



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1198850
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: _____

1198850

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 7518

Date	9-27-13	Sec.	4	Twp.	10	Range	19	County	Rooks	State	KS	On Location		Finish	4:30 PM
------	---------	------	---	------	----	-------	----	--------	-------	-------	----	-------------	--	--------	---------

Location Zurich 1W 15 1/2 E S into

Lease	Anderson	Well No.	#2	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	Royal #1				
Type Job	Surface				
Hole Size	12 1/4	T.D.	225'	Charge To	Meridian Energy
Csg.	8 5/8	Depth	223	Street	
Tbg. Size		Depth		City	State
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	20'	Shoe Joint		Cement Amount Ordered	150 342

Meas Line	Displace	13 bbl
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EQUIPMENT			Common	150
Pumptrk	5	No. Cementer Helper	Poz. Mix	
		Nick		
Bulktrk	19	No. Driver	Gel.	3
		David		
Bulktrk	Pu	No. Driver	Calcium	5
		Brett		

JOB SERVICES & REMARKS		Hulls
Remarks:		Salt
Rat Hole		Flowseal
Mouse Hole		Kol-Seal
Centralizers		Mud CLR 48
Baskets		CFL-117 or CD110 CAF 38
D/V or Port Collar		Sand
		Handling 158
		Mileage

FLOAT EQUIPMENT	
Cement	Guide Shoe
	Centralizer
Circulated!!	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge	Surface
Mileage	32

Signature	Doug Rudy	Tax	
		Discount	
		Total Charge	



Services, Inc.

CHARGE TO: Meridian
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 20128

WELL/PROJECT NO. #2
 LEASE # Andersen
 CONTRACTOR Royce/D-19
 RIG NAME/NO. # Rex KS
 COUNTY/PARISH Rex KS
 STATE KS
 CITY Leefield

PAGE 1 OF 2

DATE 12-2-13 OWNER Samm
 ORDER NO.
 WELL LOCATION
 REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575-					MILEAGE #111	42 mi				6.00	240.00
579					Pump Charge (2-stage)	1 ea		3870	00	2000.00	2000.00
221					KCL	4 gal				25.00	100.00
281					Mud Wash	520 gal				1.25	625.00
290					D-Air	4 gal				42.00	168.00
402					Centralizers	9 gal		5 1/2	"	20.00	630.00
403					Baskets	2 ea				285.00	570.00
407					Insert Fleet Shoe w/ Fill	1 ea				375.00	375.00
408					DV Tool w/ Plug set	1 ea				3300.00	3300.00
417					DV L.D. Plug & Backfill	1 ea				200.00	200.00
419					Retating Head	1 ea				200.00	200.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS
 DATE SIGNED 12-2-13 TIME SIGNED 2:24 PM
 X [Signature]

SURVEY
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? YES NO
 WE UNDERSTOOD AND MET YOUR NEEDS? YES NO
 OUR SERVICE WAS PERFORMED WITHOUT DELAY? YES NO
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? YES NO
 ARE YOU SATISFIED WITH OUR SERVICE? YES NO
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 1
 PAGE 2
 TOTAL 18,184.25

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR [Signature] APPROVAL [Signature]
 Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 251225

CUSTOMER Merrilligan WELL 22 Anderson DATE 12-2-13 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	UM	QTY.	UM		
325		2				Standard of Cement	156	sfs			14 ⁰⁰	2184 ⁰⁰
350		2				SMB Cement	215	sfs			17 ⁰⁰	3655 ⁰⁰
276		2				Flacile	165	m	3/4	1/4	1 ⁰⁰	262 ⁰⁰
283		2				Salt	128	m	10	0%	5 ⁰⁰	156 ⁰⁰
284		2				Colsoal	7	sfs	5	1/2	33 ⁰⁰	245 ⁰⁰
285		2				Wolad-1	20	m	1/2	1/2	8 ⁰⁰	560 ⁰⁰
581		2				SERVICE CHARGE					7 ⁰⁰	750 ⁰⁰
583		2				MILEAGE TOTAL WEIGHT CHARGE					1 ⁰⁰	1131 ⁵⁰

CONTINUATION TOTAL 8961 50

JOB LOG

SWIFT Services, Inc.

DATE 10-2-13 PAGE NO. 1

CUSTOMER Meridian WELL NO. #2 LEASE Andresen JOB TYPE 2-stage TICKET NO. 25128

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1800							on loc w/ FE
								RTD 3810'
								5 1/2" x 14# x 3804' x 42'
								sect. 1, 3, 4, 6, 8, 10, 12, 14, 5-1
								Bank 52, 73
								DV 52 @ 1583'
	1830							start FE
	1955							Break Circ
	2105	5	0				200	start Preflushes 500 gal Mud Flush 20 bbl KCL Flush
		5	32/0				200	start EA-2 150sks
	2120		36					End Cement wash P&L
								Drop LD Plug
	2125	6	0				200	start Displacement w/ x
		6	55				200	Mud
		5	73				550	KCL
	2145		92				750 1400	Land Plug Release Pressure Float Held Drop Opening Plug
	2150	2	7/5					Plug RH&MH 30/20sks SMD
	2200						1100	Open DV
	2201	5	0				200	start SMD 175sks
	2220		97					End Cement wash P&L Drop Closing Plug
	2225	5	0				200	start Displacement
		4					250	Circulate Cement
	2230		39				550 1500	Land Plug
								circ 40sks to pit
								Thank you
								Nick, David E. & John



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Meridian Energy Inc.
1475 Ward Dr
Franktown, CO 80116
ATTN: Harley Sayles

4-10-19 Rooks, KS

Anderson #2

Job Ticket: 55753

DST#: 1

Test Start: 2013.10.01 @ 04:36:00

GENERAL INFORMATION:

Formation: **LKC "C&D"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 06:24:30 Tester: Brannan L
 Time Test Ended: 09:19:30 Unit No: 68
 Interval: **3469.00 ft (KB) To 3500.00 ft (KB) (TVD)** Reference Elevations: 2210.00 ft (KB)
 Total Depth: 3500.00 ft (KB) (TVD) 2204.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 6.00 ft

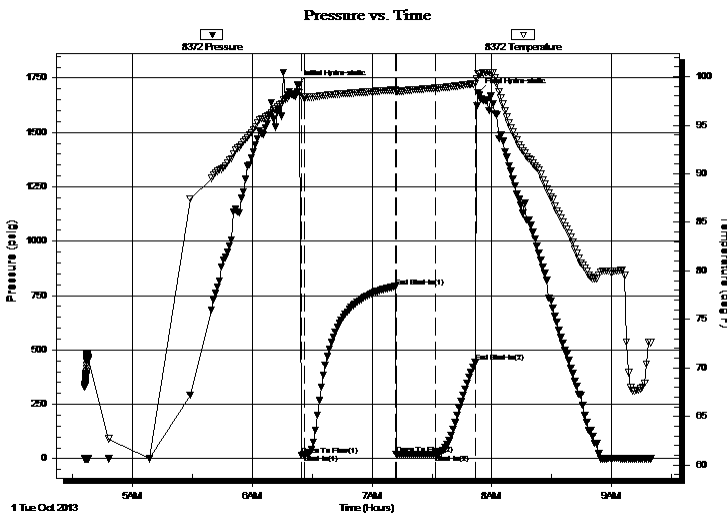
Serial #: 8372

Inside

Press @ Run Depth: 20.07 psig @ 3470.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.01 End Date: 2013.10.01 Last Calib.: 2013.10.01
 Start Time: 04:36:01 End Time: 09:19:30 Time On Btm: 2013.10.01 @ 06:22:30
 Time Off Btm: 2013.10.01 @ 07:53:00

TEST COMMENT: 02- IF- Surface blow
 45- ISI- No blow
 20- FF- No blow
 20- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1720.88	98.43	Initial Hydro-static
2	17.12	97.90	Open To Flow (1)
4	18.08	97.90	Shut-In(1)
49	791.30	98.64	End Shut-In(1)
50	18.78	98.49	Open To Flow (2)
69	20.07	98.81	Shut-In(2)
89	442.27	99.27	End Shut-In(2)
91	1681.47	100.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	M, 100%M	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Meridian Energy Inc.

4-10-19 Rooks, KS

1475 Ward Dr
Franktown, CO 80116

Anderson #2

Job Ticket: 55753

DST#: 1

ATTN: Harley Sayles

Test Start: 2013.10.01 @ 04:36:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	M, 100%M	0.027

Total Length: 2.00 ft Total Volume: 0.027 bbl

Num Fluid Samples: 0

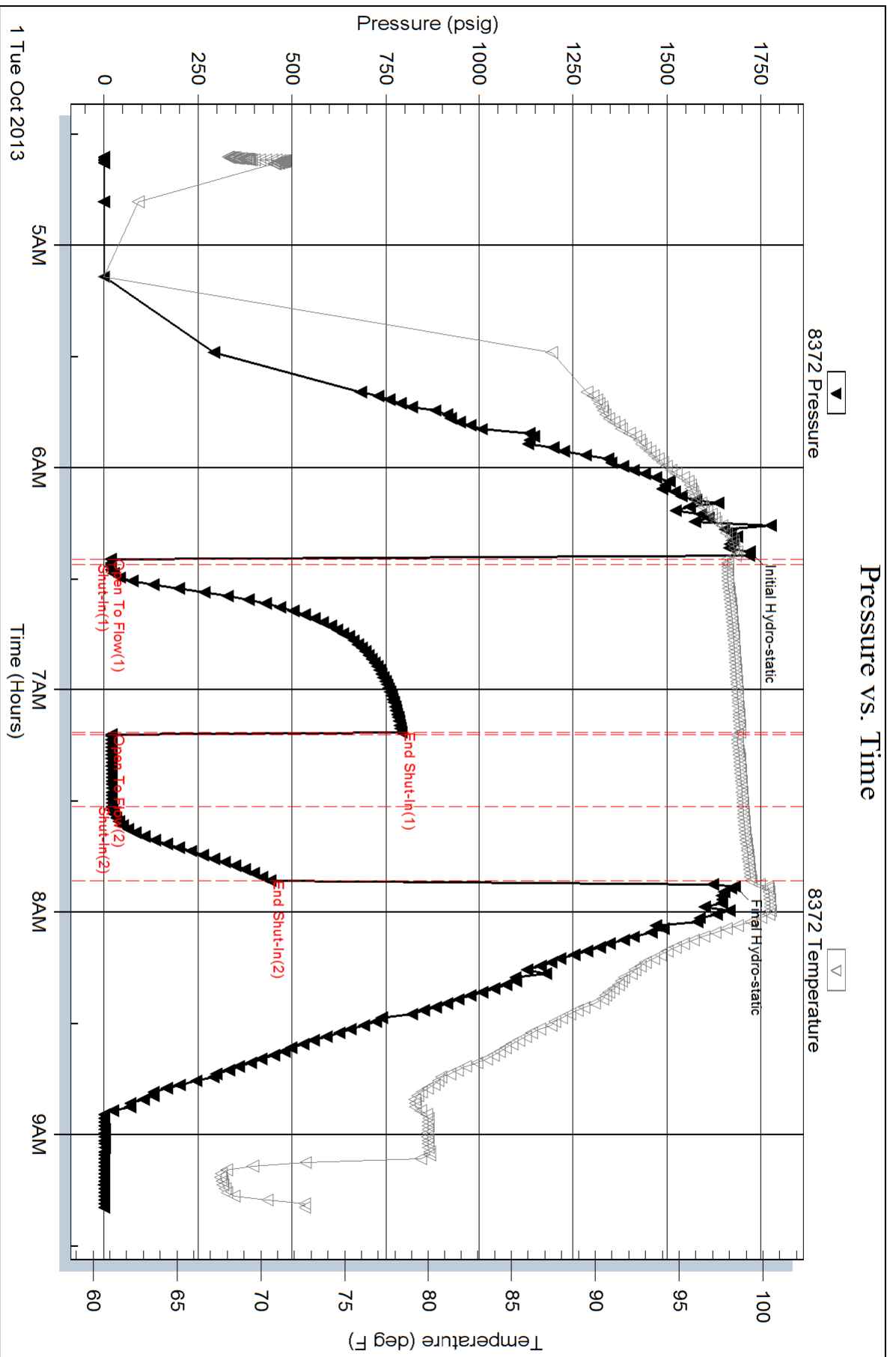
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Geological Report

Meridian Energy, Inc.
Anderson #2
330' FNL & 1320' FWL
Sec. 4 T10s R19w
Rooks County, Kansas

S

Harley K. Sayles

General Data

Well Data: Meridian Energy, Inc.
Andreson #2
330' FNL & 1320' FWL
Sec. 4 T10s R19w
Rooks County, Kansas
API # 15-163-24152-0000

Drilling Contractor: Royal Drilling Co. Rig #1

Geologist: Harley Sayles

Spud Date: September **, 2012

Completion Date: October 2, 2012

Elevation: 2204' Ground Level
2211' Kelly Bushing

Directions: Zurich KS, 1.0 mi south on 10 Rd, 0.8 mi West on Y Rd, 0.1 mi
South into location

Casing: 20# 8 5/8" surface casing set @ 223,

Samples: 30' wet and dry, 3000' to 3150'
10' wet and dry, 3150' to RTD

Drilling Time: 2500' to RTD

Electric Logs: Compensated Density Neutron, Dual Induction, Microresistivity

Drillstem Tests: One, "Brannan L."

Problems: None

Remarks: None

Formation Tops

	Meridian Energy, Inc.
	Andreson #2
	Sec. 4 T10s R19w
Formation	330' FNL & 1320' FWL
Anhydrite	1588', +623
Base	1621', +590
Topeka	3179', -968
Heebner	3386', -1175
Toronto	3406', -1195
Lansing	3413', -1202
Lansing A	3424', -1213
Lansing B	3444', -1233
Lansing C	3458', -1247
Lansing D	3478', -1267
Lansing E-F	3493', -1282
Lansing G	3503', -1292
Lansing H	3557', -1346
Lansing I	3575', -1364
Lansing J	3586', -1375
Lansing K	3613', -1402
Lansing L	3647', -1436
Conglomerate	3664', -1453
Simpson	3704', -1493
Arbuckle	3729', -1518
RTD	3810', -1599
LTD	3810', -1599

Sample Zone Descriptions

Topeka (lower)

(3179', -968)

Ls- Tan, fine crystalline, poor inter-crystalline porosity, very poor vuggy porosity, poor oomoldic porosity, slight show of free oil, partial scattered saturation and stain, slight odor, dull yellow florescence

Toronto

(3406', -1195)

Ls- Cream, sub crystalline, very poor vuggy porosity, very slight show of free oil, no odor on break

Lansing A

(3424', -1213)

Ls- Tan, sub crystalline, poor to fair intra fossil vug porosity, slight show of free oil on break, weak odor

Lansing C

(3458', -1247)

Ls- Tan, fine to sub crystalline, poor to fair intercrystalline porosity, scattered saturation and stain, slight show of free oil on break, weak odor

Lansing D

(3478', -1267)

Ls- Cream to tan, fine to sub crystalline, poor to good intercrystalline porosity, poor inter fossil porosity, slight show of free oil, weak odor

Lansing E-F

(3493', -1282)

Ls- Cream, fine crystalline, poor to fair vuggy porosity, scattered poor intercrystalline porosity, partial saturation and stain, poor intra fossil porosity, slight show of free oil on break, weak odor

Lansing H

(3557', -1346)

Ls- Tan, fine to sub crystalline, scattered poor vuggy porosity, slight show of free oil on break, weak odor

Lansing I

(3575', -1364)

Ls- Cream to tan, fine to sub crystalline, poor to fair inter and intra fossil porosity, partial saturation and stain, fair show of free oil, fair odor

Lansing J

(3586', -1375)

Ls- Tan, fine crystalline, poor to good intercrystalline porosity, poor vuggy porosity, partial to complete saturation and stain, fair to good show of free oil, strong odor, few gas bubbles

Conglomerate

(3664', -1453)

Δ Cht- Orange yellow transparent opaque white, angular, poor vuggy porosity, dead oil stain and live oil, fair show of free oil, weak odor

Arbuckle

(3729', -1518)

Ls- Tan, fine crystalline, fair to very good intercrystalline sucrosic porosity, complete saturation and stain, very good show of free oil, good odor, yellow florescence, scum of oil on top of sample cup, lots of free oil in sample

Drill Stem Tests

Trilobite Testing Inc.

“Brannan L”

DST #1 Lansing D

Interval (3469' – 3500') Anchor Length 31'

IHP	– 1721 #	
IFP	– 2" – Surface blow	17-18 #
ISI	– 45" – No blow back	791 #
FFP	– 45" – No blow	19-20 #
FSIP	– 20" – No blow back	442 #
FHP	– 1681 #	
BHT	– 99 °F	

Recovery: 2' M

Structural Comparison

	Meridian Energy, Inc.	Meridian Energy, Inc.		Stableford & K & E	
	Andreson #2	Andreson #1		Andreson #2	
	Sec. 4 T10s R19w	Sec. 4 T10s R19w		Sec. 4 T10s R19w	
Formation	330' FNL & 1320' FWL	330' FNL & 660' FWL		330' FNL & 1650' FWL	
Anhydrite	1588', +623	1595', +623	flat	1590', +616	(+7)
Base	1621', +590	1630', +588	(+2)	N/A	N/A
Topeka	3179', -968	3188', -970	(+2)	N/A	N/A
Heebner	3386', -1175	3394', -1176	(+1)	3383', -1177	(+2)
Toronto	3406', -1195	3414', -1196	(+1)	N/A	N/A
Lansing	3413', -1202	3421', -1203	(+1)	3420', -1214	(+12)
Lansing A	3424', -1213	3432', -1214	(+1)	N/A	N/A
Lansing B	3444', -1233	3452', -1234	(+1)	N/A	N/A
Lansing C	3458', -1247	3466', -1248	(+1)	N/A	N/A
Lansing D	3478', -1267	3486', -1268	(+1)	N/A	N/A
Lansing E-F	3493', -1282	3502', -1284	(+2)	N/A	N/A
Lansing G	3503', -1292	3512', -1294	(+2)	N/A	N/A
Lansing H	3557', -1346	3564', -1346	flat	N/A	N/A
Lansing I	3575', -1364	3583', -1365	(+1)	N/A	N/A
Lansing J	3586', -1375	3597', -1379	(+4)	N/A	N/A
Lansing K	3613', -1402	3622', -1404	(+2)	N/A	N/A
Lansing L	3647', -1436	3656', -1438	(+2)	N/A	N/A
Conglomerate	3664', -1453	3668', -1450	(-3)	N/A	N/A
Simpson	3704', -1493	3723', -1505	(+12)	N/A	N/A
Arbuckle	3729', -1518	3740', -1522	(+4)	3725', -1519	(+1)
RTD	3810', -1599	3502', -1294		3727', -1521	
LTD	3810', -1599	3502', -1295			

Summary

The location for the Andreson #2 well ran structurally higher than expected on the Arbuckle. One drill stem test was conducted in the Lansing D, which was negative.

After all gathered data had been examined the decision was made to run production casing to further evaluate the Andreson #2.

Respectfully Submitted,

Harley K. Sayles