



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1102488
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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 SIOW
- 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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1102488

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 List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

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 <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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	--	---

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	HERMAN 1-15
Doc ID	1102488

All Electric Logs Run

DIL
MICRO
POR
SONIC
SPECTRAL

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
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

November 26, 2012

CLAYTON CAMOZZI
Samuel Gary Jr. & Associates, Inc.
1515 WYNKOOP, STE 700
DENVER, CO 80202

Re: ACO1
API 15-051-26352-00-00
HERMAN 1-15
NW/4 Sec.15-12S-17W
Ellis 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,
CLAYTON CAMOZZI



QUALITY OILWELL CEMENTING, INC.

PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 8/8/2012
 Invoice # 820

P.O.#:
 Due Date: 9/7/2012
 Division: Russell

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1815 11th Street
 Great Bend, KS 67530

RECEIVED

AUG 13 2012

**SAMUEL GARY JR.
 & ASSOCIATES, INC.**

Reference:
 HERMAN 1-15

Description of Work:
 LONG SURFACE JOB

DRLG COMP W/O LOE GG

Account	8200.138
Well/Prospect	
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Services / Items Included:

	Quantity	Price	Taxable
Labor		\$ 963.85	No
Common-Class A	400	\$ 5,151.11	Yes
8 5/8" Basket	3	\$ 1,000.67	Yes
Bulk Truck Mat-Material Service Charge	422	\$ 890.89	No
Calcium Chloride	14	\$ 704.31	Yes
Flo Seal	100	\$ 211.11	Yes
Pump Truck Mileage-Job to Nearest Camp	21	\$ 221.22	No
8 5/8" Centralizer	3	\$ 202.67	Yes
Premium Gel (Bentonite)	8	\$ 137.48	Yes
Bulk Truck Mileage-Job to Nearest Bulk Plant	21	\$ 129.45	No
8 5/8" Top Rubber Plug	1	\$ 111.89	Yes

Item	Quantity	Price	Taxable
Baffle Plate Aluminum, 8 5/8"	1	\$95.00	Yes

Invoice Terms:

Net 30

SubTotal: \$ 9,819.64
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (1,472.95)

SubTotal for Taxable Items: \$ 6,472.09
 SubTotal for Non-Taxable Items: \$ 1,874.60

Total: \$ 8,346.70
 Tax: \$ 407.74

6.30% Ellis County Sales Tax

Amount Due: \$ 8,754.44
Applied Payments:
Balance Due: \$ 8,754.44

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 820

Date	8-3-12	Sec.	15	Twp.	12	Range	17	County	ELLIS	State	KANSAS	On Location		Finish	1:45 PM	
Lease	HERMAN		Well No.	#1-15		Location VICTORIA N TO CATHERINE RD - W TO CONELL RD - 1/3 3/4 N										
Contractor	DISCOVERY DRILLING #2							Owner	SAM GARY JR & ASSOC.							
Type Job	L. SURFACE							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Hole Size	12 1/4"		T.D.	1,116'												
Csg.	8 7/8"		Depth	1,116'												
Tbg. Size			Depth													
Tool			Depth													
Cement Left in Csg.			Shoe Joint	41'												
Meas Line			Displace	68 BLS												
				Charge To	SAM GARY JR & ASSOC.											
				Street	1515 WYNKOOP - STE 800											
				City	DENVER											
				State	CO, 80202											
				The above was done to satisfaction and supervision of owner agent or contractor.												
				Cement Amount Ordered	400com - 3cc - 2 GEL 1/2											

EQUIPMENT

Pumptrk #15 No.	Cementer Helper	NECK	Common	400
Bulktrk #12 No.	Driver	COBY	Poz. Mix	
Bulktrk #14 No.	Driver	CSCO	Gel.	8 1/4

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal 100ft
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
CEMENT DID CIRCULATE!	Sand
	Handling 422
	Mileage

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	3
Baskets	3
AFU Inserts	
Float Shoe	
Latch Down	

8 7/8 Head Y MAN

Pumptrk Charge	Long Surface
Mileage	21

THANK YOU!

X Signature

Tax	
Discount	
Total Charge	



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 8/10/2012
 Invoice # 713

P.O.#:
 Due Date: 9/9/2012
 Division: Russell

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1815 11th Street
 Great Bend, KS 67530

Reference:
 HERMAN 1-15

Description of Work:
 PLUG JOB

DRLG COMP W/O LOE GG

Account	8200.138
Well/Prospect	
Deck	
AFE	
Approval	
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,239.23	Yes				
Common-Class A	147	\$ 1,947.12	Yes				
Bulk Truck Mat-Material Service Charge	254	\$ 551.54	Yes				
POZ Mix-Standard	98	\$ 489.44	Yes				
Pump Truck Mileage-Job to Nearest Camp	18	\$ 195.04	Yes				
Premium Gel (Bentonite)	9	\$ 159.08	Yes				
Flo Seal	60	\$ 130.29	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	18	\$ 114.13	Yes				
Dry Hole Plug	1	\$ 60.80	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$	4,886.67
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(733.00)
<hr/>			
	SubTotal for Taxable Items:	\$	4,153.67
	SubTotal for Non-Taxable Items:	\$	-
<hr/>			
	Total:	\$	4,153.67
	Tax:	\$	261.68
<hr/>			
	Amount Due:	\$	4,415.35
	Applied Payments:		
	Balance Due:	\$	4,415.35

6.30% Ellis County Sales Tax

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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RECEIVED
 AUG 16 2012
 SAMUEL GARY JR.
 & ASSOCIATES, INC.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 713

Date	8-8-12	Sec.	15	Twp.	12	Range	17	County	ELLIS	State	KS	On Location		Finish	1:15 PM
Lease	HERMAN	Well No.	1-15		Location		Codell RD to Buckeye RD 1 1/2 E 15th								
Contractor	Discory Rig #2				Owner		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Type Job	plug				Charge To		Sam Goby Jr. & Assoc								
Hole Size	T.D. 3780				Depth										
Csg.	Depth				Street										
Tbg. Size	Depth				City		State								
Tool	Depth				City		State								
Cement Left in Csg.	Shoe Joint				The above was done to satisfaction and supervision of owner agent or contractor.										
Meas Line	Displace				Cement Amount Ordered		245 @ 40 4/10 gal / plug								

EQUIPMENT

Pumptrk	No.	Cementor	Math	Common	147
Bulktrk	#13	Driver	Nick	Poz. Mix	98
Bulktrk	#14	Driver	Gody	Gel.	9

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole 30 5/16	Salt
Mouse Hole 15 5/16	Flowseal 60#
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
1st @ 3658 23 SH	Sand
2nd @ 1380 23 SH	Handling 254
3rd @ 1160 40 SH	Mileage

FLOAT EQUIPMENT

4 @ 800 100 SH	Guide Shoe
5th @ 40 10 SH	Centralizer
Wood Plug	Baskets
	AFU Inserts 1 Dry Hole plug
	Float Shoe
	Latch Down

Pumptrk Charge plug
Mileage 18

X Signature *[Handwritten Signature]*

Tax
Discount
Total Charge



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

15-12-17 Ellis, Ks

1515 Wynkoop St. Ste 700
Denver, CO 80202

Herman 1-15

ATTN: Clayton Camozzi

Job Ticket: 49283

DST#: 1

Test Start: 2012.08.07 @ 02:27:13

GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:11:13

Time Test Ended: 10:05:43

Test Type: Conventional Bottom Hole (Initial)

Tester: Brian Fairbank

Unit No: 41

Interval: 3510.00 ft (KB) To 3582.00 ft (KB) (TVD)

Reference Elevations: 2143.00 ft (KB)

Total Depth: 1582.00 ft (KB) (TVD)

2135.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 65.12 psig @ 3578.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.07

End Date:

2012.08.07

Last Calib.:

2012.08.07

Start Time:

02:27:14

End Time:

10:05:43

Time On Btm:

2012.08.07 @ 04:10:13

Time Off Btm:

2012.08.07 @ 08:08:43

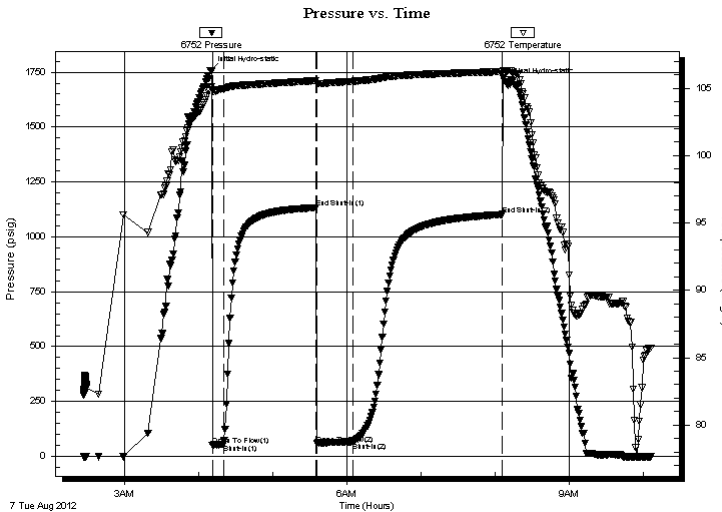
TEST COMMENT: 10 - IFP - weak blow throughout 1/4" - 1/2"

75 - ISI - no blow back

30 - FFP - no blow 10 min - 1 1/2"

120 - FSI - no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1757.96	105.13	Initial Hydro-static
1	50.15	104.88	Open To Flow (1)
10	55.52	104.97	Shut-In(1)
85	1132.39	105.57	End Shut-In(1)
86	57.49	105.37	Open To Flow (2)
115	65.12	105.51	Shut-In(2)
236	1101.74	106.24	End Shut-In(2)
239	1700.28	106.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	GOCM 5%G, 10%O, 85%M	0.29

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. and Associates, Inc.

15-12-17 Ellis, Ks

1515 Wynkoop St. Ste 700
Denver, CO 80202

Herman 1-15

Job Ticket: 49283

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.08.07 @ 02:27:13

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	GOCM 5%G, 10%O, 85%M	0.288

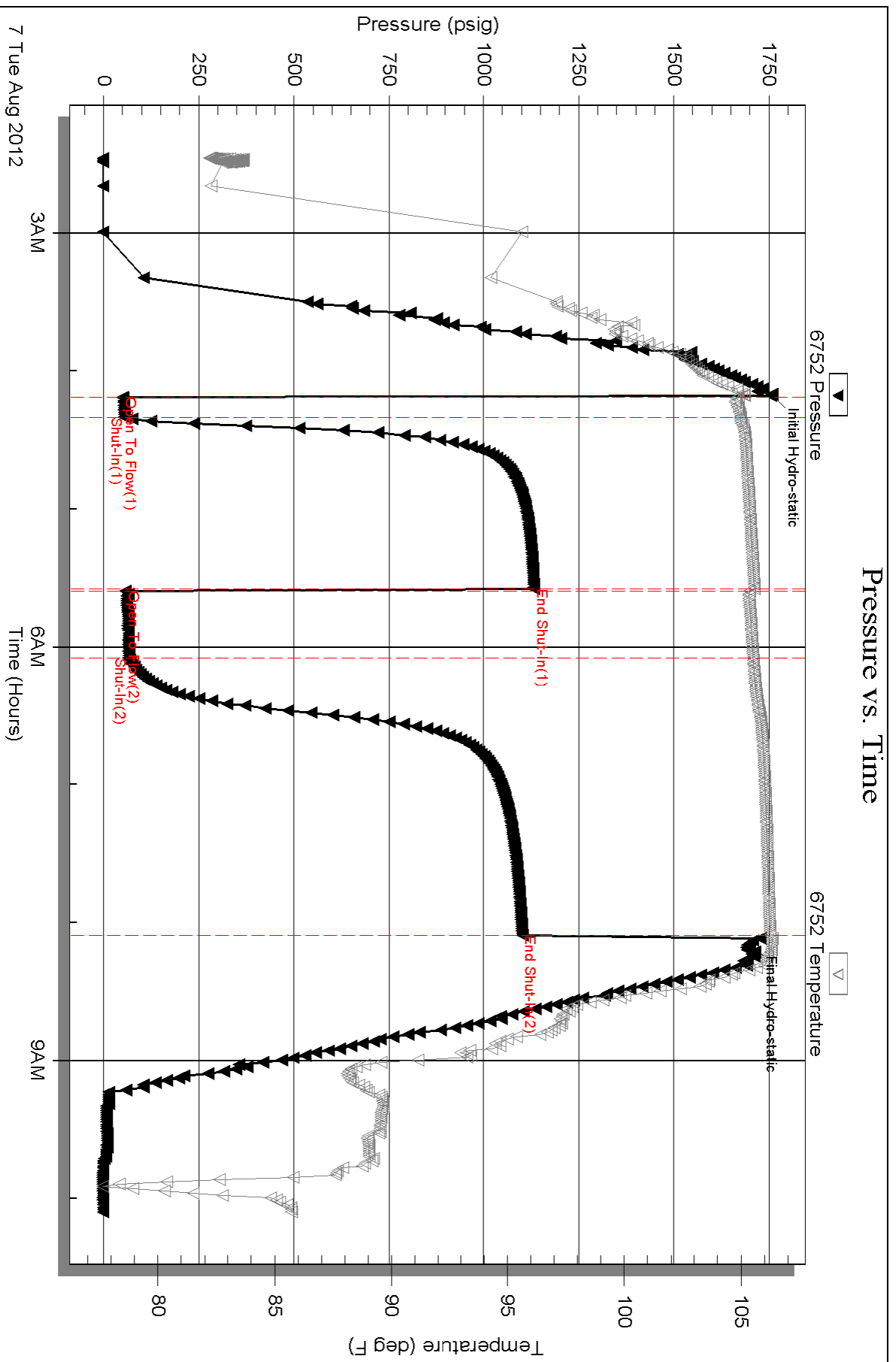
Total Length: 40.00 ft Total Volume: 0.288 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: 400 ml G, 1400 ml O, 2200 ml M, 250 LBS

Pressure vs. Time



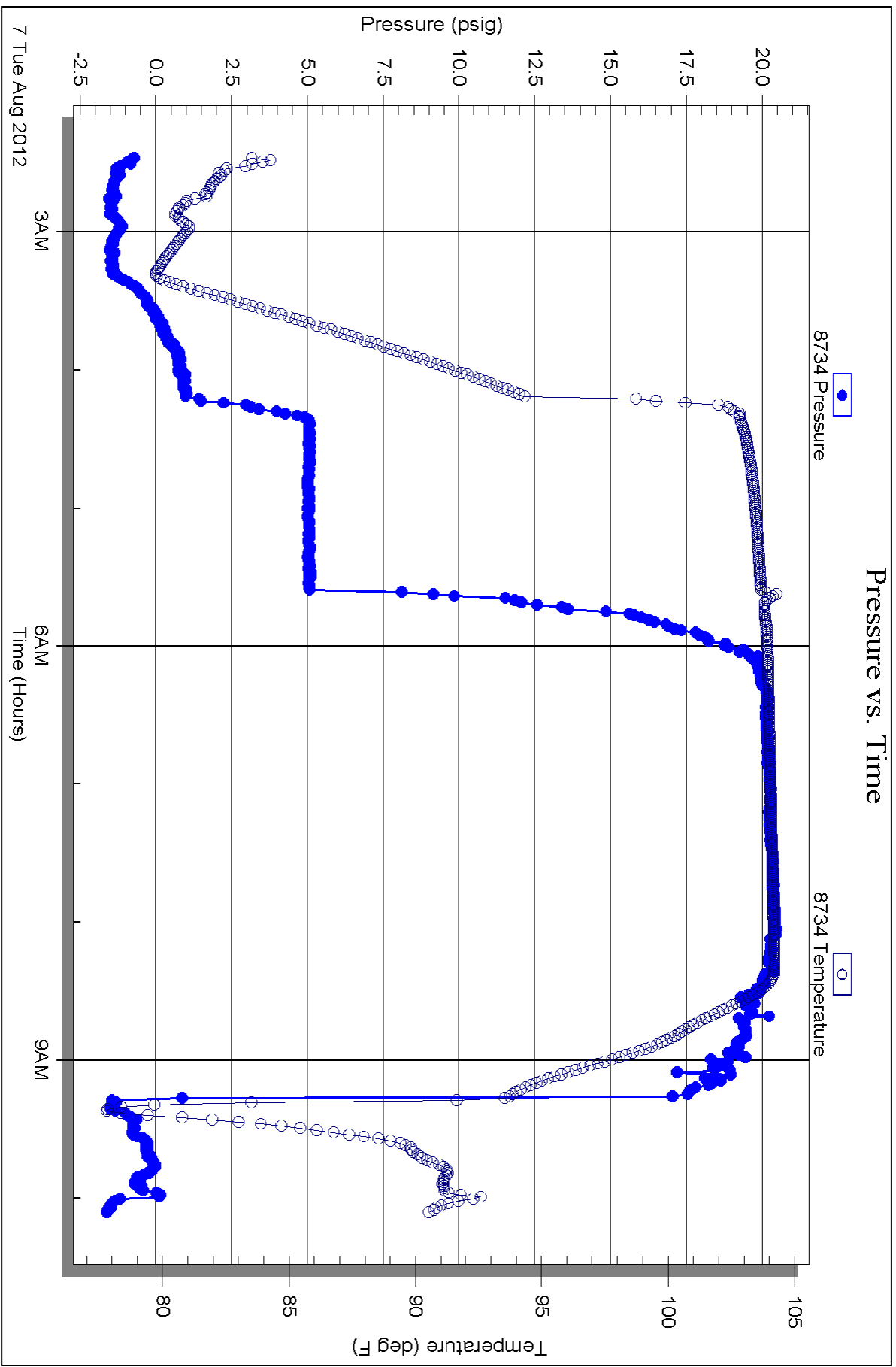
Serial #: 8734

Fluid

Samuel Gary Jr. and Associates, Inc.

Herman 1-15

DST Test Number: 1





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

Well Name: Herman 1-15
 Location: Sec. 15 12S-17W Ellis County, Kansas
 License Number: 15-051-26352-0000 Region: WILDCAT
 Spud Date: AUG 2, 2012 Drilling Completed: AUG. 7, 2012
 Surface Coordinates: 1015 FNL / 675 FWL

Bottom Hole Coordinates:
 Ground Elevation (ft): 2135' K.B. Elevation (ft): 2143'
 Logged Interval (ft): 3000' To: 3780' Total Depth (ft): 3780'
 Formation: Lansing, Arbuckle
 Type of Drilling Fluid: Natural Chemical

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Samuel Gary Jr. & Assoc.
 Address: 1515 Wynkoop, Ste. # 700
 Denver, Colo. 80202
 Geo: Clayton Camozzi

GEOLOGIST

Name: Schuyler Hedrick/Tim Hedrick
 Company: Earth Tech OGL, Inc.
 Address: PO Box 683
 Hooker, Okla. 73945
 Off. 888-543-8378 Cell: 580-754-0062

DST REPORT

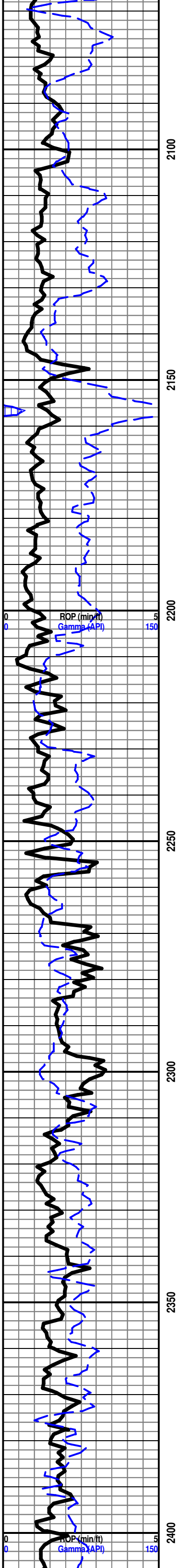
DST#1 3510-3582' 10 75 30 120
 IF- WK 1/4" TO 1/2" BLO THRU/ ISI- NB / FF- NO BLO 10 MIN.- 1 1/2' BLO/ FSI- NB
 IH- 1758, FH- 1700/ IF-50 TO 56, FF- 57 TO 65/ ISI- 1132, FSI- 1102
 REC. 40' OF TF/ 30' OF GIP/ 40' OF GOCM 5% GAS, 10% OIL, 85% MUD/ BHT- 106 DEG./ CHLOR.- 5,000

ROCK TYPES

Anhy	Gyp	Shgy	Sandylms
Bent	Igne	Sltst	Shale
Brec	Lmst	Ss	Sltstn
Cht	Meta	Till	Shlysits
Clyst	Mrlst	Carb sh	Sltys
Coal	Salt	Dol	Lms
Congl	Shale	Dtd	
Dol	Shcol	Gry sh	

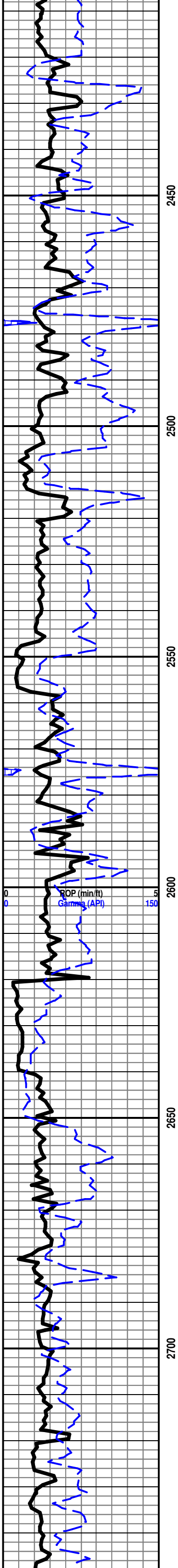
ACCESSORIES

MINERAL	Salt	Fossil	Clystn
Anhy	Sandy	Gastro	Dol
Arggrn	Silt	Oolite	Grysh
Arg	Sil	Ostra	Gryslt
Bent	Sulphur	Pelec	Lms
Bit	Tuff	Pellet	Sandylms
Brecfrag	Chlorite	Pisolite	Sh
Calc	Dol	Plant	Sltstn
Carb	Sand	Strom	
Chtdk	Sltly	Fuss	
Chtlt		Oomold	
Dol	FOSSIL	STRINGER	TEXTURE
Feldspar	Algae	Anhy	Boundst
Ferrpel	Amph	Arg	Chalky
Ferr	Belm	Bent	Cryxln
Glau	Bioclst	Coal	Earthy
Gyp	Brach	Dol	Finexln
Hvymin	Bryozoa	Gyp	Grainst
Kaol	Cephal	Ls	Lithogr
Marl	Coral	Mrst	Microxln
Minxl	Crin	Sltstrg	Mudst
Nodule	Echin	Ssstrg	Packst
Phos	Fish	Carbsh	Wackest
Pyr	Foram		



NO GAS DUE TO BURNED OUT
FILAMENT

TG, C1-C5
1 10 100 1000



2450

2500

2550

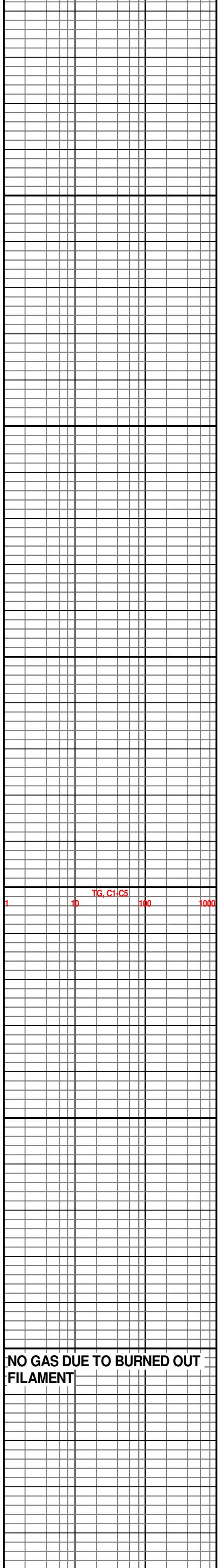
2600

2650

2700

ROP (min/ft)
Gamma (API)

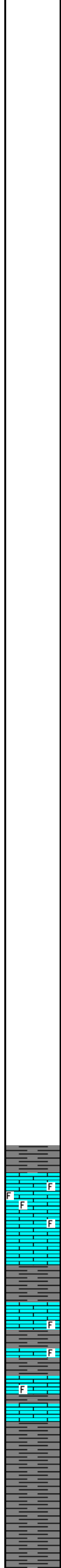
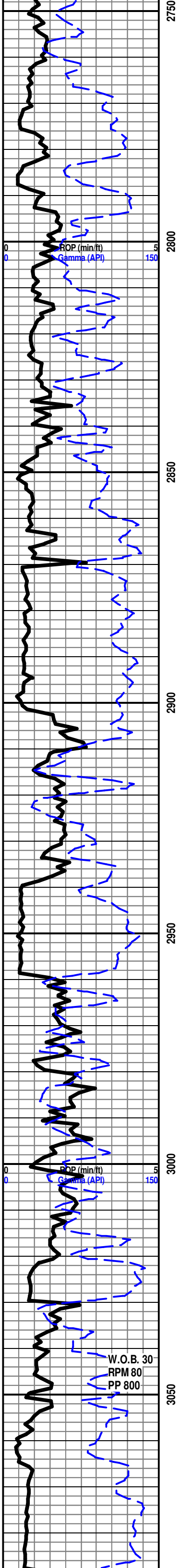
150



TG, C1-C5

1 10 100 1000

NO GAS DUE TO BURNED OUT FILAMENT



BRS 2901'-758'

START 24 HR. MANNED UNIT 8/05/12

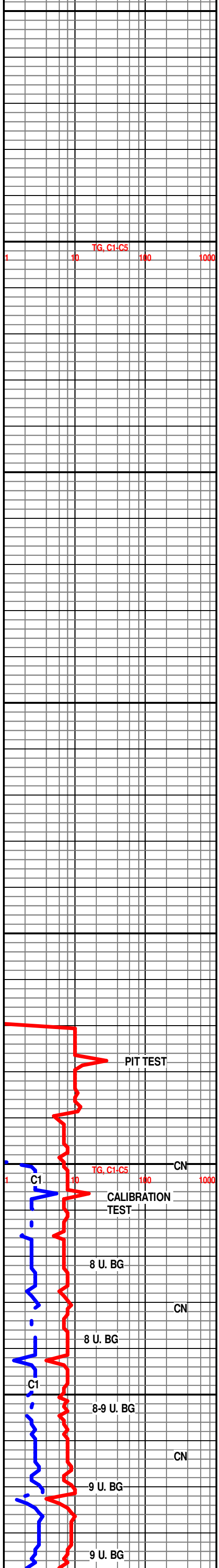
LS- TN, HD DNS TO BRTT IP, MD/F-XLN MTRX, FREE FOSS THRU, IMB FOSS FRAGS IP, V DUL YEL FLO IN 30%, NO VIS POR, NO VIS SHOW

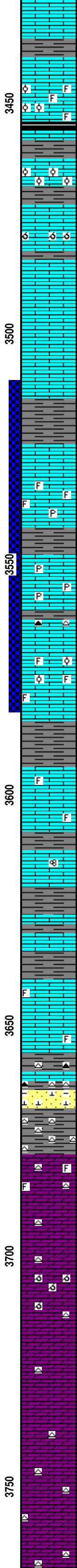
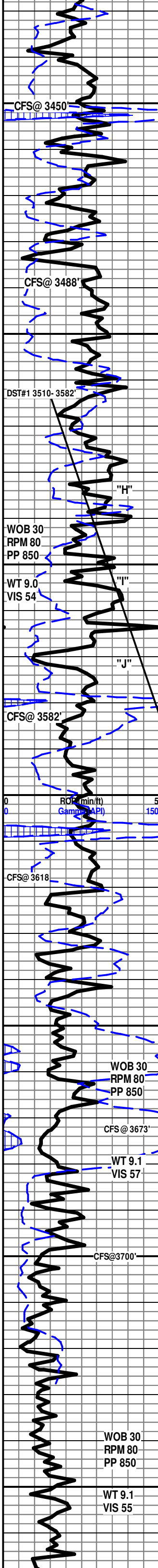
SH- LT GY TO GY & LT GRN IP, FRM TO V SFT, BLCKY SMTH TXT

LS- CRM TO LT TN, HD DNS TO BRTT, MD/F-XLN MTRX, RE-XLN IP, TR S-CHLKY IP, SCAT FREE FOSS, IMB FOSS FRAGS IP, TR SFT WHT CHLK IP, DUL YEL FLO IN 40%, NO VIS POR, NO VIS CUT OR SHOW/ SH- LT GY TO GY, FRM TO SFT, BLCKY SMTH TXT

SH- GY TO DK GY, SFT TO V GMMY THRU, BLCKY

HOWARD 3088'-945'





1%, FR FLSH CUT IN 50%, GD SLW STRM CUT IN 60%, FR OIL ODOR, LT TN TO TN LCH ON DSH

3448'-3451' LS- TN TO DK TN (DUE TO OIL STN IN 100%), HD DNS TO BRIT, MD-XLN, SUCRO MTRX, IMB FOSS FRGS THRU, SCAT IMB OOLITES, YEL GLD FLO IN 80%, SPTD BRT YEL GLD FLO IN 10%, PR MICRO VUG POR IN 1%, PR FOSS POR IP, GD FLSH CUT THRU, GD SLW STRM CUT THRU, DK TN LCH ON DSH, GD OIL ODOR

LANSING "F" 3461'-1318'

3463'-3468' LS- LT TN TO TN (DUE TO OIL STN IN 30%), HD DNS TO BRIT, RE-XLN MTRX, S-CHLKY ABDT IMB OOLITIES, V-OOLITIC, SFT WHT CHLK IP, DUL YEL GLD FLO IN 40%, BRT YEL GLD FLO IN 15%, FR INTER-OOLITC POR IN 2%, PR TO FR WK FLSH CUT IN 30%, FR TO GD SLW STRM CUT IN 50%, LT TN TO TN LCH ON DSH, FR OIL ODOR

LS- OFF WHT CRM BFF- HD DNS TO TR BRIT, MD-F-XLN RE-XLN MTRX IP TR FOSS FRGS IP, SLI TR S-CHLKY TO CHLKY IP, LT YEL MIN FLO, NOVIS POR, NO VIS SHOW OR CUT

LANSING "H" 3525' - 1382'

3532-3536' LS- OFF WHT TO CRM(LT TN STN IN 30%) HD DNS TO BRIT IP, MD-XLN RE-XLN MTRX, S-SUCRO SLI TR S-CHLKY, ABDT IMBD FOSS FRGS THRU, SLI TR DISS PYR IP, DLL YEL GLD FLO IN 40% , YEL GLD FLO IN 10%, PR TO FR SCAT INTER-FOSS POR IN 5%, PR TO FR FLSH CUT , PR TO FR SLO STRM CUT IN 20%, SLI OIL ODOR

3551-3554' LS- CRM LT TN DK TN IP- (OIL STN IN 25%) HD DNS TO BRIT IP, F-V/F-XLN, MD-XLN IP, HVY TR FREE PYR CLSTRS, DLL YEL GLD FLO IN 40%, TR SPTD BRIT YEL GLD FLO IP, TR PR TO FR SCAT VUG POR IP, GD FLSH CUT TO GD SLO STRM CUT IN 50%, FR OIL ODOR,

3568-3572' LS- LT TN TO OFF WHT(SCAT LT TN STN THRU) HD DNS TO BRIT, MD-XLN RE-XLN MTRX, V/ S-SUCRO TO SLI S-CHLKY, IMBD FOSS FRGS IP, SLI TR MICRO OOL , SMLL CALC XLS IP, BRIT YEL GLD FLO IN 80%, DLL YEL GLD FLO IN 20%, PR TO TR FR VUG POR IN 5%, TR INTER-FOSS POR IN 5%, POSS FRACT POR, FR FLSH CUT THRU, FR TO GD SLO STRM CUT IN 70%,LT TN STN ON DISH, GD OIL ODOR

LS- CRM LT TN TN- HD DNS TO TR BRIT, MD-F-XLN RE-XLN MTRX, ABDT IMBD SCAT FOSS FRGS IP, SLI SUCRO S-CHLKY IP, DLL YEL MIN FLO IP TO O VIS FLO, O VIS POR, NO VIS SHOW

LS- OFF WHT CRM BFF- HD DNS TO BRIT, F-XLN IP TO TT SUCRO SLI S-CHLKY MTRX, TR FOSS FRGS IMBD IP, NO FLO TO TR DLL YEL MIN FLO , NO VIS POR, NO VIS SHOW

BKC 3621' - 1478'

SH- RED GY - FRM BLKY SMTH TXT TO SFT GMMY IP

LS- CRM BFF- HD DNS F-V/F-XLN, S-SUCRO IP TO SLI TR S-CHLKY IP, TR PHNTM FOSS FRGS IMBD IP, NO FLO, NO VIS POR, NO VIS SHOW OR XCUT

LS- & SH INTERBEDS- RED CRM LT TN- HD DNS MD-XLN TO SUCRO MTRX, V/ ARG TO SHLY, ABDT IMBD AND FREE WHT GREEN CRM CHRT, NO FLO, NO VIS POR, NO VIS SHOW

SS- FRSTY WHT- HD TT TR FRI-F-V/F- GRN QURTZ, CLR GRNS, S-ANG TO S-RND , FR SRT, V/ CALC CMNT THRU, SCAT IMBD DISS SH IN 50%, NO FLO, NO VIS POR, NO VIS SHOW

SH- LT TO BRIT GRN BLU- FRM BLKY SMTH WXY TXT

ARBUCKLE 3678' -1535'

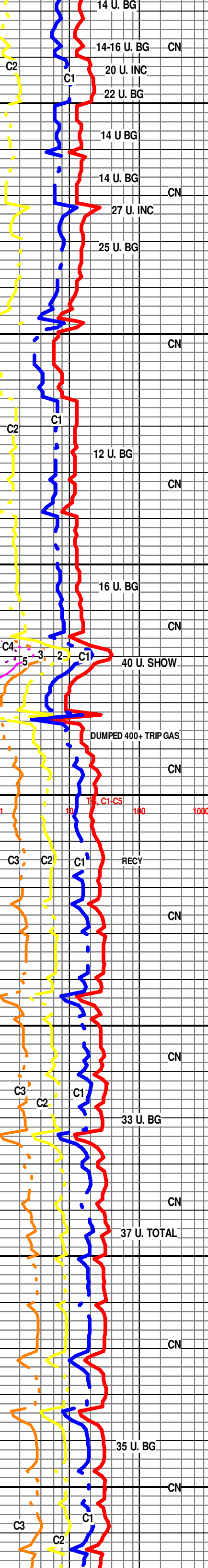
3678-3700' DOLO- LT TN TN DK TN OFF WHT IP(DUE TO STN) HD DNS TO BRIT, F-XLN IP TO MD-XLN RE-XLN MTRX, SCAT SUCRO IP, SCAT IMBD FOSS FRGS IP, TR IMBD LT TN CHRT IP, TR IMBD SMLL ANG DOLO GRNS IP, SLI TR IMBD SFT WHT CHLK, DLL YEL GLD FLO IN 60%, DLL YEL FLO IN 20%, NO FLO IN 20%, PR VIS INTER-XLN POR IP, TR SCAT PR MICROVUG POR IN 3%, GD INST FLSH CUT IN 60%, GD SLO STRM CUT IN 60%, NO CUT IN 30%, FR OIL ODOR, BRSN STN ON DISH

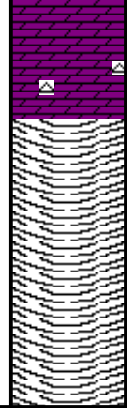
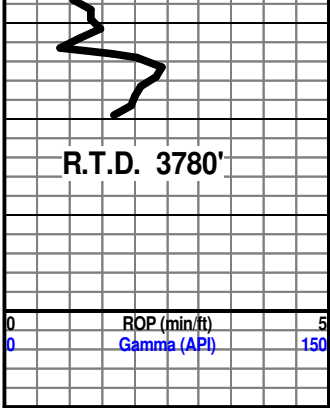
DOLO - OFF WHT LT TN TN (DUE TO SCAT TN STN IN 30%), HD DNS TO BRIT IP F-XLN TO MD-XLN , V/ SUCRO IP, OOLMLD IP, HVY TR SFT WHT CHLK, TR SCAT DOS IN 10%, , TR TN CHRT, DLL YEL GLD FLO IN 30%, DLL YEL MIN FLO IN 70%, PR VIS INTER-XLN POR IN 5%, PR SCAT OOLMLD POR IN 5%, WK FLSH CUT IN 30%, PR TO FR SLO STRM CUT IN 20%, V/ SLI OIL ODOR

DOLO- WHT OFF WHT LT TN- HD DNS TO SFT IP, F-X/F-XLN, TO SLI SUCRO IP TO HVY TR S-CHLKY , ABDT SFT WHT CHLK IP, TR TN CHRT, DLL YEL FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

DOLO- LT TN TN OFF WT IP, HD DNS TO V/ BRIT, F-V/F-XLN TO TT SUCRO MTRX IP ABDT SFT WHT CHLK IP, HVY TR TN WTHRD CHRT, DLL YEL FLO THRU, PR VIS INTER-XLN POR IP , NO VIS SHOW OR CUT

DOLO- LT TN TN- HD DNS TO BRIT, V/ SUCRO MTRX





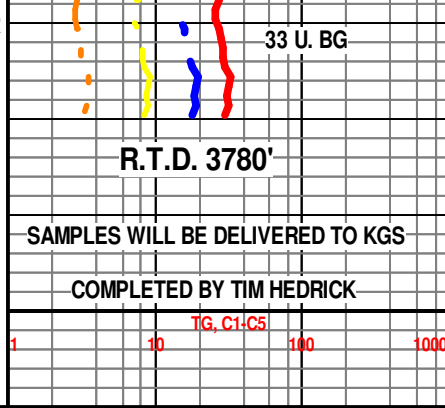
DOES LET IN IN THE DRIS TO BRIT, V. SCORIO MITHA,
 ABDT IMBD SMLL TO MD ANG DOLO GRNS THRU, HVY TR
 ABDT SFT WHT CHLK, ABDT TN WHT WTHRD CHRT, DLL
 YEL FLO THRU, PR TO FR SCAT INTER-XLN POR IP, NO
 VIS SHOW OR CUT

R.T.D. AT 10:55 P.M. AUG 7, 2012

CTCH 1.5 HRS

TOFL

WEATHERFORD/LIBERAL



0	ROP (min/ft)	5
0	Gamma (API)	150