



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1131363
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
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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: _____



1131363

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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: Yes No

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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 <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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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

April 03, 2013

John Kinney
Strata Exploration, Inc.
PO BOX 401
FAIRFIELD, IL 62837-0401

Re: ACO1
API 15-097-21745-00-00
Bordewick 1-14
NE/4 Sec.14-27S-18W
Kiowa 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,
John Kinney



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Strata Exploration Inc.

14-27-18w Kiowa Ks.

P.O.Box 401
Fairfield Il.62837

Bordewick #1-14

Job Ticket: 50832

DST#: 1

ATTN: Jon Christensen

Test Start: 2013.01.23 @ 17:15:17

GENERAL INFORMATION:

Formation: **Lans. A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:12:02

Time Test Ended: 00:43:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 4151.00 ft (KB) To 4168.00 ft (KB) (TVD)

Reference Elevations: 2172.00 ft (KB)

Total Depth: 4168.00 ft (KB) (TVD)

2161.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8352 Outside

Press @RunDepth: 26.11 psig @ 4152.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.23

End Date:

2013.01.24

Last Calib.:

2013.01.24

Start Time: 17:15:22

End Time:

00:43:39

Time On Btm:

2013.01.23 @ 19:10:17

Time Off Btm:

2013.01.23 @ 22:33:32

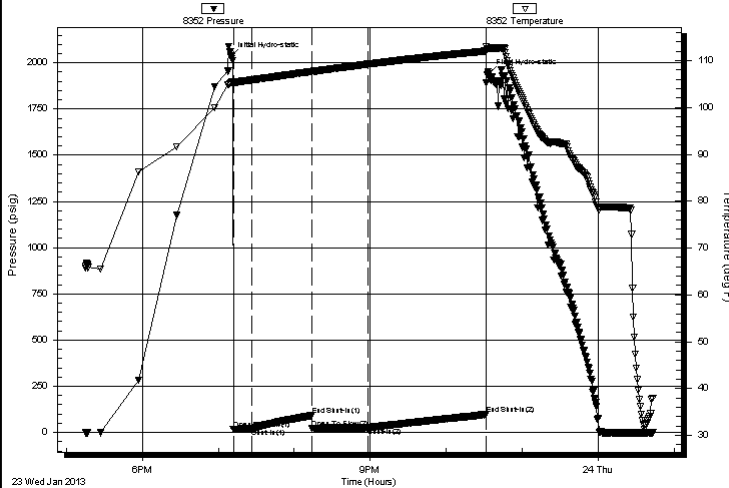
TEST COMMENT: IF:Fair blow . 4 - 6".

IS:No blow .

FF:Weak blow . 2 - 3".

FS:No blow .

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2032.34	105.36	Initial Hydro-static
2	16.46	105.14	Open To Flow (1)
17	20.77	105.88	Shut-In(1)
64	91.30	107.68	End Shut-In(1)
64	20.92	107.67	Open To Flow (2)
109	26.11	109.25	Shut-In(2)
202	98.08	112.04	End Shut-In(2)
204	1941.11	112.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM8%o 92%m /Clean oil @ top of tool	0.07
0.00	165 ft.of GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Strata Exploration Inc.

14-27-18w Kiowa Ks.

P.O.Box 401
Fairfield Il.62837

Bordewick #1-14

Job Ticket: 50832

DST#: 1

ATTN: Jon Christensen

Test Start: 2013.01.23 @ 17:15:17

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

6000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
15.00	OCM8%o 92%m /Clean oil @ top of tool	0.074
0.00	165 ft.of GIP	0.000

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

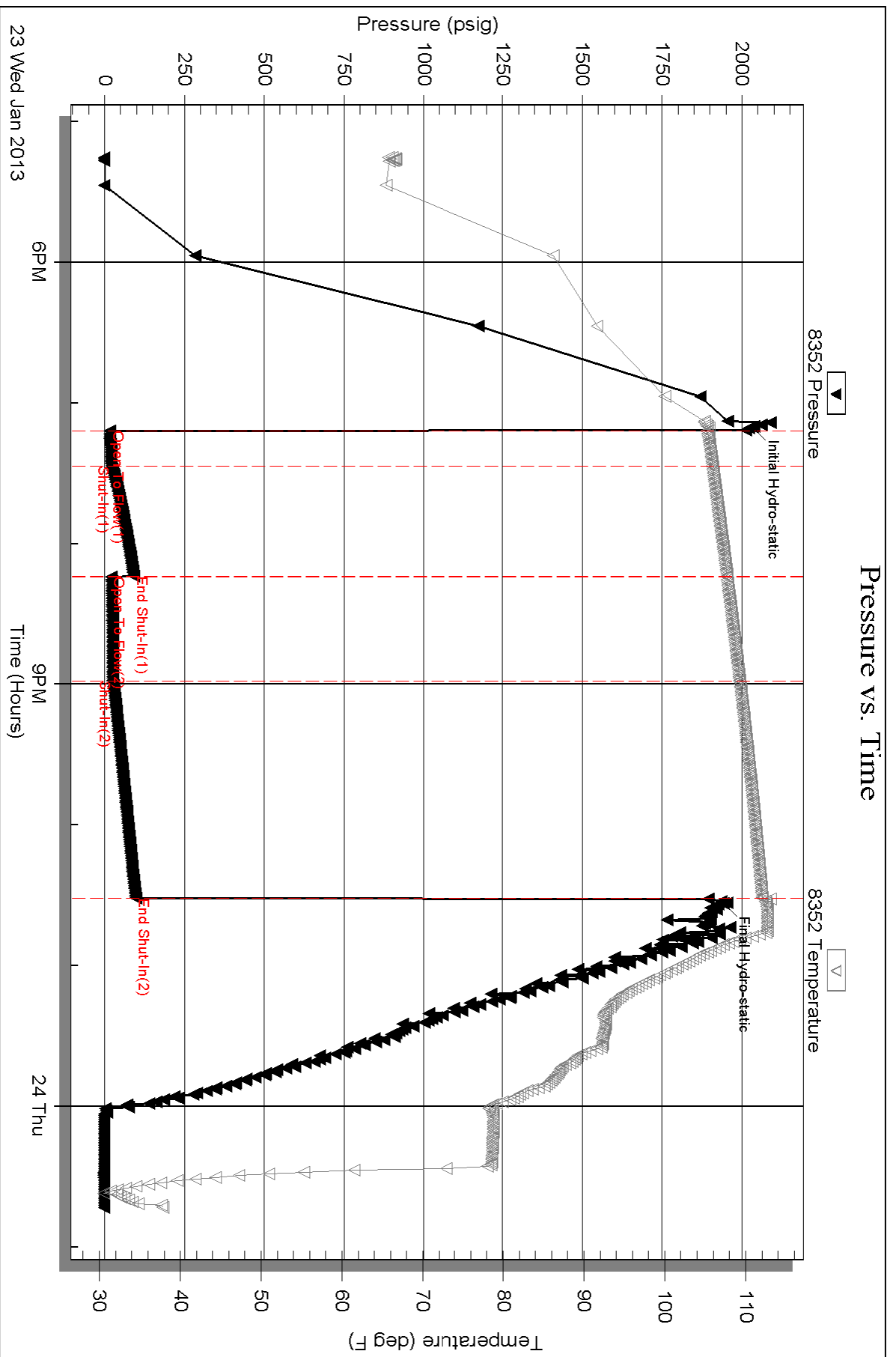
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Strata Exploration Inc.

14-27-18w Kiowa Ks.

P.O.Box 401
Fairfield Il.62837

Bordewick #1-14

Job Ticket: 50833

DST#: 2

ATTN: Jon Christensen

Test Start: 2013.01.25 @ 03:12:43

GENERAL INFORMATION:

Formation: **Swope/Hertha**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:39:58

Time Test Ended: 11:27:58

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 4450.00 ft (KB) To 4496.00 ft (KB) (TVD)

Reference Elevations: 2172.00 ft (KB)

Total Depth: 4496.00 ft (KB) (TVD)

2161.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8352 Outside

Press @ Run Depth: 85.63 psig @ 4451.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.25 End Date: 2013.01.25

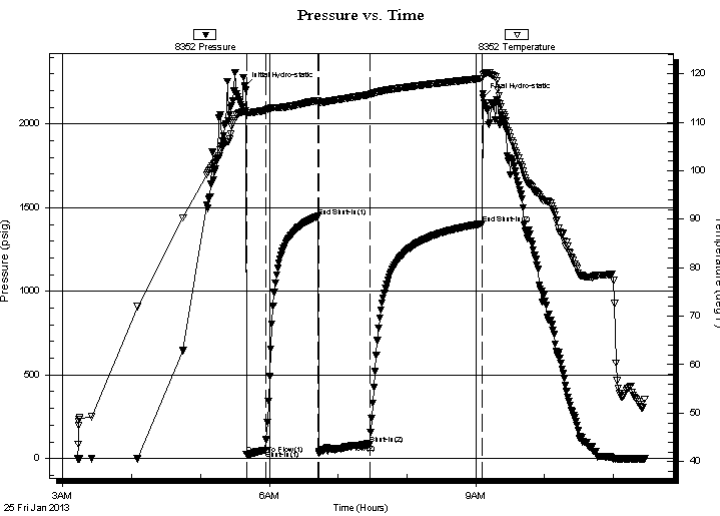
Last Calib.: 2013.01.25

Start Time: 03:12:48 End Time: 11:27:57

Time On Btm: 2013.01.25 @ 05:38:28

Time Off Btm: 2013.01.25 @ 09:06:28

TEST COMMENT: IF: Strong blow . B.O.B. in 3 mins.
IS: Weak blow . 1 - 2".
FF: Strong blow . B.O.B. in 20 secs.
FS: Weak blow . 1 - 3 1/2".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2222.27	112.31	Initial Hydro-static
2	24.25	111.51	Open To Flow (1)
18	50.39	112.49	Shut-In(1)
64	1447.74	114.47	End Shut-In(1)
65	31.87	114.06	Open To Flow (2)
109	85.63	115.70	Shut-In(2)
207	1405.01	119.06	End Shut-In(2)
208	2159.65	119.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMCO 30%g 27%m 43%o	0.59
100.00	GOCM 25%g 32%o 43%m	0.52
10.00	Clean oil	0.14
0.00	1360 ft.of GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Strata Exploration Inc.

14-27-18w Kiowa Ks.

P.O.Box 401
Fairfield Il.62837

Bordewick #1-14

Job Ticket: 50833

DST#: 2

ATTN: Jon Christensen

Test Start: 2013.01.25 @ 03:12:43

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:

7000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	GMCO 30%g 27%m 43%o	0.590
100.00	GOCM 25%g 32%o 43%m	0.519
10.00	Clean oil	0.140
0.00	1360 ft.of GIP	0.000

Total Length: 230.00 ft

Total Volume: 1.249 bbl

Num Fluid Samples: 0

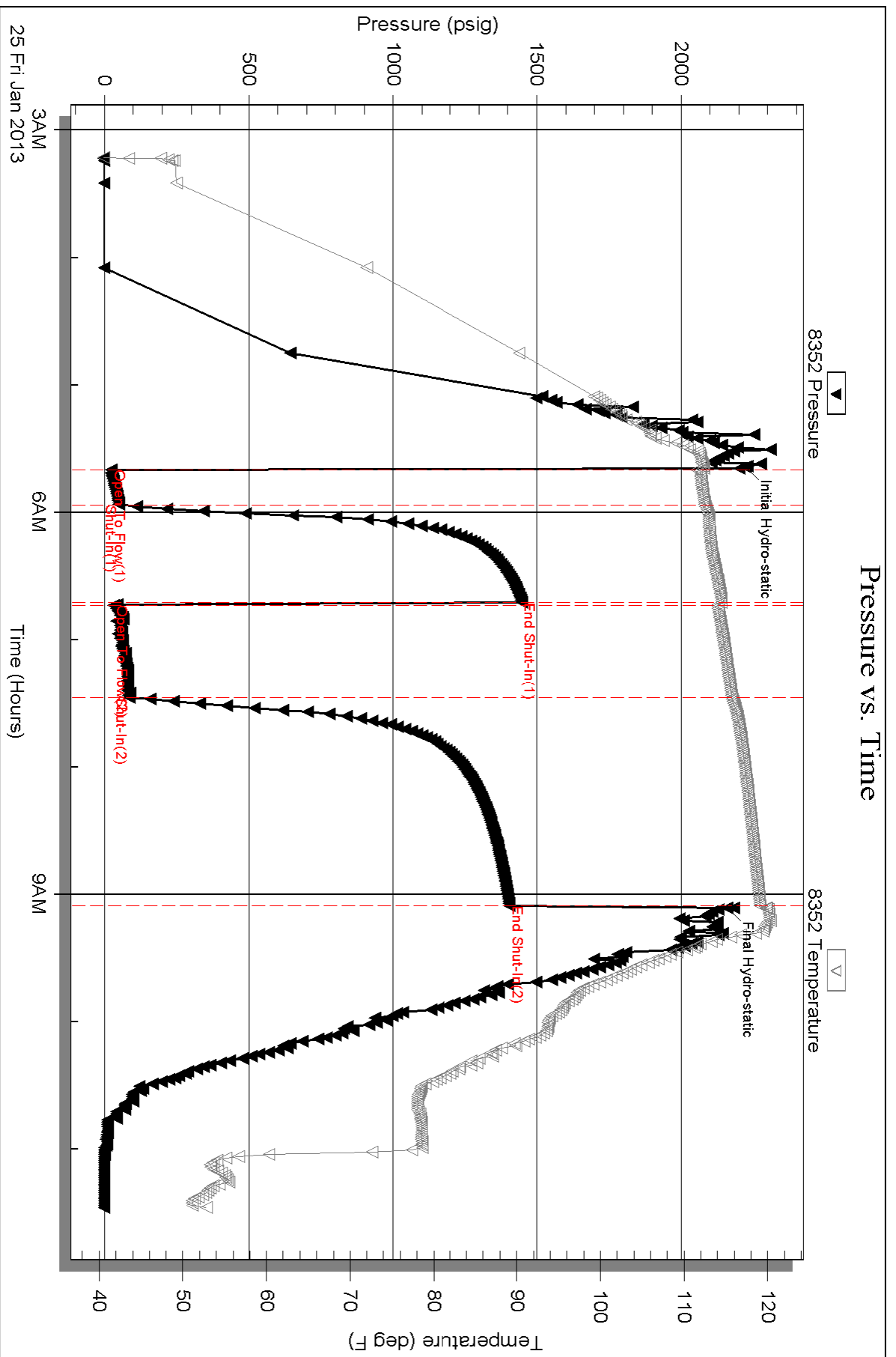
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Strata Exploration Inc.

14-27-18w Kiowa Ks.

P.O.Box 401
Fairfield Il.62837

Bordewick #1-14

Job Ticket: 50834

DST#: 3

ATTN: Jon Christensen

Test Start: 2013.01.26 @ 10:41:24

GENERAL INFORMATION:

Formation: **Miss. Chert**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:19:09

Time Test Ended: 18:46:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 4678.00 ft (KB) To 4736.00 ft (KB) (TVD)

Reference Elevations: 2172.00 ft (KB)

Total Depth: 4736.00 ft (KB) (TVD)

2161.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8352 Outside

Press @ RunDepth: 27.30 psig @ 4679.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.26

End Date: 2013.01.26

Last Calib.: 2013.01.26

Start Time: 10:41:29

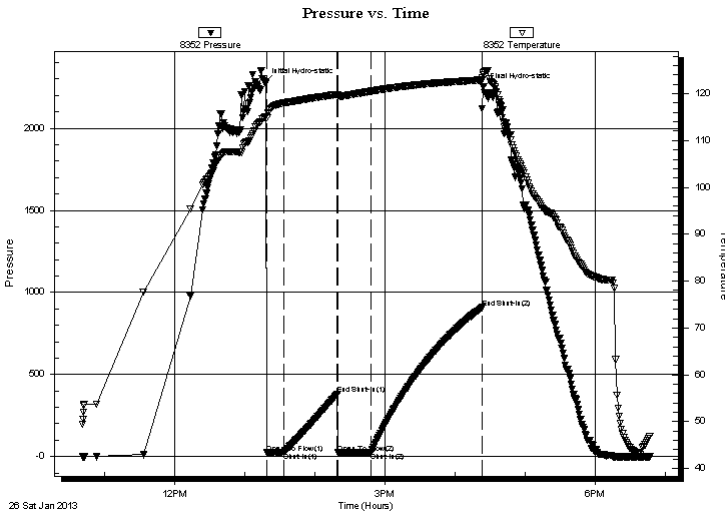
End Time: 18:46:53

Time On Btm: 2013.01.26 @ 13:17:24

Time Off Btm: 2013.01.26 @ 16:23:54

TEST COMMENT: IF: Strong blow . B.O.B. in 3 mins.
IS: No blow .
FF: Strong blow . B.O.B. in 4 - 5 secs.
FS: No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2280.06	115.04	Initial Hydro-static
2	22.45	114.81	Open To Flow (1)
16	26.68	117.97	Shut-In(1)
62	380.80	119.84	End Shut-In(1)
63	22.40	119.68	Open To Flow (2)
91	27.30	120.51	Shut-In(2)
186	907.05	122.93	End Shut-In(2)
187	2250.35	124.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	GCM 10%g 90%m	0.10
0.00	1705 ft.of GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Strata Exploration Inc.

14-27-18w Kiowa Ks.

P.O.Box 401
Fairfield Il.62837

Bordewick #1-14

Job Ticket: 50834

DST#: 3

ATTN: Jon Christensen

Test Start: 2013.01.26 @ 10:41:24

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:

7000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	GCM 10%g 90%m	0.098
0.00	1705 ft.of GIP	0.000

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

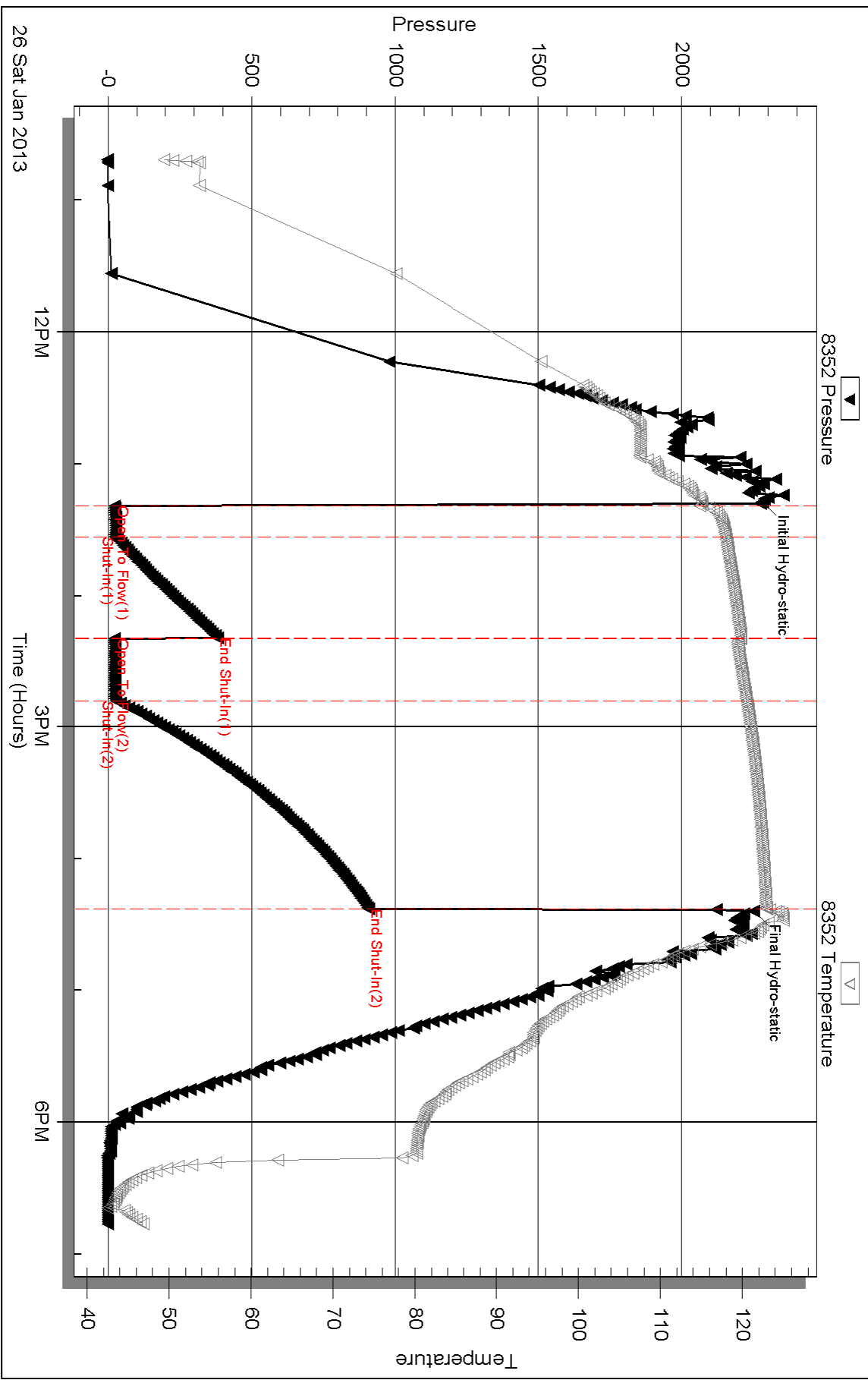
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Strata Exploration Inc.

14-27-18w Kiowa Ks.

P.O.Box 401
Fairfield Il.62837

Bordewick #1-14

Job Ticket: 50835

DST#: 4

ATTN: Jon Christensen

Test Start: 2013.01.27 @ 02:39:55

GENERAL INFORMATION:

Formation: **Kinderhook Sd.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:00:10

Time Test Ended: 10:32:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 4753.00 ft (KB) To 4771.00 ft (KB) (TVD)

Reference Elevations: 2172.00 ft (KB)

Total Depth: 4771.00 ft (KB) (TVD)

2161.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8352 Outside

Press @ RunDepth: 35.49 psig @ 4754.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.27

End Date:

2013.01.27

Last Calib.:

2013.01.27

Start Time: 02:40:00

End Time:

10:32:39

Time On Btm:

2013.01.27 @ 04:58:55

Time Off Btm:

2013.01.27 @ 08:21:25

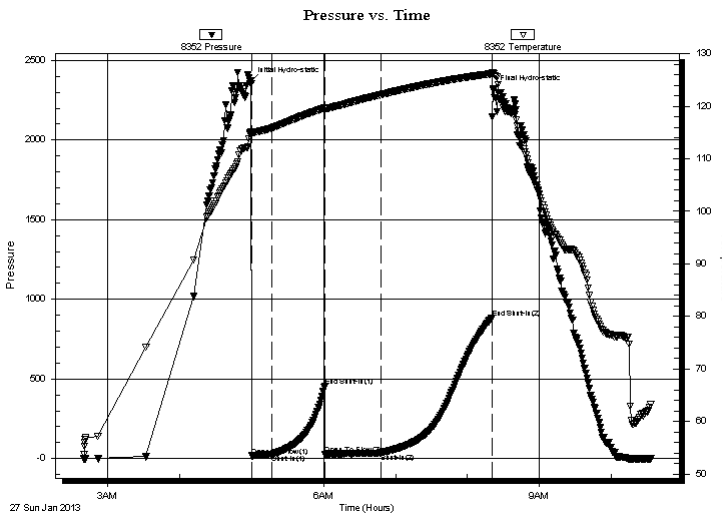
TEST COMMENT: Weak blow . 1/2 - 2".

IS:No blow .

FF:Weak blow . 1 - 3 1/4".

FS:Weak surface blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2366.13	114.89	Initial Hydro-static
2	17.00	114.64	Open To Flow (1)
18	25.48	115.83	Shut-In(1)
63	455.59	119.66	End Shut-In(1)
63	25.93	119.46	Open To Flow (2)
109	35.49	122.17	Shut-In(2)
202	883.47	126.18	End Shut-In(2)
203	2319.86	126.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	OCM 6%o 94%m/Clean oil @ top	0.12
0.00	115 ft.of GIP	0.00

Gas Rates

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

* Recovery from multiple tests



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TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Strata Exploration Inc.

14-27-18w Kiowa Ks.

P.O.Box 401
Fairfield Il.62837

Bordewick #1-14

Job Ticket: 50835

DST#: 4

ATTN: Jon Christensen

Test Start: 2013.01.27 @ 02:39:55

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:

8000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
25.00	OCM 6%o 94%m/Clean oil @ top	0.123
0.00	115 ft.of GIP	0.000

Total Length: 25.00 ft Total Volume: 0.123 bbl

Num Fluid Samples: 0

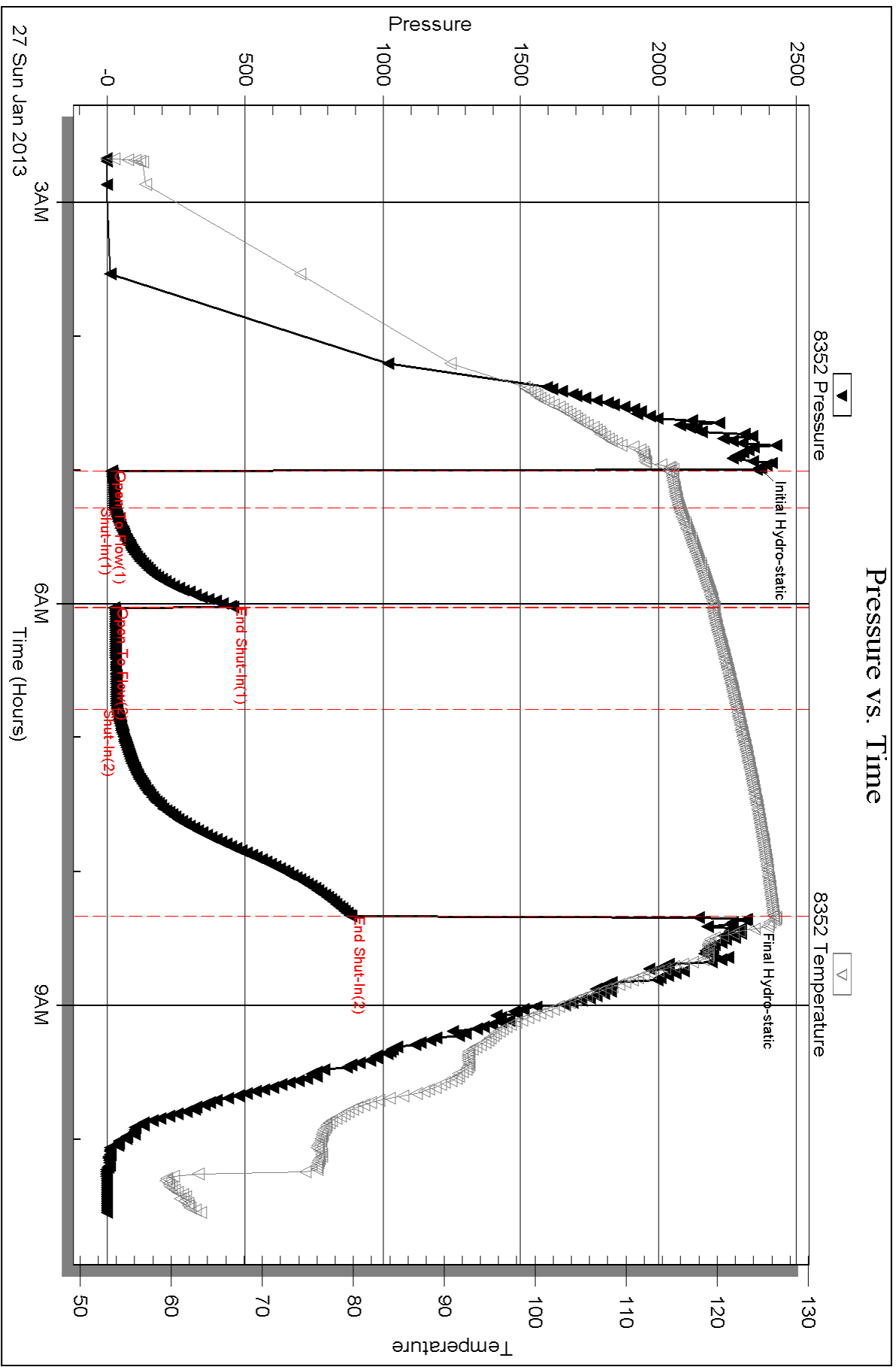
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Bordewick #1-14
Location: 2240' FNL & 400' FEL, Sec. 14-T27S-R18W, Kiowa Co., KS.
Licence Number: 15-097-21745-0000 Region: Greensburg Ext.
Spud Date: 1/18/2013 Drilling Completed: 1/27/2013
Surface Coordinates: 2240' FNL & 400' FEL, Sec. 14-T27S-R18W

Bottom Hole Same as above
Coordinates:
Ground Elevation (ft): 2161' K.B. Elevation (ft): 2172'
Logged Interval (ft): 3300' To: 4835' Total Depth (ft): 4835'
Formation: Viola at Total Depth.
Type of Drilling Fluid: Freshwater/Gel to 3016'; Chemical Gel 3016' to 4835'
Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Strata Exploration, Inc.
Address: P.O. Box 401
Fairfield, IL. 62837-0401

GEOLOGIST

Name: Jon D. Christensen
Company: Consulting Petroleum Geologist
Address: 9002 W. Silver Hollow St.
Wichita, KS. 67205-8856

Cores

None Taken

DSTs

DST #1(Lansing 'A') 4151' - 4168' Test Times 15"-45"-45"-90" IFP Fair 6" Blow, FFP Fair 3" Blow, no Blowback on SI's; REC: 165' Gas in Pipe, 15' OCM(8%O, 92%M), no Water; IFP 16-21#, ISIP 91#, FFP 21-26#, FSIP 98#, IHP 2032#, FHP 1941#, BHT 112 Deg. F.

DST #2(K.C. Swope/Hertha) 4450' - 4496' Test Times 15"-45"-45"-90" IFP Strong Blow BOB/3 Min., 2" Blowback on ISI, FFP Strong Blow BOB/20 Sec., 3.5" Blowback on FSI; REC: 1360' Gas in Pipe, 10' Clean Oil(Est. 35 - 38 Deg. API), 120' GMCO(30%G, 43%O, 27%M), 100' GHOCM(25%G, 32%O, 43%M), no Water; IFP 24-50#, ISIP 1448#, FFP 32-86#, FSIP 1405# and Building, IHP 2222#, FHP 2160#, BHT 119 Deg. F.

DST #3(Miss Chert) 4678' - 4736' Test Times 15"-45"-30"-90" IFP Strong Blow BOB/3 Min., FFP Strong Blow BOB/5 Sec., no Gas to Surface, no Blowback on SI's; REC: 1705' Gas in Pipe, 20' GCM(10%G, 90%M), no oil, no water; IFP 22-27#, ISIP 381#, FFP 22-27#, FSIP 907# and Building, IHP 2280#, FHP 2250#, BHT 124 Deg. F.

DST #4(Kinderhook Sand) 4753' - 4771' Test Times 15"-45"-45"-90" IFP Weak 2" Blow, no Blowback on ISI, FFP Weak to Fair 3.25" Blow, Weak Surface Blowback on FSI; REC: 115' Gas in Pipe, 25' OCM(6%O, 94%M), Clean Oil in top of test tool, no water; IFP 17-25#, ISIP 456#, FFP 26-35#, FSIP 883# and Building, IHP 2366#, FHP 2320#, BHT 126 Deg. F.

Comments

1/18/13 MIRU Sterling Drilling Rig #2, Spud at 7:30 PM; 1/19/13 TD. 566' - WOC; 1/20/13 Drilling at 1519'; 1/21/13 Drilling at 2690'; 1/22/13 Drilling at 3420'; 1/23/13 Drilling at 4085'; 1/24/13 Drilling at 4205'; 1/25/13 TD. 4496' - DST #2; 1/26/13 TD. 4736' CFS/CCH for DST #3; 1/27/13 TD. 4771' - DST #4, RTD. 4835' at 5:30 PM. - LTD. ' ; 1/28/13

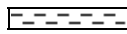



Set new 8 5/8"(23#) Surface Casing at 561' with 350 sacks cement(Basic Energy Services). Cement did Circulate. PD. 5:45 AM. on 1/19/13.





Surveys: 0.50 Deg. at 566'(Surface Casing); 0.75 Deg. at 4168'(DST #1); 1.75 Deg. at 4496'(DST #2); Deg. at 4835'(RTD).

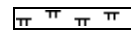

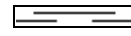
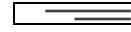
Pipe Strap at 4168'(DST #1): Strap 0.49' Short to the Board, no correction made to the Board.

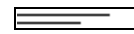



ROCK TYPES

 Anhy
 Bent
 Brec
 Cht

 Clyst
 Coal
 Congl
 Dol

 Gyp
 Igne
 Lmst
 Meta

 Mrlst
 Salt
 Shale
 Shcol

 Shgy
 Sltst
 Ss
 Till

ACCESSORIES

- MINERAL**
- Anhy
 - Arggrn
 - Arg
 - Bent
 - Bit
 - Breclfrag
 - Calc
 - Carb
 - Chtdk
 - Chtlt
 - Dol
 - Feldspar
 - Ferrpel
 - Ferr
 - Glau

- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

- FOSSIL**
- Algae
 - Amph
 - Belm
 - Bioclst
 - Brach
 - Bryozoa
 - Cephal
 - Coral
 - Crin
 - Echin
 - Fish
 - Foram
 - Fossil
 - Gastro
 - Oolite

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

- STRINGER**
- Anhy
 - Arg
 - Bent
 - Coal
 - Dol
 - Gyp
 - Ls
 - Mrst

- Sltstrg
- Ssstrg

- TEXTURE**
- Boundst
 - Chalky
 - Cryxln
 - Earthy
 - Finexln
 - Grainst
 - Lithogr
 - Microxln
 - Mudst
 - Packst
 - Wackest

OTHER SYMBOLS

- POROSITY**
- Earthy
 - Fenest
 - Fracture
 - Inter
 - Moldic
 - Organic
 - Pinpoint

- Vuggy
- SORTING**
- Well
 - Moderate
 - Poor

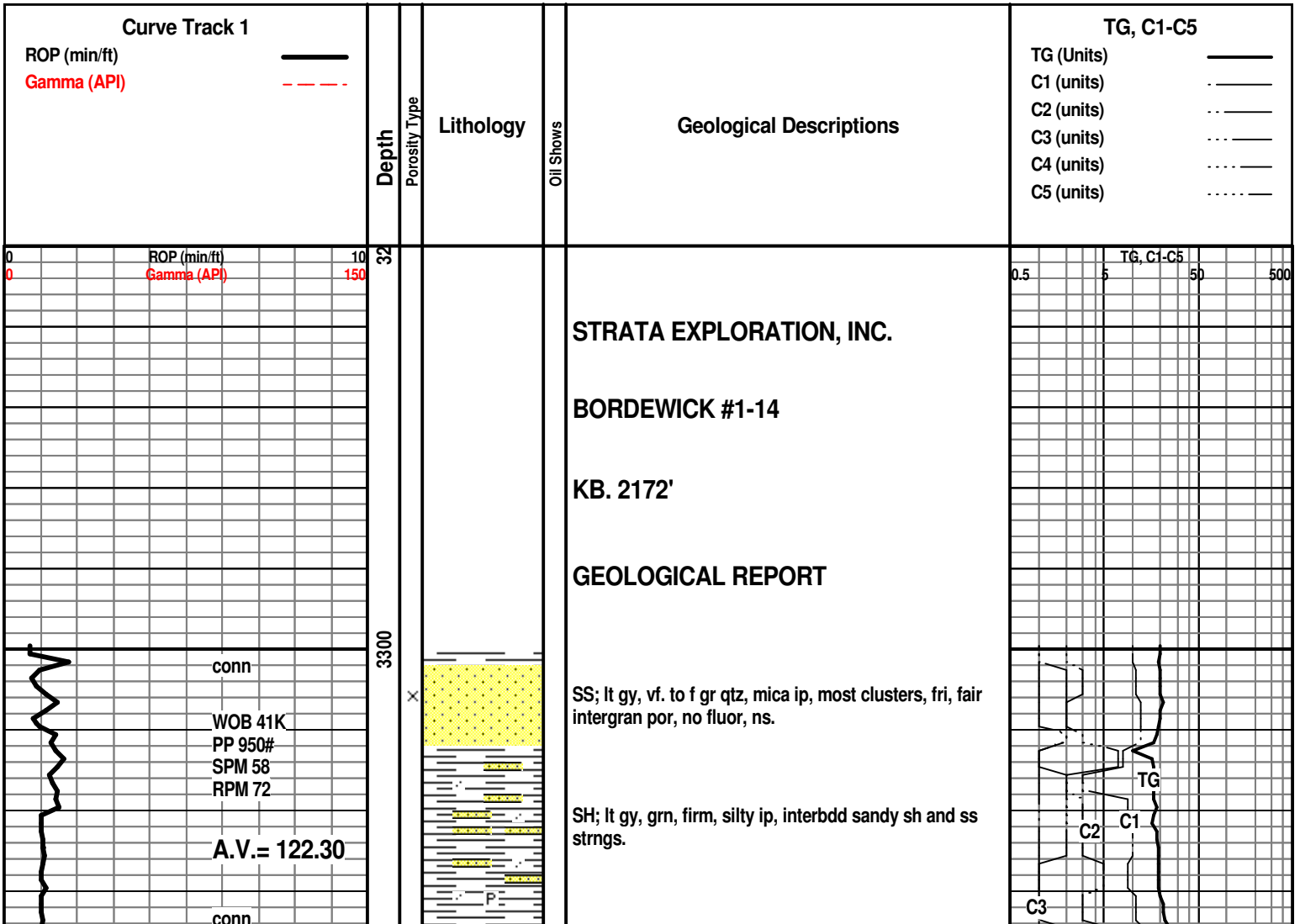
- ROUNDING**
- Rounded
 - Subrnd
 - Subang
 - Angular

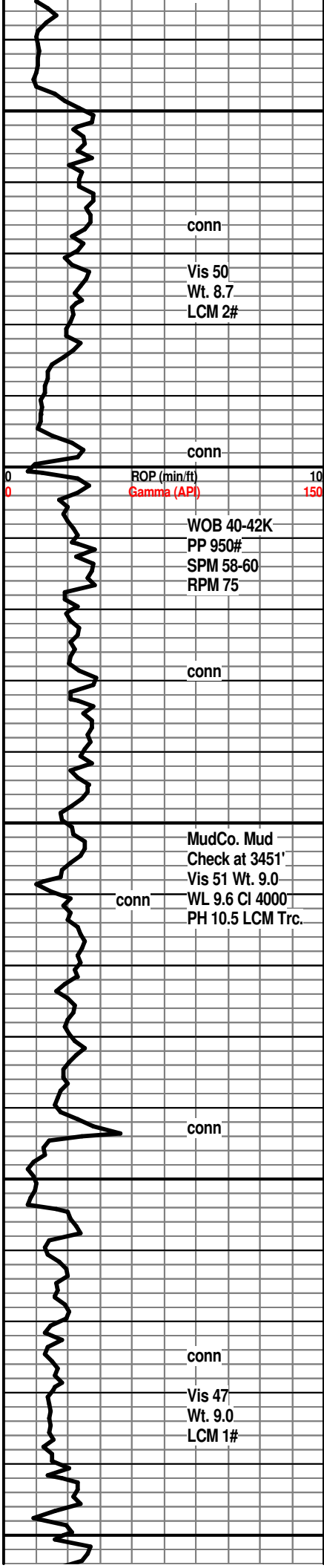
- Spotted
- Ques
- Dead

- EVENT**
- Rft
 - Sidewall

- INTERVAL**
- Core
 - Dst

- OIL SHOW**
- Even





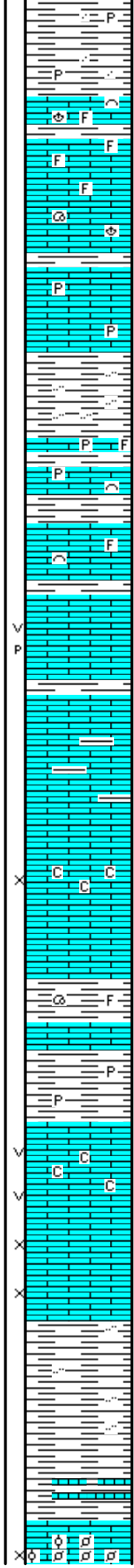
3350
3400
3450
3500
3550

conn
Vis 50
Wt. 8.7
LCM 2#

conn
ROP (min/ft) 10
Gamma (API) 150
WOB 40-42K
PP 950#
SPM 58-60
RPM 75

conn
MudCo. Mud
Check at 3451'
Vis 51 Wt. 9.0
WL 9.6 Cl 4000
PH 10.5 LCM Trc.

conn
Vis 47
Wt. 9.0
LCM 1#



SH; lt to med gy, fiss, occ silty, occ pyr

STOTLER LMST. 3348(-1176)

LM; tan to lt brn, buff, foss, abnt fusulinids, most well cem, blocky, scat lt yel min fluor, no stn or odor, no gas kick, ns.

LM; lt brn, lt gy, tan, foss, most well cem, hd, blocky, no vis por, scat lt yel min fluor, ns.

LM; med to occ dk brn, gy brn, dense, pyr ip, hd, no vis por, ns.

SH; lt to med gy, fiss - flakey, interbdd silty sh.

LM; lt to med brn, hd, foss ip, well cem, scat pyr, tite

LM; lt to med brn, most micritic, dense, scat well cem foss, spotted lt yel min fluor, ns.

LM; tan to off wh, lt brn, fxln w/scat cse spar calc xtals, dull to lt yel fluor, scat poor p-p and small vug por, no stn, ns.

LM; med brn, micritic, blocky, v. hd, interbdd argil lmst, no vis por, ns.

LM; off wh, wh, gran to med xln, fair interxln por, chalky soft mtx ip, lt yel fluor, no stn or odor, ns.

SH; med to dk gy, firm, occ foss

LM; med to dk gy brn, dense, blocky

SH; med gy, gy brn, occ pyr, firm

LM; off wh, wh, med xln, scat fair vug por, poss. gas bubbles, minor chalky mtx, dull yel fluor, no odor, no stn, poor/questionable sample shows

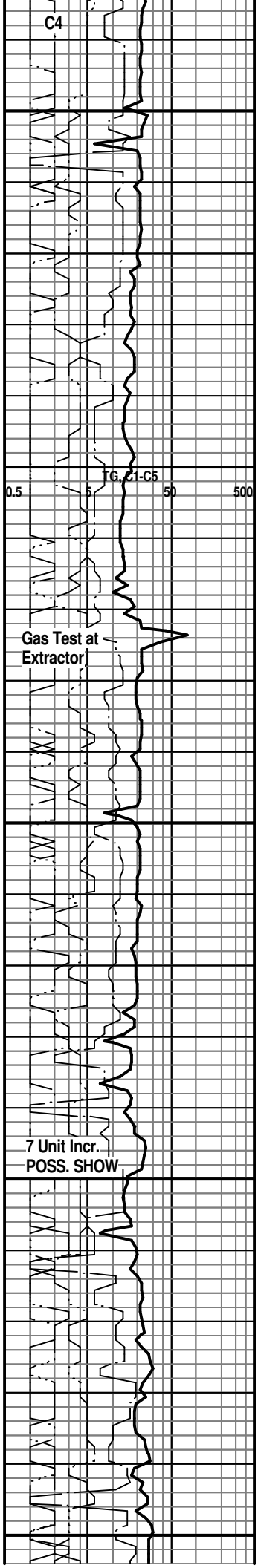
LM; tan to lt brn, med xln to gran, scat fair to gd interxln por, occ p-p por, lt yel fluor, no stn or odor, ns.

SH; med gy, platy to flakey, occ silty

SH; lt to med gy, gy grn, foss ip, interbdd shaly lmst, firm

HOWARD 3548(-1376)

LM; lt brn, tan, v. foss - finely pelletal/oolitic, compact, most well cem, poor internart por, lt yel min fluor, no

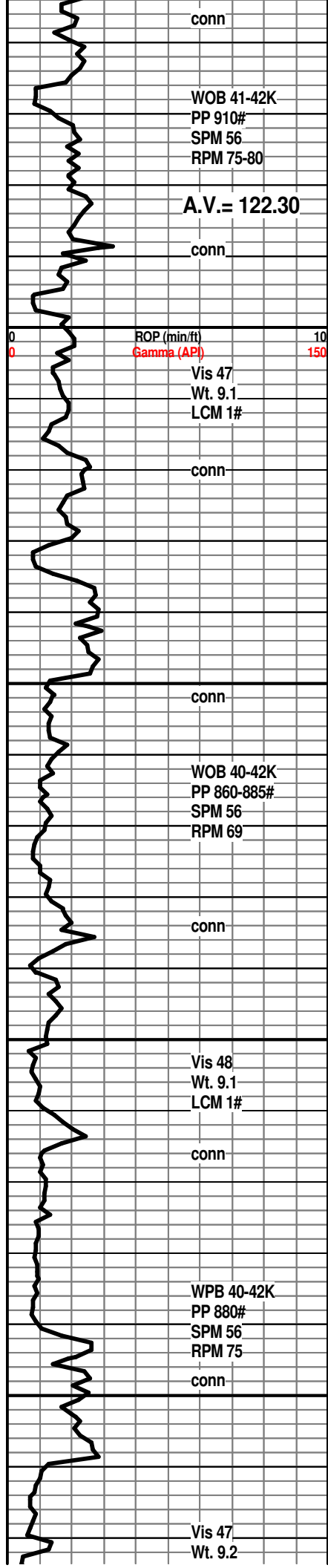


TG, C1-C5 0.5 5 50 500

Gas Test at Extractor

7 Unit Incr. POSS. SHOW

C4



conn

WOB 41-42K
PP 910#
SPM 56
RPM 75-80

A.V. = 122.30

conn

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

Vis 47
Wt. 9.1
LCM 1#

conn

conn

WOB 40-42K
PP 860-885#
SPM 56
RPM 69

conn

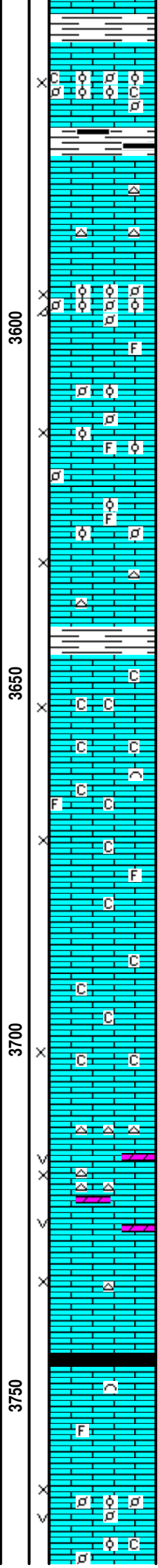
Vis 48
Wt. 9.1
LCM 1#

conn

WPB 40-42K
PP 880#
SPM 56
RPM 75

conn

Vis 47
Wt. 9.2



most. tan congl, poor interpart por, lt yel min fluor, no stn or odor, no gas kick, ns.

LM; wh, off wh, foss to med xln, fair to gd interxln por, scat finely pelletal/oolitic lmst, occ soft chalky mtx, lt to med yel min fluor, ns.

SH; dk gy, trc blk, platy

LM; wh, off wh, tan/cream, most dense, micritic, occ wh cht, tite

LM; lt brn, tan, foss - oolitic, pelletal, some compact w/poor interpart por, fair oomoldic por ip, lt yel min fluor, no gas kick, ns.

LM; lt brn, tan, foss to med xln, fair interxln w/scat interpart por, interbdd finely pelletal lmst, lt yel fluor, no stn or odor, ns.

LM; lt brn, med xln to gran, v. gd interxln por, no fluor, no stn, occ off wh to gy cht, ns.

SH; dk gy, lmy ip.

LM; off wh, wh, med xln to gran text, fair interxln por, much soft chalk and chalky mtx, dull yel min fluor, no stn or odor, ns.

LM; tan to off wh, buff, f to med xln, scat foss mat, interbdd soft chalky lmst, rare off wh cht, dull yel min fluor, ns.

LM; tan to off wh, f to med xln, gran text ip, gd interxln por, occ chalky, no fluor, no stn or odor, ns.

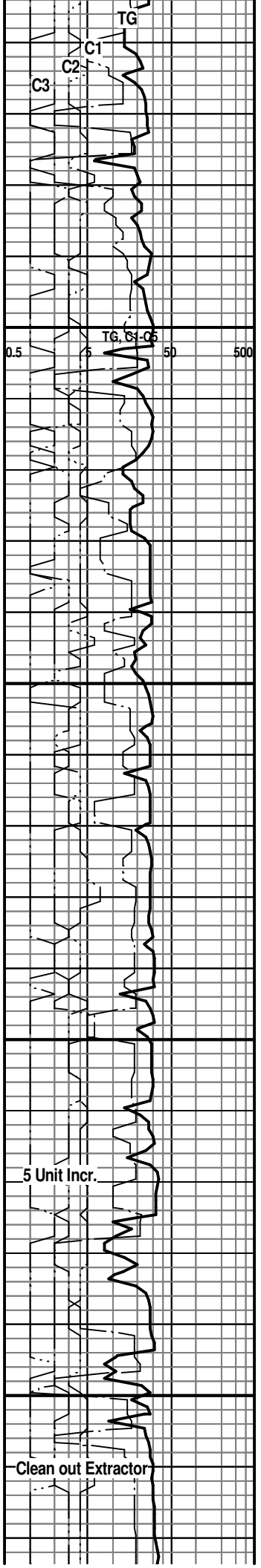
LM; off wh, buff, tan, f to med xln, occ sucrosic text, dolomitic ip, gd interxln w/wscat vug por, dull to lt yel fluor, occ cherty, no stn, no sample shows

LM; tan to lt brn, med to cse xln, v. gd interxln w/vug por, soft, dull to lt yel fluor, no stn or odor, ns.

SH; dk gy - blk, platy, firm

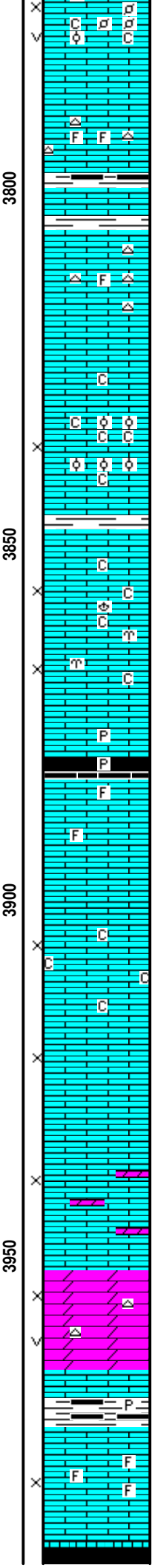
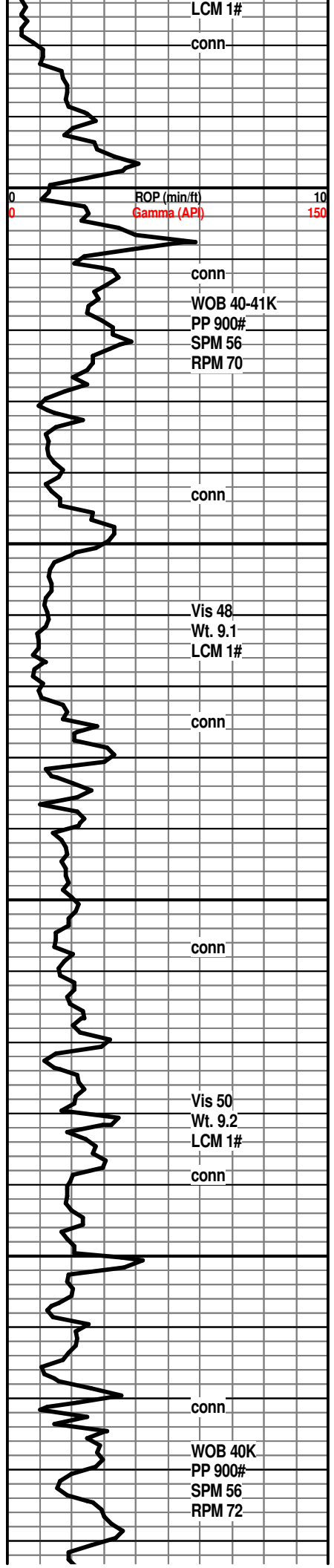
LM; lt to med brn, gy brn, blocky, hd, scat foss mat, no fluor, ns.

LM; off wh, tan, med to cse xln, v. gd interxln w/scat vug por, interbdd foss - pelletal lmst, lt yel min fluor only, no stn, no gas kick, occ soft and chalky at base, ns.



5 Unit Incr.

Clean out Extractor



LM; tan to lt brn, buff, fxln w/gy occ foss cht, no vis por, no fluor, ns.

SH; dk gy, trc blk, platy

LM; tan to lt brn, dense, micritic, blocky, interbdd off wh to gy cht, no vis por, no fluor, ns.

LM; off wh, wh, tan, f to med xln, much soft chalk and chalky mtz, fair interxln por, lt yel min fluor, interbdd foss lmst w/scat small oolites, no stn, ns.

LM; off wh, buff, tan, f to med xln, some gran text, fair to gd interxln por, interbdd chalky lmst, scat foss mat, lt yel to no fluor, no stn, ns.

LM; med to dk brn, hd, micritic, pyr ip.
QUEEN HILL SHALE 3880(-1708)
 SH; blk, platy, occ pyr

LM; tan to buff, lt brn, fxln w/occ foss mat, poor interpart por, lt yel min fluor, ns.

LM; off wh, tan, buff, f to med xln, scat cse spar calc xtals, poor to fair interxln por, bcm soft w/chalk and chalky mtz, lt yel to no fluor, no stn or odor, ns.

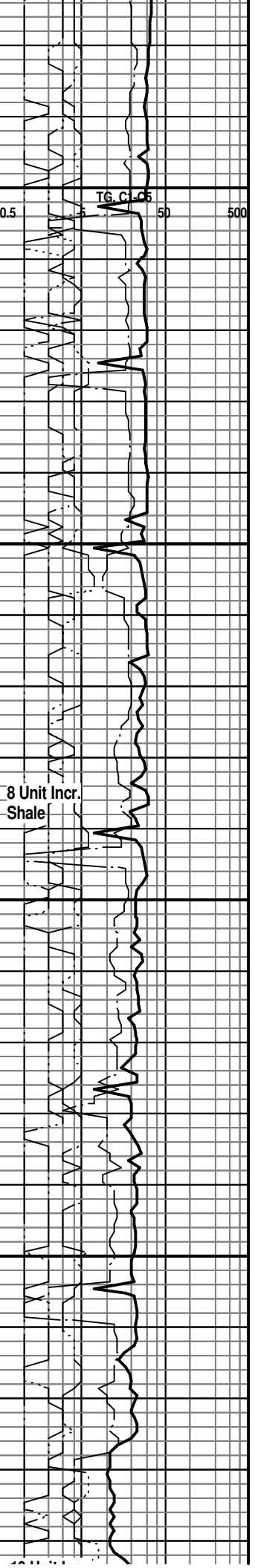
LM; tan to lt gy, off wh, f to med xln, scat foss mat, poor to fair interxln por, interbdd dolomitic lmst - some sucrosic text, lt yel min fluor, no stn or odor, ns.

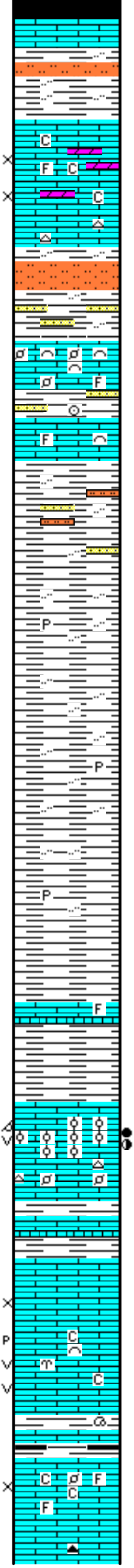
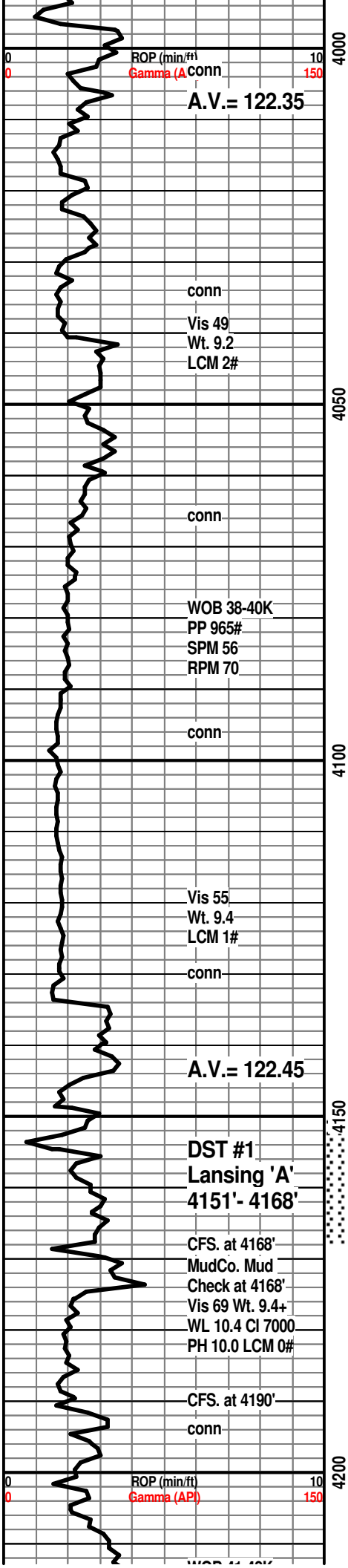
DOL; lt brn, sucrosic, fair interxln w/scat small vug por, lt yel min fluor, cherty ip, no stn or odor, no gas kick, ns.

SH; dk gy, some blk, platy, smooth, pyr ip.

LM; tan to cream, buff, fxln, occ foss, fair interxln/interpart por, interbdd wh to off wh cht, dull yel min fluor, no stn or odor, ns.

HEEBNER SHALE 3991(-1819)





SH; blk, carb ip, platy
LM; med to dk brn, dense, blocky

SH; grn, gy grn, silty w/interbdd sltst

TORONTO 4010(-1838)
LM; wh, off wh, buff, f to med xln, trc sucrosic text, partly dolomitic, fair interxln por, bcm partly chalky, lt yel min fluor, ns.

DOUGLAS SHALE 4028(-1856)
SH; lt gy, silty w/interbdd sltst, mica ip, trc vf gr qtz ss

LM; lt to med brn, gy brn, foss, abnt fine pellets and foss hash, well cem, lt yel min fluor, no stn, ns.

LM; med brn, hd, scat foss mat, dense

SH; lt to med gy, silty, interbdd silty sh and vf gr qtz ss strngs

SH; lt to med gy, platy, some very soft - flakey

SH; lt to med gy, soft - sticky ip, platy, occ pyr

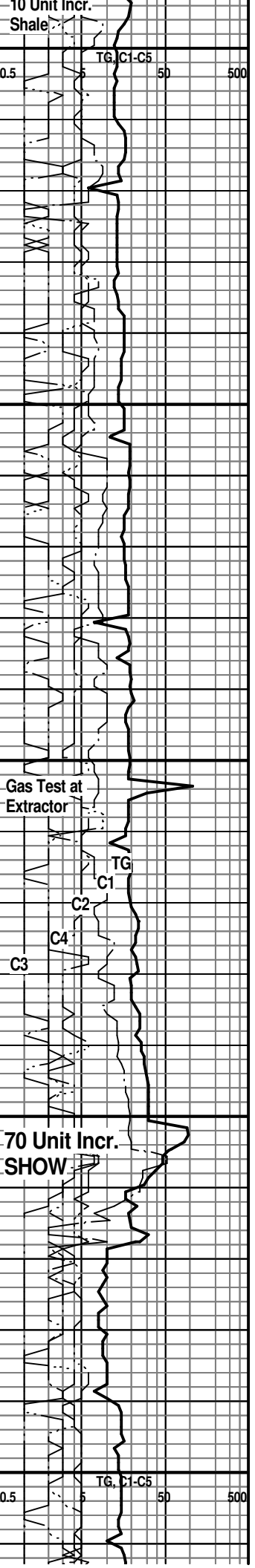
BROWN LMST. 4134(-1962)
LM; med brn, dense, blocky, foss ip.
SH; med gy, gy grn, foss, lmy w/interbdd calc sh

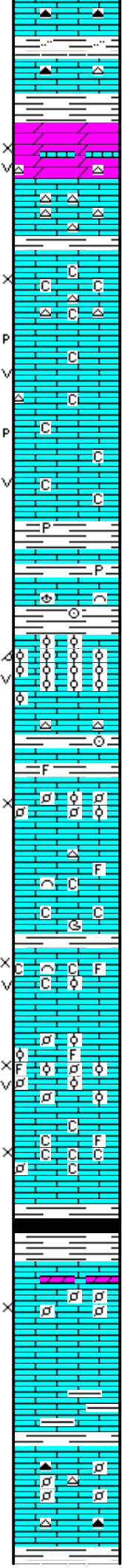
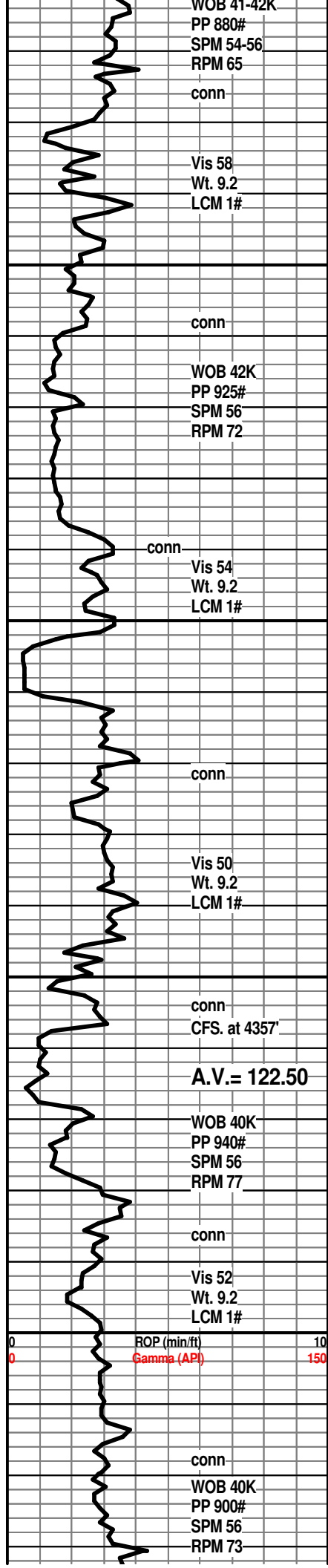
LANSING 'A' 4148(-1976)
LM; lt to med brn, oolitic, med to lrg molds, gd oomoldic por, scat vug por, brittle ip, med to brite yel fluor, fair/gd odor, spotted to even lt brn oil stn, SSFO, gas bubbles, fair/gd cut
LM; off wh, lt brn, foss- well cem, lt yel fluor, ns.

DST #1: Lansing 'A' 4151' - 4168'
LANSING 'B' 4170(-1998)
LM; off wh, lt gy, f to med xln, fair interxln por, trc frags, lt yel fluor, trc. v. spotted lt brn stn, trc gas bubbles, no gas kick
LM; tan to lt gy, foss w/fair vug/occ p-p por, dull yel fluor, no vis gas bubbles, no vis stn, no odor, no gas kick, minor chalkly mtz, ns.

SH; med gy, grn, trc dk gy/blk, foss ip, platy

LM; tan to off wh, fxln w/scat foss mat, fair interpart por, minor chalky - soft mtz, dull yel fluor, no stn or odor, no gas kick, ns.





LM; med brn, dense, foss ip, hd

SH; grn, platy, silty ip.

LM; med to dk brn, dense, scat gy/brn cht, tite

DOL; tan to off wh, sucrosic, lmy ip, fair interxln w/occ small vug por, lt yel fluor, no stn, no gas kick, ns.

LM; off wh, tan, most dense, micritic, cherty

LM; wh, off wh, f to med xln, poor to fair interxln por, soft chalky mtx, dull yel to no fluor, no stn or odor, occ cherty, ns.

LM; wh to off wh, med xln w/sev. opaque cse spar calc xtals, fair vug and p-p por in some, chalky mtx, no fluor, no stn or odor, ns.

SH; med to dk gy, platy, occ pyr

LM; med brn, dense, foss ip, hd

LANSING/KC. 'H' 4302(-2130)
LM; lt brn, tan, oolitic, med to lrg molds, v. gd oomoldic por, scat vugs, brittle, some rextalized, v. dull yel fluor, no stn or odor, no gas kick, barren, ns.

SH; med to dk gy, gy grn, firm, foss ip.

LM; tan to lt brn, off wh, foss - pelletal to oolitic, poor to fair interpart por, some well cem, lt yel fluor, no vis stn, no odor, ns.

LM; off wh, tan, fxln to micritic, scat foss mat, interbdd chalky lmst, no vis por, no fluor, ns.

KANSAS CITY 'I' 4346(-2174)
LM; off wh, cream, buff, foss fair interpart w/small vug por, minor chalky mtx, no fluor, no stn or odor, ns.

LM; wh, off wh, v. foss - oolitic, most med size ooids, compact, fair to gd interpart por, occ vug por, partly oomoldic, chalky mtx ip, lt yel min fluor, no stn or odor, no gas kick, ns.

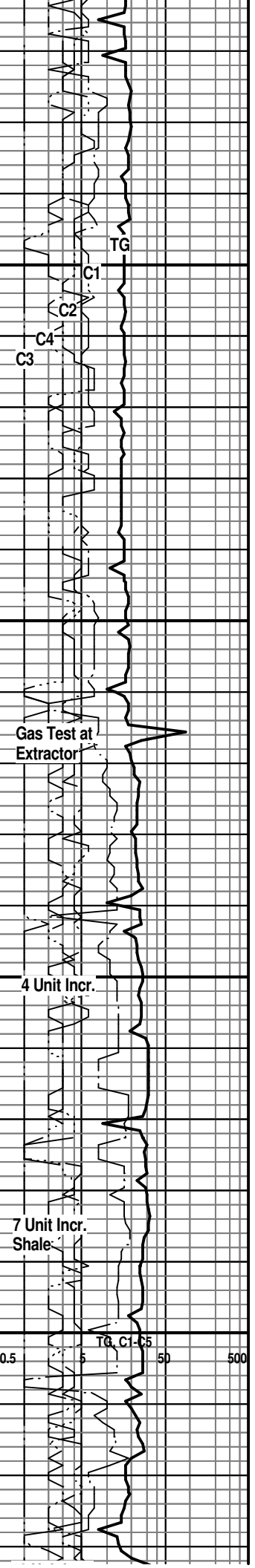
LM; tan to off wh, foss to partly sucrosic text, fair interpart por, much soft chalky mtx, lt yel fluor, some chalk has brite yel fluor, ns.

SH; dk gy, some blk, fiss to flakey

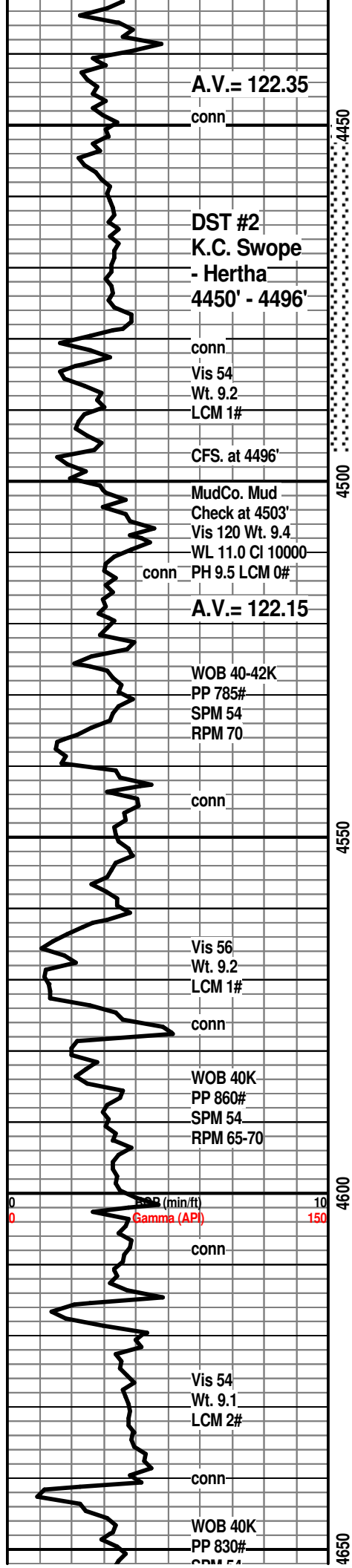
KANSAS CITY 'J' 4390(-2218)
LM; tan to lt brn, foss - finely pelletal ip, most well cem, poor interpart por, interbdd sucrosic text dolo. lmst, lt yel min fluor, no stn or odor, ns.

LM; med brn, gy brn, argil ip, firm, no vis por, no fluor, ns.

LM; lt to med brn, hd, micritic, blocky, scat well cem foss pellets, occ tan to amber cht, no vis por, ns.



STARK SHALE 4432(-2261)



A.V.= 122.35

conn

DST #2
K.C. Swope
- Hertha
4450' - 4496'

conn

Vis 54
Wt. 9.2
LCM 1#

CFS. at 4496'

MudCo. Mud
Check at 4503'
Vis 120 Wt. 9.4
WL 11.0 CI 10000
conn PH 9.5 LCM 0#

A.V.= 122.15

WOB 40-42K
PP 785#
SPM 54
RPM 70

conn

Vis 56
Wt. 9.2
LCM 1#

conn

WOB 40K
PP 860#
SPM 54
RPM 65-70

conn

Gamma (API)

conn

Vis 54
Wt. 9.1
LCM 2#

conn

WOB 40K
PP 830#
SPM 54



SH; blk, carb ip, platy, scat pyr

SWOPE 4440(-2268)

LM; tan to buff, lt brn, f to med xln, scat foss mat, poor interxln por, no fluor, no stn or odor, no gas kick

LM; off wh, buff, lt gy, med xln, trc fracs w/edge stn, spotted lt/ med yel fluor, spotted lt brn stn, SSFO, fair odor, fair p-p and vug por, some pcs bleeding oil, fair cut

LM; tan to lt brn, most dense, micritic, blocky, occ tan to gy cht, no vis por, ns.

SH; blk, carb ip, platy

HERTHA 4484(-2312)

LM; tan to cream, buff, off wh, foss ip, occ finely pelletal, fracs w/edge stn, med yel fluor, lt brn F.O. droplets in fracs, faint odor, gd cut

DST #2: Swope/Hertha 4450'- 4496'

LM; off wh, buff, foss w/scat small pellets, chalky soft mtx, poor interpart por, dull yel fluor, no vis stn, no odor, ns.

SH; med gy, grn, pyr ip, platy

LM; med to dk brn, hd, micritic, scat dk gy to smoky/blk cht, tite

BASE KANSAS CITY 4524(-2356)

SH; grn, gy grn, rust red, maroon, silty, w/brn nodular to foss hd lmst.

PLEASANTON 4540(-2368)

LM; tan to off wh, lt brn, foss ip, most well cem, scat chalky mtx, no fluor, no stn or odor, ns.

SH; red, red brn, grn, soft - sticky

LM; lt brn, buff, hd, micritic, no vis por, ns.

SH; blk, dk gy, varic, much v. soft - sltst interbdd, occ dissem. pyr

MARMATON 4573(-2401)

LM; lt brn, pale grn tint, argil ip, dense, blocky, no fluor, ns.

SH; varic, platy, smooth, occ silty, interbdd hd red/brn lmst strng

LM; tan to off wh, buff, fxln to micritic, most dense, no vis por, scat tan cht, no fluor, ns.

LM; tan to lt brn, buff, fxln, rarely foss, hd, blocky, scat tan to gy cht, no vis por, no fluor, ns.

SH; blk, v. dk gy, platy

PAWNEE 4622(-2450)

LM; tan to lt brn, fxln, scat well cem foss, poor to no vis interxln por, no fluor, no stn or odor, no gas kick, trc blk cht, ns.

LM; lt brn, fxln, hd, no vis por, spotted med yel min fluor, no vis por, no stn or odor, rare gy cht, ns.

SH; blk, carb ip, trc gas, blocky

LM; med brn, foss - scat small pellets and ooids, well

12 Unit Incr. Shale

10 Unit Incr. SHOW

12 Unit Incr. Shale

10 Unit Incr. SHOW

Oil in Mud after DST #2

Recycle

Recycle

TG, CY-C5 0.5 50 500

12 Unit Incr. Shale

30 Unit Incr. Shale

SPM 54
RPM 66

conn
Vis 55
Wt. 9.1
LCM 2#

CFS. at 4695'

conn
DST #3
Miss. Chert
4678' - 4736'

CFS. at 4724'
Vis 57
Wt. 9.2
LCM 2#
CFS. at 4736'

MudCo. Mud
Check at 4736'
Vis 61 Wt. 9.2
WL 9.2 Cl 8000
PH10.0 LCM 3#

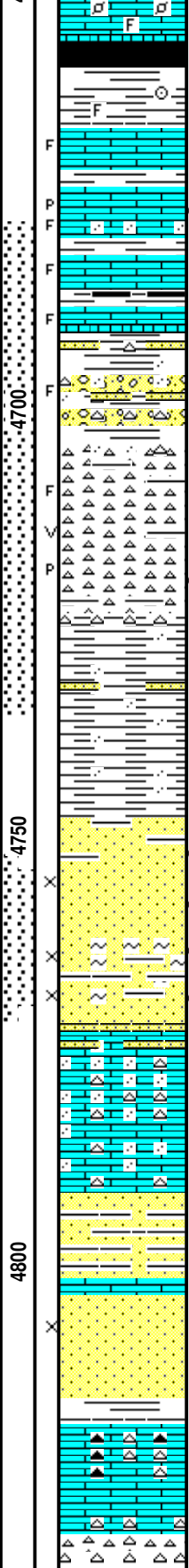
DST #4
Kind. SS.
4753' - 4771'

CFS. at 4771'
MudCo. Mud
Check at 4771'
Vis 68 Wt. 9.3
WL 9.2 Cl 8000
PH 10.0 LCM 2#

conn
ROP (min/ft)
Gamma (API)
WOB 40K
PP 800#
SPM 54
RPM 75

Vis 59
Wt. 9.2
LCM 2#

conn
CFS. at RTD.



cem, dull yel to no fluor, no stn, ns.

CHEROKEE SHALE 4657(-2485)

SH; blk, varic, platy, occ silty, rarely foss

LM; lt brn, buff, fxln w/scat spar calc xtals, poss fracs, hd, no vis por, no fluor, no stn, ns.

LM; lt brn, med xln, spotted med brn stn, trc gas bubbles, trc p-p por w/few fracs, no odor, fair cut, trc sandy lmst

LM; tan to buff, lt brn, most dense, fracs w/blk tar/gils on edges, v. dull yel fluor, no odor

SH; varic, thin hd ss strngs, trc org/transl cht

CONGL; cht, varic, grn f gr qtz ss w/blk tar/gils, varic shales, some fracs in cht w/blk tar

MISS. CHERT/CONGL. 4704(-2532)

CHT; conglomeratic, wh, gy, some varic, fresh and trip, abnt varic shale in samples, trip cht has abnt dead oil/gils w/vug and p-p por, fracs, gas odor, gas bubbles, no live oil, lt/med yel fluor

CHT; pred wh, trip, vug por, much blk tar/gils, trc live brn stn, faint gas odor, lt/med yel fluor

KINDERHOOK SHALE 4724(-2552)

SH; grn, gy grn, sandy, firm

DST #3: Miss. Chert 4678' - 4736'

SH; grn, gy grn, sandy ip, firm

KINDERHOOK SAND 4748(-2576)

SS; clr, lt gy, clusters, most f gr qtz, subrd to subang gr, most fri w/fair to gd intergran por, spotted to even lt brn stn, fair to gd odor, SFO, gas bubbles, brite yel fluor, gd cut

SS; pale grn, wh, f gr w/rare med gr qtz, glau ip, clusters, gd por, spotted med brn stn, brite yel fluor, gas bubbles, gd cut, gd odor

DST #4: Kinderhook SS. 4753' - 4771'

LM; wh, tan, sandy, v. dense, opaque to transl. siliceous sand and chert, no vis por, ns.

LM; off wh, tan, lt brn, sandy w/f gr qtz in lmst mts, interbdd pale org to transl cht, no fluor, no stn or odor, ns.

SS; lt gy, tan, vf to f gr qtz, v. shaly - soft ip, some very shaly ss interbdd, ns.

SS; wh, grn, most f gr qtz, fair to occ gd intergran por, calc, no fluor, no stn or odor, ns.

VIOLA 4819(-2647)

LM; rose red, red brn, off wh, cherty w/varic cht, dense, no fluor, no vis por, ns.

CHT; wh, off wh, yel, fresh - sharp, poss fracs, no fluor, no stn or odor, ns.

RTD. 4835' at 5:30 PM. 1/27/13

LTD.

Halliburton DIL, NEU/DEN, Microlog
(Triple Combo Stack), FMI

Clean out extractor

12 Unit Incr.
22 Unit Incr.

200 Unit Incr.
SHOW

Mud is gas cut after DST #3

163 Unit Incr.
SHOW

40 Unit Incr.
SHOW

0.5 TG, C1-C5 500



PAGE 1 of 1	CUST NO 1004072	INVOICE DATE 01/22/2013
INVOICE NUMBER 1718 - 91100516		

Pratt (620) 672-1201
 B STRATA EXPLORATION
 I PO Box: 401
 L FAIRFIELD
 L IL US 62837
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Bordewick 1-14
 O LOCATION
 B COUNTY Kiowa
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

PAID
 1-31-13
 FNB SA 9226

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40556512	19843		Net - 30 days	02/21/2013

For Service Dates: 01/19/2013 to 01/19/2013

0040556512

171807642A Cement-New Well Casing/Pi 01/19/2013
 Cement 8 5/8 Surface

EASE 1/25	LEV 5	P/P 1/30
DES CEMENT SURE PIPE	A/P 1/30	D/D
DR. LOC. LOE X	G/L 71730/9450	69

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
A-Con Blend Common	175.00	EA	13.50	2,362.35 T
Common Cement	175.00	EA	12.00	2,099.86 T
Celloflake	88.00	EA	2.77	244.18 T
Calcium Chloride	825.00	EA	0.79	649.64 T
"Top Rubber Cmt Plug, 8 5/8""	1.00	EA	168.74	168.74
"8 5/8"" Guide Shoe (Red)"	1.00	EA	412.47	412.47
"Baffle Plate Alum., 8 5/8"" (Blue)"	1.00	EA	127.49	127.49
"8 5/8"" Basket (Blue)"	1.00	EA	236.23	236.23
"Unit Mileage Chg (PU, cars one way)"	35.00	MI	3.19	111.56
Heavy Equipment Mileage	70.00	MI	5.25	367.48
"Proppant & Bulk Del. Chgs., per ton mil	578.00	EA	1.20	693.55
Depth Charge; 501'-1000'	1.00	EA	899.94	899.94
Blending & Mixing Service Charge	350.00	BAG	1.05	367.48
Plug Container Util. Chg.	1.00	EA	187.49	187.49
"Service Supervisor, first 8 hrs on loc.	1.00	EA	131.24	131.24

PLEASE REMIT TO: BASIC ENERGY SERVICES, LP PO BOX 841903 DALLAS, TX 75284-1903	SEND OTHER CORRESPONDENCE TO: BASIC ENERGY SERVICES, LP 801 CHERRY ST, STE 2100 FORT WORTH, TX 76102	SUB TOTAL TAX INVOICE TOTAL	9,059.70 390.99 9,450.69
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10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 07642 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>1-19-2013</u> DISTRICT _____		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.: _____							
CUSTOMER <u>STRATA EXPLORATION, INC.</u>		LEASE <u>BORDEWICK</u> WELL NO. <u>1-14</u>							
ADDRESS _____		COUNTY <u>KIOWA</u> STATE <u>Ks.</u>							
CITY _____ STATE _____		SERVICE CREW <u>LESLEY, MARQUEZ, CALLAWAY</u>							
AUTHORIZED BY _____		JOB TYPE: <u>CNW - 8 5/8" S.P.</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED <u>1-19-13</u>	DATE	AM	TIME
<u>37586</u>	<u>7</u>					ARRIVED AT JOB		AM	<u>12:00</u>
<u>19889-19843</u>	<u>7</u>					START OPERATION		AM	<u>1:30</u>
<u>77686-73768</u>	<u>7</u>					FINISH OPERATION		AM	<u>2:00</u>
						RELEASED		AM	<u>6:00</u>
						MILES FROM STATION TO WELL		PM	<u>7:00</u>
									<u>35</u>

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 101	A-CON BLEND	SK	175		3,150.00
CP 100C	COMMON CMT.	SK	175		2,800.00
CC 102	CELLOFLAKE	lb	88		325.60
CC 109	CALCIUM CHLORIDE	lb	825		866.25
CF 105	TOP RUBBER CMT. PLUG, 8 5/8"	EA	1		225.00
CF 203	GUIDE SHOE 8 5/8"	EA	1		550.00
CF 753	ALUMINUM BAFFLE PLATE, 8 5/8"	EA	1		170.00
CF 1903	BASKET, 8 5/8"	EA	1		315.00
E 100	PICKUP MILEAGE	MI	35		148.75
E 101	HEAVY EQUIPMENT MILEAGE	MI	70		490.00
E 113	BULK DELIVERY CHARGE	TM	578		924.00
PE 201	DEPTH CHARGE, 501'-1000'	HR	1-4		1,200.00
PE 240	BLENDING CHARGE	SK	350		490.00
PE 504	PLUG CONTAINER CHARGE	JOB	1		250.00
S 003	SERVICE SUPERVISOR	EA	1		175.00

SUB TOTAL 9,059.70
DLS

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE <u>Debra Lesley</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: _____ (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
FIELD SERVICE ORDER NO. _____	

Customer	STRATA EXP., INC.	Lease No.				Date	1-19-2013	
Lease	BORDEWICK	Well #	1-14					
Field Order #	07642	Station	PRATT, Ks.	Casing	8 5/8"	Depth	County	KIOWA
Type Job	CNW - 8 5/8" S.P.	Formation	TD = 563'			Legal Description	19-27-18	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	8 5/8" x 23"	Shots/Ft	CMT -	Acid	175 SKS. A-CON	RATE	PRESS	ISIP
Depth	347.99'	From	To	Pre Pad	@ 2.47 CUFT ³	Max	SJ = 42.17'	5 Min.
Volume	35 BBL	From	To	Pad	175 SKS. COMMON	Min		10 Min.
Max Press	500	From	To	Frac	@ 1.20 CUFT ³	Avg		15 Min.
Well Connection	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	32.3 BBL	Gas Volume		Total Load

Customer Representative	G. PAYNE	Station Manager	D. SCOTT	Treater	K. LESLEY
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Service Units	37586	19889	19843	77680	73768				
Driver Names	LESLEY	MARWEZ		PALLAWAY					

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
1:30 AM					ON LOCATION - SAFETY MEETING
3:00 AM					RUN 13 JTS. 8 5/8" x 23" CSG.
					BASKET - #10 - TOP OF COLLAR
4:50 AM					CSG. ON BOTTOM
5:00 AM					HOOK UP TO CSA. / BREAK CIRC. W/ RIG
5:15 AM	250		5	6	H ₂ O AHEAD
5:17 AM	200		77	6	MIX 175 SKS. A-CON @ 12 PPG
5:29 AM	100		37	6	MIX 175 SKS. COMMON @ 15.6 PPG
5:35 AM					DROP PLUG
5:38 AM	0		0	5	START DISPLACEMENT
5:43 AM	250		25	3	SLOW RATE
5:45 AM	500		32.3	3	PLUG DOWN ON BAFFLE
					CLOSE IN @ HEAD
					CIRC. THRU JOB
					CIRC. 15 BBL TO PIT
					JOB COMPLETE,
					THANKS -
					KEVEN LESLEY



WELL FILE

PAGE 1 of 1	CUST NO 1004072	INVOICE DATE 01/29/2013
INVOICE NUMBER 1718 - 91106007		

PAID
2-13-13
ENB SA CR# 9270

Pratt (620) 672-1201
 B STRATA EXPLORATION
 I PO Box: 401
 L FAIRFIELD
 L IL US 62837
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Bordewick 1-14
 O LOCATION
 B COUNTY Kiowa
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40558949	27463		Net - 30 days	02/28/2013

		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 01/28/2013 to 01/28/2013					
0040558949					
171807062A Cement-New Well Casing/Pi 01/28/2013					
Cement 5 1/2" Longstring					
50/50 POZ		250.00	EA	8.25	2,062.37 T
Celloflake		63.00	EA	2.77	174.82 T
Gypsum		1,050.00	EA	0.56	590.59 T
FLA-322		105.00	EA	5.62	590.59 T
Mud Flush		1,000.00	EA	0.64	644.97 T
Gilsonite		1,500.00	EA	0.50	753.71 T
KCL Potassium Chloride		566.00	EA	1.12	636.72 T
Claymax KCL Substitute		5.00	EA	26.25	131.24 T
"Latch Down Plug & Baffle, 5 1/2" (Blu		1.00	EA	299.98	299.98
"Auto Fill Float Shoe 5 1/2" (Blue)"		1.00	EA	269.99	269.99
"Turbolizer, 5 1/2" (Blue)"		12.00	EA	82.50	989.95
"5 1/2" Basket (Blue)"		1.00	EA	217.49	217.49
"Cement Scratchers Cable Type, 5 1/2" "		6.00	EA	56.25	337.48
"Unit Mileage Chg (PU, cars one way)"		35.00	MI	3.19	111.56
Heavy Equipment Mileage		70.00	MI	5.25	367.48
"Proppant & Bulk Del. Chgs., per ton mil		368.00	EA	1.20	441.58
Depth Charge; 4001'-5000'		1.00	EA	1,889.90	1,889.90
Blending & Mixing Service Charge		250.00	BAG	1.05	262.49
Plug Container Util. Chg.		1.00	EA	187.49	187.49
"Service Supervisor, first 8 hrs on loc.		1.00	EA	131.24	131.24

19005

LEASE	3/4	BORDEWICK-1-14	LEV	5	D/D	26
DR		CEMENT LONGSTRING			A/P	27
DR	X	COMB LUE G/L		7355/11499	35	D/D

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	11,091.64
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	407.71
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	11,499.35
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		

DATE _____ TICKET NO. _____

DATE OF JOB 1-28-13 DISTRICT KANSAS		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER Strata Exploration		LEASE Bordewick 1-14 WELL NO.:							
ADDRESS		COUNTY Kiowa 14-27-18 STATE Ks							
CITY STATE		SERVICE CREW Allen, M. McGraw, Jessica							
AUTHORIZED BY		JOB TYPE: 5 1/2" L.S.							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
28443 P.U.	2 1/2						1-28-13	PM	1130
29463 P.T.	2 1/2					ARRIVED AT JOB	1-28-13	AM	400
19831-19862	2 1/2					START OPERATION	1-28-13	AM	900
						FINISH OPERATION	1-28-13	AM	1130
						RELEASED	1-28-13	PM	1200
						MILES FROM STATION TO WELL	36-mile		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

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SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP104	50/50 Poz	SK	200		\$ 2200 00
CP104	50/50 Poz	SK	50		\$ 660 00
CC102	Cell FLAKE	lb	63		\$ 233 10
CC113	Gypsum	lb	1050		\$ 787 50
CC129	FLA-322	lb	105		\$ 787 50
CC201	Gilsonite	lb	1500		\$ 1005 00
C700	KCL	lb	566		\$ 849 00
CF607	Latch down Plug + Baffle 5 1/2"	EA	1		\$ 400 00
CF1251	Auto Fill Float shoe 5 1/2"	EA	1		\$ 360 00
CF1651	Turbolizer 5 1/2"	EA	12		\$ 1320 00
CF1901	5 1/2" Basket	EA	1		\$ 290 00
CF2001	Cement Scratchers cable type 5 1/2"	EA	6		\$ 450 00
C704	Claymax KCL sub	gal	5		\$ 175 00
CC151	M40 Flush	gal	1000		\$ 880 00

CHEMICAL / ACID DATA:			

SUB TOTAL		
DL5		
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE **Allen F. Ward** THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: _____
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET

1718 ~~07063~~ A

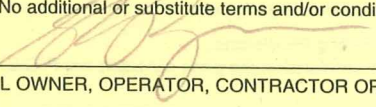
Continuation of

DATE TICKET NO. 07062A

DATE OF JOB 1-28-13 DISTRICT KANSAS		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:								
CUSTOMER Strata Exploration		LEASE Bordewick # 1-14 WELL NO.:								
ADDRESS		COUNTY kiowa 14-27-18 STATE Ks								
CITY STATE		SERVICE CREW Allen, M, McGraw, Jessie								
AUTHORIZED BY		JOB TYPE: 5 1/2" L.S. CWL								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
#28443 pu	2 1/2						1-28-13			11:50
27463 Pt	2 1/2					ARRIVED AT JOB	1-28-13			4:00
19831-19862	2 1/2					START OPERATION	1-28-13			9:00
						FINISH OPERATION	1-28-13			11:30
						RELEASED	1-28-13			12:00
						MILES FROM STATION TO WELL				35 mile

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: 
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
E100	Unit mileage chg. P.U.	Mi	35		\$ 148.75
E101	Heavy Equip. Mileage	Mi	70		\$ 490.00
E113	Bulk Delivers chg.	Tm	388		\$ 588.00
CE205	Depth Charge 400'-5000'	4-hr	1		\$ 2520.00
CE240	Blending & mixing service chg.	SK	250		\$ 350.00
CE504	Plug container 5 1/2"	ToB	1		\$ 250.00
5003	Service Supervisor first 8hrs	EA	1		\$ 175.00

CHEMICAL / ACID DATA:			

SUB TOTAL		DLS \$11,091.64
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE  THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: 

FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer <i>Strata Exploration</i>	Lease No.	Date <i>1-28-13</i>			
Lease <i>Bordewick</i>	Well # <i>1-14</i>				
Field Order # <i>07062</i>	Station <i>Pratt Ks</i>	Casing <i>5 1/2"</i>	Depth <i>4825'</i>	County <i>Kiowa</i>	State <i>Ks</i>
Type Job <i>5 1/2" L.S.</i>	Formation <i>cnw</i>	TD <i>4835'</i>	RTD <i>ATD</i>	Legal Description <i>19-27-18</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>5 1/2"</i>	Tubing Size	Shots/Ft		Acid <i>24-501 mud Flush</i>	RATE	PRESS	ISIP	
Depth <i>4825'</i>	Depth	From	To	Pre Pad <i>200 SKs 50/50 Poz @ 14#</i>	Max		5 Min.	
Volume <i>117.3</i>	Volume	From	To	Pad <i>30 SKs 50/50 Poz</i>	Min	<i>R.H.</i>	10 Min.	
Max Press <i>1500#</i>	Max Press	From	To	Frac <i>20 SKs 50/50 Poz</i>	Avg	<i>M.H.</i>	15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>4825'</i>	Packer Depth	From	To	Flush <i>Disp 2% KCL</i>	Gas Volume		Total Load	

Customer Representative <i>George Payne</i>	Station Manager <i>Scotty</i>	Treater <i>Allen</i>
Service Units <i>28443 27463 19831 19862</i>		
Driver Names <i>Allen Mike Jessie Pierce</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>400 pm</i>					<i>on Loc. Discuss Safety, Setup Plan Job</i>
					<i>Rig Laying down Drill Collars</i>
<i>630</i>					<i>start 5 1/2" csg. Shoe Joint 20'</i>
					<i>w/ auto fill float shoe - L.D</i>
					<i>Battle in collar - scratchers</i>
					<i>2 on #1 - 4 on #2</i>
					<i>cent. 1-2-3-4-8-9-10-15-20-25-30-35</i>
					<i>Basket on #12</i>
<i>730</i>					<i>circ w/ 50 SKs in Hole</i>
<i>805</i>					<i>Resume Running casing.</i>
<i>910</i>					<i>Tag TD @ 4835', Pickup + circ @</i>
					<i>4825' + Recip. Pipe</i>
<i>1015</i>	<i>200#</i>		<i>24</i>	<i>5</i>	<i>Pump 24-BBL mud Flush (1000gal)</i>
			<i>5</i>	<i>5</i>	<i>Pump 5-BBL H₂O spacer</i>
				<i>5</i>	<i>mix + Pump 200 SKs 50/50 Poz @ 14#</i>
			<i>48</i>		<i>Finish mix cmf, wash out Pump Line</i>
<i>1035</i>	<i>750#</i>			<i>5 1/2</i>	<i>Drop L.D. Plug, Start Disp. 2% KCL</i>
				<i>5</i>	<i>caught lift VPSI w/ 80 BBL out</i>
<i>1100</i>	<i>1500#</i>		<i>114.3</i>	<i>3</i>	<i>Plug down</i>
	<i>0#</i>		<i>7</i>		<i>Release VPSI 0#</i>
			<i>5</i>		<i>Plug R.H. w/ 30 SKs + MH w/ 20 SKs</i>
<i>1200</i>					<i>Wash up + Rack up. Job complete</i>