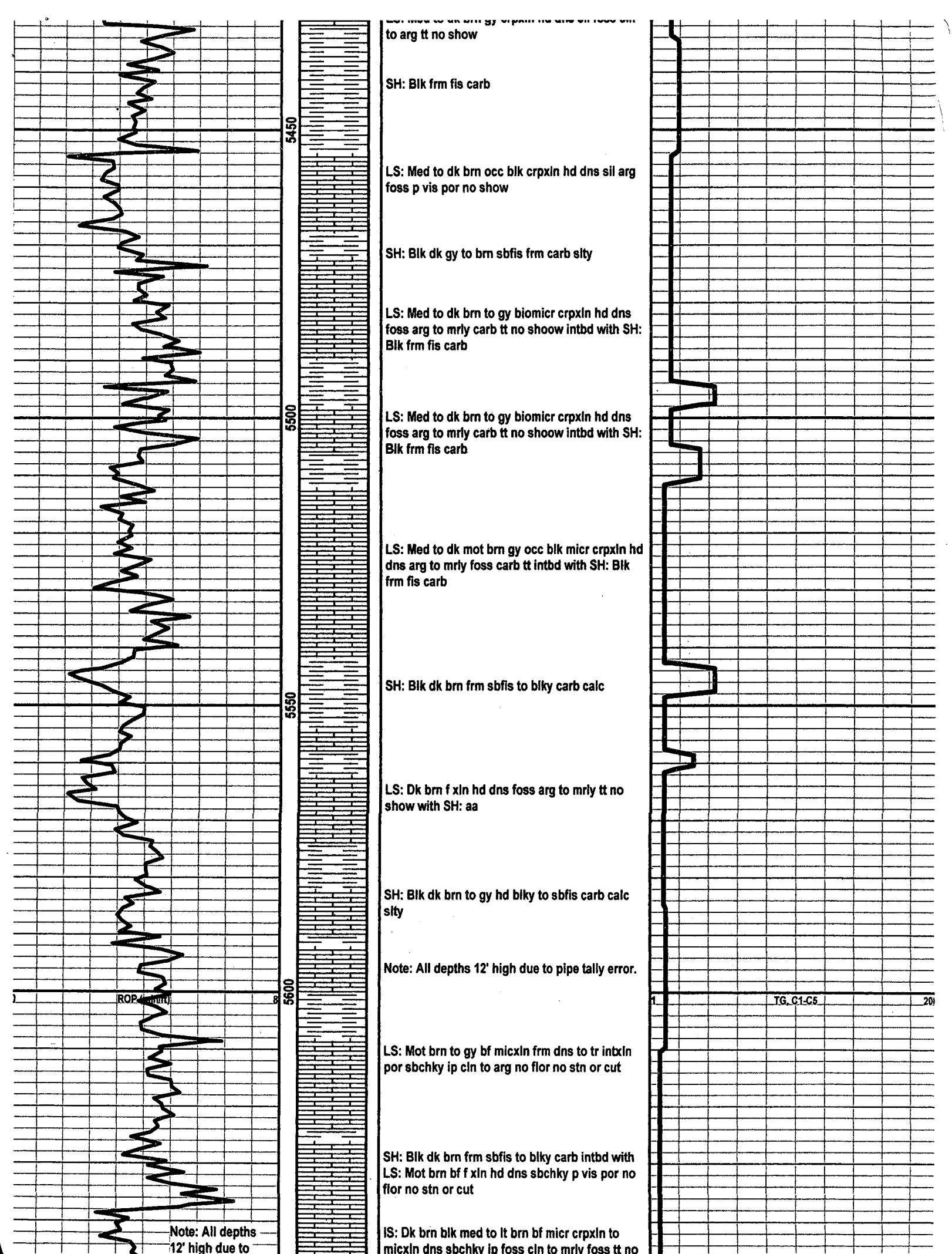
Curve Track 1	Depth	Lithology	Oil Shows	Geological Descriptions	TG, C1-C5
ROP (min/ft)					TG (units)
					C1 (units)
					C2 (units)
					C3 (units)
					C4 (units)
					C5 (units)

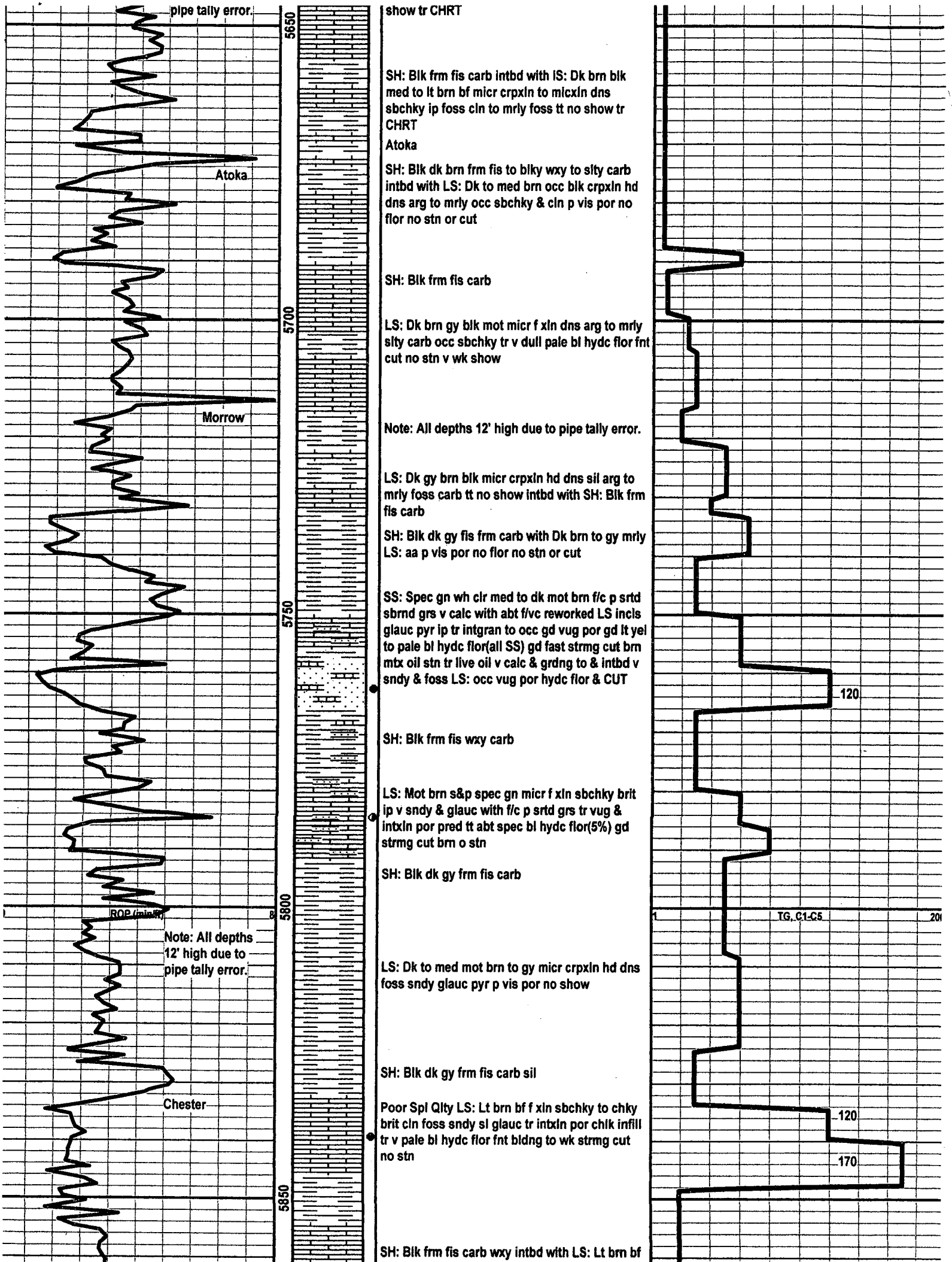


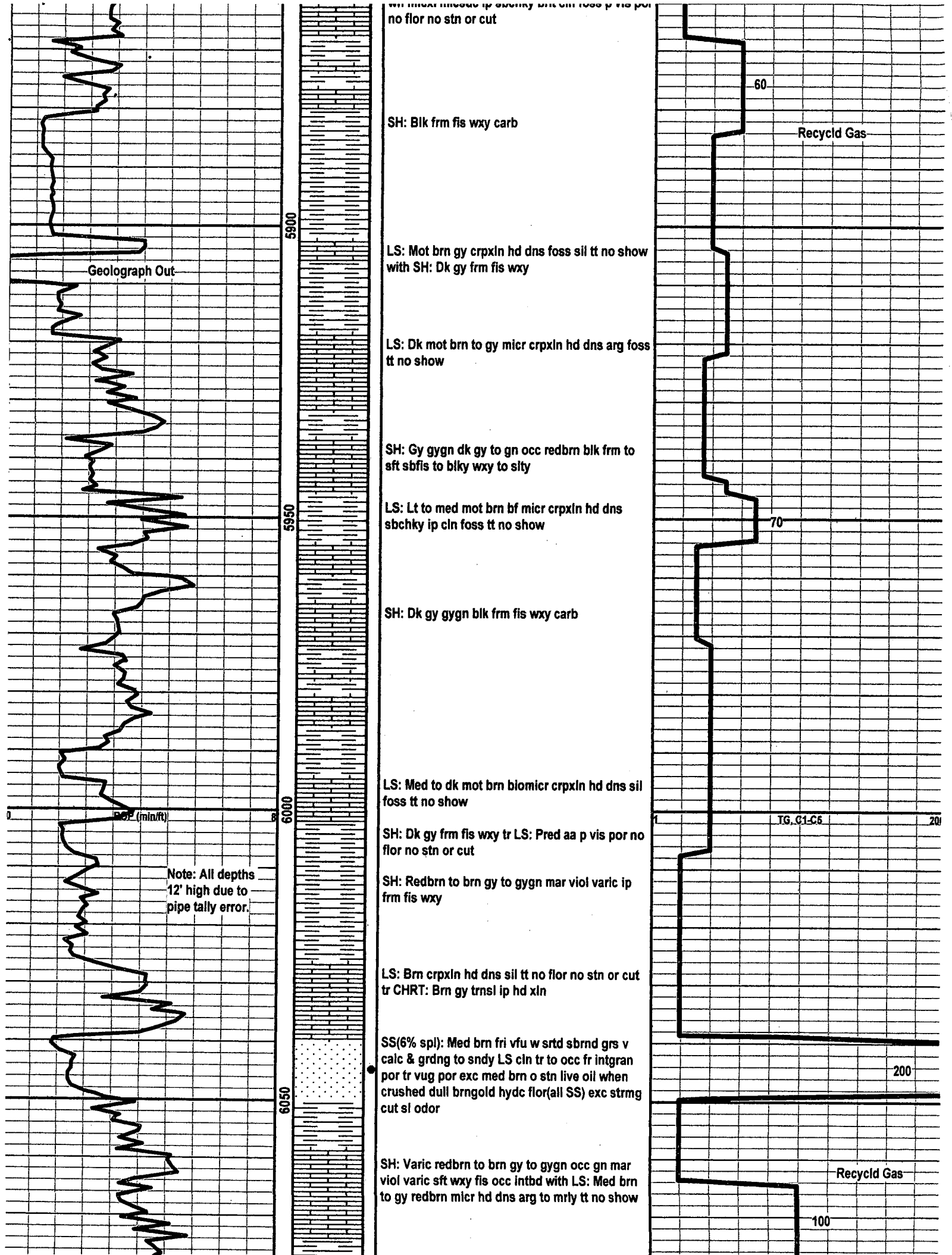

ROP (min/ft)
8
4800
4850
4900
4950
TG, C1-C5
1
20
LS: Med brn micxln micsuc brit cln exc oomoldic por tr intxln por no show with LS: Lt brn bf micxln micsuc ip brit cln sbchky foss hd & sil ip no show
LS: Mot brn crpxln hd dns sil foss cln to arg tt no show
SH: Blk v dk brn frm sbfis to blky carb slty to wxy calc intbd with LS: Lt brn bf micxln micsuc ip brit cln sbchky foss tr intxln por no flor no stn or cut
LS: Mot brn v brit cln v ool w/exc oomoldic por mot orng min flor no stn or cut no show
SH: Dk brn gy hd blky slty carb with LS: Mot brn to gy f xln hd dns sil ip p vis por no show
LS: Lt to med mot brn to gy micxln micsuc ip pred hd & sil tt/ occ tr moldic & intxln por no flor no stn or cut
LS: Lt brn gy bf micxln micsuc v brit cln chky ip tr intxln por occ moldic por no show
SH: Blk dk brn frm sbfis carb with LS: Lt brn gy bf micxln micsuc v brit cln chky ip tr intxln por occ moldic por no show
LS: Med to dk mot brn lt brn bf micro/crpxln micsuc ip cln to mrly sil ip pred hd & tt occ micsuc w/intxln por no flor no stn or cut

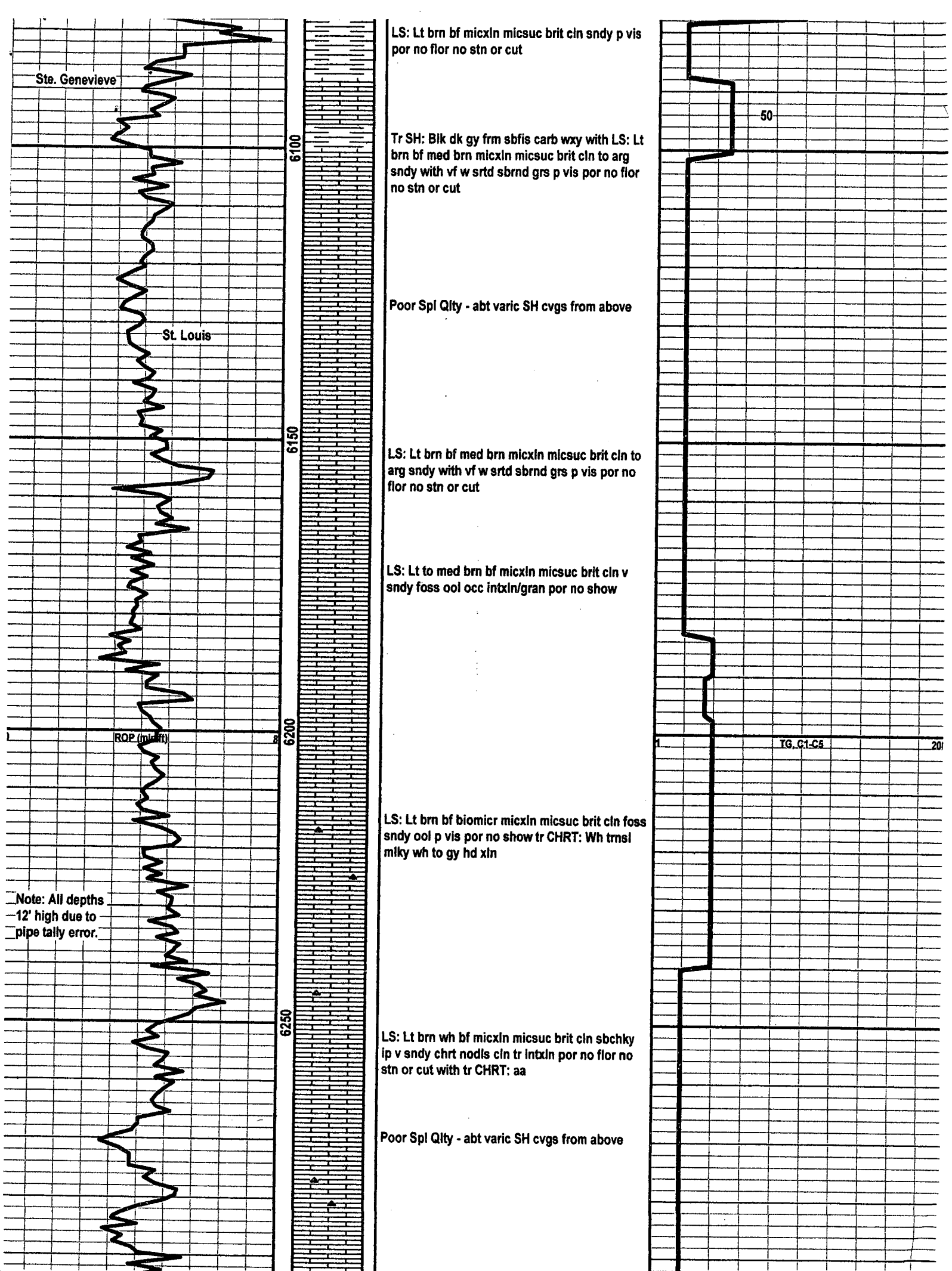

ROP (min/ft)
TG, C1-C5
LS: Med to dk mot brn micr crpxln hd dns sil arg to mrly foss tt no show
SH: Dk brn blk dk gy hd blky carb calc foss sil ip intbd with LS: Pred aa micsuc ip w/tr intxl por no flor no stn or cut
120
LS: Med mot brn oomicr f xln brit cln v ool w/exc oomoldic por no flor no stn or cut mot orng min flor
Note: All depths 12' high due to pipe tally error.
LS: Dk mot gy to brn occ blk crpxln hd dns sil arg to mrly ip tt no show
SH: Blk v dk brn hd sbfis to blky wxy carb slty
120
LS: Dk mot brn gy micr crpxln hd dns arg to mrly foss carb tt no show with SH: Blk dk brn hd sbfis carb
LS: Med to dk mot brn f xln brit cln v ool exc oomoldic por tr intxln por mot orng min flor no stn or cut no show
LS: Med mot brn crpxln hd dns brit ip arg foss occ exc oomoldic por no show
5050
5100
5150
5200

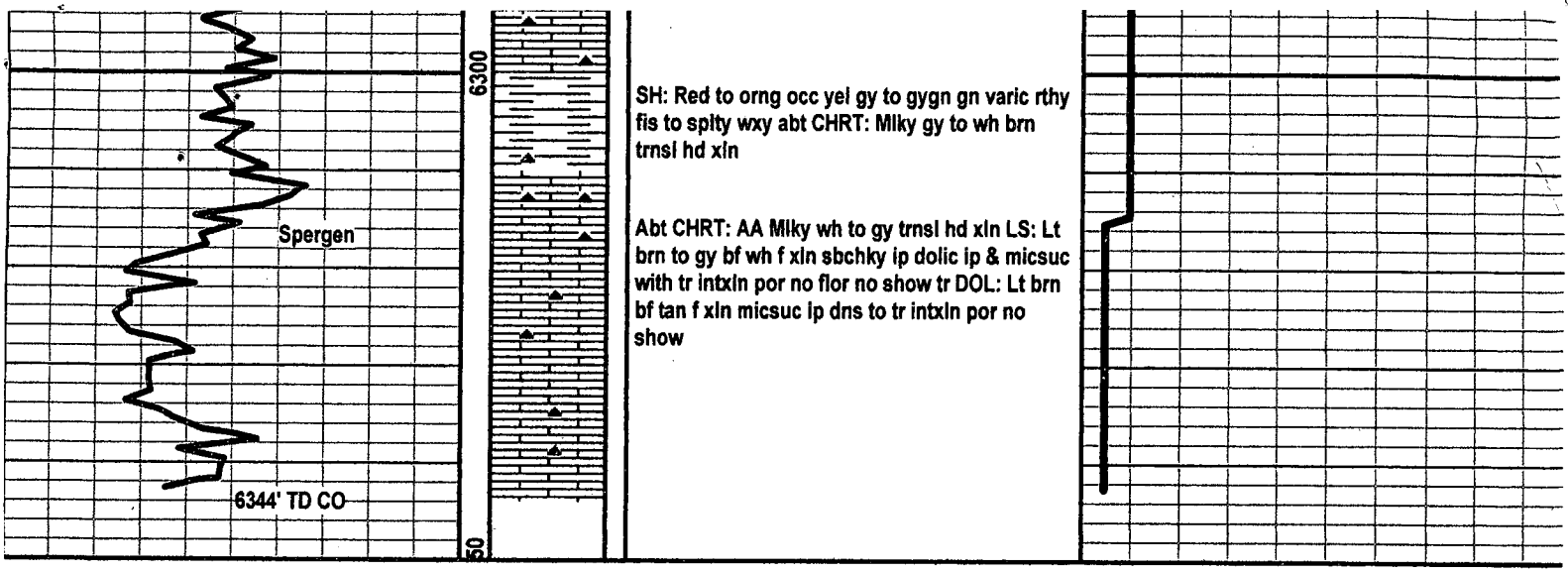

5250
5300
5350
5400
Marmaton
Note: All depths 12' high due to pipe tally error.
ROP (min/ft)
Cherokee
SH: Blk dk brn frm fis carb slty intbd with LS: Pred aa occ exc oomoldic por no flor no stn or cut
Marmaton
LS: Mot brn to gy f xln hd dns sil ip foss ool cln tt no show
SH: Blk dk gy frm sbfis to blky carb calc slty to sndy ip intbd with LS: Lt brn bf wh f xln sbchky cln to arg sft brit no show
LS: Lt brn wh tan micxln chky ip cln to arg sft brit p vis por no flor no stn or cut
SH with intbd LS: aa no show
LS: Lt brn bf wh f xln chky ip sft brit cln no show with LS: Med mot brn oomicr micxln v ool w/exc oomoldic por no show occ intbd with SH: Blk frm fis
LS: Lt brn bf wh f xln chky ip sft brit cln no show with LS: Med mot brn oomicr micxln v ool w/exc oomoldic por no show
SH: Blk dk brn frm sbfis to blky wxy to slty carb
LS: Brn micxln micsuc ip cln foss sbchky tt no show with LS: Med mot brn oomicr micxln v ool w/exc oomoldic por no show intbd with SH: Dk brn to gy blk frm sbfis to blky carb
Cherokee
SH: Blk frm fis carb
80
50
TG, C1-C5


to arg tt no show
SH: Blk frm fis carb
LS: Med to dk brn occ blk crpxln hd dns sil arg foss p vis por no show
SH: Blk dk gy to brn sbfis frm carb slty
LS: Med to dk brn to gy biomicr crpxln hd dns foss arg to mrly carb tt no shoow intbd with SH: Blk frm fis carb
LS: Med to dk brn to gy biomicr crpxln hd dns foss arg to mrly carb tt no shoow intbd with SH: Blk frm fis carb
LS: Med to dk mot brn gy occ blk micr crpxln hd dns arg to mrly foss carb tt intbd with SH: Blk frm fis carb
SH: Blk dk brn frm sbfis to blky carb calc
LS: Dk brn f xln hd dns foss arg to mrly tt no show with SH: aa
SH: Blk dk brn to gy hd blky to sbfis carb calc slty
Note: All depths 12' high due to pipe tally error.
LS: Mot brn to gy bf micxln frm dns to tr intxln por sbchky ip cln to arg no flor no stn or cut
SH: Blk dk brn frm sbfis to blky carb intbd with LS: Mot brn bf f xln hd dns sbchky p vis por no flor no stn or cut
IS: Dk brn blk med to lt brn bf micr crpxln to micxln dns sbchky ip foss cln to mrly foss tt no
5450
5500
5550
5600
ROP (min/ft)
TG, C1-C5
Note: All depths 12' high due to


pipe tally error.
5650
show tr CHRT
SH: Blk frm fis carb intbd with lS: Dk brn blk med to lt brn bf micr crpxln to micxln dns sbchky ip foss cln to mrly foss tt no show tr CHRT
Atoka
Atoka
SH: Blk dk brn frm fis to blky wxy to slty carb intbd with LS: Dk to med brn occ blk crpxln hd dns arg to mrly occ sbchky & cln p vis por no flor no stn or cut
SH: Blk frm fis carb
5700
LS: Dk brn gy blk mot micr f xln dns arg to mrly slty carb occ sbchky tr v dull pale bl hydc flor fnt cut no stn v wk show
Morrow
Note: All depths 12' high due to pipe tally error.
LS: Dk gy brn blk micr crpxln hd dns sil arg to mrly foss carb tt no show intbd with SH: Blk frm fis carb
SH: Blk dk gy fis frm carb with Dk brn to gy mrly LS: aa p vis por no flor no stn or cut
5750
SS: Spec gn wh clr med to dk mot brn f/c p srtd sbrnd grs v calc with abt f/vc reworked LS incls glauc pyr ip tr intgran to occ gd vug por gd lt yel to pale bl hydc flor(all SS) gd fast strmg cut brn mtx oil stn tr live oil v calc & grdng to & intbd v sndy & foss LS: occ vug por hydc flor & CUT
120
SH: Blk frm fis wxy carb
LS: Mot brn s&p spec gn micr f xln sbchky brit ip v sndy & glauc with f/c p srtd grs tr vug & intxln por pred tt abt spec bl hydc flor(5%) gd strmg cut brn o stn
SH: Blk dk gy frm fis carb
5800
ROP (min/ft)
TG, C1-C5
Note: All depths 12' high due to pipe tally error.
LS: Dk to med mot brn to gy micr crpxln hd dns foss sndy glauc pyr p vis por no show
SH: Blk dk gy frm fis carb sil
Chester
Poor Spl Qlty LS: Lt brn bf f xln sbchky to chky brit cln foss sndy sl glauc tr intxln por chlk infill tr v pale bl hydc flor fnt bldng to wk strmg cut no stn
120
170
5850
SH: Blk frm fis carb wxy intbd with LS: Lt brn bf


no flor no stn or cut
SH: Blk frm fis wxy carb
LS: Mot brn gy crpxln hd dns foss sil tt no show with SH: Dk gy frm fis wxy
LS: Dk mot brn to gy micr crpxln hd dns arg foss tt no show
SH: Gy gygn dk gy to gn occ redbrn blk frm to sft sbfis to blky wxy to slty
LS: Lt to med mot brn bf micr crpxln hd dns sbchky ip cln foss tt no show
SH: Dk gy gygn blk frm fis wxy carb
LS: Med to dk mot brn biomicr crpxln hd dns sil foss tt no show
SH: Dk gy frm fis wxy tr LS: Pred aa p vis por no flor no stn or cut
SH: Redbrn to brn gy to gygn mar viol varic ip frm fis wxy
LS: Brn crpxln hd dns sil tt no flor no stn or cut tr CHRT: Brn gy trnsl ip hd xln
SS(6% spl): Med brn fri vfu w srtd sbrnd grs v calc & grdng to sndy LS cln tr to occ fr intgran por tr vug por exc med brn o stn live oil when crushed dull brngold hydc flor(all SS) exc strmg cut sl odor
SH: Varic redbrn to brn gy to gygn occ gn mar viol varic sft wxy fis occ intbd with LS: Med brn to gy redbrn micr hd dns arg to mrly tt no show
Geolograph Out
5900
5950
6000
6050
ROP (min/ft)
Note: All depths 12' high due to pipe tally error.
60
Recycld Gas
70
TG, C1-C5
200
Recycld Gas
100


Ste. Genevieve
St. Louis
6100
6150
6200
6250
ROP (min/ft)
Note: All depths 12' high due to pipe tally error.
LS: Lt brn bf micxln micsuc brit cln sndy p vis por no flor no stn or cut
Tr SH: Blk dk gy frm sbfis carb wxy with LS: Lt brn bf med brn micxln micsuc brit cln to arg sndy with vf w srtd sbrnd grs p vis por no flor no stn or cut
Poor Spl Qlty - abt varic SH cvgs from above
LS: Lt brn bf med brn micxln micsuc brit cln to arg sndy with vf w srtd sbrnd grs p vis por no flor no stn or cut
LS: Lt to med brn bf micxln micsuc brit cln v sndy foss ool occ intxln/gran por no show
LS: Lt brn bf biomicr micxln micsuc brit cln foss sndy ool p vis por no show tr CHRT: Wh trnsl mlky wh to gy hd xln
LS: Lt brn wh bf micxln micsuc brit cln sbchky ip v sndy chrt nodls cln tr intxln por no flor no stn or cut with tr CHRT: aa
Poor Spl Qlty - abt varic SH cvgs from above
50
TG, C1-C5



SH: Red to orng occ yel gy to gygn gn varic rthy fis to spty wxy abt CHRT: Mlky gy to wh brn trnsl hd xln

Abt CHRT: AA Mlky wh to gy trnsl hd xln LS: Lt brn to gy bf wh f xln sbchky ip dolic ip & micsuc with tr intxln por no flor no show tr DOL: Lt brn bf tan f xln micsuc ip dns to tr intxln por no show