

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	STEINER 'A' 1-18
Doc ID	1733310

All Electric Logs Run

DIL
MEL
BHCS
DUCP

WELL INFORMATION

Company: MURFIN DRILLING CO., INC.
Address: 250 N. WATER, STE 300
WICHITA, KS 67202-1216

Well Name: STEINER "A" #1-18

Location: 330' FSL, 425' FWL
SECTION 18 - T2S - R15E
BROWN COUNTY, KANSAS

API: 15-013-20063
Field: WILDCAT

K. B. Elevation: 1258 Rotary Depth: 4050
Ground Elevation: 1246 Log Depth: 4047

Spud Date: 8/24/2023 Drilling Completed: 8/30/2023

Completion: D & A

Surface Casing: 8 5/8" set @ 359' Production Casing: NONE

Formation at TD: ARBUCKLE
Drilling Fluid Type: CHEMICAL

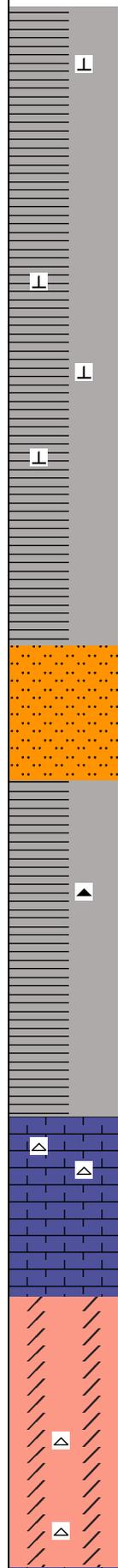
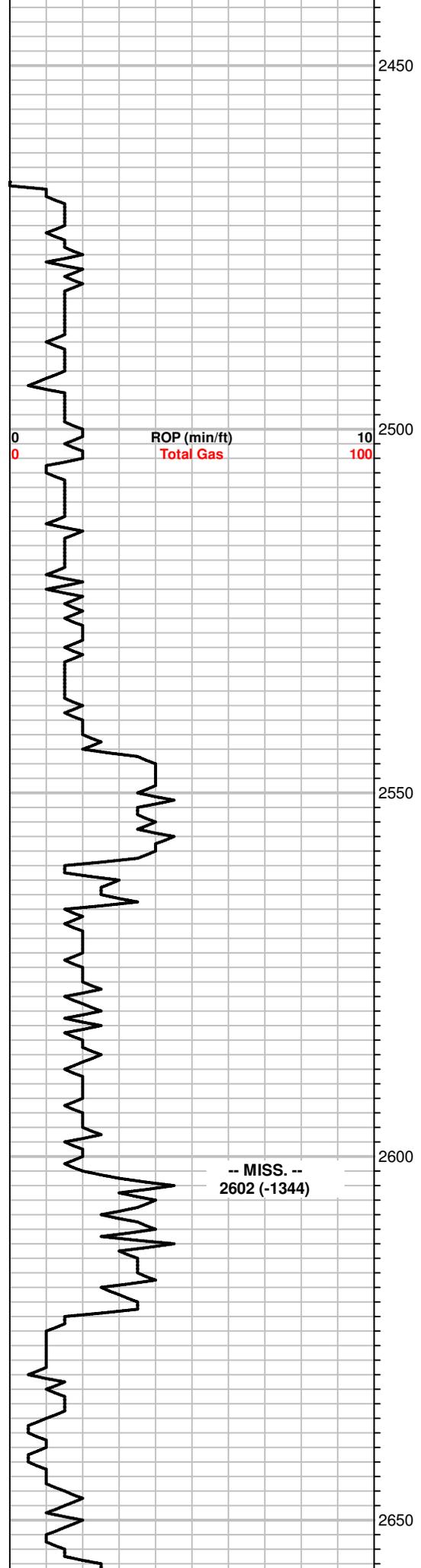
Rig Contractor: MURFIN RIG # 116
Logger: MIDWEST WIRELINE Logs Run: DI, CND, SONIC & MICRO

Wellsite Geologist: LARRY P. FRIEND

FORMATION DEPTHS

COMPARED TO:
EDWARD P. STUCKY
MOORHEAD #2
SE NE SW
SEC. 13-T2S-R14E

SAMPLE DEPTHS		LOG	
MISSISSIPPIAN	2601 (-1343)	2602 (-1344)	-147
KINDERHOOK	2739 (-1481)	2733 (-1475)	-139
HUNTON	3008 (-1750)	3004 (-1746)	-142
MAQUOKETA	3623 (-2365)	3623 (-2365)	-140
VIOLA	3678 (-2420) CORR	3675 (-2417)	-142
SIMPSON	3857 (-2599)	3855 (-2597)	-142
BS SIMPSON SH	3922 (-2664)	3921 (-2663)	-142
ST. PETER SAND	3954 (-2696) CORR	3950 (-2692)	-149
LOWER SIMPSON	3965 (-2707)	3962 (-2704)	-143
ARBUCKLE	3994 (-2736) CORR	3991 (-2733)	-141
RTD	4050		
LTD	4047		



70: Mostly gry silty Shale.

80: As abv & some blk shale & tr.friab. Siltstn.

90: Tr v. fn. gran. dse brn foss. Ls w/ fusulinids Shale, tan & lt. gry; NS

100: Inc. mostly dk gry Shale.

10: Siltstn, v. fn. grnd, SA-SR, tite; Shale as abv; NS

20: Few pcs dse Ls, v. foss, fn gran, sli. glauc; ans as abv; NS

30: Tr. Ls as abv & Shale; NS

40: Ls, brn, hd, chrt & brn Chert; tr. chrt Shale; NS

50: Mostly dk gry Shale.

60: Flood gry lmy Siltstn, tite; NS

70: Siltstn, gry, lmy & shly; NS

80: Tr. Sst, silt- md grn, poorly sort., SA-SR, clr, w/ some cse frags of Pyrite & Shale intermixed; Tr. Siltstn, gry-brn, lmy, v. hd, tite; NS

90: Tr. brn chrt Ls, hd & brn Chert; But mostly dk gry Shale; NS

100: Tr. brn Chert as abv; 1 pc Sst, vfg, SA-SR, well sort, fr. por; Mostly dk gry Shale; NS

10: Chert, crm, shp & Dol, brn, vfxln, sucrosic tite in a tan Ls w/ pr-fr. xln por; NS

20: Ls, tan, cse xln, sli. glauc. w/ pr-fr. xln por & Chert, crm, shp in part; NS

30: Dol, brn, fxl, suc, pr. xln por & rare spty. tr. vug. to solution por, all in Ls as abv; NS

40: Much Dol, brn, as abv w/ pr. xln por. in Ls, tan, cse xln w/ pr-fr. xln por, sli. glauc; NS

50 & 60: Dol, tan, fxl, suc w/ tr. pr xln & foss. cast - vug. por; Chert, crm-gry, shp; NS

70: Ls, brn, vfxln, dse to tr. chlky; Dol. & Cht as abv; NS

8/25/23: 402' ; SET SURF. @ 359
8/26/23: 2466' ; MUD UP AT 2100';
BIT TRIP @ 2466
8/27/23: 2950' ; SHORT TRIP @
2950'
8/28/23: 3455'
8/29/23: 3800'
8/30/23: 4050' ; TD @ 6:00AM

BIT TRIP @ 2466: REPLACE PDC BIT WITH BUTTON BIT.

SAMPLES AND 1 FT. DRILL TIME START AT 2466 FT.

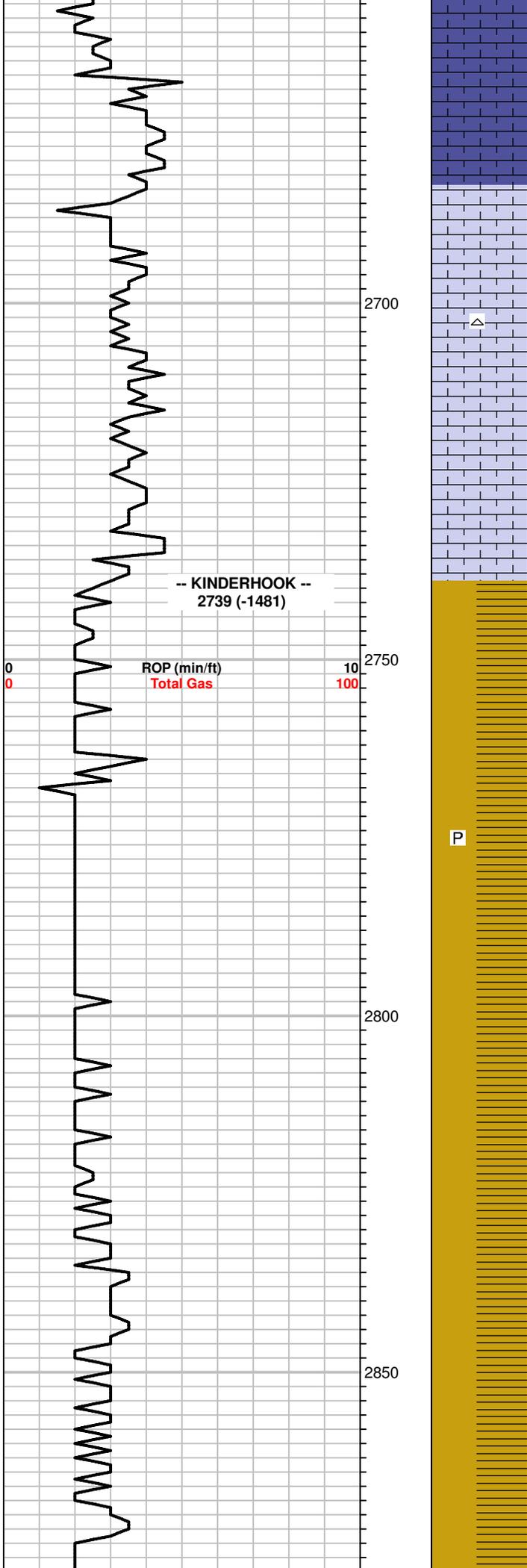
DEVIATION SURVEYS:
0.25 @ 359'
0.75 @ 1432'
0.75 @ 2466'
0.75 @ 4050'

NO DRILL STEM TESTS WERE RAN ON THIS HOLE.

Slowed it down. Took 10K #s off bit.

Back to 35K on bit.

MUDCO'S DRILLING FLUID CHECK @ 2607':
WT: 9.15
VIS: 66
YIELD POINT: 22
FILTRATE: 6.4
CHLORIDES: 1,400 PPM
LCM: 2 LB



80: Ls, brn, vf-xln, some v. foss, pr. xln por;
Tr. Dol. fxln, pr. por; Some grn, tite Siltstn; NS

90: Ls, tan, vfxln, dse; NS

100: Ls, brn, fn gran, mostly pr. por, minor amt
sli. chlky; NS

10 & 20: Ls, brn, fn - csely granular, mostly pr. to
tr. fr. intergran. por; tr. tan Cht; NS

30: Ls, as abv; also tan lmy Siltstn w/ pr- tr. fr.
por; NS

40 & 50: Ls, brn, fn - csely granular, some silty
to brn, lmy Siltstn, pr. intergran. por

60: Shale, lt. green & maroon; tr. grn Siltstn.

70: Mostly lt. green Shale & tr. Pyrite.

80: As abv.

90 & 100: Mostly lt. green Shale & sm. amt.
Pyrite.

10 & 20: Lt. green Shale & sm. amt. of tan Shale
or Clay.

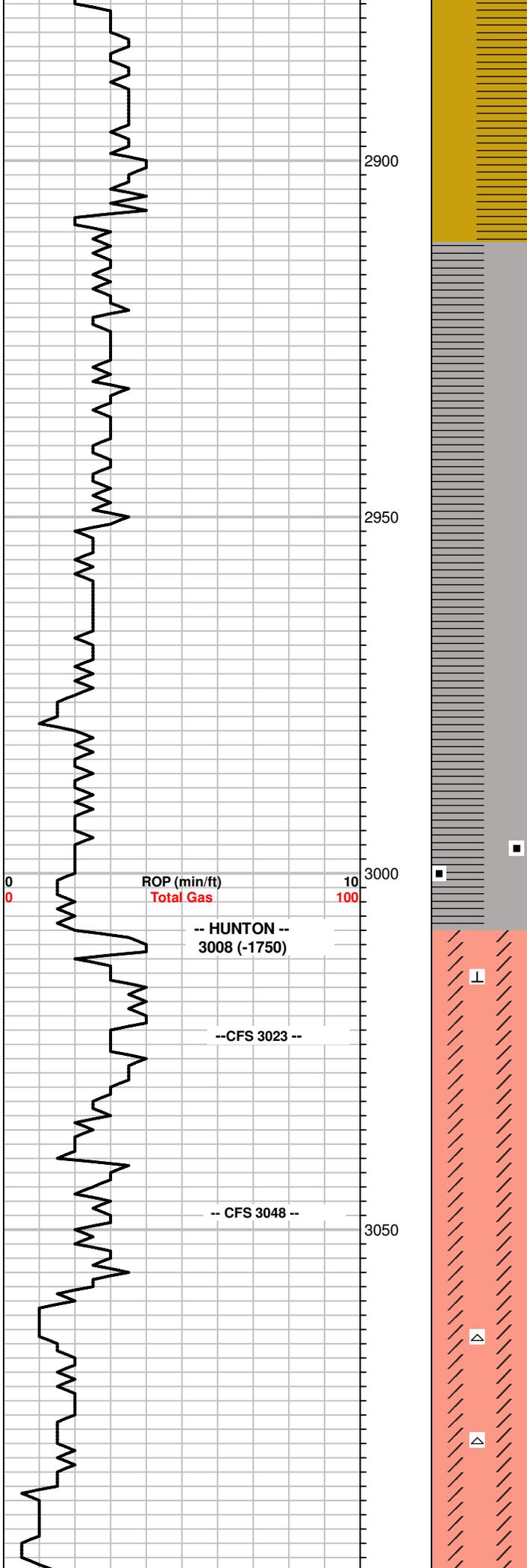
30, 40 & 50: Shale, lt. green to sm. amt. brn -
maroon.

60: Very soft & sticky lt. green Shale.

70: Shale, lt. green, some v. soft & sticky.

80, 90 & 100: Shale, lt. green.

P



10: Shale, lt. green.

20 - 50: Shale, lt grey.

60 - 80: Shale, lt. grey.

90 - 100: Shale lt. grey.

10: Shale, lt. grey w/ some dk. carbonaceous layers intermixed.

20: Dol, tan- tr. brn, vf-xln, hd, only tr. pr. xln por; NS

23: Circ: Dol, gry, cse xln w/ some fr. xln por. & Dol, Ls, tan, vfxln, hd w/ no vis. por; NS

30: Dol, tan-org, cse xln, pr- tr. fr. xln por; NS

40: Dol. to dol. Ls, gry & brn, vf-xln, pr- tr. fr. xln por; NS

48: Circ: Dol, gry- brn, vfxln, hd, no vis. por; NS

60: Dol, tan, fxl, hd, tr. blk tarry material & pyrite xtals on few frac. surfaces; No Fluor, No cut.

70: Dol, tan, vf-xln, hd, tr. pr. xln por; NS

80 & 90: Dol, crm-tan, fxl, w/ fr- tr. gd xln por & Chert, crm-gry; NS

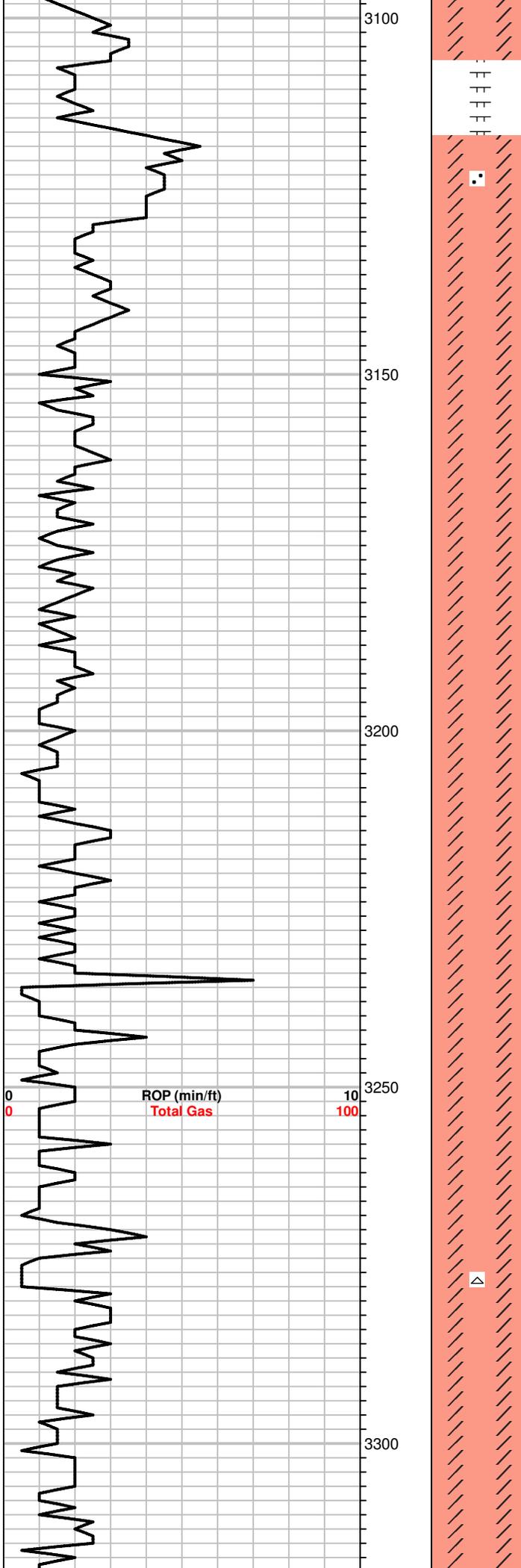
100: Dol, tan, fxl, hd, some fr. xln por; Tr. crm Chert; NS

10: Dol, gry, vfxln, hd, tr. pr. scat. vug. por; NS

WIPER TRIP @ 2950. PULLED 20 JOINTS

MUDCO'S DRILLING FLUID CHECK @ 3048':

WT:	9.2
VIS:	45
YIELD POINT:	12
FILTRATE:	8.8
CHLORIDE:	800 PPM
LCM:	6 LB



20: Much Qtz, non-translucent & Dol. tan, cse xln, w/ pr. xln por; NS

30: Dol, gry, vf-fxln, w/ scat. vfn sand grn inclusions, pr. por to tr. dol. Sst, tite; NS

40: Dol, tan-brn, vf-fxln, hd, pr. por; NS

50 & 60: Dol, gry-tan, vfxln, hd, few pcs w/ pr. xln por, tr. crm soft, chlky Dol; NS

70 & 80: Dol, vf-fxln, hd, tr.pr. scat. vug. por; NS

90: Dol, gry-tan, vfxln, hd, , no vis. por; NS

100, 10 & 20: Dol, gry-tan, vf-fxln, hd, scat. tr pr-fr. vug. por; NS

30, 40 & 50: Dol, gry-tan, vfxln, hd, w/ tr. pr-fr. vug. por; NS

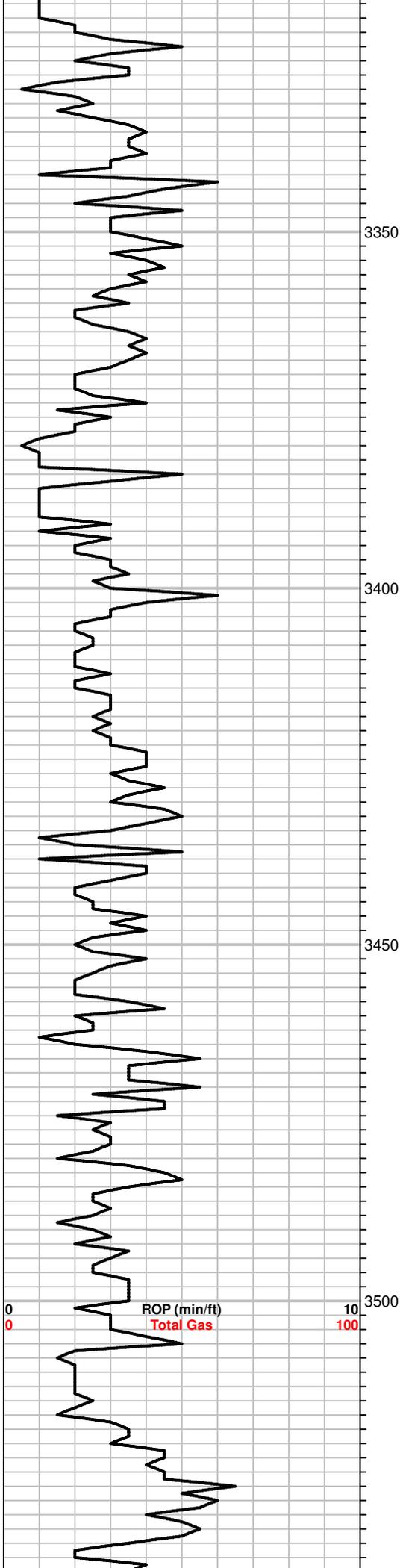
60: Dol, gry-tan, vfxln, hd, only tr. pr. vug. por; NS

70 & 80: Dol gry-tan, vfxln, hd, few pcs w/ pr-fr vug. por; NS

90: Dol, gry-tan, vfxln, sev pcs w/ pr-fr. spty vug. por; NS

100: Dol, as abv, appears sli. cherty, few pcs w/ pr. vug. por; tr. cht, gry; NS

10 thur 60: Dol, gry-tan, vfxln, hd, only tr. pr. vug. por; NS



3350

70 & 80: Dol, as abv, gry-tan, vfxln, hd, w/ r. tr. vug. por; NS

90 & 100: Dol, gry-tan, vfxln, hd, tr. w/ fr-gd. vug. por; NS

10: Dol, gry-tan, vfxln, hd, fair amt. w/ fr-gd. vug. por; NS

3400

20: No sample. Knocked it into water bucket.

30: Dol, gry-tan, vfxln, hd, sev. pcs w/ fr-gd. vug. por; NS

40: Dol, as abv, much less - only tr. vug. por; also tr. crm chky Lm; NS

3450

50, 60 & 70: Dol, gry-tan, vfxln, hd w/ inc. - much pr-gd. vug. por; NS

80: Dol, gry, vfxln, minor amt. of pr. scat. vug. por; NS

90, 100 & 10: Dol, gry, vf-fxln, much w/ fr. xln por. & pr-gd. vug. por ; NS

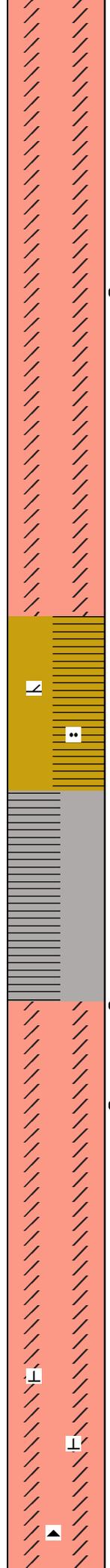
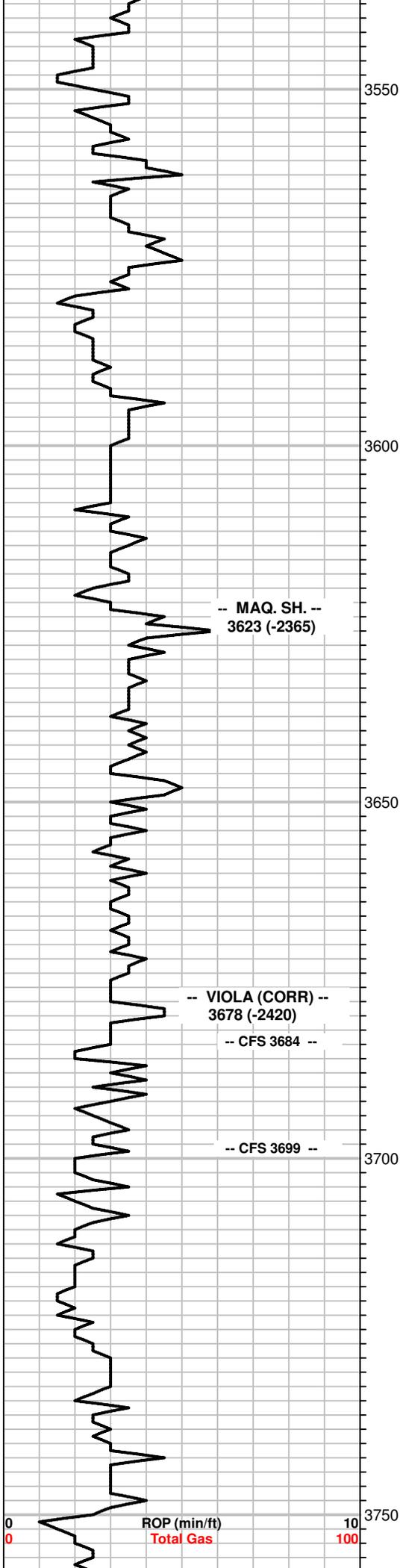
0 ROP (min/ft) 10
0 Total Gas 100

3500

20 & 30: Dol, gry-tan, vf-fxln, much w/ pr-gd. vug. por. & some pr-fr. xln. por; NS

40: Dol, gry to pink, fxln w/ tr. pr. xln. por; NS

50 & 60: Dol, gry-tan, fxln, pr- tr. fr. xln por & sm. amt. scat. pr-fr. vug. por; NS



70: Dol, gry-tan, fxln, hd, w/ much pr-fr. vug. por; NS

80: Dol, gry-tan, fxln w/ pr-fr. xln. por; NS

90: Tr. orange Dol, mxln, hd, no vis. por; and Dol, lt. gry, vfxln, sli. glauc, pr. por; NS

100: Dol, brn, fxln, pr. - some fr. xln. por w/ scat.spks. dk. carbonaceous material; no fluor, no cut.

10, 20 & 30: Dol, tan-brn, fxln, hd, pr. xln. por; NS

40: Shale, green, sli. dolomitic.

44 Circ: Shale, lt. grn, brn & gry, some silty to sli. dolomitic.

70: Shale, gry, soft.

80: Much uphole rock in smp.

84: Circ: Dol, brn, fxln, mostly pr. to tr. fr-gd xln & vug. por. in dry samp., scat. spks dk. brn carbon. mat/ dead oil, only cp. ppts of FO; dull brn spty stn in dry, No fluor, cut or odor .

99: Dol as abv, only cp pcs w/ spks dd. oil, 1 ppt. FO, dull brn stn in dry. No fluor.

99 Circ: Dol, gry, cxln, scat, pr-fr. vug por; few pcs Dol. as abv w/ spks dd oil, pr-fr. xln por

20 & 30: Dol, crm-gry, sparry, cse xln, some pr-gd. scat. xln & vug. por; NS

40: Dol, crm, mottled gry, cse xln, sm. amt. fr. xln - vug. por; NS

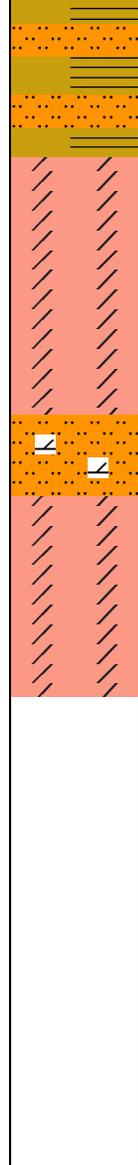
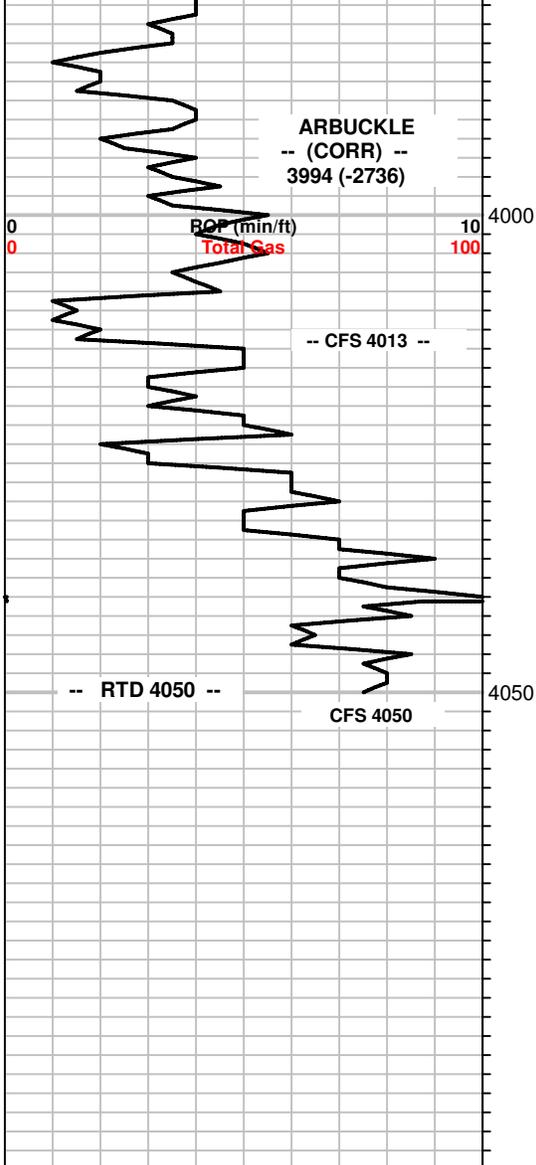
50: Ls, tan, vfxln, dse & Dol, brn, fxln, hd w/ tr. pr-fr. xln por; NS

60: Mixed sample:Dolomites as abv; NS

70: Inc. Dol, brn, fxln, hd, pr - tr. fr. xln por; tr. Chert; NS

MUDCO'S DRILLING FLUID CHECK @ 3575':
 WT: 9.15
 VIS: 54
 YIELD POINT: 17
 FILTRATE: 8.0
 CHLORIDES: 700 PPM
 LCM: 4 LB.

WIPER TRIP - 25 JOINTS @ 3644 FT. CIRC 45" AFTER TO CLEAN HOLE



90 & 100: Siltstn, grn, shly & glauc., some lmy & red Shale.

10: Tr. gry cse xln Dol, hd w/ no vis. por; NS

Circ: 4013: 20": Dol, gry, vf- cse xln, hd, no vis. por; NS

Circ: 4013: 40": Dol, vf- cse xln, tr. w/ gd. xln & vug. por; NS

20 & 30: Dol, gry-tan, cse xln, hd, only tr. fr. xln por; NS

40: Tr. dol. Sst, vf-f gr, SR, friab; dol. Siltstn friab. & Dol as abv; NS

50: Much dol. Siltstn, vf gr, w/ fr. intergr. por; NS

Circ: 4050: Dol, tan-brn, fxln, w/ pr-fr. vis. xln por; & dol. Siltstn, friab; NS

MUDCO'S DRILLING FLUID CHECK @ 4050':

WT:	9.0
VIS:	68
YIELD POINT:	29
FILTRATE:	8.8
CHLORIDES:	550
LCM:	4 LB

WIPER TRIP AT 4050. PULLED 15 JTS.

BIT WAS WORN OUT, MISSING SEVERAL TEETH AT TD.

DRILLING REPORT - LOG TOPS - STEINER A 1-18

MDCI Steiner 'A' #1-18 330' FSL 425'FWL Sec. 18-T2S-R15E KB: 1258						
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref
MISSISSIPPIAN	2601	-1343	-146	2602	-1344	-147
KINDERHOOK	2739	-1481	-145	2733	-1475	-139
HUNTON	3008	-1750	-146	3004	-1746	-142
MQKT	3623	-2365	-140	3623	-2365	-140
VIOLA	3667	-2409	-134	3675	-2417	-142
SIMPSON	3857	-2599	-144	3855	-2597	-142
B SIMP SH	3922	-2664	-143	3921	-2663	-142
ST PETER	3947	-2689	-146	3950	-2692	-149
LOWER SIMP	3965	-2707	-146	3962	-2704	-143
ARB	3999	-2741	-149	3991	-2733	-141
RTD	4050					
LTD				4047		