



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1077473
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: _____

1077473

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

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	SCHOWALTER 1-14
Doc ID	1077473

All Electric Logs Run

CPDCN Micro Log
AI Shallow Focused Log
Comp. Sonic w/Integrated Transit Time
Mirco. Log

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	SCHOWALTER 1-14
Doc ID	1077473

Tops

Name	Top	Datum
Stone Corral	2390	+628
Bs/Stone Corral	2410	+608
Heebner	3947	-929
Lansing	3990	-972
Muncie Creek	4167	-1149
Hushpuckney	4301	-1283
Marmaton	4375	-1359
Excello	4522	-1504
Mississippian	4700	-1682
LTD	4824	

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 28, 2012

Ronald N. Sinclair
Grand Mesa Operating Company
1700 N WATERFRONT PKWY BLDG 600
WICHITA, KS 67206-5514

Re: ACO1
API 15-171-20864-00-00
SCHOWALTER 1-14
NW/4 Sec.14-16S-33W
Scott 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,
Ronald N. Sinclair

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

Well Name: Schowalter #1-14
 Location: 14-16S-33W, 1829'FNL, 2202'FWL Scott County, Kansas
 License Number: API: 15-117-20864
 Spud Date: 2-27-12
 Surface Coordinates: Lat: 3736871
 Longitude: 1304372
 Bottom Hole Coordinates: Vertical hole
 Ground Elevation (ft): 3013
 Logged Interval (ft): 3600'
 Formation: Mississippian at RTD
 Type of Drilling Fluid: Chemical
 K.B. Elevation (ft): 3018
 To: RTD
 Total Depth (ft): 4820

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

GEOLOGIST

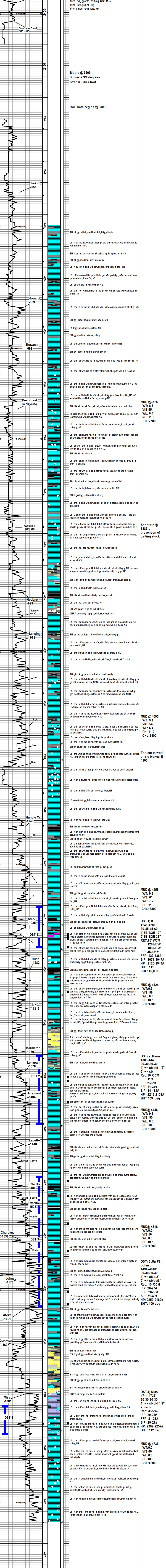
Name: Bob Schreiber
 Company: Grand Mesa Operating Company
 Address: 1700 N. Waterfront Parkway, Bldg 600
 Wichita, Kansas 67206
 316-256-3000

COMMENTS

Contractor: Murfin Drilling Company Rig #23
 Pusher: Tony Martin
 Surface Casing: SR-23#, 8 5/8"
 Production Casing: none
 Mud by: MudCo
 DST's by: Trilobite Testing
 Logs by: Weatherford (DIL, CN-CD, ML, Sonic)
 RTD=4820'
 LTD=4824'

FORMATION TOPS

FORMATION	SAMPLE TOPS		LOG TOPS	
	Depth	Datum	Depth	Datum
Stone Corral	2390'	+628	2390'	+628
B/Stone Corral	2410'	+608	2410'	+608
Heebner Shale	3946'	-928	3947'	-929
Lansing	3989'	-971	3991'	-973
Muncie Creek Shale	4166'	-1148	4168'	-1150
Stark Shale	4253'	-1235	4258'	-1240
Hushpuckney Shale	4300'	-1282	4302'	-1284
Marmaton	4378'	-1360	4377'	-1359
Upper Fort Scott	4483'	-1465	4473'	-1435
Little Osage Shale	4504'	-1486	4506'	-1488
Excello Shale	4521'	-1503	4524'	-1506
Johnson Zone	4594'	-1576	4596'	-1578
Morrow	4655'	-1637	4659'	-1641
Mississippian	4699'	-1681	4700'	-1682
RTD	4820'	-1802		
LTD			4824'	-1806



MUD @ 3775'
 WT: 8.2
 VIS: 55
 WL: 7.2
 PH: 11.0
 CHL: 2150

Short trip @
 prevention of
 getting stuck

MUD @ 4095'
 WT: 9.1
 VIS: 54
 WL: 6.4
 PH: 11.0
 CHL: 3400

Trip out to work
 on rig brakes @
 4103'

MUD @ 4258'
 WT: 9.2
 VIS: 61
 WL: 6.4
 PH: 11.0
 CHL: 3800

DST 1 K
 4241-4281
 30-45-45-60
 1) SB-BOB 19"
 2) SB-BOB 36"
 REC: 83' WCM
 128' MCW
 183' MCW
 IFF: 45-131#
 FFP: 129-136#
 SIP: 1071-1047#
 HP: 2120-1944#
 BHT: 1114'
 CHL: 49,000

MUD @ 4324'
 WT: 9.3
 VIS: 56
 WL: 8.0
 PH: 10.0
 CHL: 4300

DST 2 Marm
 4380-4446
 30-30-30-30
 1) wk sb bld 1/2"
 2) wk sb
 Rec: 10' OCM
 1' O
 IFF: 31-35#
 FFP: 31-34#
 SIP: 141-62#
 HP: 2259-2109#
 BHT: 109 deg

MUD @ 4446'
 WT: 9.3
 VIS: 56
 WL: 8.0
 PH: 10.0
 CHL: 3800

MUD @ 4618'
 WT: 9.2
 VIS: 56
 WL: 6.0
 PH: 10.5
 CHL: 4200

DST 3, 3 Up FS, -
 Johnson
 4494-4618"
 30-30-30-30
 1) wk sb-1/2"
 2) wk sb/dd8"
 Rec: 10' OCM
 IFF: 26-27#
 FFP: 28-30#
 SIP: 51-40#
 HP: 2259-2189#
 BHT: 109 deg

MUD @ 4738'
 WT: 9.2
 VIS: 60
 WL: 8.8
 PH: 10.0
 CHL: 4200



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

14-16s-33w Scott Co. KS

1700 N. Waterfront PKWY
BLDG 600
Wichita KS. 67206
ATTN: Bob Skahiber

Schowalter #1-14

Job Ticket: 45136

DST#: 1

Test Start: 2012.03.04 @ 16:27:00

GENERAL INFORMATION:

Formation: **Lansing "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:30:10

Time Test Ended: 00:00:24

Test Type: Conventional Bottom Hole (Initial)

Tester: Will MacLean

Unit No: 40

Interval: 4241.00 ft (KB) To 4281.00 ft (KB) (TVD)

Reference Elevations: 3018.00 ft (KB)

Total Depth: 4281.00 ft (KB) (TVD)

3013.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652 Inside

Press @ Run Depth: 196.40 psig @ 4242.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.04

End Date:

2012.03.05

Last Calib.: 2012.03.05

Start Time: 16:27:00

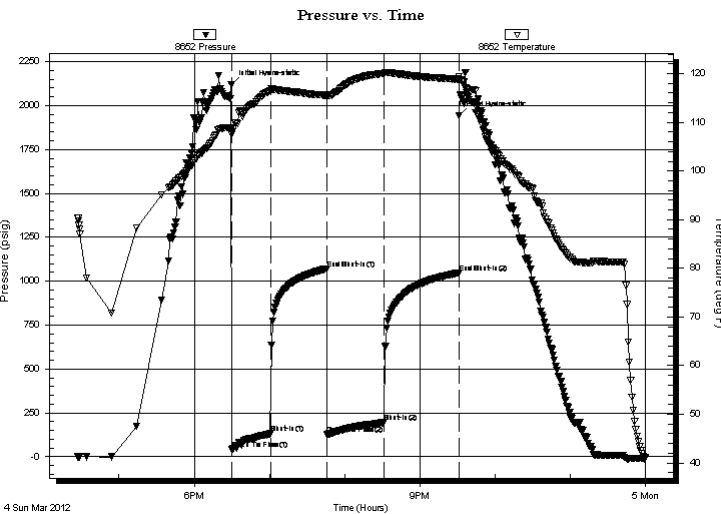
End Time:

00:00:24

Time On Btm: 2012.03.04 @ 18:29:55

Time Off Btm: 2012.03.04 @ 21:31:39

TEST COMMENT: IF- Surface Blow Built to BOB in 19min
IS- No Blow
FF- Surface Blow Built to BOB in 36min
FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2120.35	108.64	Initial Hydro-static
1	45.04	107.42	Open To Flow (1)
31	131.85	116.55	Shut-In(1)
76	1071.46	115.56	End Shut-In(1)
77	129.74	115.15	Open To Flow (2)
122	196.40	120.07	Shut-In(2)
182	1047.75	118.82	End Shut-In(2)
182	1944.41	119.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
183.00	MCW 8%m 92%w	1.49
126.00	MCW 30%m 70%w	1.77
83.00	WCM 10%w 90%m	1.16

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

14-16s-33w Scott Co. KS

1700 N. Waterfront PKWY
BLDG 600
Wichita KS. 67206
ATTN: Bob Skahiber

Schowalter #1-14

Job Ticket: 45136

DST#: 1

Test Start: 2012.03.04 @ 16:27:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 61.00 sec/qt
Water Loss: 7.20 in³
Resistivity: ohm.m
Salinity: 3800.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
183.00	MCW 8%m 92%w	1.492
126.00	MCW 30%m 70%w	1.767
83.00	WCM 10%w 90%m	1.164

Total Length: 392.00 ft Total Volume: 4.423 bbl

Num Fluid Samples: 0

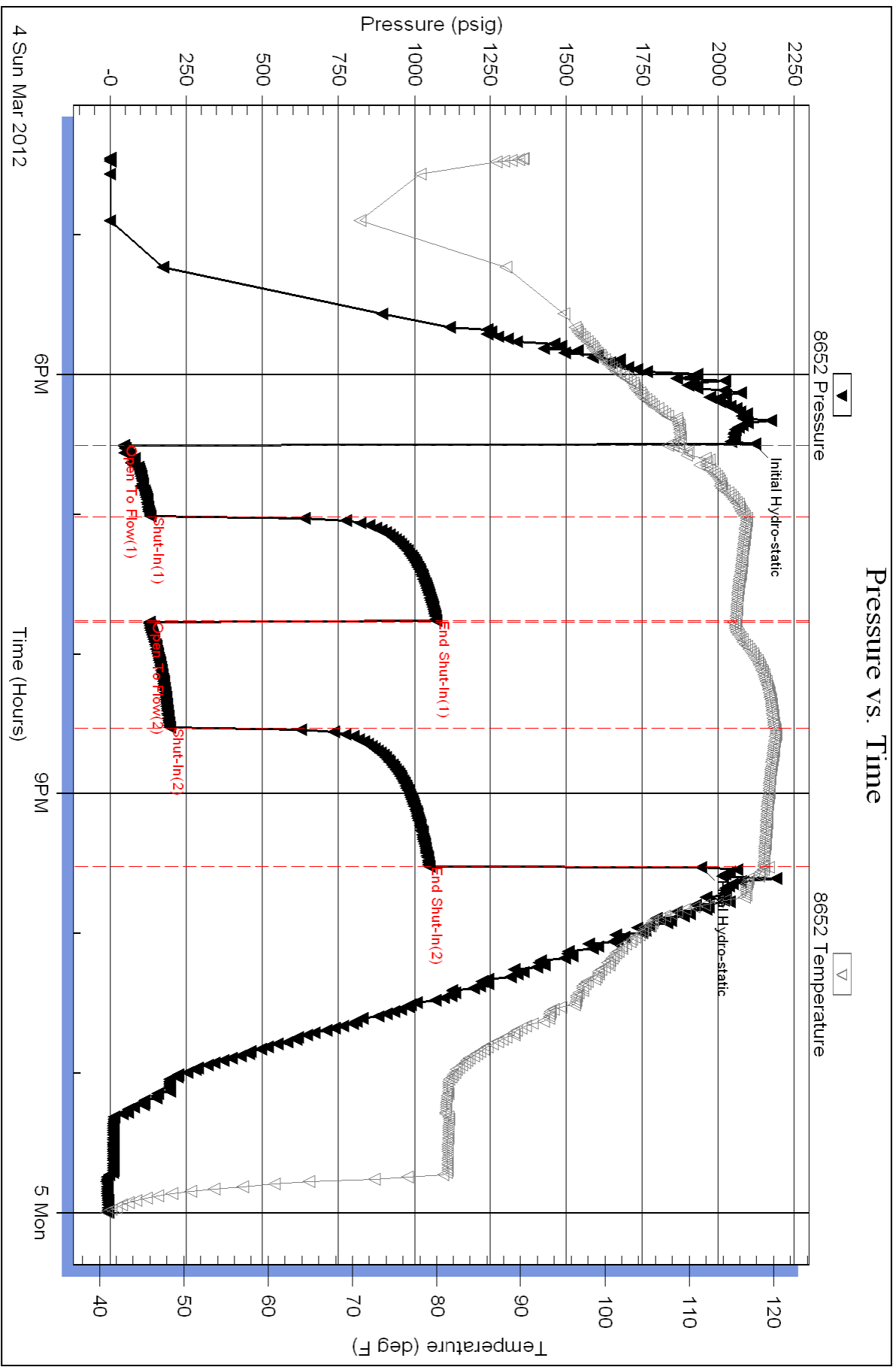
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

14-16s-33w Scott Co. KS

1700 N. Waterfront PKWY
BLDG 600
Wichita KS. 67206
ATTN: Bob Skahiber

Schowalter #1-14

Job Ticket: 45137

DST#: 2

Test Start: 2012.03.06 @ 00:58:00

GENERAL INFORMATION:

Formation: **Marmanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:14:10

Time Test Ended: 07:47:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 4380.00 ft (KB) To 4446.00 ft (KB) (TVD)

Reference Elevations: 3018.00 ft (KB)

Total Depth: 4446.00 ft (KB) (TVD)

3013.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652 Inside

Press @ Run Depth: 34.06 psig @ 4382.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.06

End Date:

2012.03.06

Last Calib.: 2012.03.06

Start Time: 00:58:00

End Time:

07:47:09

Time On Btm: 2012.03.06 @ 03:13:10

Time Off Btm: 2012.03.06 @ 05:18:09

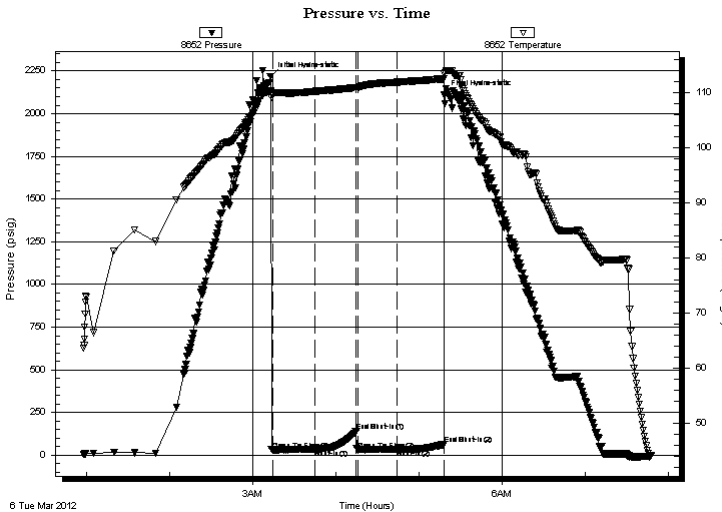
TEST COMMENT: IF- Weak Surface Blow Built to 1/2"

IS- No Blow

FF- Weak Surface Blow

FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2216.13	110.26	Initial Hydro-static
1	31.31	109.85	Open To Flow (1)
32	35.92	110.19	Shut-In(1)
62	141.32	110.84	End Shut-In(1)
63	31.62	110.81	Open To Flow (2)
91	34.06	111.84	Shut-In(2)
125	62.96	112.45	End Shut-In(2)
125	2109.04	113.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 7%oil 93%m	0.05
1.00	100%oil	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

14-16s-33w Scott Co. KS

1700 N. Waterfront PKWY
BLDG 600
Wichita KS. 67206
ATTN: Bob Skahiber

Schowalter #1-14

Job Ticket: 45137

DST#: 2

Test Start: 2012.03.06 @ 00:58:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 56.00 sec/qt
Water Loss: 7.97 in³
Resistivity: ohm.m
Salinity: 4300.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OCM 7%oil 93%m	0.049
1.00	100%oil	0.005

Total Length: 11.00 ft Total Volume: 0.054 bbl

Num Fluid Samples: 0

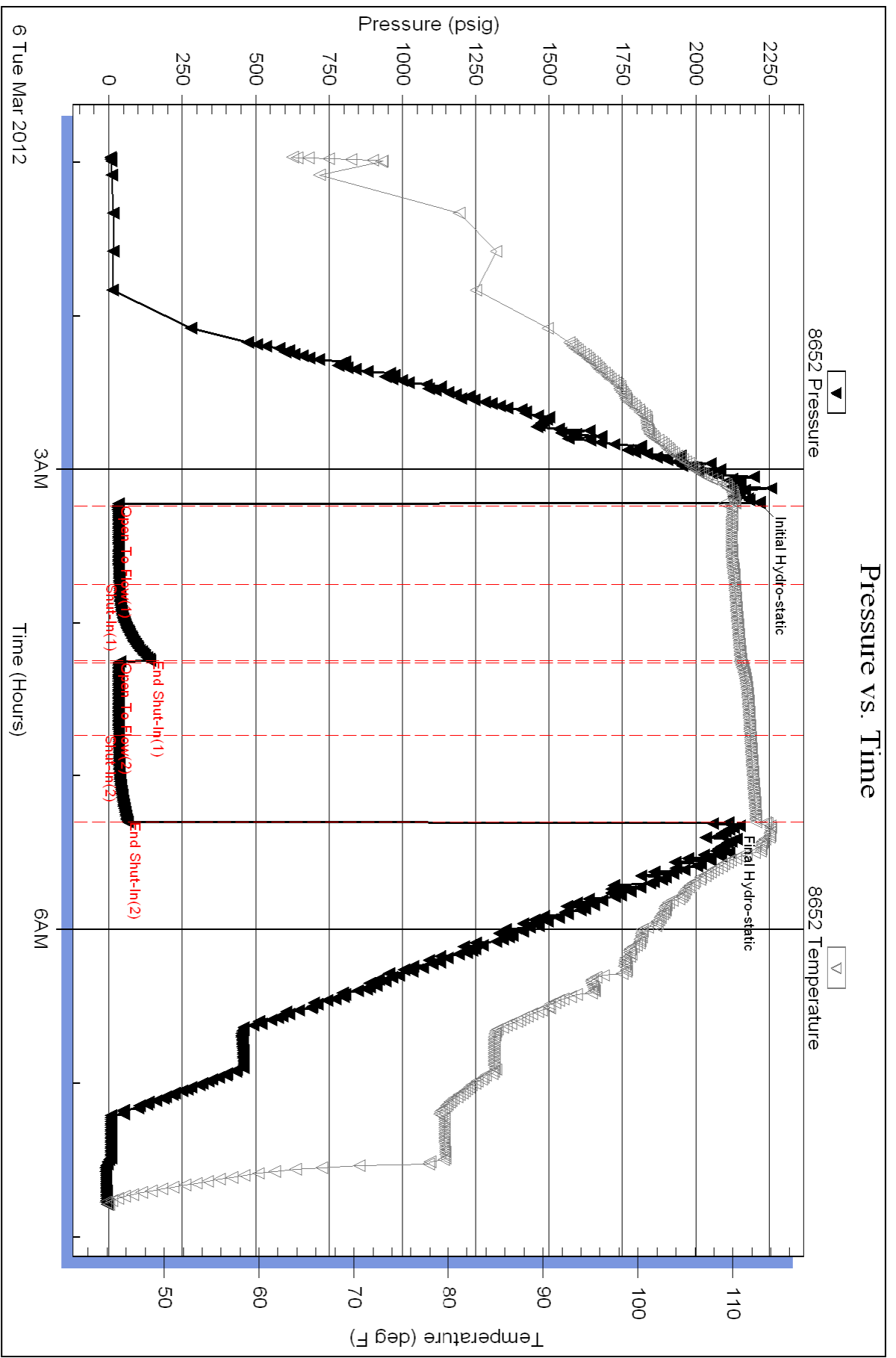
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating Co.
1700 N. Waterfront PKWY
BLDG 600
Wichita KS. 67206
ATTN: Bob Skahiber

14-16s-33w Scott Co. KS

Schowalter #1-14

Job Ticket: 45138

DST#: 3

Test Start: 2012.03.07 @ 09:29:00

GENERAL INFORMATION:

Formation: **Lower Ft. Scott / Jo**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:35:10

Time Test Ended: 15:57:24

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 4494.00 ft (KB) To 4618.00 ft (KB) (TVD)

Reference Elevations: 3018.00 ft (KB)

Total Depth: 4618.00 ft (KB) (TVD)

3013.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652

Inside

Press @ Run Depth: 30.07 psig @ 4496.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.07

End Date:

2012.03.07

Last Calib.:

2012.03.07

Start Time:

09:29:00

End Time:

15:57:24

Time On Btm:

2012.03.07 @ 11:31:10

Time Off Btm:

2012.03.07 @ 13:34:55

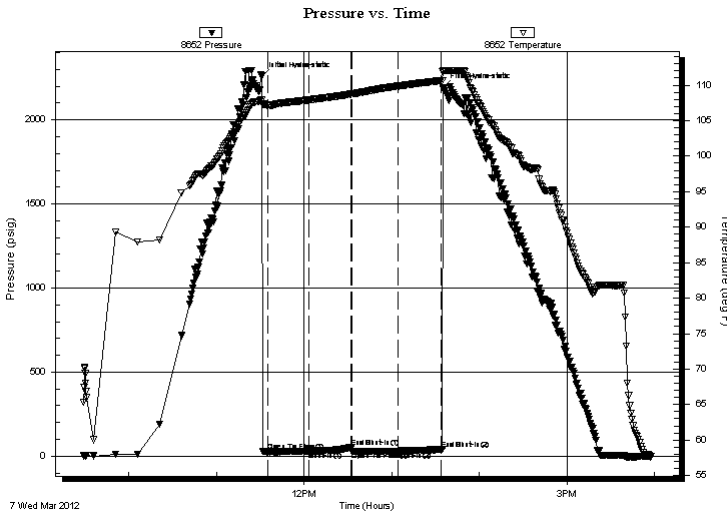
TEST COMMENT: IF- Weak Surface Blow Built to 1/2"

IS- No Blow

FF- Weak Surface Blow Died in 8min

FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2259.55	107.88	Initial Hydro-static
4	26.35	107.20	Open To Flow (1)
33	27.94	107.93	Shut-In(1)
61	51.23	108.74	End Shut-In(1)
62	28.96	108.73	Open To Flow (2)
93	30.07	109.86	Shut-In(2)
123	40.68	110.65	End Shut-In(2)
124	2189.63	111.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 2%oil 98%m	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

14-16s-33w Scott Co. KS

1700 N. Waterfront PKWY
BLDG 600
Wichita KS. 67206
ATTN: Bob Skahiber

Schowalter #1-14

Job Ticket: 45138

DST#: 3

Test Start: 2012.03.07 @ 09:29:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 7.97 in³

Resistivity: ohm.m

Salinity: 4200.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OCM 2%oil 98%m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

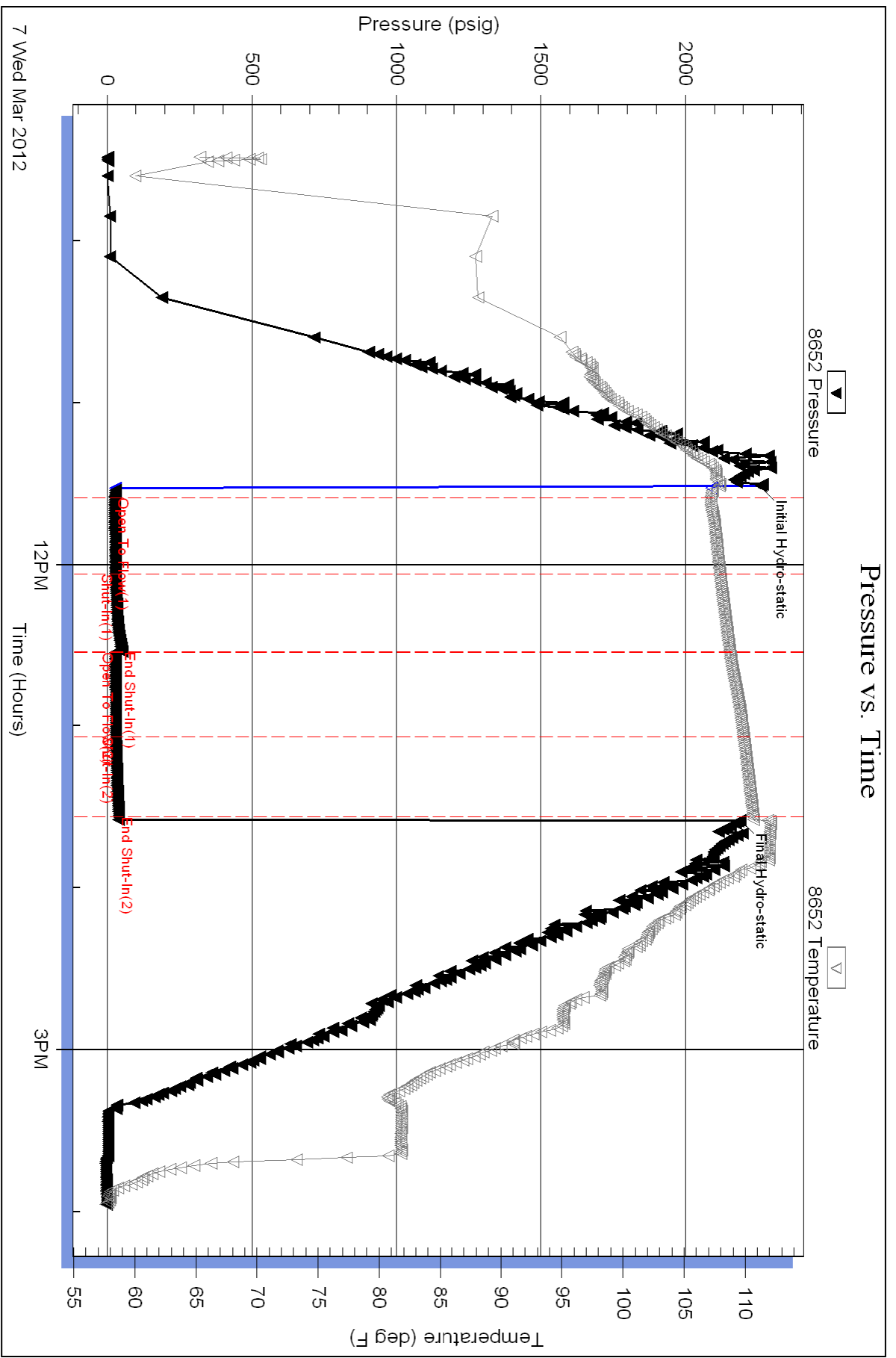
Serial #: 8652

Inside

Grand Mesa Operating Co.

Schowalter #1-14

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 45138

Printed: 2012.03.07 @ 16:49:20



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Grand Mesa Operating Co.

14-16s-33w Scott Co. KS

1700 N. Waterfront PKWY
BLDG 600
Wichita KS. 67206
ATTN: Bob Skahiber

Schowalter #1-14

Job Ticket: 45139

DST#: 4

Test Start: 2012.03.08 @ 11:22:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:19:55

Time Test Ended: 17:32:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 40

Interval: 4711.00 ft (KB) To 4738.00 ft (KB) (TVD)

Reference Elevations: 3018.00 ft (KB)

Total Depth: 4738.00 ft (KB) (TVD)

3013.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8652 Inside

Press @ Run Depth: 23.76 psig @ 4712.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.08

End Date: 2012.03.08

Last Calib.: 2012.03.08

Start Time: 11:22:00

End Time: 17:32:09

Time On Btm: 2012.03.08 @ 13:18:55

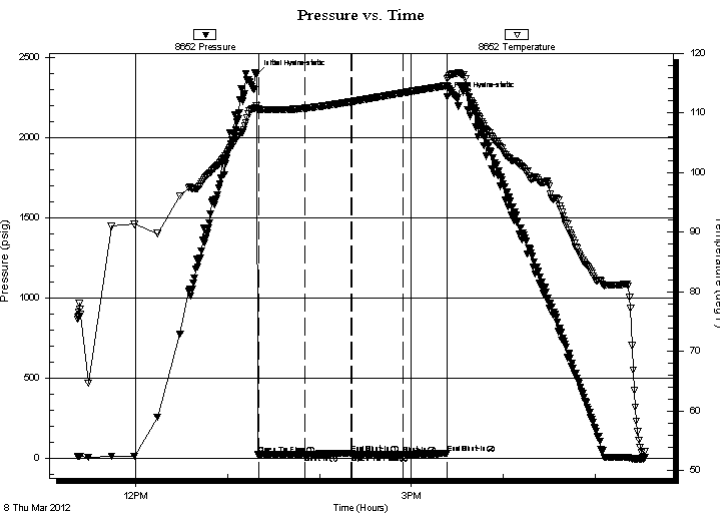
Time Off Btm: 2012.03.08 @ 15:23:25

TEST COMMENT: IF- Weak Surface Blow Built to 1/2"

IS- No Blow

FF- No Blow

FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2392.32	111.24	Initial Hydro-static
1	20.55	110.67	Open To Flow (1)
32	23.17	110.78	Shut-In(1)
62	29.83	111.89	End Shut-In(1)
63	21.96	111.91	Open To Flow (2)
96	23.76	113.37	Shut-In(2)
125	27.49	114.58	End Shut-In(2)
125	2257.59	115.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	OCM 4%oil 96%m	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

14-16s-33w Scott Co. KS

1700 N. Waterfront PKWY
BLDG 600
Wichita KS. 67206
ATTN: Bob Skahiber

Schowalter #1-14

Job Ticket: 45139

DST#: 4

Test Start: 2012.03.08 @ 11:22:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 8.77 in³

Resistivity: ohm.m

Salinity: 4200.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	OCM 4%oil 96%m	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

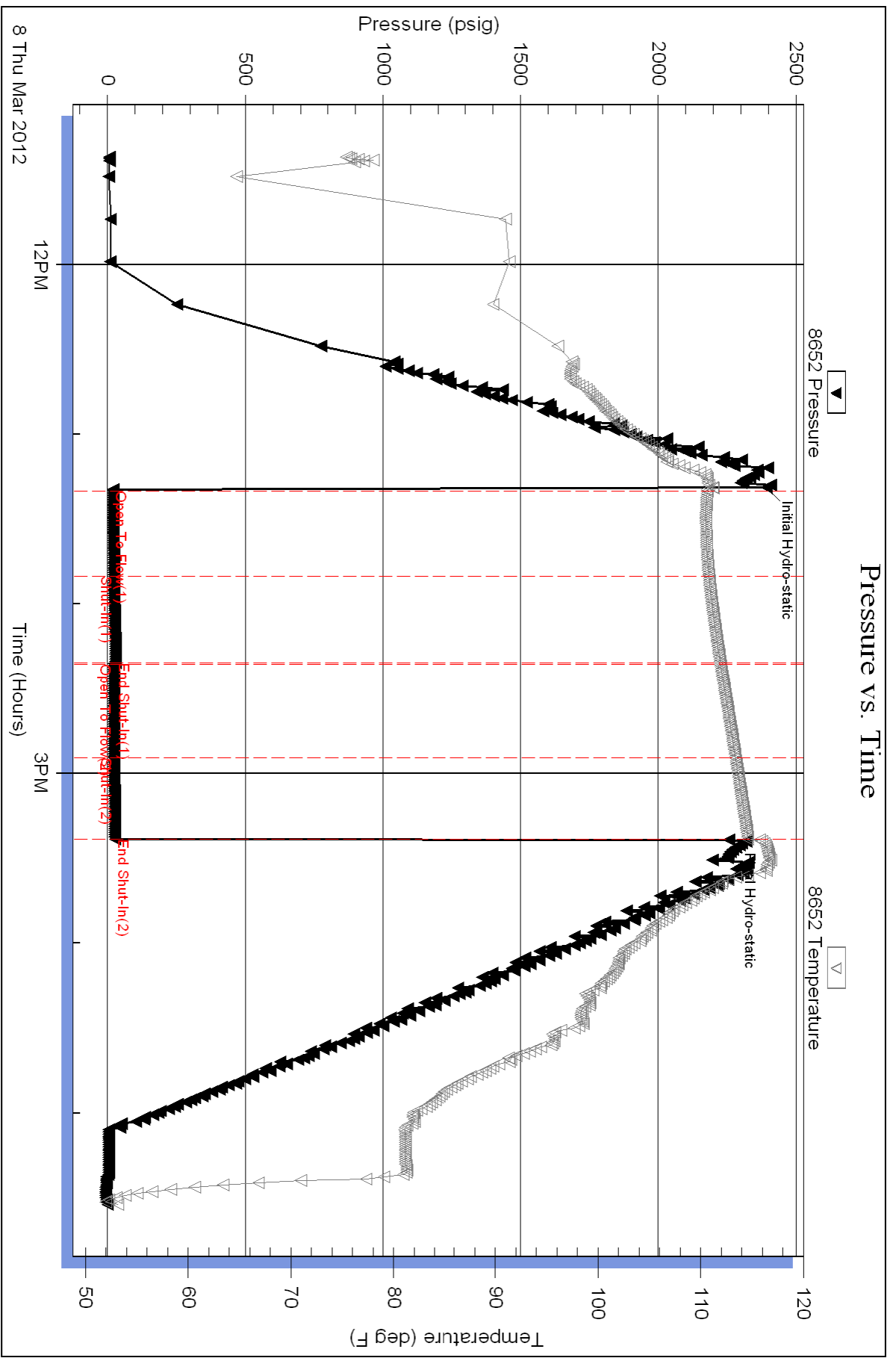
Serial #: 8652

Inside

Grand Mesa Operating Co.

Schwallier #1-14

DST Test Number: 4



ALLIED CEMENTING CO., LLC. 034597

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Dakley, KS

DATE <i>2-27-12</i>	SEC. <i>14</i>	TWP. <i>16</i>	RANGE <i>33</i>	CALLED OUT	ON LOCATION <i>6:00 am</i>	JOB START <i>7:00 am</i>	JOB FINISH <i>7:00 pm</i>
LEASE <i>Schwaiber</i>	WELL # <i>1-14</i>	LOCATION <i> Hwy 98 Pance Rd 2 W to</i>			COUNTY <i>Scott</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one) <i>NEW</i>				<i>Peniper Rd E. W E into</i>			

CONTRACTOR *Murfin 24*

TYPE OF JOB *Surfaes*

HOLE SIZE *12 1/4"* TD. *2221*

CASING SIZE *8 1/2"* DEPTH *2221*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *15'*

PERFS.

DISPLACEMENT *13.18 bbl*

EQUIPMENT

PUMP TRUCK CEMENTER *Lakane*

431 HELPER *Darren-Tyler*

BULK TRUCK

404 DRIVER *Steven*

BULK TRUCK

DRIVER

OWNER *Same*

CEMENT AMOUNT ORDERED *165 sks com 3 2800*

2 280 gal

COMMON	<i>165 sks</i>	@	<i>16.25</i>	<i>2681.25</i>
POZMIX		@		
GEL	<i>350</i>	@	<i>21.25</i>	<i>63.75</i>
CHLORIDE	<i>650</i>	@	<i>58.20</i>	<i>342.20</i>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<i>174 sks</i>	@	<i>2.25</i>	<i>391.50</i>
MILEAGE	<i>118.76/mile</i>			<i>669.90</i>
TOTAL				<i>4155.60</i>

REMARKS:

*Mix 165 sks cement
Displace with water.
Cement did circulate*

T. Tran Ryan

CHARGE TO: *Grand Mesa*

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<i>2221</i>		
PUMP TRUCK CHARGE			<i>1125.00</i>
EXTRA FOOTAGE		@	
MILEAGE	<i>35</i>	@	<i>2.00</i>
MANIFOLD <i>swedge</i>		@	<i>325.00</i>
<i>L.V. mileage</i>		@	<i>4.00</i>
		@	
TOTAL			<i>1835.00</i>

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL _____

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME *Anthony Martin*

SIGNATURE *Anthony Martin*

SALES TAX (if Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

ALLIED CEMENTING CO., LLC. 040936

Federal Tax I.D.# 20-5976804

EMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT

Saklay

DATE 3-9-12	SEC 14	TWP 16	RANGE 33	CALLED OUT	ON LOCATION 7:00 PM	JOB START 11:30 PM	JOB FINISH 12:30 AM
SCHEDULE Schwartz		WELL # 1-14	LOCATION Pende 95 Hwy RD	COUNTY SCOTT	STATE Ks		
LD OR NEW (Circle one)		20-1N-E10					

*KSI-03
TAX AM*

CONTRACTOR **Murfin #24** OWNER **Same**

TYPE OF JOB **PTA**

OLE SIZE **7 7/8** TD **4820** CEMENT

ASING SIZE DEPTH AMOUNT ORDERED **300 SKS 6 3/4 4% Gal**

UBINO SIZE DEPTH **14" Flo-sol**

RILL PIPE **4 1/2** DEPTH **2400**

OOL DEPTH

RES. MAX MINIMUM

TEAS. LINE SHOE JOINT

EMENT LEFT IN CSO.

BRFS.

ISPLACEMENT **31.17**

EQUIPMENT **N**

UMP TRUCK CEMENTER **Darren R. Andrew**

483-281 HELPER **Jerry V**

ULK TRUCK

396-306 DRIVER **Adam M**

ULK TRUCK DRIVER

COMMON	180 SKS	@ 16.25	\$ 2925.00
POZMIX	120 SKS	@ 8.50	\$ 1020.00
OEL	8 SKS	@ 21.25	\$ 170.00
CHLORIDE		@	
ASC		@	
Flo-sol		@ 2.70	\$ 202.50
75"		@	
HANDLING	311	@ 2.25	\$ 699.75
MILEAGE	114 Per mi		\$ 1128.00
TOTAL			\$ 6146.15

REMARKS:

Mix 60 SKS Cement 2400ft
Mix 80 SKS Cement 1710ft
Mix 50 SKS Cement 870ft
Mix 30 SKS Cement 250ft
~~Plug mH.~~ **Mix 20 SKS 60ft**
Plug mH. 20 SKS
Plug RH. 30 SKS

Thank You

HAROE TO: **Grand mesa**

TREET

ITY STATE ZIP

SERVICE

DEPTH OF JOB	2400		
PUMP TRUCK CHARGE		@	\$ 1250.00
EXTRA FOOTAGE		@	
MILEAGE	33	@ 7.00	\$ 231.00
MANIFOLD		@	
LV mileage		@ 41.00	\$ 132.00
TOTAL			\$ 1613.00

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME **Darby Martin**

SIGNATURE *Darby Martin*

TOTAL _____
 SALES TAX (if Any) **566.42**
 TOTAL CHARGES **7799.18**
 DISCOUNT **35%** IF PAID IN 30 DAYS

D 2715.71 # 4/19