



KANSAS CORPORATION COMMISSION 1077125
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34162
Name: New Gulf Operating LLC
Address 1: 6310 E. 102nd St.
Address 2: _____
City: TULSA State: OK Zip: 74137 + _____
Contact Person: Danny Birdwell
Phone: (918) 728-3020
CONTRACTOR: License # 5822
Name: Val Energy, Inc.
Wellsite Geologist: Joe Baker
Purchaser: _____

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil WSW SWD SLOW
 Gas D&A ENHR SIGW
 OG GSW Temp. Abd.
 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 ENHR Conv. to SWD
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

<u>09/07/2011</u>	<u>09/17/2011</u>	<u>09/17/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-109-21031-00-00
Spot Description: _____
SW NW SE NE Sec. 8 Twp. 12 S. R. 32 East West
1860 Feet from North / South Line of Section
1220 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Logan
Lease Name: Grasslands Well #: 1
Field Name: _____
Producing Formation: Mississippi
Elevation: Ground: 3014 Kelly Bushing: 3019
Total Depth: 4720 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 264 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: 3200 ppm Fluid volume: 240 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Petex, Inc.
Lease Name: Kuska J License #: 8541
Quarter SW Sec. 1 Twp. 10 S. R. 33 East West
County: Thomas Permit #: D25989

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

Letter of Confidentiality Received
Date: 03/26/2012
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: NAOMI JAMES Date: 03/28/2012



1077125

Operator Name: New Gulf Operating LLC Lease Name: Grasslands Well #: 1
 Sec. 8 Twp. 12 S. R. 32 East West County: Logan

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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: <small>dual induction micro log comp density/neutron</small>	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample Name Top Datum Attached Attached Attached
--	--

CASING RECORD <input checked="" 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
Surface	12.25	8.625	15.2	264	Class A	200	3%cc, 2%gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing	-			
___ Plug Back TD				
___ Plug Off Zone	-			

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR: _____	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
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> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
---	---	--

Form	ACO1 - Well Completion
Operator	New Gulf Operating LLC
Well Name	Grasslands 1
Doc ID	1077125

Tops

Heebner	3026	-1336
Stark	3501	-1811
Swope Poro	3510	-1820
Hushpuckney	3543	-1853
Lower Hertha Porosity	3581	-1891
BKC	3604	-1914
Marmaton	3612	-1922
Cherokee	3688	-1998
Conglomerate	3723	-2026
Miss Chert	3706	-2016
Kinderhook	3790	-2100
Viola	4026	-2336
Simpson SH	4034	-2344
Simpson Sand	4053	-2363
Arbuckle	4120	-2430

Covey

The Well Watchers

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

Well Name: GRASSLANDS #1
Location: Section 8 - Township 12 South - Range 32 West
Licence Number: 15-109-21,031. 0000 Region: Logan County, KS.
Spud Date: 7 Sept 2011 Drilling Completed:
Surface Coordinates: 1,860' FNL & 1,220' FEL , NE/4
(Approximately SW NW SE NE)
Bottom Hole Coordinates:
Ground Elevation (ft): 3,009 K.B. Elevation (ft): 3,019'
Logged Interval (ft): 3,600' To: Total Depth (ft):
Formation: Topeka -----> Miss (St. Louis)
Type of Drilling Fluid: Chemical; Low Solids (non-dispersed)

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

OPERATOR

Company: NEW GULF OPERATING, LLC.
Address: 6310 East 102nd Street
Tulsa, Oklahoma 74137
(918) 728-3020
POC Geologist:
Joe Baker

GEOLOGIST

Name: Curtis Covey
Company: COVEY - The Well Watchers
Address: 6548 Bedford Circle
Derby, Kansas 67037
Office: (316) 776 - 0367 Cell: (316) 258-9976

KB: 3,019'

FORMATION TOPS

GL: 3,009'

Formation	Rotary Sample Depth (Datum)	E-log Depth (Datum)
Anhydrite	2,541' (+478')	
B / Anhydrite	2,564' (+455')	
Stotler	3,622' (-603')	
Topeka	3,752' (-733')	
Heebner Shale	3,976' (-957')	
Lansing	4,027' (-1,008')	
Muncie Creek SH		
Stark SH		
B / KC		
Pawnee LS		
Ft. Scott		
Cherokee Sh		
'Johnson' Zone		
Morrow Sandstone		
Miss (Erosional)		

Loggers:

RTD:

LTD:

ATD:

E-log is
E-log is

to rotary sample depth, uphole.
to rotary sample depth, mid- & down hole sample logged interval.

DAILY DRILLING STATUS -- SEPTEMBER

12-1/4" Hole

7-7/8" Hole

7-7/8" Hole

7 Sept -- Spud @ 6pm.
 Drill to 268'.
 Run 8-5/8" casing (23#)
 Set casing @ 267'.
 8 -- Cemented w/ 200 sx Class A
 (2% Gel + 3% CC).
 [Allied]
 Cement did circulate.
 Plug down @ 1:45am.
 WOC.

9 Sept -- WOC.
 6:30am @ 268'.
 Under surface casing @ 4:15pm.
 10 -- 6:30am @ 1,415'.
 11 -- 6:30am @ 2,420'.
 12 -- 6:30am @ 3,080'.
 Displace Mud @ 3,402'.
 13 -- 6:30am @ 3,545'.
 14 -- 6:30am @ 4,040'.
 Start and
 15 -- Finish DST #1: Lansing
 (4,084'-4,122').
 6:30am @

HOLE DEVIATION 268' - '

DEPTH / TVD	INCLINATION	AZIMUTH	NORTH	SOUTH	EAST	WEST	DOGLEG deg/100'
268' /	-- 0.50 (Surface)						
1,197' /	-- 0.75						
2,191' /	-- 1.25						
3,191' /	-- 1.00						
4,122' /	-- (DST #1)						

STRAP @
 Board:
 Strap:
 Diff:

CONTRACTOR

VAL Energy -- Rig #4

10,500 E. Berkeley Square Parkway, Suite 1000
 Wichita, Kansas 67230
 Office: (316) 636-2090

Rig #4 - (620) 617-2793

Larry Hinderliter - (620) 804-0097

Pump: National K-500A
 6" x 15" @ 58 SPM.
 1,000 PSI @ Standpipe.

Uphole Hole:
 WOB 35M @ 80 RPM.

After Mudup / Main Hole:
 WOB 38M @ 75 RPM.

Drill Collars: 6-1/8" x 2.50" -- 524'. (83.5#/ft)
 Dry Collar Weight: 45,754#
 (@ 8.8 ppg / Buoyancy Factor 0.866)
 Bouyancy Collar Weight: 37,891#
 Design Factor: 15%, therefore:
 available WOB is 32,207#
 Drill Pipe: 4-1/2"XH. (16#/ft - used)

BIT RECORD

DATE	SIZE	TYPE	JET SIZE	DEPTH IN / OUT	CUM. FT.	HOURS	ROP
7 Sept 2011	12-1/4"	REED RR	3 / 15's	0' / 268'	268'	1.75	153.1
8 Sept 2011	7-7/8"	JZ QX-21S	13 - 14 - 13	268' / '			

ROCK TYPES

POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

LITHOLOGY

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Granite wash
- Congl
- Dol lmst
- Silty dol

- Calc dol
- Dol 2
- Dol
- Gyp
- Igne
- Lmst 2
- Lmst
- Meta
- Mrlst
- Salt
- Shale 3
- Shale 3
- Shale
- Shcol
- Shgy
- Siltst
- Ss
- Till
- Ss 2

MINERAL

- Mica
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl

MINERAL

- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Copper
- Ooliticastic
- Ooloid
- Oolite
- Sucrosic
- Dark specks

SHOW

- Oil
- Spotted
- Ques
- Dead
- Gas
- Oil/gas
- Bed contact

STRINGER

- Calc dol
- Silty dol
- Anhy

ACCESSORIES

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Spore
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro

- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

MINERAL

- Mica
- 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
- Copper
- Ooliticastic
- Ooloid
- Oolite
- Sucrosic
- Dark specks

STRINGER

- Calc dol

- Silty dol
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Calc dol
- Siltstrg
- Ssstrg
- Chalk
- New symbol

OTHER SYMBOLS

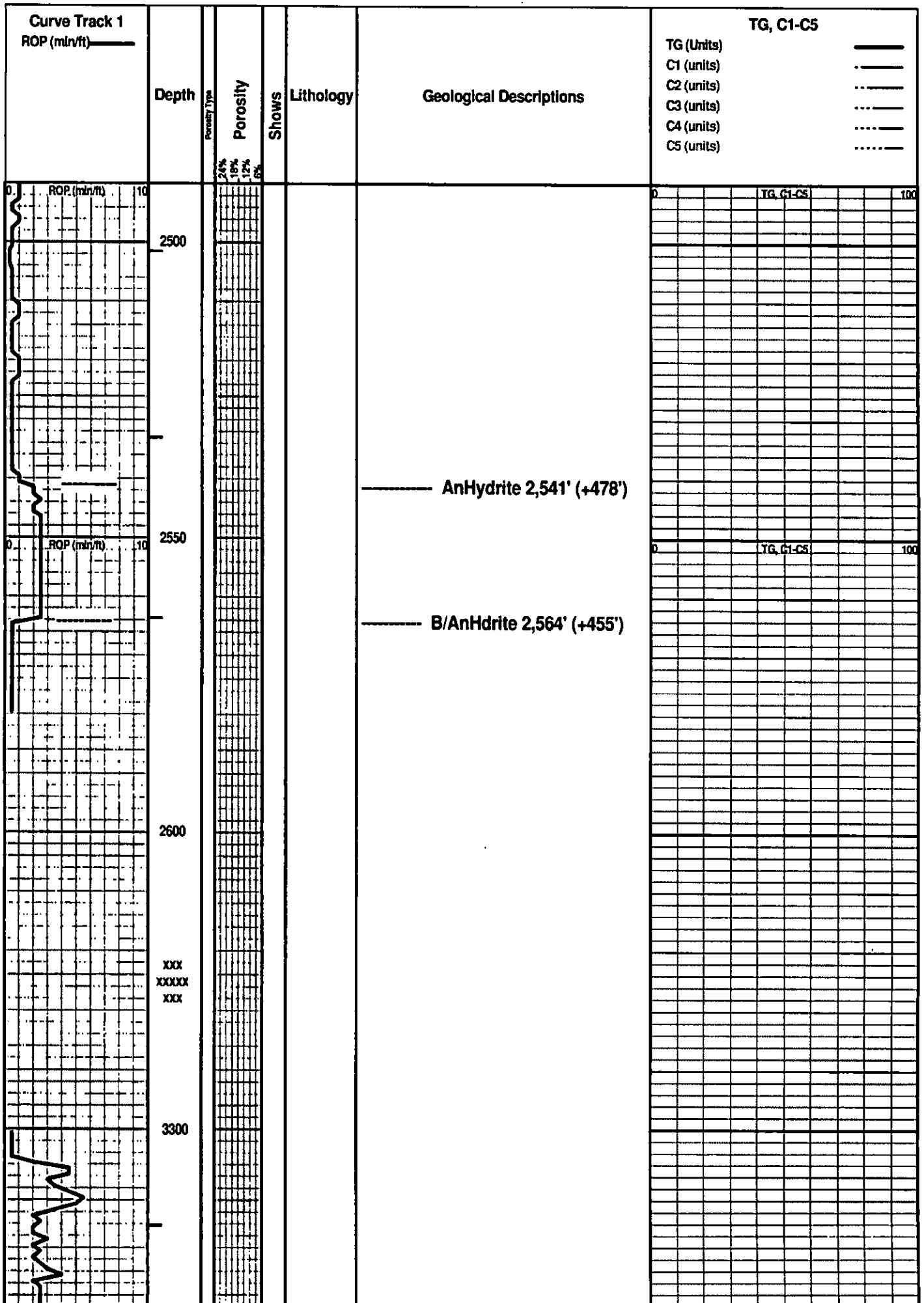
ACTIVITY

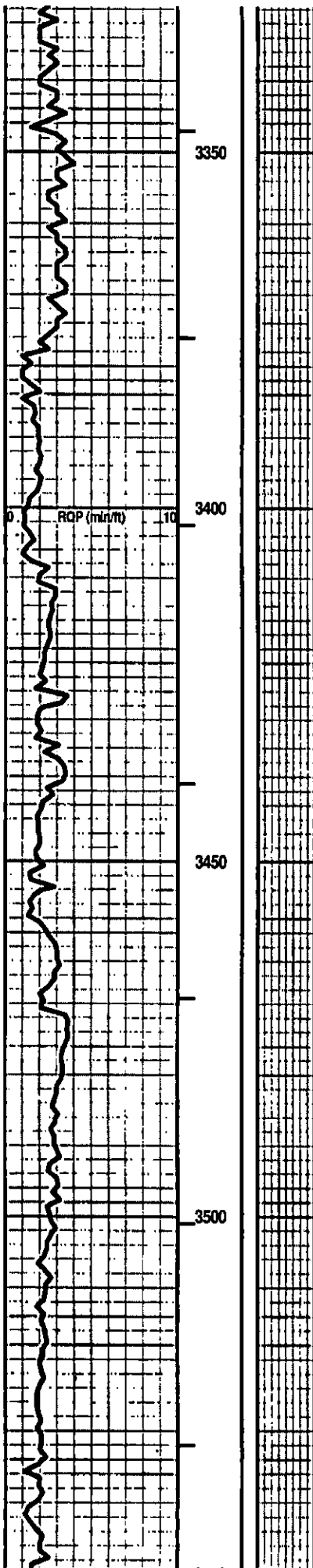
- Lost circluation
- Circulate for sam

- Circulate for sam
- Rtd
- Trip

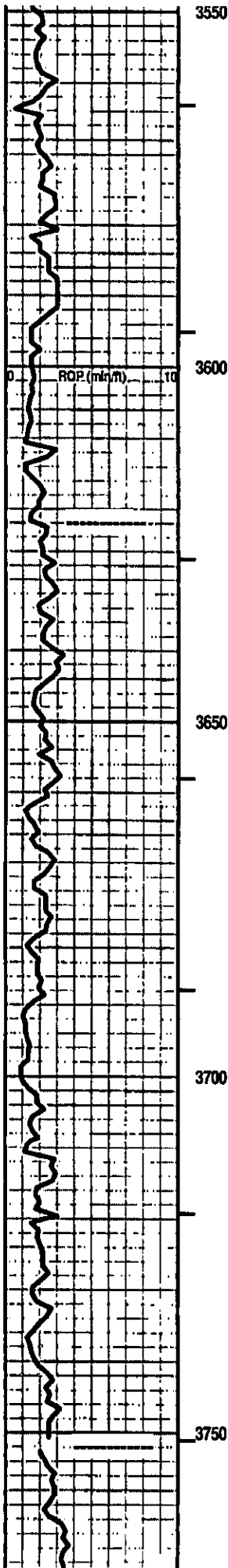
- EVENT
- Connection
- Rft

- Sidewall





<p>Dry Wt of Collars: 43,754# [524' x 83.5#/ft = 43,754#] Drill Collars: 6-1/8" x 2.5" Buoyancy Wt of Collars: 37,891# [43,754# x .866 (8.8ppg) = 37,891#] Available WOB: 32,207# [37,891# x .85 = 32,207#]</p>	
<p>100 units = 1% Gas</p>	
0	TG, G1-C5 100
<p>DISPLACE MUD @ 3,402'</p>	
<p>Weight Indicator Check @ 3,627'</p>	
<p>Dry Wt of:</p>	
<p>DC - (See Above) = 45,341#</p>	
<p>DP - 3,061' x 16#/ft = 48,976#</p>	
<p>Total Dry Wt = 92,730#</p>	
<p>Buoyancy Wt = 80,304# [92,730# x .866 (8.8ppg) = 80,304#]</p>	
<p>Buoyancy Wt + Surface Equipment = String Weight [80,304# + 20,000# = 100,304#] String Weight = 100,304#</p>	
<p>Weight Indicator shows 100M; therefore, weight indicator is okay.</p>	
Vis: 56	WT: 8.6
LCM: 1#	
<p>Contractor reports running 38M# on bit by WI and has actually 38M# WOB.</p>	
<p>-vs- Calculated available WOB of 32,207#.</p>	
Vis: 51	WT: 8.8
LCM: 2#	
<p>How Wire Callibration Check</p>	



Interbedded SH & LS

SH - Lt & Med Gray. tr Tannish Gray to rare Brownish Gray. tr limy streaks. some calc in part. rare fossil frag. soft.

LS - Tan/ tr Pale Gray, some Lt Gray. Sing. XF-/ Micro-xln. xln por. tr subchalky in part. tr argill in part. misc fossil frags & micro-Oolites. partly Firm. No/ tr vis por.

MARL - Grays. HI argil/shaly at top. soft.

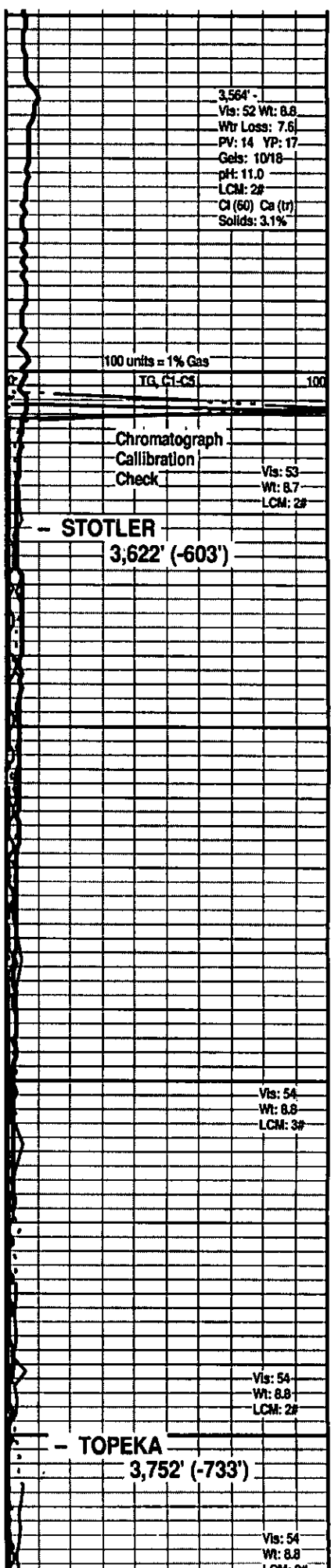
Interbedded SH & LS

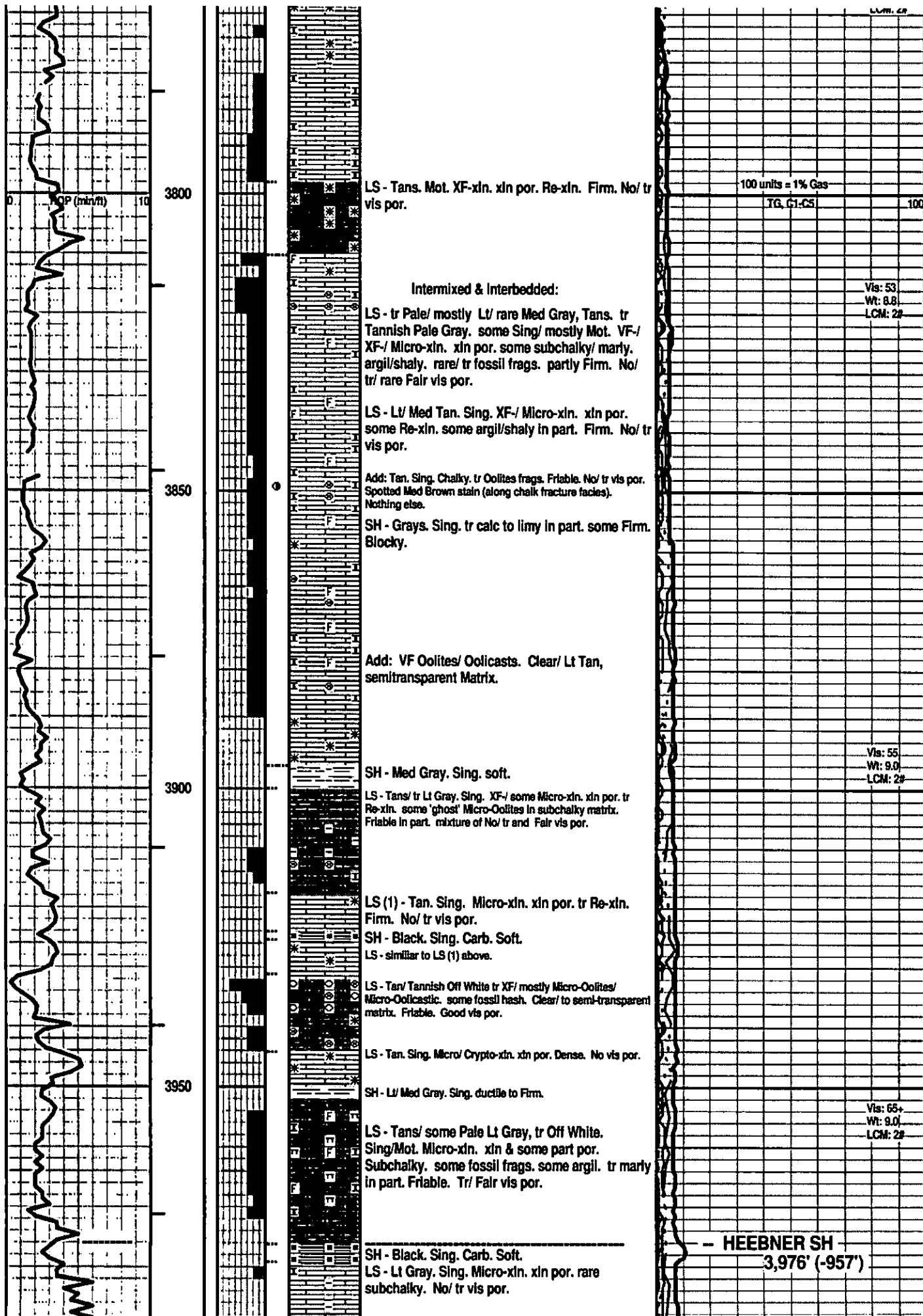
SH - Lt & Med Gray. tr/ some Tannish Gray. tr/ some limy streaks. some calc in part. soft.

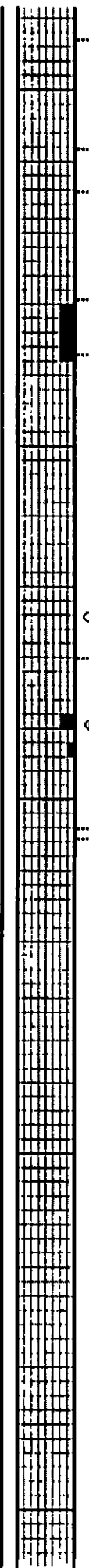
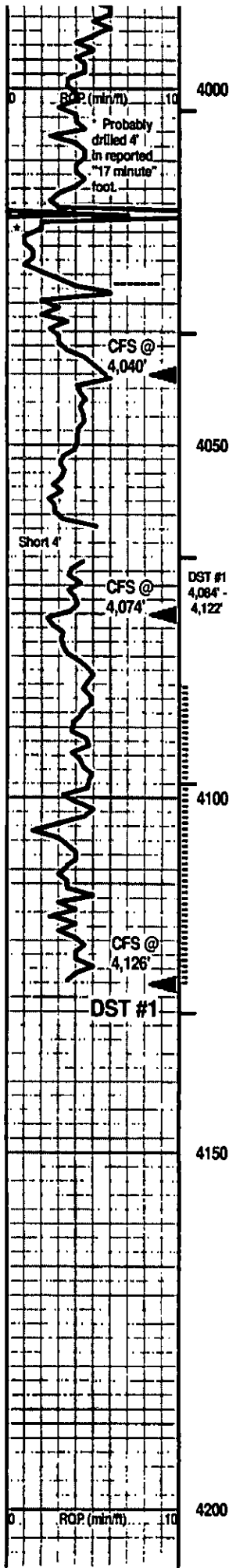
LS - Tans / tr Pale to Lt Grays. Sing. XF-/ some Micro-xln. xln por. rare Re-xln. tr argill in part. subchalky & marly in part and intermixed. No/ tr vis por.

SH - Lt/ Med Gray. Sing. highly limy (Tannish & Pale Gray) to LS stringers (Tan, Micro-xln).

LS - Grays/ Tans. Sing/ some to mostly Mot. XF-/ mostly Micro-xln. xln por. some to lots of subchalky/ chalky. tr/ fair fossil frags in part. some intermixed/ interbedded argill or shale (Med/Dark Gray). Firm. No/ tr vis por.







SH - Med Gray. Sing. Hi marly. Firm. Massive.

LS - Off White/ Tan. Sing/ tr Mot. Micro- xtn. xtn por. mostly Firm. No/ tr vis por

SH - Lt Gray. Sing. tr calc.

LS - Off White/ Tan. Sing/ tr Mot. Micro-xtn. xtn & tr Vuggy por. [some VF Oolites in part, Off White. Clear/ Pale Tan, semitransparent Matrix. Friable. Tr vis por.] some Re-xtn. rare subchaly in part. mostly Firm. No/ tr vis por.

LS - Tans/ tr Lt Gray with depth. Sing/ tr Mot. XF-/ some Micro-xln. xln por. tr Re-xln. Firm at top. No/ tr vis por.

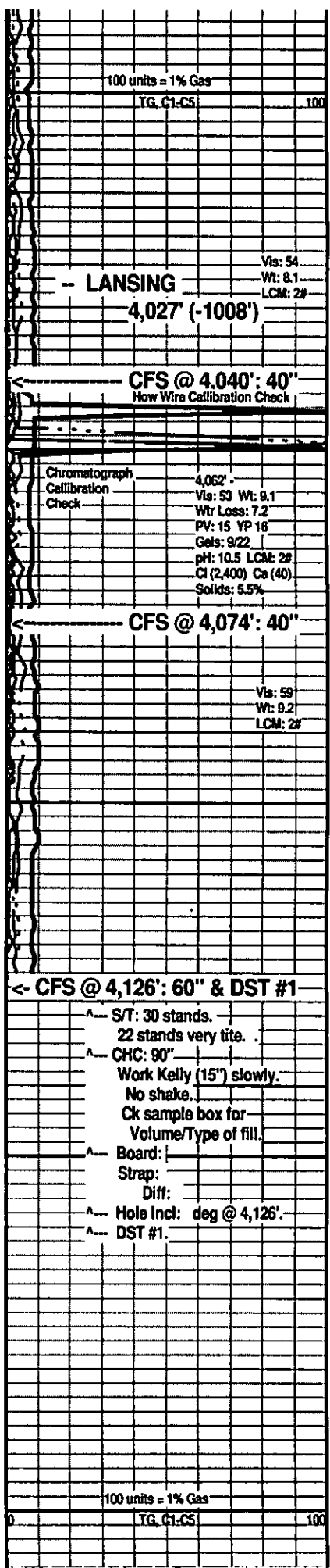
SH - Med Gray. Sing. tr calc.

3 pcs: LS - Tan. Sing. Micro-xtn. xtn & rare vuggy calc filled por. tr Re-xtn. Firm. No/ tr vis por. tr/ some spotted Lt/ Med Brown stain rimming vuggy por. Nothing else.

LS - Tan. Sing. XF-xln. xtn and some XF vuggy por. some minute Re-xtn. [tr/ some CHERT - Gray/ Dark Tan. Sing. Opaque. tr misc inclusions. No tripolitic.] some fossil frags. mostly Firm. tr/ fair vuggy por in part. Faint odor. rare/ Spotted yellow fluorescence. A/C, rare minute Dark Brown free oil spheres floating on wash water. rare gas bubble cling to rx chip. Spotted Med Brown stain. Pos cut/ residual. Pos acid/ residual. rare/ tr Black tarry oil on chert frac face.

SH - Med/ Dark Gray. Sing. Massive. soft.

LS - Lt & Med Tan. Sing/ Mot. XF-/ Micro-xln. xtn & particle por. tr Re-xtn. rare subchaly in part. Firm. No/ tr vis por. No odo





Covey

The Well Watchers

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

Well Name: GRASSLANDS #1
Location: Section 8 - Township 12 South - Range 32 West
Licence Number: 15-109-21,031. 0000 Region: Logan County, KS.
Spud Date: 7 Sept 2011 Drilling Completed:
Surface Coordinates: 1,860' FNL & 1,220' FEL , NE/4
(Approximately SW NW SE NE)
Bottom Hole Coordinates:
Ground Elevation (ft): 3,009 K.B. Elevation (ft): 3,019'
Logged Interval (ft): 3,600' To: Total Depth (ft):
Formation: Stotler -----> Miss (St. Louis)
Type of Drilling Fluid: Chemical; Low Solids (non-dispersed)

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

OPERATOR

Company: NEW GULF OPERATING, LLC.
Address: 6310 East 102nd Street
Tulsa, Oklahoma 74137
(918) 728-3020

POC Geologist:
Joe Baker

GEOLOGIST

Name: Curtis Covey
Company: COVEY - The Well Watchers
Address: 6548 Bedford Circle
Derby, Kansas 67037
Office: (316) 776 - 0367 Cell: (316) 258-9976

KB: 3,019'

FORMATION TOPS

GL: 3,009'

Formation	Rotary Sample Depth (Datum)	E-log Depth (Datum)
Anhydrite	2,541' (+478')	
B / Anhydrite	2,564' (+455')	
Stotler	3,622' (-603')	
Topeka	3,752' (-733')	
Heebner Shale	3,976' (-957')	
Lansing	4,027' (-1,008')	
Muncie Creek SH	NC	
Stark SH	NC	
B / KC	4,330' (-1,311')	
Pawnee LS	4,454' (-1,435')	
Cherokee Sh	4,535' (-1,516')	
'Johnson' Zone	4,568' (-1,549')	
Morrow Sandstone		
Miss (Erosional)		

Loggers:

RTD:

LTD:

ATD:

E-log is
E-log is

to rotary sample depth, uphole.
to rotary sample depth, mid- & down hole sample logged interval.

DST #1 - LANSING

Rotary Depth: 4,070' - 4,126'
 Logger's Depth:

Recovery: 690' Muddy Wtr (2%M, 98%W)
 Gas bubble in wtr - gone by grind
 Total Fluid: 690'

Recovery Water: (59,000 ppm)
 System Water: (2,400 ppm)

IFP: 23# - 134# / 30"
 ISIP: 1,137# / 45"
 FFP: 147# - 327# / 60"
 FSI: 1,137# / 90"
 120 deg F
 MH: 1,964# - 1,962#

IF: BOB in 11 minutes.
 ISI: No Blow back.
 FF: BOB in 14.5 minutes.
 FSI: No Blow Back.

Recovery Water (Engineer): NA

Reported Rw =
 0.18 ohms @ 55 deg F

Diamond Testing ... Hoisington, KS.

2011

DAILY DRILLING STATUS -- SEPTEMBER

2011

12-1/4" Hole

7-7/8" Hole

7-7/8" Hole

7 Sept --- Spud @ 6pm.
 Drill to 268'.
 Run 8-5/8" casing (23#)
 Set casing @ 267'.
 8 --- Cemented w/ 200 sx Class A
 (2% Gel + 3% CC).
 [Allied]
 Cement did circulate.
 Plug down @ 1:45am.
 WOC.

8 Sept --- WOC.
 6:30am @ 268'.
 Under surface casing @ 4:15pm.
 9 --- 6:30am @ 1,415'.
 10 --- 6:30am @ 2,420'.
 11 --- 6:30am @ 3,080'.
 Displace Mud @ 3,402'.
 12 --- 6:30am @ 3,545'.
 13 --- 6:30am @ 4,040'.
 Start and
 14 --- Finish DST #1: Lansing
 (4,070'-4,126').
 6:30am @ 4,126'.
 Resumed Drilling @ 8:30am.
 Drill to 4,383' ... T/O 4 rows ...
 Work on Mud Pump.

15 Sept --- 6:30am @ 4,383'. Work on
 Mud Pump.
 16 --- Start
 6:30am @ 4,600'.
 Finish DST #2: Johnson
 Zone (4,530'-4,600')

HOLE DEVIATION 268' - ')

DEPTH / TVD	INCLINATION	AZIMUTH	NORTH	SOUTH	EAST	WEST	DOGLEG deg/100'
268' /	--- 0.50 (Surface)						
1,197' /	--- 0.75						
2,191' /	--- 1.25						
3,191' /	--- 1.00						
4,122' /	--- 1.00 (DST #1)						

STRAP @ DST #1

Board: 4,130.01'

Strap: 4,137.37'

Diff: 7.36'

CONTRACTOR

VAL Energy -- Rig #4

10,500 E. Berkeley Square Parkway, Suite 1000
 Wichita, Kansas 67230
 Office: (316) 636-2090

Rig #4 - (620) 617-2793

Larry Hinderliter - (620) 804-0097

Pump: National K-500A
 6" x 15" @ 58 SPM.
 800 PSI @ Standpipe.

Uphole Hole:
 WOB 35M @ 80 RPM.

After Mudup / Main Hole:
 WOB 38M @ 75 RPM.

Drill Collars: 6-1/8" x 2.50" -- 524'. (83.5#/ft)
 Dry Collar Weight: 45,754#
 (@ 8.8 ppg / Buoyancy Factor 0.866)
 Bouyancy Collar Weight: 37,891#
 Design Factor: 15%, therefore:
 available WOB is 32,207#
 Drill Pipe: 4-1/2"XH. (16#/ft - used)

BIT RECORD

DATE	SIZE	TYPE	JET SIZE	DEPTH IN / OUT	CUM. FT.	HOURS	ROP
7 Sept 2011	12-1/4"	REED RR	3 / 15's	0' / 268'	268'	1.75	153.1
8 Sept 2011	7-7/8"	JZ QX-21S	13 - 14 - 13	268' / '			

ROCK TYPES

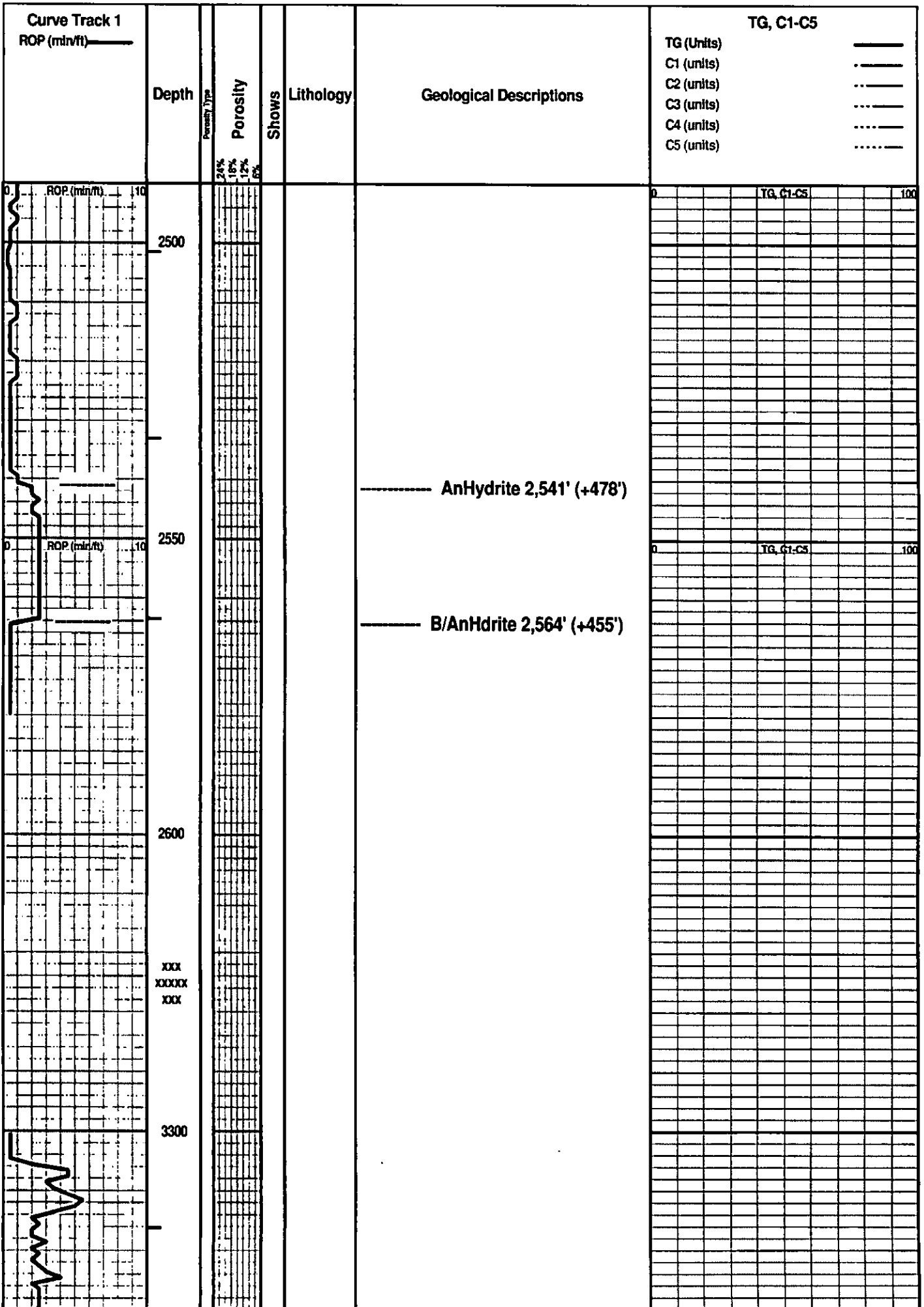
POROSITY LITHOLOGY 		MINERAL 	 STRINGER 	 SHOW
---	--	--------------------	-------------------------	---------------------

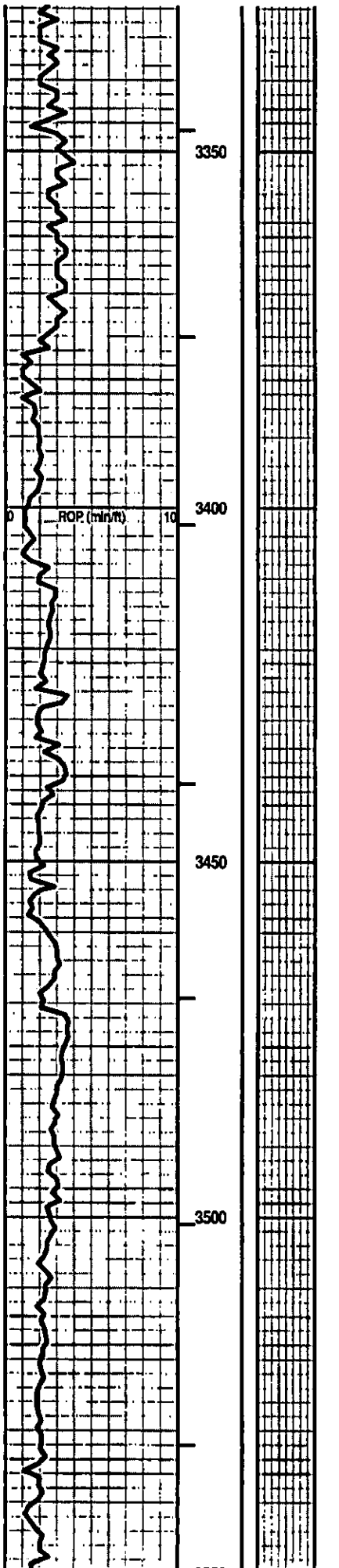
ACCESSORIES

FOSSIL 	 MINERAL 		 STRINGER 	
-------------------	------------------------	--	-------------------------	--

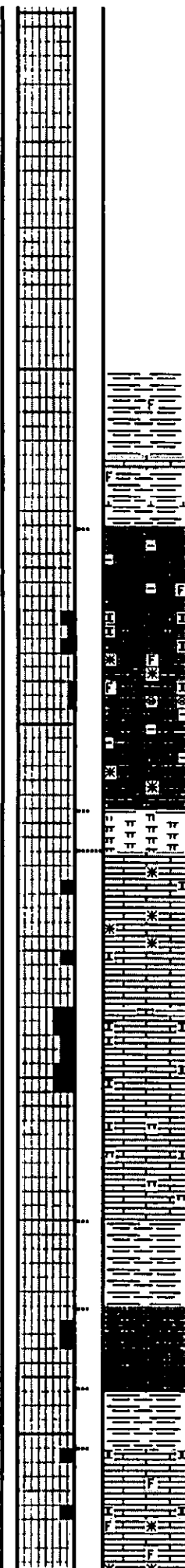
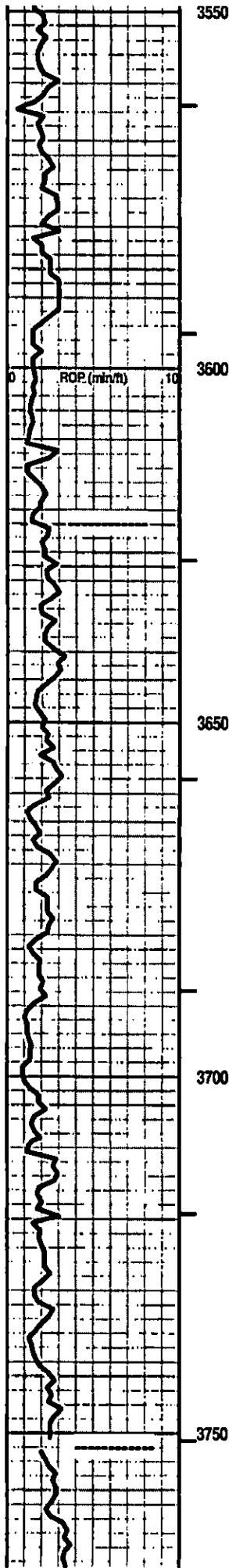
OTHER SYMBOLS

ACTIVITY 		
---------------------	--	--





<p>Dry Wt of Collars: 43,754# [524' x 83.5#/ft = 43,754#] Drill Collars: 6-1/8" x 2.5" Buoyancy Wt of Collars: 37,891# [43,754# x .866 (8.8ppg) = 37,891#] Available WOB: 32,207# [37,891# x .85 = 32,207#]</p>	
<p>100 units = 1% Gas</p>	
0	100
<p>TG, C1-C5</p>	
<p>DISPLACE MUD @ 3,402'</p>	
<p>Weight Indicator Check @ 3,627'</p>	
<p>Dry Wt of:</p>	
<p>DC - (See Above) = 45,341#</p>	
<p>DP - 3,061' x 16#/ft = 48,976#</p>	
<p>Total Dry Wt = 92,730#</p>	
<p>Buoyancy Wt = 80,304# [92,730# x .866 (8.8ppg) = 80,304#]</p>	
<p>Buoyancy Wt + Surface Equipment = String Weight [80,304# + 20,000# = 100,304#] String Weight = 100,304#</p>	
<p>Weight Indicator shows 100M; therefore, weight indicator is okay.</p>	
<p>Contractor reports running 38M# on bit by WI and has actually 38M# WOB.</p>	
<p>-vs-</p>	
<p>Calculated available WOB of 32,207#</p>	
<p>Via: 56 Wt: 8.6 LCM: 1#</p>	
<p>Via: 51 Wt: 8.8 LCM: 2#</p>	
<p>How Wire Calibration Check</p>	



Interbedded SH & LS

SH - Lt & Med Gray. tr Tannish Gray to rare Brownish Gray. tr limy streaks. some calc in part. rare fossil frag. soft.

LS - Tan/ tr Pale Gray, some Lt Gray. Sing. XF-/ Micro-xln. xln por. tr subchalky in part. tr argil in part. misc fossil frags & micro-Oolites. partly Firm. No/ tr vis por.

MARL - Grays. Hl argil/shaly at top. soft.

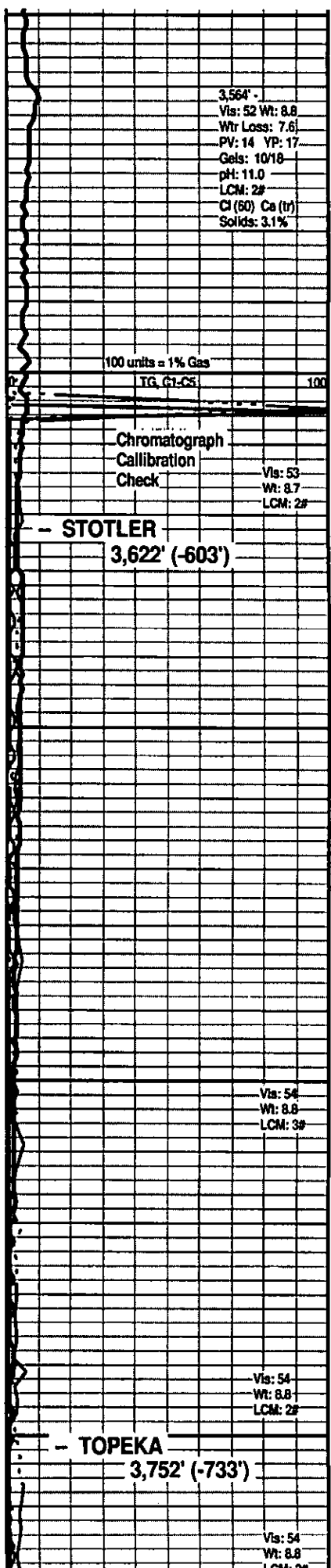
Interbedded SH & LS

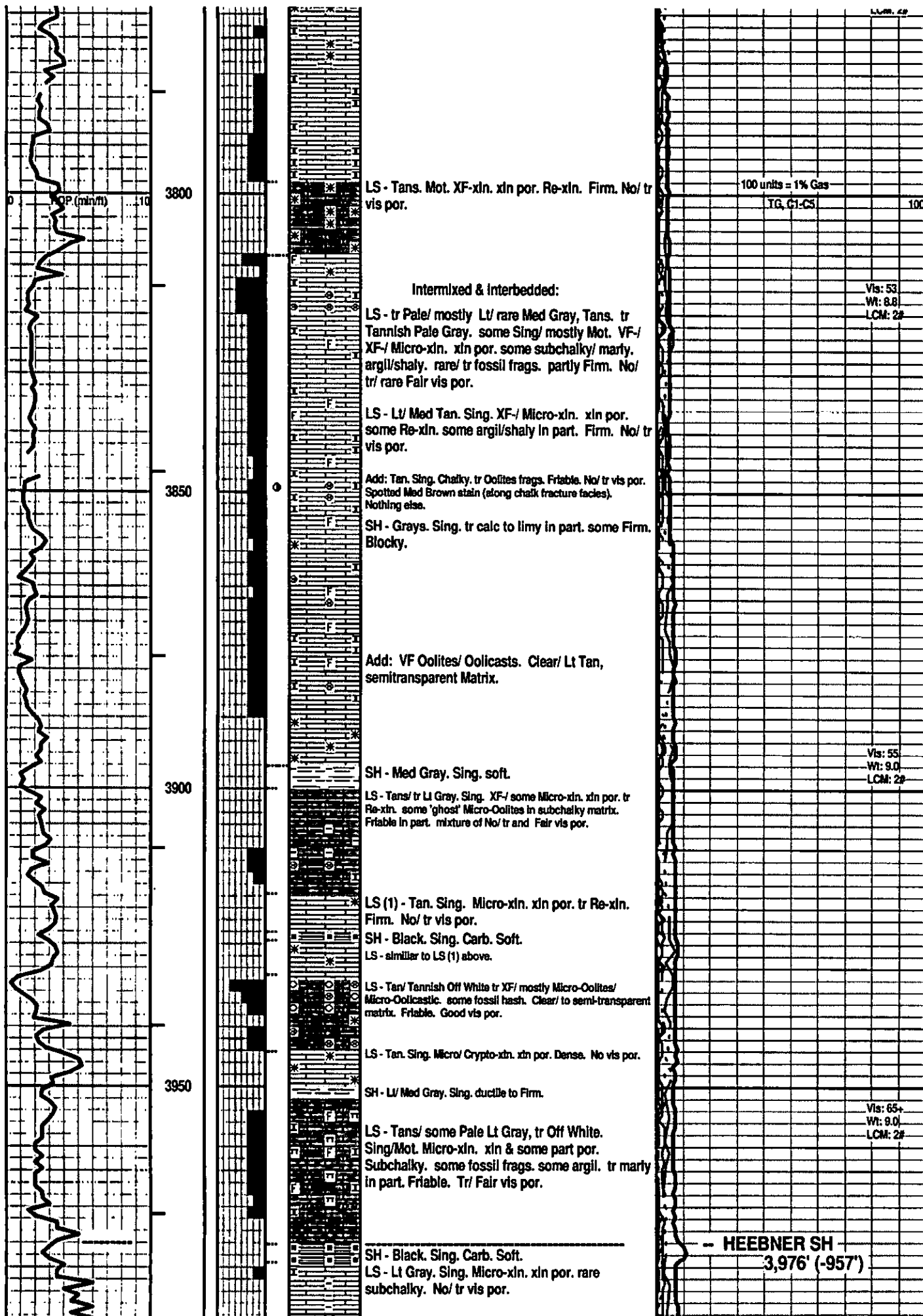
SH - Lt & Med Gray. tr/ some Tannish Gray. tr/ some limy streaks. some calc in part. soft.

LS - Tans / tr Pale to Lt Grays. Sing. XF-/ some Micro-xln. xln por. rare Rø-xln. tr argil in part. subchalky & marty in part and intermixd. No/ tr vis por.

SH - Lt/ Med Gray. Sing. highly limy (Tannish & Pale Gray) to LS stringers (Tan, Micro-xln).

LS - Grays/Tans. Sing/ some to mostly Mot. XF-/ mostly Micro-xln. xln por. some to lots of subchalky/ chalky. tr/ fair fossil frags in part. some intermixed/ interbedded argil or shale (Med/Dark Gray). Firm. No/ tr vis por.





100 units = 1% Gas
TG, G1-C5 100

Vis: 53
Wt: 8.8
LCM: 28

Vis: 55
Wt: 9.0
LCM: 28

Vis: 65+
Wt: 9.0
LCM: 28

-- HEEBNER SH
3,976' (-957')

LS - Tans. Mot. XF-xln. xln por. Re-xln. Firm. No/ tr vis por.

Intermixed & interbedded:

LS - tr Pale/ mostly Lt/ rare Med Gray, Tans. tr Tannish Pale Gray. some Sing/ mostly Mot. VF-/ XF-/ Micro-xln. xln por. some subchalky/ marly. argil/shaly. rare/ tr fossil frags. partly Firm. No/ tr/ rare Fair vis por.

LS - Lt/ Med Tan. Sing. XF-/ Micro-xln. xln por. some Re-xln. some argil/shaly in part. Firm. No/ tr vis por.

Add: Tan. Sing. Chalky. tr Oolites frags. Friable. No/ tr vis por. Spotted Med Brown stain (along chalk fracture facies). Nothing else.

SH - Grays. Sing. tr calc to limy in part. some Firm. Blocky.

Add: VF Oolites/ Oolcasts. Clear/ Lt Tan, semitransparent Matrix.

SH - Med Gray. Sing. soft.

LS - Tans/ tr Lt Gray. Sing. XF-/ some Micro-xln. xln por. tr Re-xln. some 'ghost' Micro-Oolites in subchalky matrix. Friable in part. mixture of No/ tr and Fair vis por.

LS (1) - Tan. Sing. Micro-xln. xln por. tr Re-xln. Firm. No/ tr vis por.

SH - Black. Sing. Carb. Soft.

LS - similar to LS (1) above.

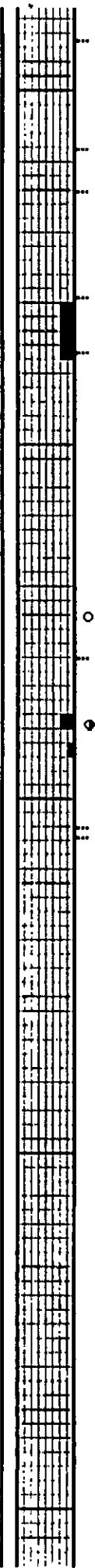
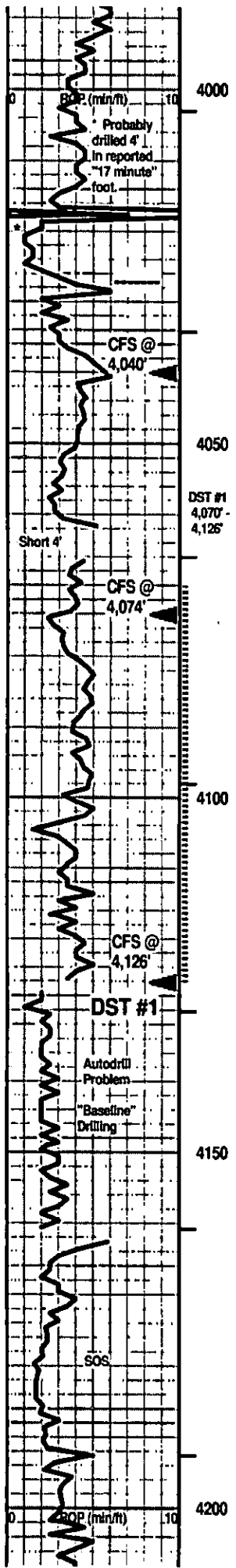
LS - Tan/ Tannish Off White tr XF/ mostly Micro-Oolites/ Micro-Oolcastic. some fossil hash. Clear/ to semi-transparent matrix. Friable. Good vis por.

LS - Tan. Sing. Micro/ Crypto-xln. xln por. Dense. No vis por.

SH - Lt/ Med Gray. Sing. ductile to Firm.

LS - Tans/ some Pale Lt Gray, tr Off White. Sing/Mot. Micro-xln. xln & some part por. Subchalky. some fossil frags. some argil. tr marly in part. Friable. Tr/ Fair vis por.

SH - Black. Sing. Carb. Soft.
LS - Lt Gray. Sing. Micro-xln. xln por. rare subchalky. No/ tr vis por.



SH - Med Gray. Sing. Hi marly. Firm. Massive.

LS - Off White/ Tan. Sing/ tr Mot. Micro-xin. xin por. mostly Firm. No/ tr vis por

SH - Lt Gray. Sing. tr calc.

LS - Off White/ Tan. Sing/ tr Mot. Micro-xin. xin & tr Vuggy por. [some VF Oolites in part, Off White. Clear/ Pale Tan, semi-transparent Matrix. Friable. Tr vis por.] some Re-xin. rare subchaly in part. mostly Firm. No/ tr vis por.

LS - Tans/ tr Lt Gray with depth. Sing/ tr Mot. XF-/ some Micro-xin. xin por. tr Re-xin. Firm at top. No/ tr vis por.

SH - Med Gray. Sing. tr calc.

3 pcs: LS - Tan. Sing. Micro-xin. xin & rare vuggy calc filled por. tr Re-xin. Firm. No/ tr vis por. tr/ some spotted Lt/Med Brown stain rimming vuggy por. Nothing else.

LS - Tan. Sing. XF-xin. xin and some XF vuggy por. some minute Re-xin. [tr/ some CHERT - Gray/ Dark Tan. Sing. Opaque. tr misc Inclusions. No tripolitic.] some fossil frags. mostly Firm. tr/ fair vuggy por in part. Faint odor. rare/ Spotted yellow fluorescence. A/C, rare minute Dark Brown free oil spherules floating on wash water. rare gas bubble cling to rx chip. Spotted Med Brown stain. Pos cut/ residual. Pos acid/ residual. rare/ tr Black tarry oil on chert frac face.

SH - Med/ Dark Gray. Sing. Massive. soft.

LS - Lt & Med Tan. Sing/ Mot. XF-/ Micro-xin. xin & particle por. tr Re-xin. rare subchaly in part. Firm. No/ tr vis por. No odo

Misc LS - Lt/ Med Tan. Sing/ tr Mot. XF-/ Micro-xin. xin por. subchaly in part. Friable in part.

4,180' & 4,190' Sample has SH - Black. sing. carb. few pcs: Black shale rimmed LS frags.

LS - Tans/ rare Off White. Sing. XF-/ Micro-xin. xin por. some subchaly. tr Re-xin. [few pcs CHERT - Dark Tan/ some Med Tan. Sing. Opaque. No inclusions or tripolitic.] partly Firm. No/ tr vis por.

Interbedded/ Intermixed with CM - Med/ Dark Gray. Sing.

100 units = 1% Gas
TG, C1-C5 100

Vis: 54
Wt: 8.1
LCM: 2#

LANSING
4,027' (-1008')

CFS @ 4,040': 40"
How Wire Calibration Check

Chromatograph 4,062'
Calibration Vis: 53 Wt: 8.1
Check Wtr Loss: 7.2
PV: 15 YP 16
Gels: 9/22
pH: 10.5 LCM: 2#
Cl (2,400) Ca (40)
Solids: 5.5%

CFS @ 4,074': 40"

DST #1 - LANSING Vis: 59
4,070' - 4,126' Wt: 9.2
LCM: 2#

Rec:
690' Muddy Wtr
(2%AA, 98%W)
Gas bubble in wtr -
gone by grind

IFP: 23# - 134#/30"
ISIP: 1,137# / 45"
FFP: 147# - 327# / 60"
FSIP: 1,137# / 90"
120 deg F
MH: 1,964# - 1,962#

CFS @ 4,126': 60" & DST #1

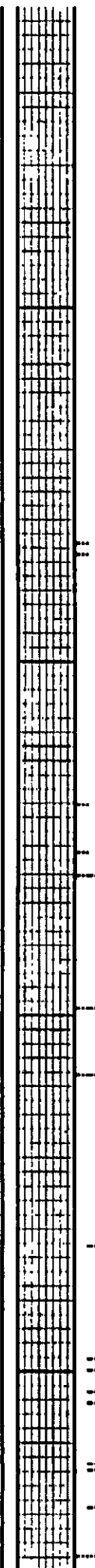
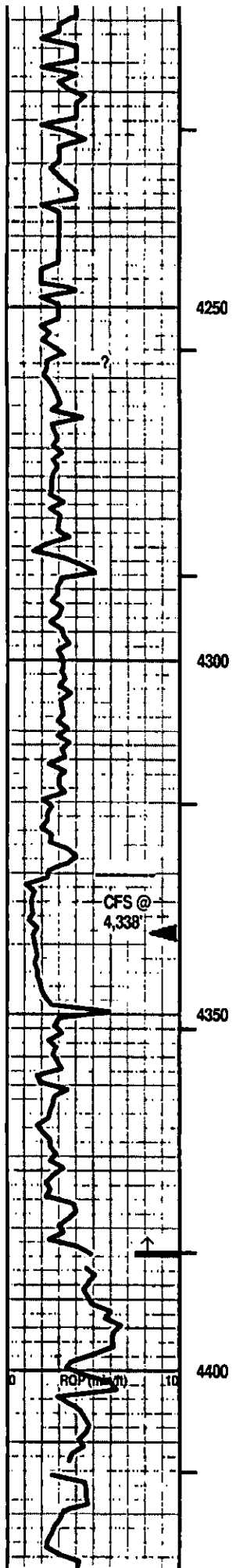
S/T: 30 stands.
22 stands pulled tite.
CHC: 90"
Wor12 Kelly (15") slowly.
No shaka.
Check Sample Box (15")
for Volume/Type of Fill.
Strap: 4,137.37
Board: 4,130.01
Diff: 7.36"
Hole Dev: 1 deg @ 4,126'.
DST #1

Misc Uphole Cavings

Vis: 55
Wt: 9.2
LCM: 2#

100 units = 1% Gas
TG, C1-C5 100

Misc Uphole Cavings



LS - Li Gray/ some Tan & Off White . Sing. Crypto-xln. tr vuggy por. Firm. tr/some vis por.

SH - Black. Sing. Carb. Soft.

SH - Black Sing. Carb. Soft.

LS (3) - Li & Med Tan/ some Grays. Sing/ some Mot. XF/ Micro-xln. xln por. some Re-xln. [subchalky at depth/ Friable.] tr fossil frags. some argil & shale in part/ interbedded. Firm. No/ tr vis por.

SH - Black. Sing. Carb. Soft.

SH - Med Gray. Sing. tr calc. some Firm.

LS - similar to (3) above. tr rubble.

Interbedded SH, Marl & LS

SH - Grays / Pale Off whitish Gray. Sing. some calc. some marly in part.

Marl - Off White/ Reddish hue Off White. silt sized, SA qtz grains floating in marl matrix.

LS - Tans/ Grays. Sing/ some Mot. XF/ Micro-xln. xln por. some Re-xln. tr fossil frags. some argil in part/ interbedded. Firm. No/ tr vis por.

LS - Tans/ Li Gray. Sing/ some Mot. XF/ Micro-xln. xln por. some Re-xln. tr argil in part. Firm. No/ tr vis por.

SH - Black. Sing. Carb. Soft.

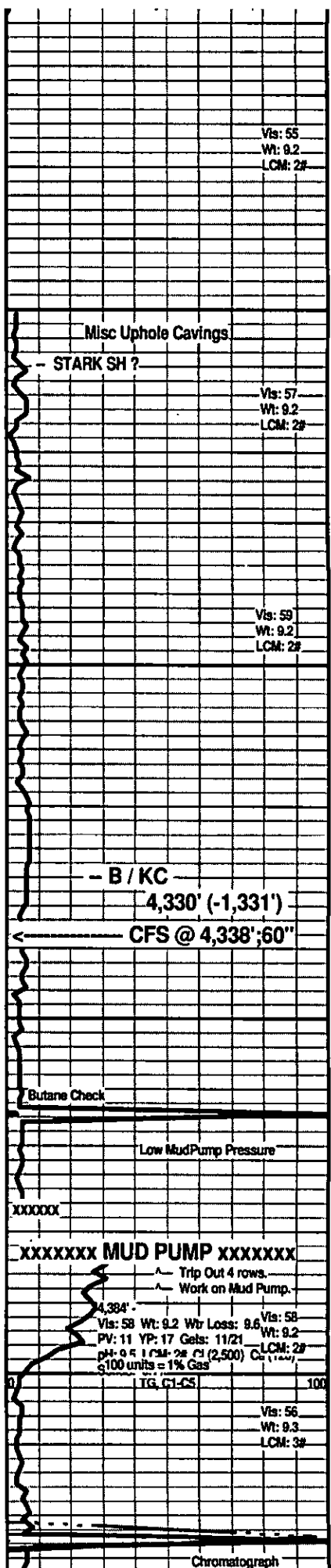
interbedded LS & SH

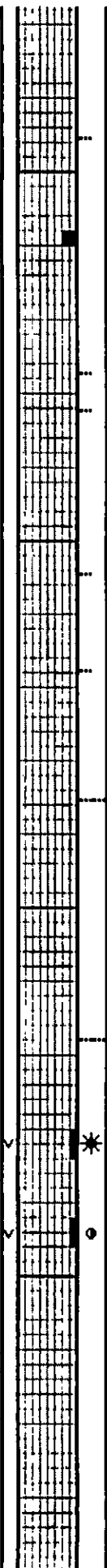
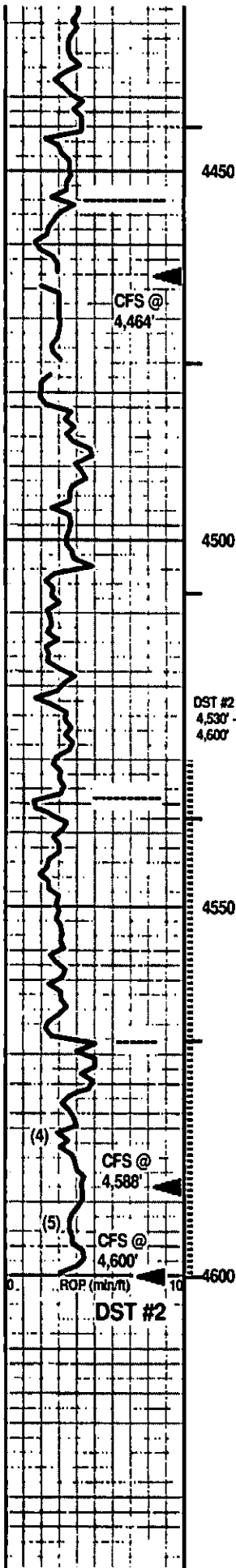
LS - Tans/ Li & Gray. Sing/ some Mot. tr XF/ mostly Micro-xln. xln por. some Re-xln. tr argil/shaly in part. tr fossil frags in part. subchalky (marly). Firm in part. No/ tr vis por.

SH - Black. Sing. carb. tr fissile.

SH - Grays. some Bluish Gray. some highly limy/ LS streaks.

LS - Tans/ some Grays. Sing/ some Mot. tr XF/ mostly





Micro-xln. xln por. some Re-xln. tr argil/shaly in part. subchalky (marly). Firm at top. No/ tr vis por.

LS - Tans/ some Lt Gray. Sing/ Mot. XF-/ some Micro-xln. xln & part por. tr Re-xln. [some Chert - Silvery Whitish Gray/ Off White/ rare Tan. Mot. misc minute Off White fossil inclusions. No tripolitic/ 'fresh'.] mostly Firm. tr ls 'rubble'. tr argil. minute pyritic xtals. No/ tr vis por.

SH - Black. Sing. carb. tr fissile.

LS - Tans/ some Off White. Sing/ tr Mot. . XF-xln/ Micro-xln. xln por. tr Re-xln. subchalky in part. some argil. Friable at break. mostly No/ tr vis por

SH - Black. Sing. carb. tr pyritic. soft

MARL - L/ Med Gray. Sing. soft. tr misc LS frags.

LS - Tan/ Pale Lt Gray/ some Off White. Sing/ tr Mot. XF-/ Micro-xln. xln por. tr Re-xln. tr argil in part. [some LS& Argil frags - Med/ Dark Tan, Dark Gray. VF/ XF. SA.] Firm. No/ tr vis por.

Interbedded SH & LS

SH - Black. Sing. carb. soft.

LS - Tan/ Pale Lt Gray/ rare Off White. Sing/ tr Mot. XF-/ Micro-xln. xln por. tr Re-xln. tr argil in part. [some LS& Argil frags - Med/ Dark Tan, Dark Gray. VF/ XF. SA.] Firm. No/ tr vis por.

LS (4) - Med/ Dark Tan, rare Lt Brown in part. Lt Tan at top. some Lt Gray. Sing/ tr Mot. XF-/ mostly Micro- & tr Crypto-xln. xln & some vuggy, irregular por. some subehedral xtals. Re-xln. some fossil frags. some interbedded Gray shale. mostly Firm. tr/ Fair, some Good vis por. Good odor. Spotted/ Uniform Med Yellow fluorescence.

few pcs: LS (5) - similar to (4) above. Irregular, spotted vuggy por. No? odor. Spotted Yellow fluorescence. No free oil or gas. Spotted Med Brown stain. Weak Pos cut/ residual. Weak Pos acid/ residual.

Calibration Check

Vis: 56
Wt: 9.3
LCM: 2#

- PAWNEE
4,454' (-1,435')

CFS @ 4,464'; 60"

Air out Mud Pump

How Wire Calibration Check

- CHEROKEE SH
4,535' (-1,516')

Vis: 55
Wt: 9.2
LCM: 2#

- JOHNSON ZONE
4,568' (-1,549')

LS (4) - On own & after crushing, rare minute gas bubbles. tr free Med Brown oil clinging to rx chip and floating on wash water. Spotted Lt Brown stain. Pos cut/ residual. Pos acid/ residual

CFS @ 4,588': 60"

Vis: 56
Wt: 9.3+
LCM: 2#

CFS @ 4,600': 60" & DST #2

100 units = 1% Gas

S/T: 10 stands.

CHC: 75"

Wor12 Kelly (15") slowly.
No shake.
Check Sample Box (15")
for Volume/Type of Fill.

DST #2

Covey

The Well Watchers

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

Well Name: GRASSLANDS #1
Location: Section 8 - Township 12 South - Range 32 West
Licence Number: 15-109-21,031. 0000 Region: Logan County, KS.
Spud Date: 7 September 2011 Drilling Completed: 17 September 2011
Surface Coordinates: 1,860' FNL & 1,220' FEL , NE/4
(Approximately SW NW SE NE)

Bottom Hole
Coordinates:
Ground Elevation (ft): 3,009 K.B. Elevation (ft): 3,019'
Logged Interval (ft): 3,600' To: 4,720' Total Depth (ft): 4,720'
Formation: Stotler -----> Miss (St. Louis)
Type of Drilling Fluid: Chemical; Low Solids (non-dispersed)

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

OPERATOR

Company: NEW GULF OPERATING, LLC.
Address: 6310 East 102nd Street
Tulsa, Oklahoma 74137
(918) 728-3020
POC Geologist:
Joe Baker

GEOLOGIST

Name: Curtis Covey
Company: COVEY - The Well Watchers
Address: 6548 Bedford Circle
Derby, Kansas 67037
Office: (316) 776 - 0367 Cell: (316) 258-9976

KB: 3,019'

FORMATION TOPS

GL: 3,009'

Formation	Rotary Sample Depth (Datum)	E-log Depth (Datum)
Anhydrite	2,541' (+478')	2,543' (+476')
B / Anhydrite	2,564' (+455')	2,564' (+455')
Stotler	3,622' (-603')	3,625' (-603')
Topeka	3,752' (-733')	3,754' (-735')
Heebner Shale	3,976' (-957')	3,978' (-959')
Lansing	4,027' (-1,008')	4,018' (-999')
Muncie Creek SH	NC	4,168' (-1,149')
Stark SH	NC	4,246' (-1,227')
B / KC	4,330' (-1,311')	4,332' (-1,313')
Pawnee LS	4,454' (-1,435')	4,460' (-1,441')
Cherokee Sh	4,535' (-1,516')	4,538' (-1,516')
'Johnson' Zone	4,568' (-1,549')	4,572' (-1,553')
Morrow SH	4,606' (-1,587')	4,610' (-1,621')
Miss (Erosional)	4,635' (-1,616')	4,640' (-1,621')
Miss (Lithological)	4,649' (-1,630')	4,654' (-1,635')

Loggers:
Superior Well Services - Hays, Kansas

RTD: 4,720' LTD: 4,724' ATD: 4,724' E-log is 0' - 2' high to rotary sample depth, uphole.
E-log is 3' - 4' high to rotary sample depth, mid- & down hole sample logged interval.

DST #1 - LANSING

Rotary Depth: 4,070' - 4,126'
 Logger's Depth: 4,073' - 4,129'

Recovery: 690' Muddy Wtr (2%M, 98%W)
 Gas bubble in wtr - gone by grind
 Total Fluid: 690'

Recovery Water: (59,000 ppm)
 System Water: (2,400 ppm)

IFP: 23# - 134# / 30"
 ISIP: 1,137# / 45"
 FFP: 147# - 327# / 60"
 FSIP: 1,137# / 90"
 120 deg F
 MH: 1,964# - 1,962#

IF: BOB in 11 minutes.
 ISI: No Blow back.
 FF: BOB in 14.5 minutes.
 FSI: No Blow Back.

Recovery Water (Engineer):
 (51,000 ppm)
 Reported Rw =
 0.18 ohms @ 55 deg F

Diamond Testing ... Hoisington, KS.

DST #2 - 'JOHNSON' ZONE

Rotary Depth: 4,530' - 4,600'
 Logger's Depth: 4,534' - 4,604'

Recovery: 2,103' Muddy Water (2%M, 98%W)
 Gas bubble in wtr - gone by grind
 Total Fluid: 2,103'

Recovery Water: (29,000 ppm)
 System Water: (3,200 ppm)

IFP: 93# - 684# / 30"
 ISIP: 1,089# / 45"
 FFP: 700# - 958# / 63"
 FSIP: 1,088# / 45"
 115 deg F
 MH: 2,207# - 2,206#

IF: BOB in 2 minutes.
 ISI: No Blow back.
 FF: BOB in 2-1/4 minutes.
 FSI: No Blow Back.

Recovery Water (Engineer):
 (13,000 ppm)
 Reported Rw =
 0.29 ohms @ 59 deg F

Diamond Testing ... Hoisington, KS.

2011

DAILY DRILLING STATUS -- SEPTEMBER

2011

12-1/4" Hole

7-7/8" Hole

7-7/8" Hole

7 Sept -- Spud @ 6pm.
 Drill to 268'.
 Run 8-5/8" casing (23#)
 Set casing @ 267'.
 8 -- Cemented w/ 200 sx Class A
 (2% Gel + 3% CC).
 [Allied]
 Cement did circulate.
 Plug down @ 1:45am.
 WOC.

8 Sept -- WOC.
 6:30am @ 268'.
 Under surface casing @ 4:15pm.
 9 -- 6:30am @ 1,415'.
 10 -- 6:30am @ 2,420'.
 11 -- 6:30am @ 3,080'.
 Displace Mud @ 3,402'.
 12 -- 6:30am @ 3,545'.
 13 -- 6:30am @ 4,040'.
 Start and
 14 -- Finish DST #1: Lansing
 (4,070'-4,126').
 6:30am @ 4,126'.
 Resumed Drilling @ 8:30am.
 Drill to 4,383' ... T/O 4 rows ...
 Work on Mud Pump.

15 Sept -- 6:30am @ 4,383'. Work on
 Mud Pump.
 16 -- Start
 6:30am @ 4,600'.
 Finish DST #2: Johnson
 Zone (4,530'-4,600')
 Resumed Drilling @ 9:08am.
 17 -- RTD *4,720' @ 3:30am.
 E-Log.
 [Superior Well Services]

HOLE DEVIATION 268' - 4,720')

DEPTH / TVD	-- INCLINATION	AZIMUTH	NORTH	SOUTH	EAST	WEST	DOGLEG deg/100'
268' /	-- 0.50 (Surface)						
1,197' /	-- 0.75						
2,191' /	-- 1.25						
3,191' /	-- 1.00						
4,122' /	-- 1.00 (DST #1)						
4,600' /	-- 1.00 (DST #2)						
4,720' /	-- 1.00 (RTD)						

STRAP @ DST #1

Board: 4,130.01'
 Strap: 4,137.37'
 Diff: 7.36'

CONTRACTOR

VAL Energy — Rig #4

10,500 E. Berkeley Square Parkway, Suite 1000
Wichita, Kansas 67230
Office: (316) 636-2090

Rig #4 - (620) 617-2793

Larry Hindertler - (620) 804-0097

Pump: National K-500A
6" x 15" @ 58 SPM.
800-950 PSI @ Standpipe.

Uphole Hole:
WOB 35M @ 80 RPM.

After Mudup / Main Hole:
WOB 38M @ 75 RPM.

Drill Collars: 6-1/8" x 2.50" — 524'. (83.5#/ft)
Dry Collar Weight: 45,754#
(@ 8.8 ppg / Buoyancy Factor 0.866)
Buoyancy Collar Weight: 37,891#
Design Factor: 15%, therefore:
available WOB is 32,207#
Drill Pipe: 4-1/2"XH. (16#/ft - used)

BIT RECORD

DATE	SIZE	TYPE	JET SIZE	DEPTH IN / OUT	CUM. FT.	HOURS	ROP
7 Sept 2011	12-1/4"	REED RR	3 / 15's	0' / 268'	268'	1.75	153.1
8 Sept 2011	7-7/8"	JZ QX-21S	13 - 14 - 13	268' / 4,600'	4,332'	109.50	39.6
16 Sept 2011	7-7/8"	JZ QX-29SX	13 - 14 - 13	4,600' / 4,720'	120'	5.25	22.9

ROCK TYPES

POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

LITHOLOGY

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Granite wash
- Congl
- Dol lmst
- Silty dol

- Calc dol
- Dol 2
- Dol
- Gyp
- Igne
- Lmst 2
- Lmst
- Meta
- Mrlst
- Salt
- Shale 3
- Shale 3
- Shale
- Shcol
- Shgy
- Sltst
- Ss
- Till
- Ss 2

MINERAL

- Mica
- 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
- Copper
- Ooliticastic
- Ooloid
- Oolite
- Sucrosic
- Dark specks

STRINGER

- Calc dol
- Silty dol
- Anhy

- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Calc dol
- Sltstrg
- Ssstrg
- Chalk
- New symbol
- SHOW
- Oil
- Spotted
- Ques
- Dead
- Gas
- Oil/gas
- Bed contact

ACCESSORIES

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Spore
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro

- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

MINERAL

- Mica
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag

- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymn
- Kaol
- Marl
- Minxl
- Nodule
- Phos

- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Copper
- Ooliticastic
- Ooloid
- Oolite
- Sucrosic
- Dark specks

- Silty dol
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Calc dol
- Sltstrg
- Ssstrg
- Chalk
- New symbol

- STRINGER**
Calc dol

OTHER SYMBOLS

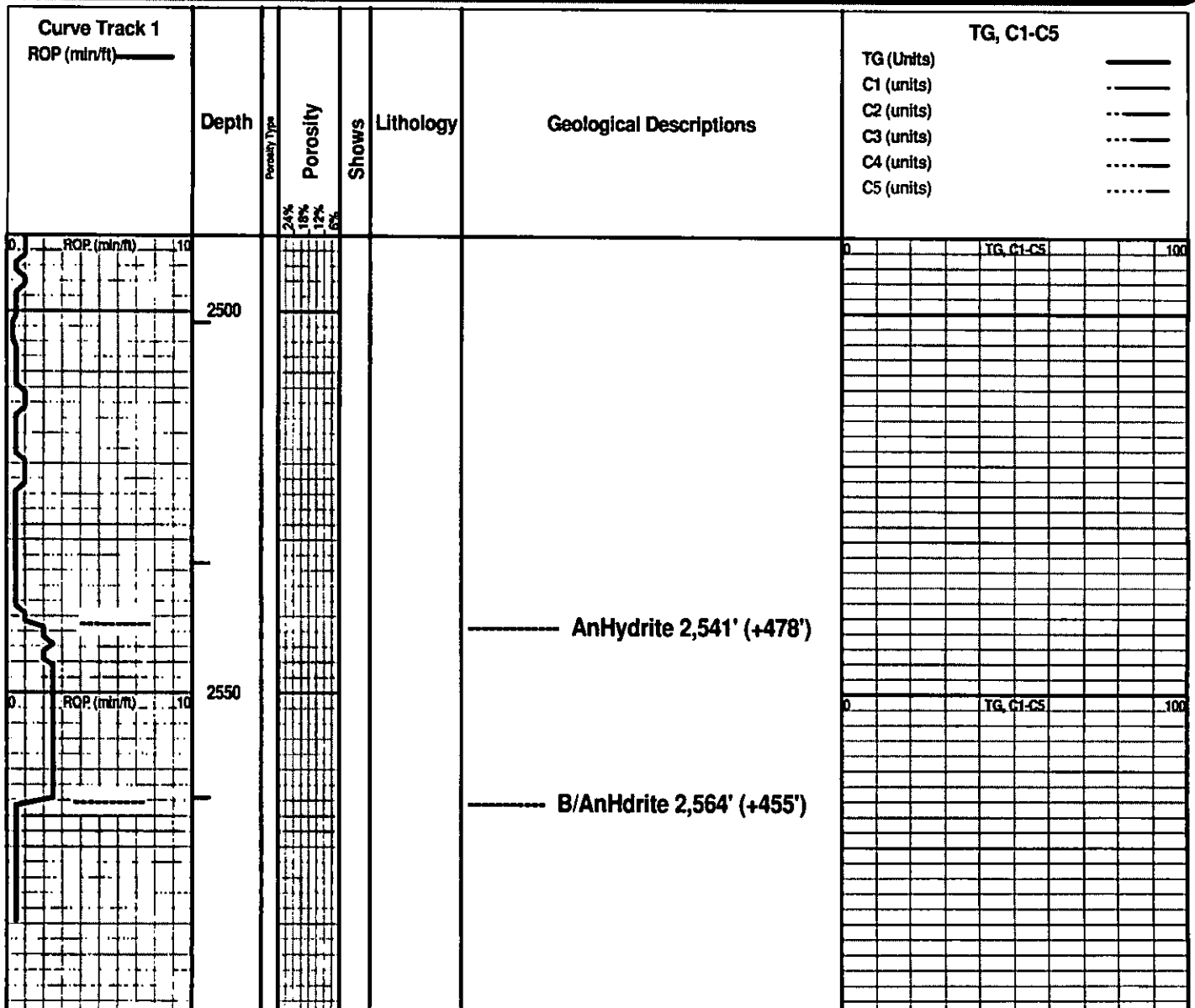
ACTIVITY

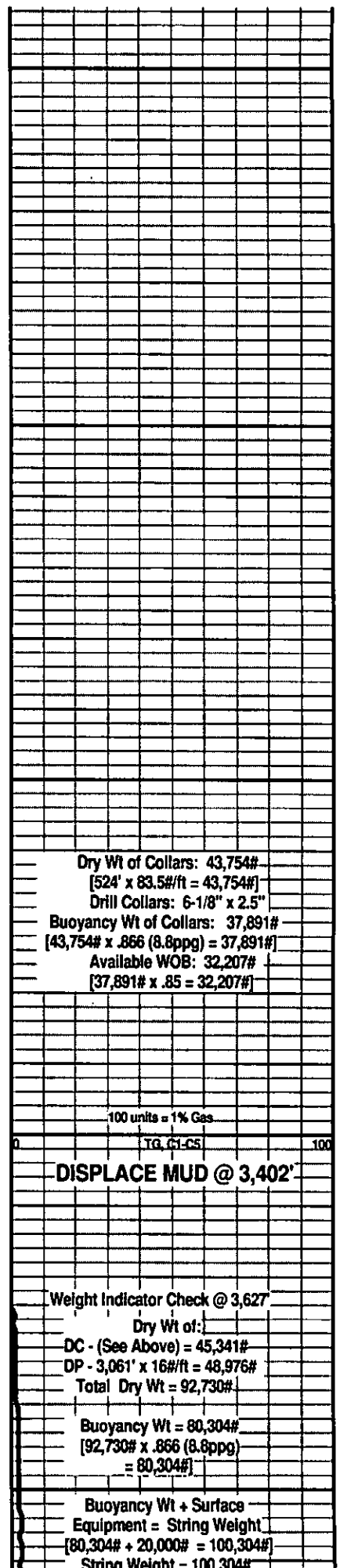
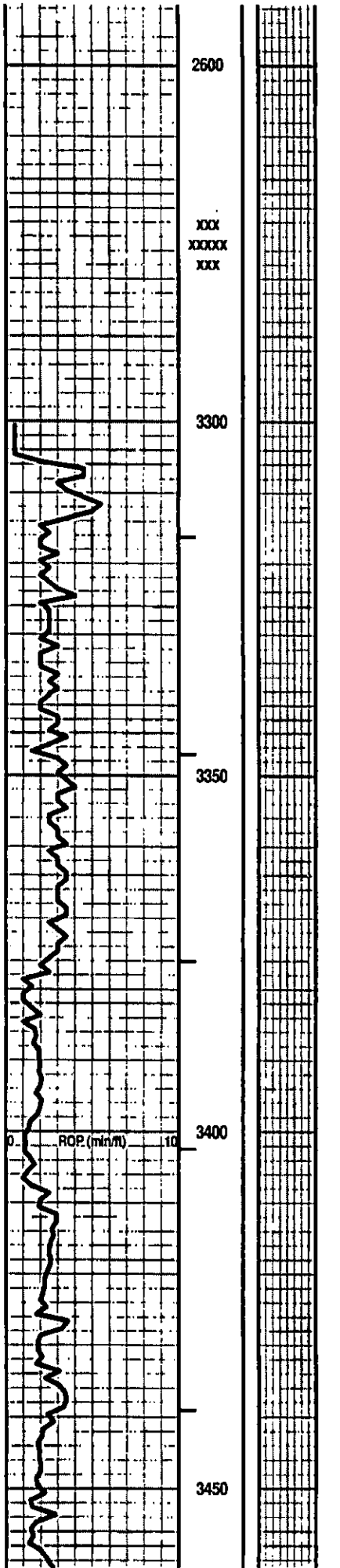
- Lost circulation
- Circulate for sam
- Circulate for sam
- Rtd
- Trip

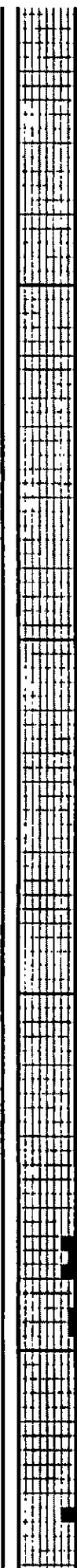
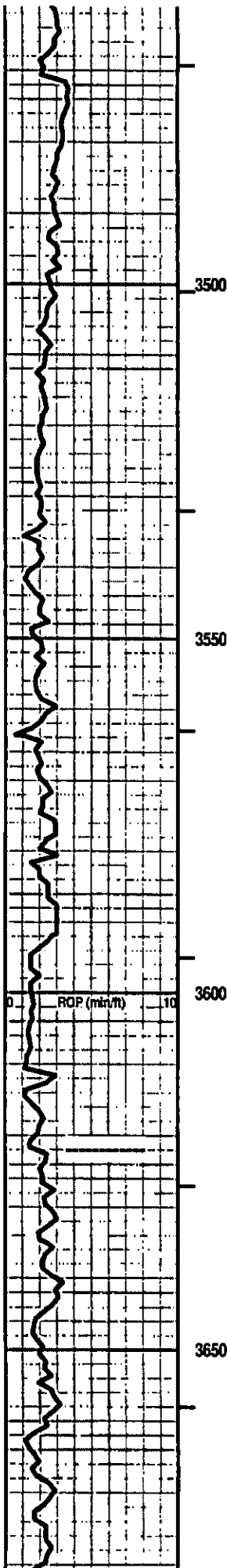
Circulate for sam

- EVENT
- Connection
- Rft

Sidewall







Interbedded SH & LS

SH - Lt & Med Gray. tr Tannish Gray to rare Brownish Gray. tr limy streaks. some calc in part. rare fossil frag. soft.

LS - Tan/ tr Pale Gray, some Lt Gray. Sing. XF-/ Micro-xln. xin por. tr subchalky in part. tr argil in part. misc fossil frags & micro-Oolites. partly Firm. No/ tr vis por.

MARL - Grays. Hi argil/shaly at top. soft.

Interbedded SH & LS

SH - Lt & Med Gray. tr/ some Tannish Gray. tr/ some limy streaks. some calc in part. soft.

LS - Tans / tr Pale to Lt Grays. Sing. XF-/ some

Weight Indicator shows 100M; therefore, weight indicator is okay. Vis: 56 Wt: 8.6 LCM: 1#

Contractor reports running 38M# on bit by WI and has actually 38M# WOB. -vs- Calculated available WOB of 32,207#.

Vis: 51 Wt: 8.6 LCM: 2#

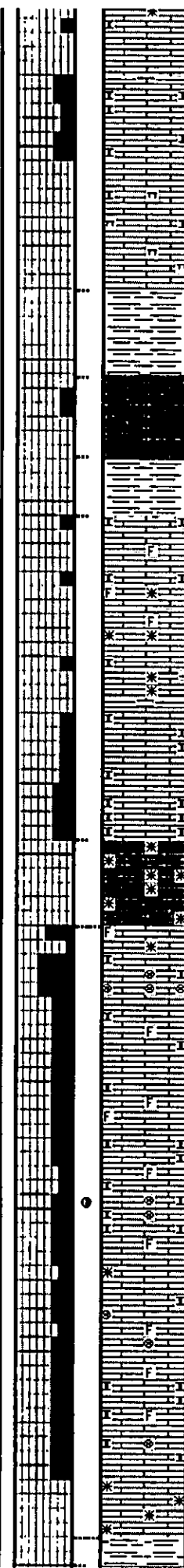
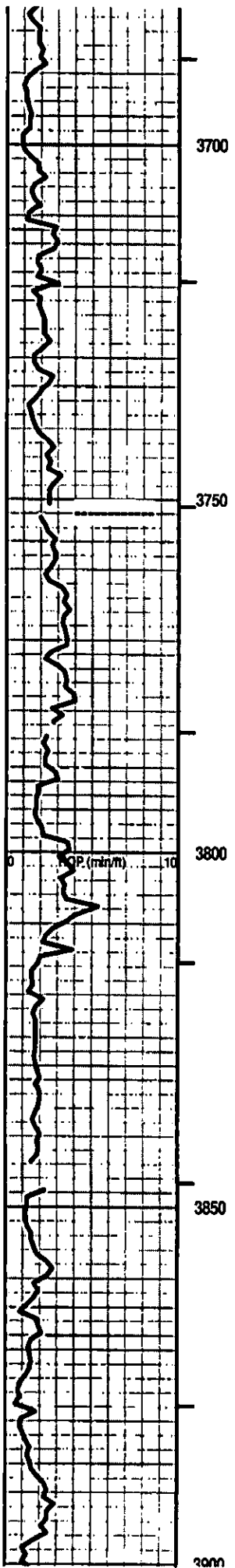
How Wire Calibration Check

3,564' - Vis: 52 Wt: 8.8 Wtr Loss: 7.6 PV: 14 YP: 17 Gels: 10/18 pH: 11.0 LCM: 2# Cl (60) Ca (tr) Solids: 3.1%

100 units = 1% Gas TG C1-C5 100

Chromatograph Calibration Check Vis: 53 Wt: 8.7 LCM: 2#

STOTLER 3,622' (-603')



Micro-xln. xln por. rare Re-xln. tr argil in part. subchalky & marly in part and intermixed. No/ tr vis por.

SH - Lt/ Med Gray. Sing. highly limy (Tannish & Pale Gray) to LS stringers (Tan, Micro-xln).

LS - Grays/ Tans. Sing/ some to mostly Mot. XF-/ mostly Micro-xln. xln por. some to lots of subchalky/ chalky. tr/ fair fossil frags in part. some intermixed/ interbedded argil or shale (Med/Dark Gray). Firm. No/ tr vis por.

LS - Tans. Mot. XF-xln. xln por. Re-xln. Firm. No/ tr vis por.

Intermixed & Interbedded:
 LS - tr Pale/ mostly Lt/ rare Med Gray, Tans. tr Tannish Pale Gray. some Sing/ mostly Mot. VF-/ XF-/ Micro-xln. xln por. some subchalky/ marly. argil/shaly. rare/ tr fossil frags. partly Firm. No/ tr/ rare Fair vis por.

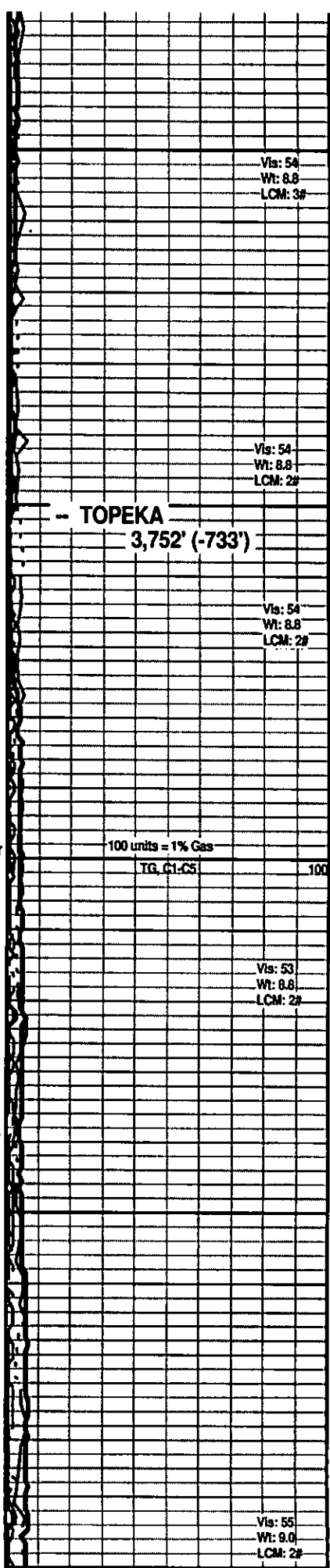
LS - Lt/ Med Tan. Sing. XF-/ Micro-xln. xln por. some Re-xln. some argil/shaly in part. Firm. No/ tr vis por.

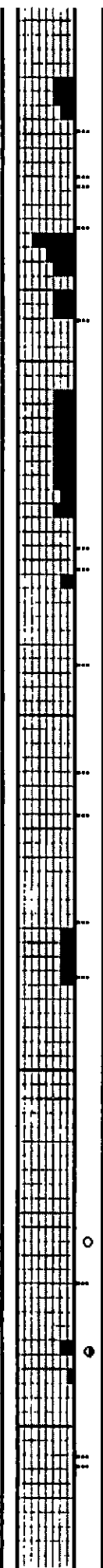
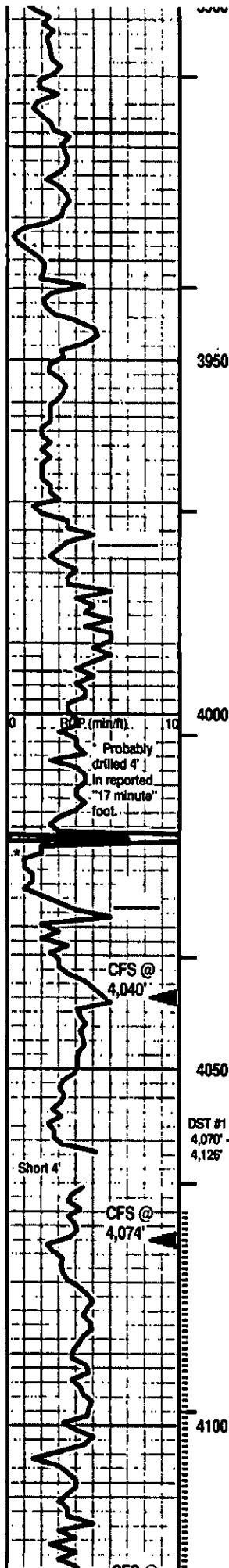
Add: Tan. Sing. Chalky. tr Oolites frags. Friable. No/ tr vis por. Spotted Med Brown stain (along chalk fracture faces). Nothing else.

SH - Grays. Sing. tr calc to limy in part. some Firm. Blocky.

Add: VF Oolites/ Oolcasts. Clear/ Lt Tan, semitransparent Matrix.

SH - Med Gray. Sing. soft.





LS - Tan/ tr Lt Gray. Sing. XF- some Micro-xln. xln por. tr Re-xln. some 'ghost' Micro-Oolites in subchalyk matrix. Friable in part. mixture of No/ tr and Fair vis por.

LS (1) - Tan. Sing. Micro-xln. xln por. tr Re-xln. Firm. No/ tr vis por.
 SH - Black. Sing. Carb. Soft.
 LS - similar to LS (1) above.

LS - Tan/ Tannish Off White tr XF/ mostly Micro-Oolites/ Micro-Oolitic. some fossil hash. Clear/ to semi-transparent matrix. Friable. Good vis por.

LS - Tan. Sing. Micro/ Crypto-xln. xln por. Dense. No vis por.
 SH - Lt/ Med Gray. Sing. ductile to Firm.

LS - Tans/ some Pale Lt Gray, tr Off White. Sing/Mot. Micro-xln. xln & some part por. Subchalyk. some fossil frags. some argil. tr marly in part. Friable. Tr/ Fair vis por.

SH - Black. Sing. Carb. Soft.
 LS - Lt Gray. Sing. Micro-xln. xln por. rare subchalyk. No/ tr vis por.

SH - Med Gray. Sing. Hi marly. Firm. Massive.

LS - Off White/ Tan. Sing/ tr Mot. Micro-xln. xln por. mostly Firm. No/ tr vis por
 SH - Lt Gray. Sing. tr calc.

LS - Off White/ Tan. Sing/ tr Mot. Micro-xln. xln & tr Vuggy por. (some VF Oolites in part, Off White. Clear/ Pale Tan, semitransparent Matrix. Friable. Tr vis por.) some Re-xln. rare subchalyk in part. mostly Firm. No/ tr vis por.

LS - Tans/ tr Lt Gray with depth. Sing/ tr Mot. XF-/ some Micro-xln. xln por. tr Re-xln. Firm at top. No/ tr vis por.

SH - Med Gray. Sing. tr calc.

3 pcs: LS - Tan. Sing. Micro-xln. xln & rare vuggy calc filled por. tr Re-xln. Firm. No/ tr vis por. tr/ some spotted Lt/Med Brown stain rimming vuggy por. Nothing else.

LS - Tan. Sing. XF-xln. xln and some XF vuggy por. some minute Re-xln. (tr/ some CHERT - Gray/ Dark Tan. Sing. Opaque. tr misc inclusions. No tripolitic.) some fossil frags. mostly Firm. tr/ fair vuggy por in part. Faint odor. rare/ Spotted yellow fluorescence. A/C, rare minute Dark Brown tree oil spheres floating on wash water. rare gas bubble cling to rx chip. Spotted Med Brown stain. Pos cut/ residual. Pos acid/ residual. rare/ tr Black tarry oil on chert frac face.

SH - Med/ Dark Gray. Sing. Massive. soft.

LS - Lt & Med Tan. Sing/ Mot. XF-/ Micro-xln. xln & particle por. tr Re-xln. rare subchalyk in part. Firm. No/ tr vis por. No odo

Vis: 65+
 Wt: 9.0
 LCM: 2#

HEEBNER SH
 3,976' (-957')

100 units = 1% Gas
 TG, C1-C5 100

E-Log: Lansing

Vis: 54
 Wt: 8.1
 LCM: 2#

LANSING
 4,027' (-1008')

CFS @ 4,040': 40"
 How Wire Calibration Check

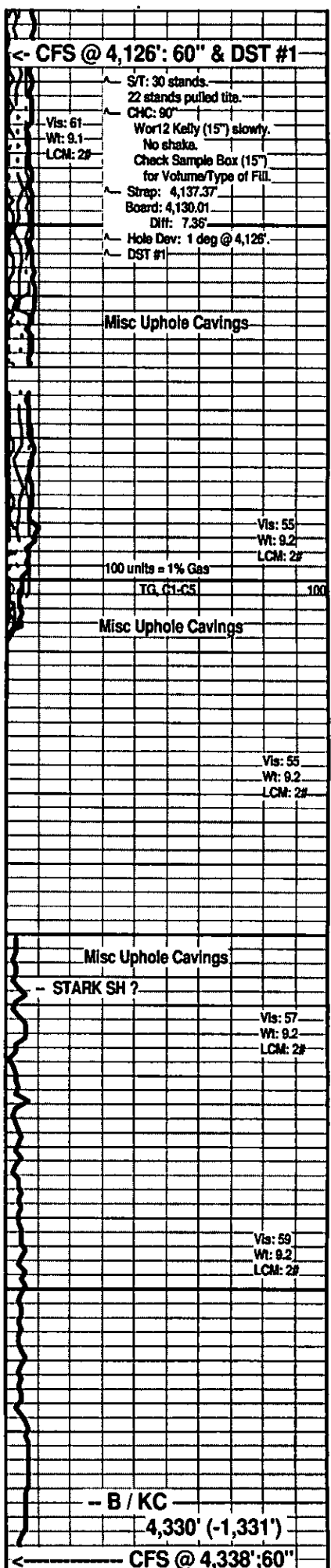
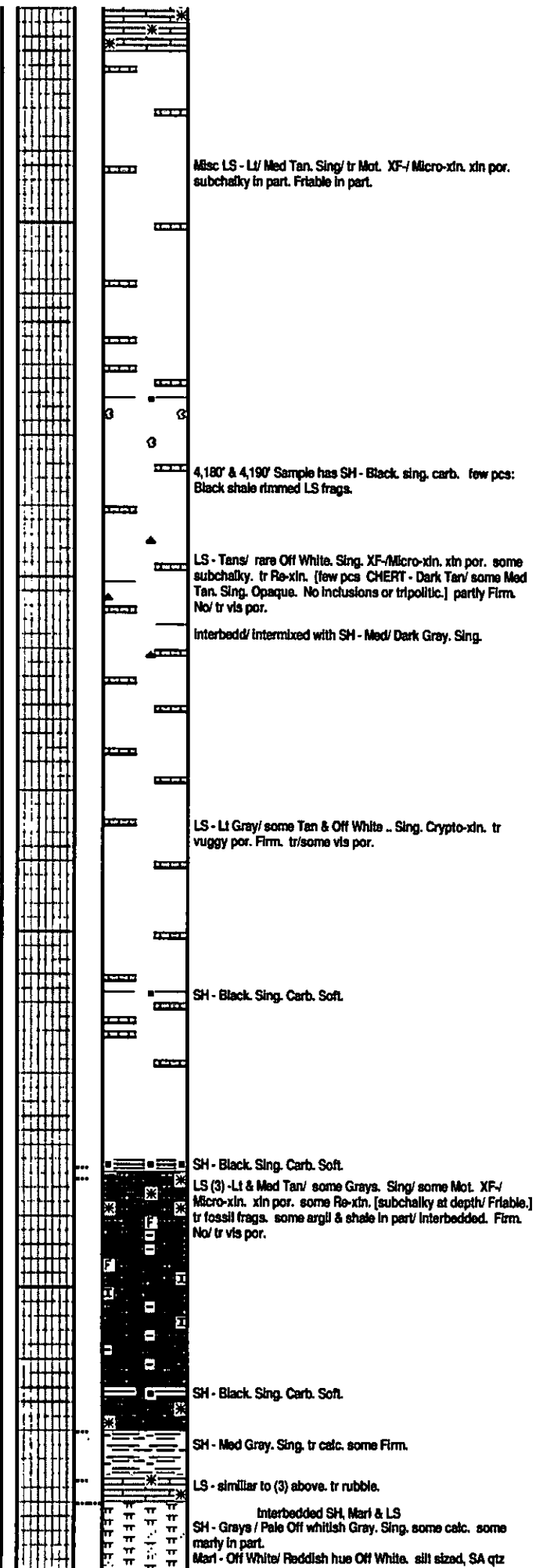
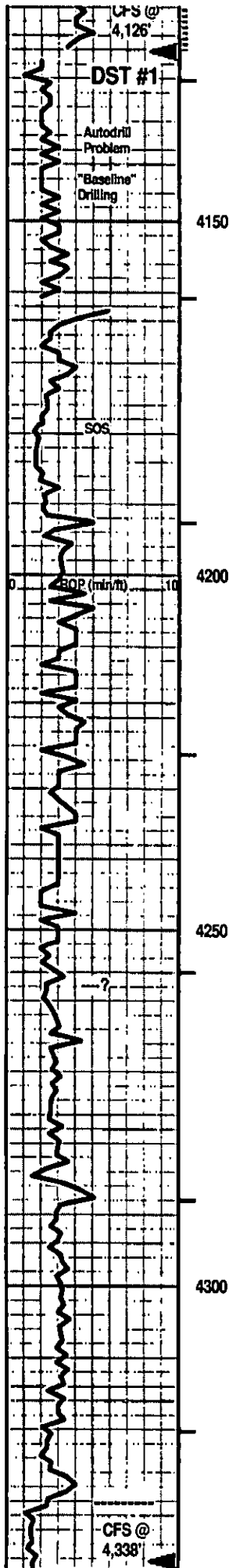
Chromatograph	4,062'
Calibration	Vis: 53 Wt: 9.1
Check	Wt Loss: 7.2
	PV: 15 YP 16
	Gels: 9/22
	pH: 10.5 LCM: 2#
	Cl (2,400) Ca (40)
	Solids: 5.5%

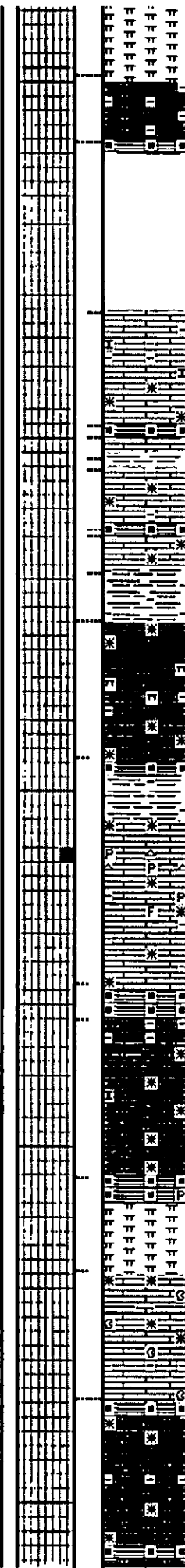
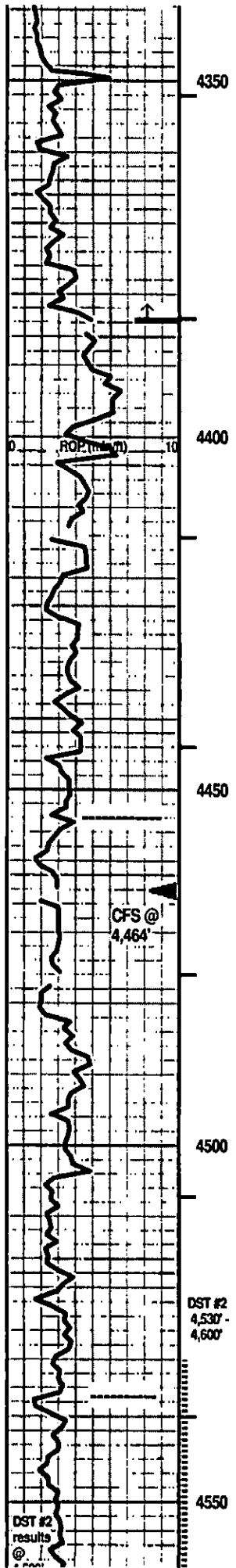
CFS @ 4,074': 40"

DST #1 - LANSING	Vis: 59
4,070' - 4,126'	Wt: 9.2
	LCM: 2#

Rec:
 690' Muddy Wtr (2% M, 98% W)
 Gas bubble in wtr gone by grind

IFP: 23# - 134# / 30"
 ISIP: 1,137# / 45"
 FFP: 147# - 327# / 60"
 FSIP: 1,137# / 90"
 120 deg F
 MH: 1,964# - 1,962#





grains floating in marl matrix.
 LS - Tans/ Grays. Sing/ some Mot. XF-/ Micro-xln. xln por. some Re-xln. tr fossil frags. some argil in part/ interbedded. Firm. No/ tr vis por.

LS - Tans/ Lt Gray. Sing/ some Mot. XF-/ Micro-xln. xln por. some Re-xln. tr argil in part. Firm. No/ tr vis por.

SH - Black. Sing. Carb. Soft.

Interbedded LS & SH

LS - Tans/ Lt & Gray. Sing/ some Mot. tr XF-/ mostly Micro-xln. xln por. some Re-xln. tr argil/shaly in part. tr fossil frags in part. subchalky (marly). Firm in part. No/ tr vis por.

SH - Black. Sing. carb. tr fissile.

SH - Grays. some Bluish Gray. some highly limy/ LS streaks.

LS - Tans/ some Grays. Sing/ some Mot. tr XF-/ mostly Micro-xln. xln por. some Re-xln. tr argil/shaly in part. subchalky (marly). Firm at top. No/ tr vis por.

LS - Tans/ some Lt Gray. Sing/ Mot. XF-/ some Micro-xln. xln & part por. tr Re-xln. [some Chert - Silvery Whitish Gray/ Off White/ rare Tan. Mot. misc minute Off White fossil inclusions. No tripolitic/ 'fresh'.] mostly Firm. tr ls 'rubble'. tr argil. minute pyritic xtals. No/ tr vis por.

SH - Black. Sing. carb. tr fissile.

LS - Tans/ some Off White. Sing/ tr Mot. . XF-xln/ Micro-xln. xln por. tr Re-xln. subchalky in part. some argil. Friable at break. mostly No/ tr vis por

SH - Black. Sing. carb. tr pyritic. soft

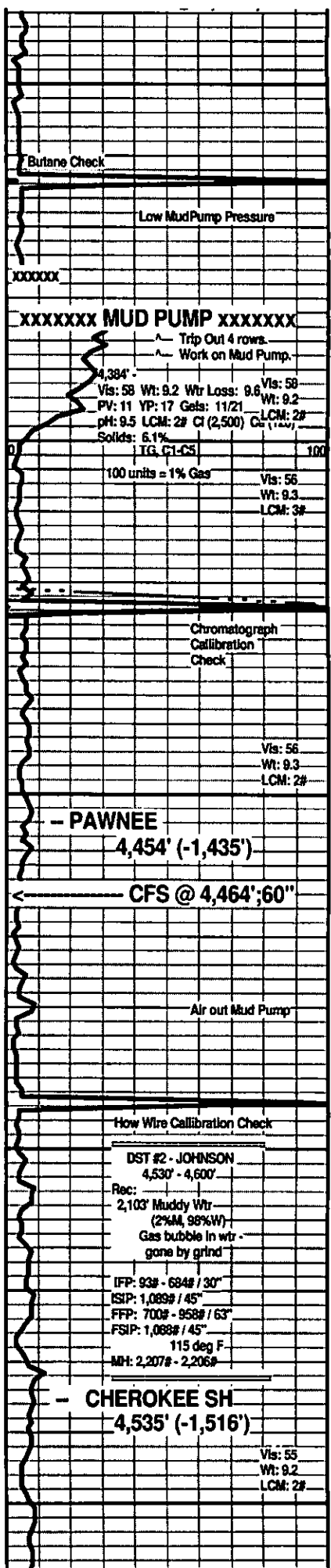
MARL - Lt/ Med Gray. Sing. soft. tr misc LS frags.

LS - Tan/ Pale Lt Gray/ some Off White. Sing/ tr Mot. XF-/ Micro-xln. xln por. tr Re-xln. tr argil in part. [some LS& Argil frags - Med/ Dark Tan, Dark Gray. VF/ XF. SA.] Firm. No/ tr vis por.

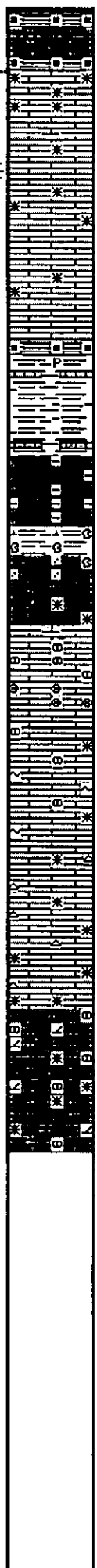
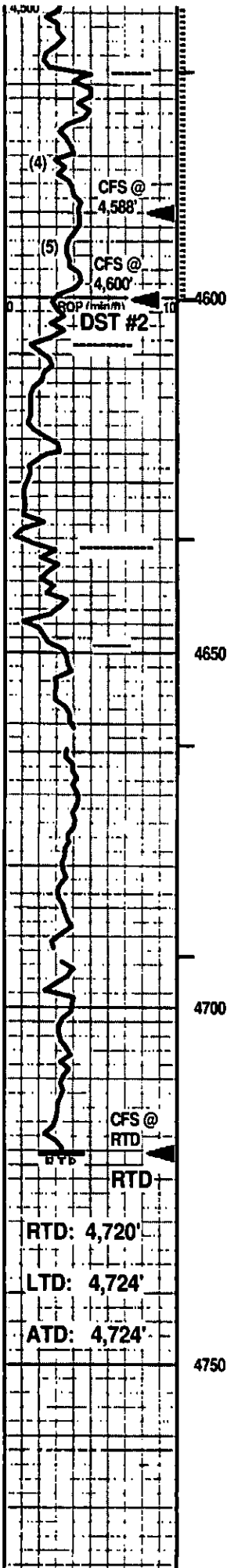
Interbedded SH & LS

SH - Black. Sing. carb. soft.

LS - Tan/ Pale Lt Gray/ rare Off White. Sing/ tr Mot. XF-/ Micro-xln. xln por. tr Re-xln. tr argil in part. [some LS& Argil frags - Med/ Dark Tan, Dark Gray. VF/ XF. SA.] Firm. No/ tr vis por.



DST #2 results



LS (4) - Med/ Dark Tan, rare Lt Brown in part. Lt Tan at top. some Lt Gray. Sing/ tr Mot. XF-/ mostly Micro- & tr Crypto-xln. xln & some vuggy, irregular por. some euhedral xtals. Re-xln. some fossil frags. soem Interbedded Gray shale. mostly Firm. tr/ Fair, some Good vis por. Good odor. Spotted/ Uniform Med Yellow flouresc ence. ----->

few pcs: LS (5) - similar to (4) above. Irregular, spotted vuggy por. No? odor. Spotted Yellow flourescence. No free oil or gas. Spotted Med Brown stain. Weak Pos cut/ residual. Weak Pos acid/ residual.

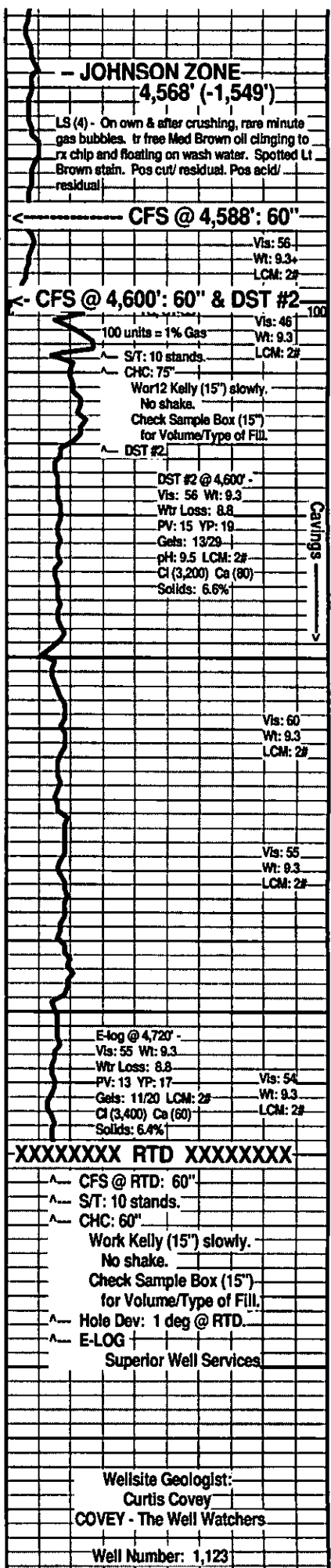
MORROW SH 4,606' (-1,587')
 Interbedded SH, Siltstone
 SH - Black. Sing. carb. soft. tr pyritic. Grays. Sing. some limy/ LS streaks. soft.
 Siltstone - Green Blue/ Green/ Lt & Med Gray/ Greenish Gray/ some Yellow, Blue. Sing/ Mot. [some limy (tan, tannish Gray.) some sandy in part. rare, minute pyrita. rare plant part.

MISS 4,635' (-1,616')
 LS - Lt/Med Tan, some Off White. Sing. Micro-/ some Crypto-xln. xln por. Re-xln. tr/some F sized, SR, mod sph. vitreous qtz grains floating in LS matrix. tr White subchalky in part. mostly Firm. No/ tr vis por.

LS - Lt/Med Tan, some Lt Gray, some Off White. Sing. mostly XF- & Micro-/ rare Crypto-xln. xln por. Re-xln. misc calc nodules (VF/Micro, SR calc). few pcs: Tan Micro-Oolites in Clear/ semitransparent Tan matrix. rare/ tr SR, subsph. vitreous qtz grains floating in LS matrix. rare/ tr Green glauc VF, A grain or stain. Firm. No/ tr vis por.

Add interbedded with depth: tr CHERT - Off White/ some Tan. Mot. semitransparent to opaque. some White inclusions. No tripolitic.

LS - Tans/ tr Grays. Mot. Micro-/ tr Crypto-xln. xln & part por. some Re-xln. tr dolomitic in part. tr subnodules in part. Firm. No/ tr vis por.



GRASSLANDS #1
 1,860' FNL & 1,220' FEL 8-T12S-R32W
 Logan County, Kansas



CONSOLIDATED
Oil Well Services, LLC

REMIT TO
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
FAX 620/431-0012

INVOICE

Invoice # 244323

Invoice Date: 09/20/2011 Terms: 10/10/30,n/30

Page 1

NEW GULF OPERATING LLC
6310 EAST 102ND ST.
TULSA OK 74137
(918)728-3020

GRASSLANDS #1
28233
10-12S-34W
09-17-2011
KS

Part Number	Description	Qty	Unit Price	Total
1131	60/40 POZ MIX	220.00	14.3500	3157.00
1118B	PREMIUM GEL / BENTONITE	756.00	.2400	181.44
4432	8 5/8" WOODEN PLUG	1.00	96.0000	96.00
1107	FLO-SEAL (25#)	55.00	2.6600	146.30

Sublet Performed	Description	Total
9999-130	CASH DISCOUNT	-358.07
9999-130	CASH DISCOUNT	-169.50

	Description	Hours	Unit Price	Total
399	P & A NEW WELL	1.00	1250.00	1250.00
399	EQUIPMENT MILEAGE (ONE WAY)	7.00	5.00	35.00
399	TON MILEAGE DELIVERY	1.00	410.00	410.00

COMPANY NGO-KS
WELL # Grasslands #1
WFE # _____
C/L ACCT CODE 1510-14
C/L DESCRIPT Coating
DATE S. TRY/DATE _____
AUTHORIZED/DATE 9/23/11

*OK per
OPM
9/23/11*

Amount Due 5555.04 if paid after 10/20/2011

Parts:	3580.74	Freight:	.00	Tax:	251.37	AR	4999.54
Labor:	.00	Misc:	.00	Total:	4999.54		
Sublt:	-527.57	Supplies:	.00	Change:	.00		

Signed _____

Date _____

BARTLESVILLE, OK
918/338-0808

ELDORADO, KS
316/322-7022

EUREKA, KS
620/583-7684

GILLETTE, WY
307/686-4914

OAKLEY, KS
785/672-2227

OTTAWA, KS
785/242-4044

THAYER, KS
620/839-5269

WORLAND, WY
307/347-4577



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8678



FIELD TICKET & TREATMENT REPORT
CEMENT

TICKET NUMBER 28233

LOCATION Oakley

FOREMAN Kelly Gabel

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-17-11	5661	Grasslands #1	10	12 ^S	34 ^W	Logan
CUSTOMER <u>New Gulf oper.</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS			399	Jason G		
CITY			460	Damon M		
STATE						
ZIP CODE						

JOB TYPE PTA HOLE SIZE 7 1/4 HOLE DEPTH 4730 CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT In CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: safety meeting, rigged upon val drilling #4 to circulate. Mixed cement plugs and displaced down. Washed up truck and lines. Rigged down & left location.

25 sks @ 2550
100 sks @ 1565
40 sks @ 320
10 sks @ 40
30 RH 15 MH

Thank You
Kelly & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405 N	1	PUMP CHARGE	1250 ⁰⁰	1250 ⁰⁰
5406	7	MILEAGE	5 ⁰⁰	35 ⁰⁰
1131	220 sks	60/40 Poz	14 ³⁵	3157 ⁰⁰
1118 B	256 [#]	Bentonite	24	181 ⁴⁴
1107	55 [#]	Flo-Seal	266	1463 ⁰⁰
5407A	9,46	Ton Mixed cement (Min)	105	4100 ⁰⁰
4432	1	1 1/2" Wooden Plug	96 ⁰⁰	96 ⁰⁰
				5275 ⁴⁴
				527 ⁰²
				4748 ⁴²
		244323	SALES TAX	251.32
			ESTIMATED TOTAL	4999.54

Rev 4/03/07

AUTHORIZATION: [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



CONSOLIDATED
Oil Well Services, LLC

File

TICKET NUMBER 28207
LOCATION Oaklaks
FOREMAN Kelly Gable
Walt Dirke

PO Box 884, Chanute, KS 66720
820-431-9210 or 800-467-8876

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-7-11	5161	Grasslands 1	8	123	32W	Leaah
CUSTOMER New Gulf Operating LLC			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS			463	Damon Miller		
CITY			439	Cecil Parker		
STATE						
ZIP CODE						

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 268' CASING SIZE & WEIGHT 8 5/8 - 20
CASING DEPTH 264' DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT 1512 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT IN CASING 1.5'
DISPLACEMENT 16 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 6 BPM

REMARKS: Safety Meeting, Rig up on Val Pdg #4, on bottom circ
mix 200 sks cement, 30% acc - 2% cel, release plug + Displace 16 BBL
H₂O 2 200 #, shut in

Cement Did Circ

Thank You
Kelly + Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1,025.00	1,025.00
5406	8	MILEAGE	5.00	40.00
11045	200 sks	Class A Cement	16.80	3,360.00
1102	564 #	Calcium Chloride	1.84	1,037.76
1118B	376 #	Bentonite	1.24	466.24
5407	1	8 5/8 Woodson Plug	96.00	96.00
5407	9.4	Tan Mileage Delivery	1.58	14.85
				5,495.00
		Less 10% Disc		549.50
				4,945.50
				282.20
				5227.70

Rev 07/37

AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

March 26, 2012

Danny Birdwell
New Gulf Operating LLC
6310 E. 102nd St.
TULSA, OK 74137

Re: ACO1
API 15-109-21031-00-00
Grasslands 1
NE/4 Sec.08-12S-32W
Logan County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Danny Birdwell

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

March 26, 2012

Danny Birdwell
New Gulf Operating LLC
6310 E. 102nd St.
TULSA, OK 74137

Re: ACO1
API 15-109-21031-00-00
Grasslands 1
NE/4 Sec.08-12S-32W
Logan County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Danny Birdwell

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

March 26, 2012

Danny Birdwell
New Gulf Operating LLC
6310 E. 102nd St.
TULSA, OK 74137

Re: ACO-1
API 15-109-21031-00-00
Grasslands 1
NE/4 Sec.08-12S-32W
Logan County, Kansas

Dear Danny Birdwell :

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 09/07/2011 and the ACO-1 was received on March 26, 2012 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department