



**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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- 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

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total 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**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1095722

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input 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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
---	--	--

Form	ACO1 - Well Completion
Operator	Neal LaFon Realty Inc. dba Meridian Energy Inc.
Well Name	Holmes 1
Doc ID	1095722

Tops

Name	Top	Datum
Anhydrite	1428	+586
Topeka	2963	-949
Heebner	3168	-1154
Toronto	3189	-1175
Kansas City	3208	-1194
BKC	3412	-1398
Cong	3424	-1410
Arbuckle	3446	-1432

## WELL REPORT

**Well: Meridian Energy Inc. #1 Holmes**  
**Approx SE SE NW Section 4**  
**2210' FNL x 2210' FWL**  
**T. 9 S., R. 19 W.**  
**Rooks County, Kansas**

**Elevation: GL 2007**  
**KB 2014**

**Total Depth: Driller 3486**  
**Logger 3486**

**Date Spudded: 1/23/12**

**Date completed: 1/29/12**

**Drill Stem Test: 2 - Topeka and Toronto to KC A-D**

**Results: Ran pipe to further evaluate.**

**Drilling Contractor: Royal Drilling, Rig 2**

**Mud Contractor: Andy's Mud**

**Logs Run: DIL/CNL/FDC Microlog**

**Wellsite Geologist: Neal LaFon- Franktown, Colorado**

### FORMATION TOPS

<b>Anhydrite</b>	<b>1428</b>	<b>+586</b>
<b>Topeka</b>	<b>2963</b>	<b>-949</b>
<b>Heebner</b>	<b>3168</b>	<b>-1154</b>
<b>Toronto</b>	<b>3189</b>	<b>-1175</b>
<b>Kansas City A</b>	<b>3208</b>	<b>-1194</b>
<b>BKC</b>	<b>3424</b>	<b>-1410</b>
<b>CONG</b>	<b>3424</b>	<b>-1410</b>
<b>ARB</b>	<b>3446</b>	<b>-1432</b>

**TD 3486**

### SAMPLE DESCRIPTIONS

**Lagged 10' samples**

**2944-2946 Ls, buff, white, hard, tt, no show**

**Topeka**

**2963-2978 Ls, brn, oolitic, v shaly, tt, no show**

2978-2990 Ls, dk gray, micro xtln, tt, no show  
2990-3004 Ls, buff, micro xtln w/pellets, some clean, tt, no show  
3008-3016 Ls, dk gray, micrite, dirty, tt, no show  
3016-3040, ls, buff, f-m xtln, foss, tt, no show  
3040-3070 Ls, brn, f-m xtln, some w/shaly pellets/dirty, some clean, tt, no show  
tr chalky  
3070-3096 Ls, wt, micro xtln, tt, no show  
3100-3110 Ls, gran/shaly, tt, no show  
3118-3128 Ls, et, micro xtln, tt no show  
some chalky, one grn, vf xtln, surcosic w/tr patchy stn, SSFO, sl fri  
fair p and p, couple grns w/dead bitumen.  
3138-3158 Ls, buff, vf xtln, pinpt vug por w/dk stn, GSFO, fair por, oil scum on  
cups, gd odor  
3155-3176 Ls, wt, mirco xtln, tt, no show

#### Toronto

3188-3200 Ls, vf xtln, tr w/pinpt vug por, mostly tt, GSFO, weak stn, some  
intergran por, lt stn SSFO

#### Kansas City

A 3208-3222 Ls, brn, m xtln, some w/big vugs, gd stn PSFO  
one grn, ls, wt oolitic, grnstn w/tr por, sl stn NSFO  
B 3222-3236 Ls, wt micro xtln, tr/patchy vug por, f-gd por, st stn FSFO, some  
PSFO, some wet barren  
C 3247-3258 Ls, wt, med-coar xtln, vug por and intergran por, stn, PSFO, some  
micro xtln w/patchy vug por, lt stn NSFO gd odor  
D 3264-3275 Ls, wt, micro xtln, tt, no show  
E 3278-3288 Ls, wt, micro xtln, hard, tt, no show, s ome med xtln, granular, vug  
por, lt stn, NSFO, no sat, gd por, por show  
F 3288-3300 Ls, wt, micro xtln, tt, some chaly ls, tr m xtln a/a w/lt stn, NSFO, some  
barren wet.  
G 3300-3326- Ls, wt, micro xtln, tt, no show tr m xtln granular w/dead bitumen,  
NSFO  
H 3340-3352 Ls, wt, micro xtln, hard, tt, no show couple grns med xtln w/lt stn,  
NSFO  
I 3359-3388 Ls, gray, micro xtln, hard, tt, no show  
K 3398-3410 Ls, a/a, one grn vf xtln, hard w/stn, PSFO when c rushed  
L 3418-3422 Ls, wt, micro xtln, tt, no show

3422 shale, blue, red

#### Arbuckle

3447-3482 Dolo, wt, rhombic, granular, v gd blk stn, exc SFO, bleeding oil exc  
odor. Some cemented dolo, harder w /scat vug por w stn, GSFO, one  
frac plane w/druzy cmt, some very coarse vugs, also  
some tite rock w/no shows, no por.

## DRILL STEM TEST 1

DST #1 3125-3155 Topeka

Rec 90' W

op 2 45 60 60

FP 14-19 20-56

SIP 989-916

Rw .07 @ 60degrees 149,000 ppm chlorides

## DRILL STEM TEST 2

DST #2 3155-3275 Toronto-Kansas City A-D

Rec 245' VSGOMCW (10%Gas 5% Oil, 35% Water, 30% Mud)  
185; VSGOWCM (5% Gas, 5% Oil, 5% water, 85% Mud)

op 2 45 60 90

FP 31-44 53-283

SIP 904-849

Rw .09 @ 45degrees 160,000 ppm chlorides

## MUD RECORD

1/25/12 @2900	MW 8.5	VIS 47	WL 8.0	MC 1/32
1/26/12 @ 3155	MW 8.9	VIS 52	WL 7.6	MC 1/32
1/27/12 @ 3301	MW 8.8	VIS 45	WL 8.8	MC 1/32
1/27/12 @3486	MW 8.6	VIS 45		

## DEVIATION SURVEYS

1/16/12 @ 2201/4 degree

1/21/12 @ 3749 2 degree

## COMMENTS

Shows in ARB were excellent with very good stn and abundant bleeding oil. Some excellent shows were seen in the Toronto from a thin zone at 3140 but tested wet. Good shows were also seen in the Toronto (3140-3142) and upper Kansas City zones (A 3216-3221, C 3448-3254, and D 3268-3270) and a "group" test recovered some oil and water and mud. These zones need to be perfed later as they will give up some oil and should produce with relatively small amount of water.

**Neal La Fon**  
**Geologist**  
**Franktown, CO**  
**1/31/2012**



# ALLIED CEMENTING CO., LLC. 034548

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Russell, Kan

DATE <u>1-23-2012</u>	SEC. <u>4</u>	TWP. <u>9 S</u>	RANGE <u>19 W</u>	CALLED OUT	ON LOCATION	JOB START <u>10:30 PM</u>	JOB FINISH <u>11:00 PM</u>
LEASE <u>Holmes</u>	WELL # <u>1</u>	LOCATION <u>ZURICH KS, 5N 1/2 W 1/2 S, D70</u>		COUNTY <u>ROCKS</u>	STATE <u>KANSAS</u>		
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Royal DRG. Rig # 2  
 TYPE OF JOB Cement Surface  
 HOLE SIZE 12 1/4 T.D. 221'  
 CASING SIZE 8 5/8 New DEPTH 221'  
 TUBING SIZE 20 # CSG DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX 300 # MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. 15  
 PERFS.  
 DISPLACEMENT 13 1/2 BBL

OWNER  
 CEMENT  
 AMOUNT ORDERED 170 Sx Com.  
3% CC.  
2% GEL

COMMON	<u>170 Sx</u>	@ <u>16.<sup>25</sup></u>	<u>2762.50</u>
POZMIX		@	
GEL	<u>4 Sx</u>	@ <u>21.<sup>25</sup></u>	<u>85.00</u>
CHLORIDE	<u>6 Sx</u>	@ <u>58.<sup>20</sup></u>	<u>349.20</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>170 Sx</u>	@ <u>2.<sup>25</sup></u>	<u>382.50</u>
MILEAGE	<u>30 Ten Mile</u>	@ <u>11<sup>00</sup></u>	<u>521.00</u>
TOTAL			<u>4140.20</u>

**EQUIPMENT**

PUMP TRUCK CEMENTER Glenn  
 # 417 HELPER WOODY  
 BULK TRUCK  
 # 481 DRIVER RON  
 BULK TRUCK  
 # DRIVER

**REMARKS:**

REN 5 New JTS OF 8 5/8 20# CSG.  
Set @ 221' Received Circulation  
of cement w/ 170 Sx Com 3 & 2  
Displace 13 1/2 BBL H<sub>2</sub>O & Shot IN  
@ 300 #.  
Cement Circulated to Surface  
MARKS

**SERVICE**

DEPTH OF JOB	<u>2</u>		
PUMP TRUCK CHARGE			<u>1125.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>30 HY ME</u>	@ <u>7.<sup>00</sup></u>	<u>210.00</u>
MANIFOLD		@	
	<u>30 LY ME</u>	@ <u>4.<sup>00</sup></u>	<u>120.00</u>
		@	
TOTAL			<u>1455.00</u>

CHARGE TO: MERIDIAN ENERGY Inc.  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

\_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment

IN 30 DAYS





**CONSOLIDATED OIL WELL SERVICES, LLC**

TICKET NUMBER 33911  
 LOCATION Oakley  
 FOREMAN Fuzzy

PO Box 884, Chanute, KS 66720  
 620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-15-12	5665	Holmes #1	4	9S	19W	Rooks <sup>KS</sup>
CUSTOMER Meridian Energy			Zurich SW 1/2 SW 5/4			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			463	Josh G		
STATE			466	Was E		
ZIP CODE						

JOB TYPE P-collar HOLE SIZE \_\_\_\_\_ HOLE DEPTH \_\_\_\_\_ CASING SIZE & WEIGHT 5 1/2 15.5  
 CASING DEPTH \_\_\_\_\_ DRILL PIPE \_\_\_\_\_ TUBING 2 7/8 OTHER P-collar @ 1376  
 SLURRY WEIGHT 12.5 SLURRY VOL 1.89 WATER gal/sk 10.8 CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT 7.9 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting on Rensselaer well service. Rig up. Pressure closed tool @ 1200\* APE establish circulation. Mix 195 gals 60/40 89 gal 114\* closed. Displace 7 BBL. Test closed tool @ 1200\* Run 5 JTS reverse to clean with 20 BBLs. Cement did circulate approx 8 BBL to pit.

Thanks Fuzzy  
+ crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401 B	1	PUMP CHARGE	1695 <sup>00</sup>	1695 <sup>00</sup>
5406	3.7 mi. hrs	MILEAGE	5 <sup>00</sup>	185 <sup>00</sup>
5407A	8.4 hr	Tow mileage Delivery	167	519 <sup>03</sup>
1131	195 gals	60/40 pos	15 <sup>10</sup>	2944 <sup>50</sup>
1118 B	1342 #	Benonite	1.25	335 <sup>50</sup>
1107	49 #	Cello Glade	2 <sup>83</sup>	138 <sup>18</sup>
		Subtotal		5817 <sup>21</sup>
		less 1090 disc		581 <sup>23</sup>
		Subtotal		5235 <sup>49</sup>
		247850	SALES TAX	193.82
			ESTIMATED TOTAL	5429. <sup>31</sup>

Ravin 3737

AUTHORIZATION [Signature]

TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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



Oil Well Services, LLC

LOCATION \_\_\_\_\_  
FOREMAN Fuzzy

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

# FIELD TICKET & TREATMENT REPORT

## CEMENT

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-23-12	5665	Holmes #1	4	9S	19.0	Roots
CUSTOMER Meridian Energy			Zurich			
MAILING ADDRESS			500			
CITY			1200			
STATE			5 in			
ZIP CODE			TRUCK #	DRIVER	TRUCK #	DRIVER
			463	Josh G		
			828	Calvin		

JOB TYPE Production HOLE SIZE 7718 HOLE DEPTH 3489' CASING SIZE & WEIGHT 5 1/2 15.5  
 CASING DEPTH 3489' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER P Collar @ 1379'  
 SLURRY WEIGHT 14.7 SLURRY VOL 1.36 WATER gal/sk 6.5 CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT 82.5 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting on Royal #1. Float equip - Cent #88, 2, 4, 6, 8, 9, 11, 48. Baskets on #8/Top + #48/Top, Port collar on Top #49. Pump 546 water, mix 30sts 60/40 49ozal 11ozal close in 12H, 20sts in 12H. Mix 125sts common 10% salt, 2% oil, 5% Holseal, 1.25% FL-115 wash pump times. Dip plug and displace 84 54L. 500<sup>th</sup> L/C, 1200<sup>th</sup> L/C. Float held

Thanks Fuzzy crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	3020 <sup>00</sup>	3020 <sup>00</sup>
5406	37 miles	MILEAGE	5 <sup>00</sup>	185 <sup>00</sup>
5407A	8.03 hrs	Tow mileage Delivery	182	496 <sup>17</sup>
1104S	125 gals	Class A cement	17 <sup>00</sup>	2206 <sup>25</sup>
1118B	407 #	Bentoniite	.25	101 <sup>75</sup>
1131	50 stes	60/40 pos	15 <sup>10</sup>	755 <sup>00</sup>
1111	675 #	Salt	.45	303 <sup>75</sup>
1110*	625 #	Kol-seal	.56	350 <sup>00</sup>
1135A	29 #	FL-115	10 <sup>00</sup>	305 <sup>00</sup>
4159	1	5 1/2- ATFU Float shoe	413 <sup>00</sup>	413 <sup>00</sup>
4454	1	5 1/2- breakdown Assy	303 <sup>00</sup>	303 <sup>00</sup>
4130	8	5 1/2- centralizers	58 <sup>00</sup>	464 <sup>00</sup>
4104	2	5 1/2- cement baskets	276 <sup>00</sup>	552 <sup>00</sup>
4285	1	5 1/2- Port collar	2075 <sup>00</sup>	2075 <sup>00</sup>
1107	13 #	Flu-seal	2 <sup>80</sup>	36 <sup>00</sup>
			sub total	11567 <sup>32</sup>
			24748 <sup>2</sup>	less 10% disc
			sub total = 10410 <sup>28</sup>	1156 <sup>73</sup>
			SALES TAX	446 <sup>03</sup>
			ESTIMATED TOTAL	10856 <sup>81</sup>

Ravin 3737

AUTHORIZATION

TITLE

DATE

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Meridian Energy Inc.  
 1475 N Ward Circle  
 Franktown, CO 80116  
 ATTN: Neal Lafon

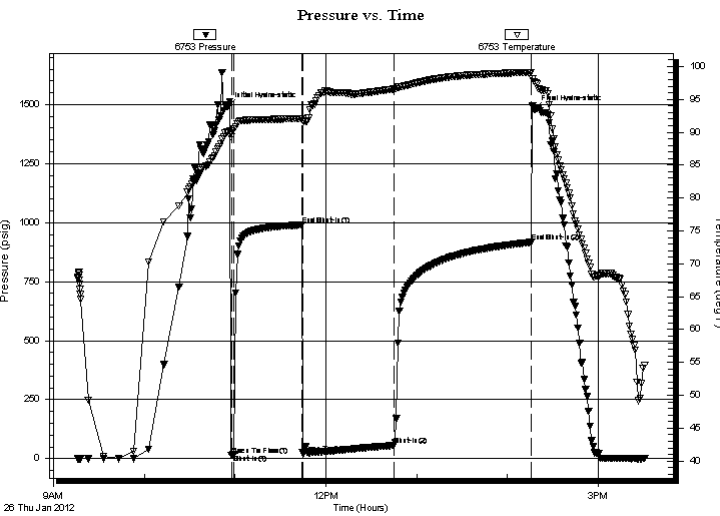
**4-9-19, Rooks, Ks**  
**Holmes#1**  
 Job Ticket: 46856 **DST#: 1**  
 Test Start: 2012.01.26 @ 09:15:58

## GENERAL INFORMATION:

Formation: **Topeka**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:57:28  
 Time Test Ended: 15:30:28  
**Interval: 3125.00 ft (KB) To 3155.00 ft (KB) (TVD)**  
 Total Depth: 3155.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brett Dickinson  
 Unit No: 59  
 Reference Elevations: 2012.00 ft (KB)  
 2004.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6753 Inside**  
 Press @ Run Depth: 56.13 psig @ 3126.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.01.26 End Date: 2012.01.26 Last Calib.: 2012.01.26  
 Start Time: 09:16:03 End Time: 15:30:27 Time On Btm: 2012.01.26 @ 10:55:28  
 Time Off Btm: 2012.01.26 @ 14:17:28

TEST COMMENT: IF-1/2in blow  
 IS-No blow  
 FF-3.5in blow  
 FS-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1490.01	90.03	Initial Hydro-static
2	14.78	89.35	Open To Flow (1)
4	19.93	90.57	Shut-In(1)
49	989.98	92.12	End Shut-In(1)
50	20.96	91.75	Open To Flow (2)
110	56.13	96.57	Shut-In(2)
200	916.29	99.09	End Shut-In(2)
202	1478.10	97.71	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	water	1.26

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Meridian Energy Inc.

**4-9-19,Rooks,Ks**

1475 N Ward Circle  
Franktown, CO 80116

**Holmes#1**

Job Ticket: 46856

**DST#: 1**

ATTN: Neal lafon

Test Start: 2012.01.26 @ 09:15:58

## 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:

149000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	water	1.262

Total Length: 90.00 ft      Total Volume: 1.262 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

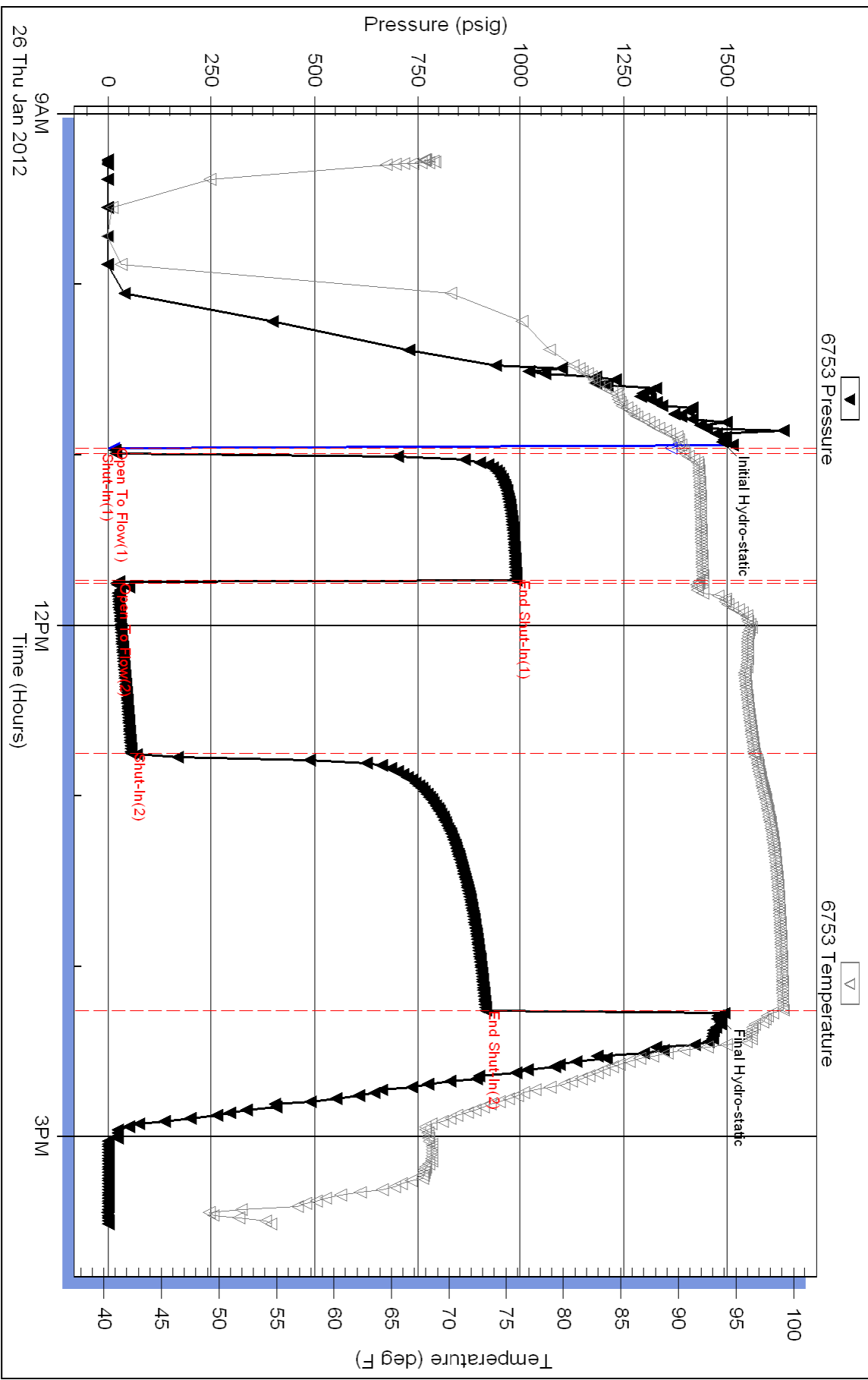
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .07 @ 60

### Pressure vs. Time





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Meridian Energy Inc.  
 1475 N Ward Circle  
 Franktown, CO 80116  
 ATTN: Neal Lafon

**4-9-19, Rooks, Ks**  
**Holmes#1**  
 Job Ticket: 46857      **DST#: 2**  
 Test Start: 2012.01.27 @ 00:25:56

## GENERAL INFORMATION:

Formation: **KC "A-D"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 02:39:56  
 Tester: Brett Dickinson  
 Time Test Ended: 07:40:56  
 Unit No: 59  
**Interval: 3155.00 ft (KB) To 3275.00 ft (KB) (TVD)**  
 Reference Elevations: 2012.00 ft (KB)  
 Total Depth: 3275.00 ft (KB) (TVD) 2004.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

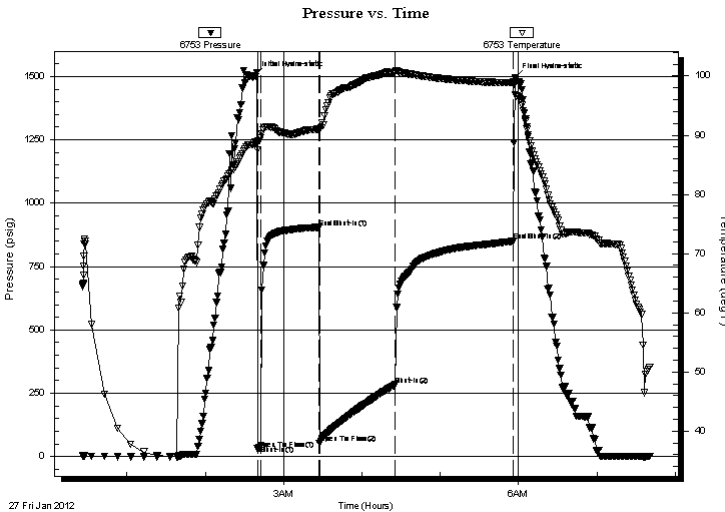
## Serial #: 6753

Inside

Press @ Run Depth: 283.69 psig @ 3156.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.01.27 End Date: 2012.01.27 Last Calib.: 2012.01.27  
 Start Time: 00:26:01 End Time: 07:40:55 Time On Btm: 2012.01.27 @ 02:37:56  
 Time Off Btm: 2012.01.27 @ 05:57:26

TEST COMMENT: IF-4.5in blow  
 IS-No blow  
 FF-BOB in 7min  
 FSI-No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1503.76	88.82	Initial Hydro-static
2	31.23	87.49	Open To Flow (1)
5	44.32	89.64	Shut-In(1)
49	904.23	91.00	End Shut-In(1)
50	53.70	91.01	Open To Flow (2)
108	283.69	100.68	Shut-In(2)
198	849.84	98.89	End Shut-In(2)
200	1494.04	96.87	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
245.00	VSGOMCW 10%G 5%O 55%W 30%M	3.44
185.00	VSGOWCM 5%G 5%O 5%W 85%M	2.60

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Meridian Energy Inc.

**4-9-19,Rooks,Ks**

1475 N Ward Circle  
Franktown, CO 80116

**Holmes#1**

Job Ticket: 46857

**DST#: 2**

ATTN: Neal lafon

Test Start: 2012.01.27 @ 00:25:56

## 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: 160000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
245.00	VSGOMCW 10%G 5%O 55%W 30%M	3.437
185.00	VSGOWCM 5%G 5%O 5%W 85%M	2.595

Total Length: 430.00 ft      Total Volume: 6.032 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .09@45

### Pressure vs. Time

