

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1245159
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: _____

1245159

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SODOCO, LLC
Well Name	Carman Trust 16-11
Doc ID	1245159

All Electric Logs Run

Dual Induction
Dual Compensated Porosity
Micro
Sonic

Form	ACO1 - Well Completion
Operator	SODOCO, LLC
Well Name	Carman Trust 16-11
Doc ID	1245159

Tops

Name	Top	Datum
Anhydrite	231	+916
Base Anhydrite	2400	+826
Heebner	3996	-770
Toronto	4020	-789
Lansing	4047	-821
Muncie Creek	4242	-1016
Stark Shale	4347	-1121
Base Kansas City	4496	-1270
Marmaton	4537	-1311
Pawnee	4614	-1388
Fort Scott	4651	-1425
Cherokee Shale	4660	-1566
Morrow Shale	4854	-1628
Morrow Sand	4876	-1650



DRILL STEM TEST REPORT

Prepared For: **SDOCO LLC**

PO Box 369
Littleton CO. 80160

ATTN: Gary Doke - Kurt Tal

Carman Trust #16-11

11-19s-36w Wichita,KS

Start Date: 2014.12.29 @ 10:00:15

End Date: 2014.12.29 @ 17:37:15

Job Ticket #: 58562 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.12.31 @ 08:05:31

SDOCO LLC 11-19s-36w Wichita,KS Carman Trust #16-11 DST # 1 Marmaton 2014.12.29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

SDOCO LLC

PO Box 369
Littleton CO. 80160

ATTN: Gary Doke - Kurt Tal

11-19s-36w Wichita, KS

Carman Trust #16-11

Job Ticket: 58562

DST#: 1

Test Start: 2014.12.29 @ 10:00:15

GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:39:00
 Time Test Ended: 17:37:15

Test Type: Conventional Bottom Hole (Initial)
 Tester: Mike Roberts
 Unit No: 65

Interval: **4494.00 ft (KB) To 4548.00 ft (KB) (TVD)**
 Total Depth: 4548.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3225.00 ft (KB)
 3214.00 ft (CF)
 KB to GR/CF: 11.00 ft

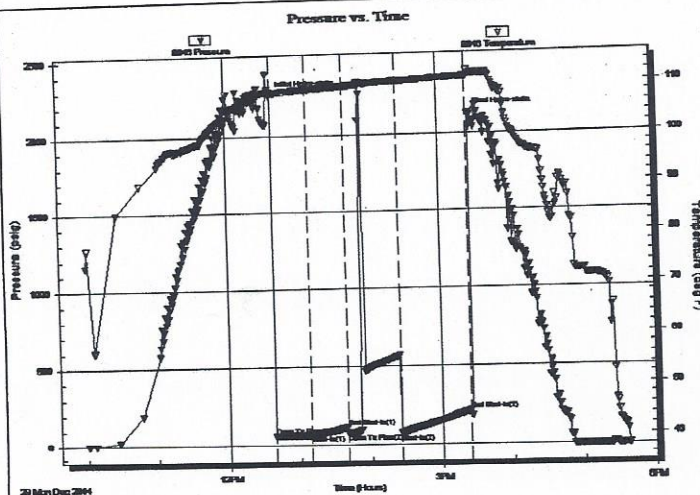
Serial #: 8846

Inside

Press@RunDepth: 74.05 psig @ 4500.00 ft (KB)
 Start Date: 2014.12.29 End Date: 2014.12.29
 Start Time: 10:00:15 End Time: 17:37:15

Capacity: 8000.00 psig
 Last Calib.: 2014.12.29
 Time On Btm: 2014.12.29 @ 12:38:45
 Time Off Btm: 2014.12.29 @ 15:25:45

TEST COMMENT: IF: Built to weak surface blow
 IS: No return blow
 FF: No blow ---- flushed tool --- no blow
 FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2270.76	108.73	Initial Hydro-static
1	63.34	108.02	Open To Flow (1)
31	68.94	109.04	Shut-In(1)
61	115.55	109.57	End Shut-In(1)
62	75.35	109.57	Open To Flow (2)
107	74.05	110.22	Shut-In(2)
166	217.77	111.18	End Shut-In(2)
167	2128.31	112.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	thick mud	0.05

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

SDOCO LLC
PO Box 369
Littleton CO. 80160

ATTN: Gary Duke - Kurt Tal

11-19s-36w Wichita, KS

Carman Trust #16-11

Job Ticket: 58562

DST#: 1

Test Start: 2014.12.29 @ 10:00:15

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Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

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Interval: **4494.00 ft (KB) To 4548.00 ft (KB) (TVD)**

Total Depth: 4548.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 65

Reference Elevations: 3225.00 ft (KB)

3214.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8737

Outside

Press@RunDepth: psig @ 4500.00 ft (KB)

Start Date: 2014.12.29

End Date:

2014.12.29

Start Time: 10:00:15

End Time:

17:37:00

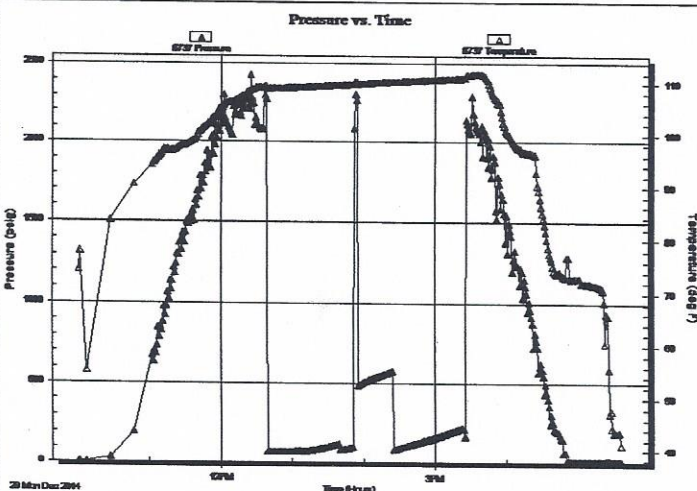
Capacity: 8000.00 psig

Last Calib.: 2014.12.29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Built to weak surface blow
IS: No return blow
FF: No blow ---- flushed tool --- no blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
10.00	thick mud	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

SDOCO LLC

11-19s-36w Wichita,KS

PO Box 369
Littleton CO. 80160

Carman Trust #16-11

Job Ticket: 58562

DST#: 1

ATTN: Gary Duke - Kurt Tal

Test Start: 2014.12.29 @ 10:00:15

Tool Information

Drill Pipe:	Length: 4127.00 ft	Diameter: 3.80 inches	Volume: 57.89 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 366.00 ft	Diameter: 2.25 inches	Volume: 1.80 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 59.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4494.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4476.00	
Shut In Tool	5.00			4481.00	
Sampler	3.00			4484.00	
Hydraulic tool	5.00			4489.00	
Packer	5.00			4494.00	19.00 Bottom Of Top Packer
Packer - Shale	0.00			4494.00	
Stubb	1.00			4495.00	
Perforations	5.00			4500.00	
Recorder	0.00	8846	Inside	4500.00	
Recorder	0.00	8737	Outside	4500.00	
Change Over Sub	1.00			4501.00	
Blank Spacing	31.00			4532.00	
Change Over Sub	1.00			4533.00	
Perforations	10.00			4543.00	
Bullnose	5.00			4548.00	54.00 Anchor Tool

Total Tool Length: 73.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

SDOCO LLC

11-19s-36w Wichita,KS

PO Box 369
Littleton CO. 80160

Carman Trust #16-11

Job Ticket: 58562

DST#: 1

ATTN: Gary Doke - Kurt Tal

Test Start: 2014.12.29 @ 10:00:15

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.58 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 12000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	thick mud	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 #: 8846

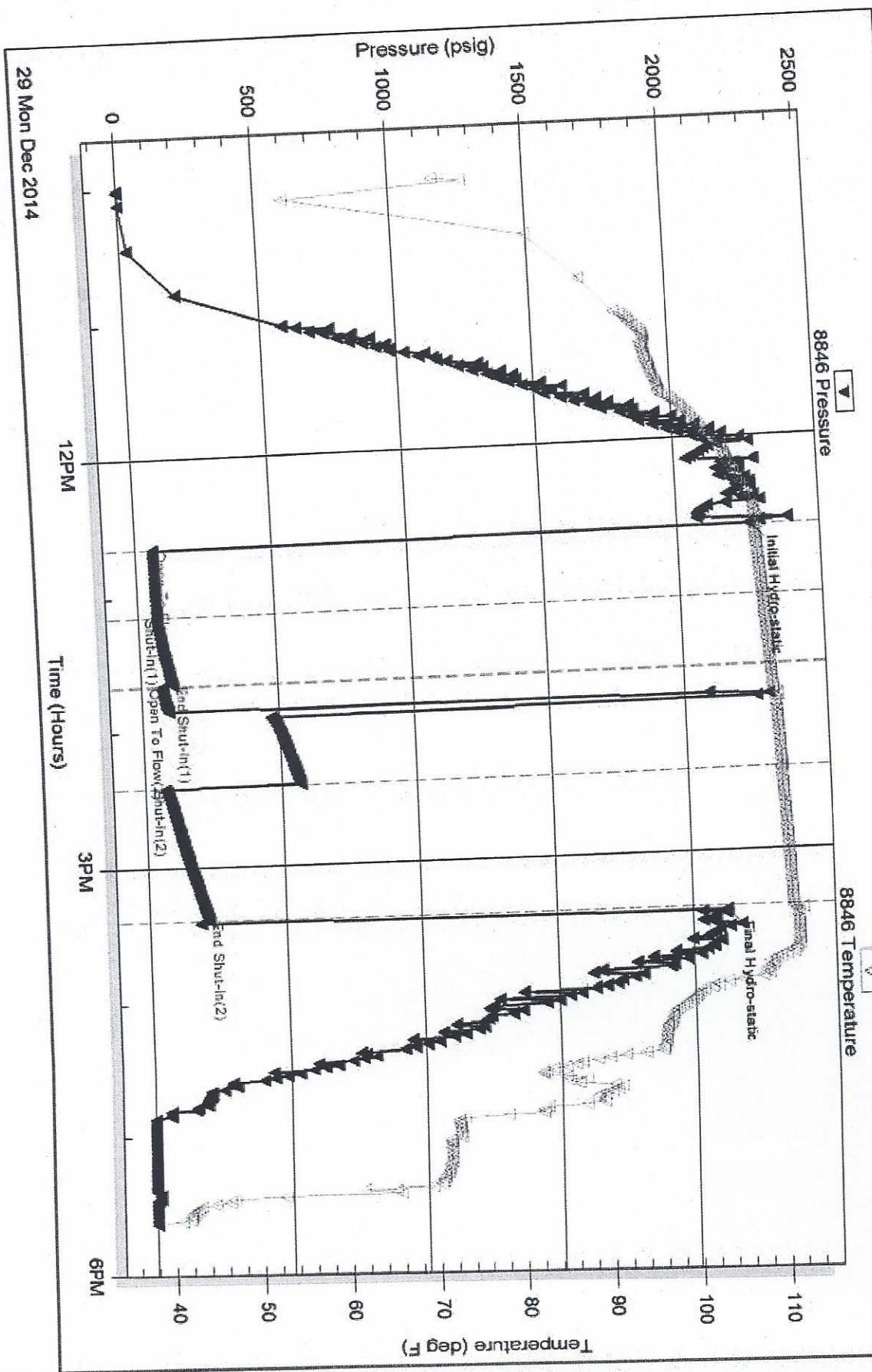
Inside

SDOOO LLC

Cartman Trust #16-11

DST Test Number: 1

Pressure vs. Time



29 Mon Dec 2014

Triobite Testing, Inc

Ref. No: 58562

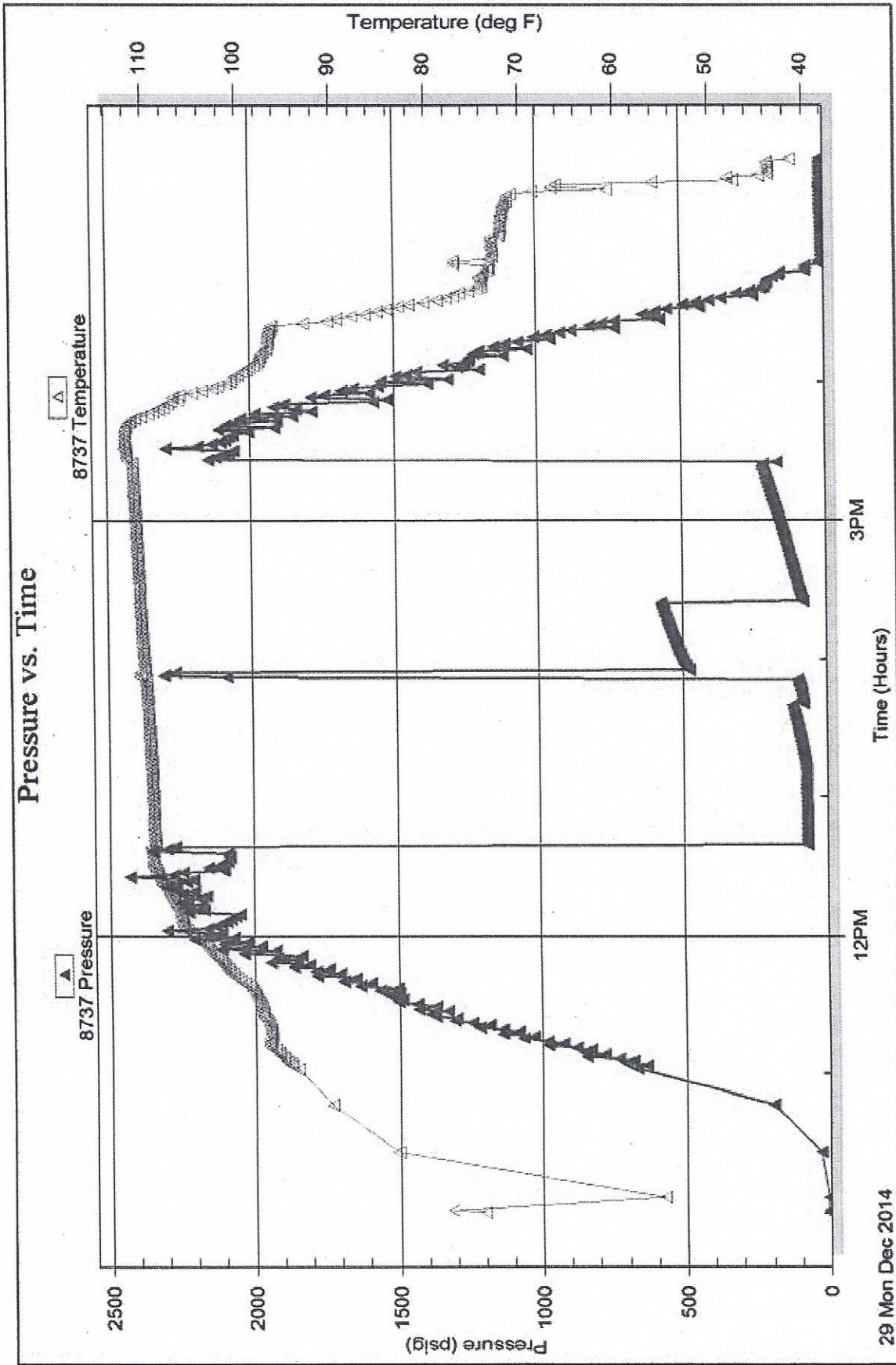
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DST Test Number: 1

Carmen Trust #16-11

Serial #: 8737 Outside SDOOO LLC

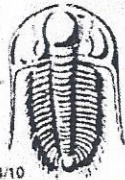
Pressure vs. Time



Printed: 2014.12.31 @ 08:05:32

Ref. No: 58562

Tribolite Testing, Inc



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58562

Well Name & No. Carman Trust # 16-11 Test No. 1 Date 12-29-14
 Company SDOCO LLC Elevation 3225 KB 3214 GL
 Address P.O. Box 369 ~~Littleton~~ Littleton Co 80160
 Co. Rep / Geo. Kurt Talbot + Gary Dowk Rig H2 Rig #1
 Location: Sec. 11 Twp. 19S Rge. 36W Co. Wichita State KS

Interval Tested 4494-4548 Zone Tested Marmaton
 Anchor Length 54' Drill Pipe Run 4127 Mud Wt. 9.3
 Top Packer Depth 4489 Drill Collars Run 366 Vis 52
 Bottom Packer Depth 4494 Wt. Pipe Run Ø WL 9.4
 Total Depth 4548 Chlorides 12000 ppm System LCM 2

Blow Description IF: Built to Weak Surface Blow
IS: No Return Blow
FF: No Blow - Flusted tool - No Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Thick Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 113 Gravity — API RW — @ — °F Chlorides — ppm
 (A) Initial Hydrostatic 2270 Test \$1250.00 T-On Location 07:30
 (B) First Initial Flow 63 Jars — T-Started 10:00
 (C) First Final Flow 68 Safety Joint — T-Open 12:38
 (D) Initial Shut-In 115 Circ Sub NCL T-Pulled 15:23
 (E) Second Initial Flow 75 Hourly Standby — T-Out 17:37
 (F) Second Final Flow 74 Mileage Start = 86.80 / 86.80 Comments —
 (G) Final Shut-In 217 Sampler \$250.00
 (H) Final Hydrostatic 2128 Straddle — Ruined Shale Packer —
 Shale Packer \$250.00 Ruined Packer —

Initial Open 30 Extra Packer — Extra Copies —
 Initial Shut-In 30 Extra Recorder — Sub Total 0
 Final Flow 45 Day Standby — Total 2073.60
 Final Shut-In 60 Accessibility \$150.00 MP/DST Disc't —
 Sub Total \$1986.80

Approved By [Signature] Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damages of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Lease Carman Trust 16-11 Test No. 1
County Wichita Co. KS Sec. 11 Twp. 19S Rng. 36W

SAMPLER RECOVERY

Gas 0 ML Chlorides _____ ppm.
Oil 0 ML Resistivity _____ ohms @ _____ F
Mud 2000 ML Viscosity 52
Water 0 ML Mud Weight 9.3
Other 0 ML Filtrate 0
Pressure 5 pounds ^{wt} 9.6 _{ether}
Total 2000 ML LCM-2

PIT MUD ANALYSIS

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity _____ corrected @60F

PIPE RECOVERY

TOP Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
MIDDLE Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

W. Long

ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Oakley, Ky

DATE <u>10/17/14</u>	SEC. <u>11</u>	TWP. <u>19</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00 AM</u>	JOB FINISH <u>4:30 PM</u>
LEASE <u>Corman</u>	WELL # <u>16-11</u>	LOCATION <u>Maricopa S.S. NW 2W</u>				COUNTY <u>Wickitong</u>	STATE <u>IA</u>
OLD OR NEW (Circle one) <u>NEW</u>				<u>re-into</u>			

CONTRACTOR <u>H&H</u>
TYPE OF JOB <u>Surface</u>
HOLE SIZE <u>12 1/4</u> T.D. <u>323'</u>
CASING SIZE <u>8 1/2</u> DEPTH <u>323'</u>
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>
PERFS.
DISPLACEMENT <u>22-48</u>

OWNER <u>Same</u>
CEMENT
AMOUNT ORDERED <u>22.5 cu yds</u>

EQUIPMENT	
PUMP TRUCK CEMENTER <u>Alan Ryan</u>	
# <u>372-281</u> HELPER <u>Kevin Ryan</u>	
BULK TRUCK	
# <u>818</u> DRIVER <u>Juan M (Tues)</u>	
BULK TRUCK	
# DRIVER	

COMMON <u>885</u> @ <u>1294</u> <u>402.50</u>
POZMIX @
GEL <u>485</u> @ <u>211.50</u>
CHLORIDE <u>035</u> @ <u>698.00</u>
ASC @
<u>55 lb Pw Seal</u> @ <u>292</u> <u>163.35</u>
<u>Material Total</u> @ <u>7,100.85</u>
<u>(1173.19 / 23%)</u> @
HANDLING <u>243</u> @ <u>409 CF</u> @ <u>8.48</u> <u>605.45</u>
MILEAGE <u>22.5 x 10.104</u> @ <u>11.104</u> <u>2137.52</u>
TOTAL

REMARKS:

Quality Circulate, New Cement, Displace Cement
Substituted
Cement did Circulate
500L - Per Gary Decker
Thank you Alan, Kevin, Juan M

CHARGE TO: 50000
STREET _____
CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB
PUMP TRUCK CHARGE <u>1512.05</u>
EXTRA FOOTAGE @
MILEAGE <u>20</u> @ <u>270</u> <u>539.00</u>
MANIFOLD <u>70</u> @ <u>4.40</u> <u>308.00</u>
<u>(1230.35 / 23%)</u> TOTAL <u>5,375.40</u>

PLUG & FLOAT EQUIPMENT

<u>weatherford</u>
(3) <u>Contractors</u> @ <u>750</u> <u>225.00</u>
TOTAL <u>225.00</u>

To: Allied Oil & Gas Services, 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 Gary Dale
SIGNATURE [Signature]

SALES TAX (If Any) _____
TOTAL CHARGES 10,701.27
DISCOUNT 2,409.54 (23%) IF PAID IN 30 DAYS
8,291.72 Net.

ALLIED OIL & GAS SERVICES, LLC 064866

Federal Tax I.D. # 20-3651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Dakley

DATE <u>12-31-14</u>	SEC. <u>11</u>	TWP. <u>19</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>5:00pm</u>	JOB START <u>9:00am</u>	JOB FINISH <u>10:00pm</u>
LEASE <u>Common Trust</u>	WELL# <u>16-11</u>	LOCATION <u>marienthal ss 2w</u>		COUNTY <u>Garfield</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one) <u>NEW</u>				<u>ninto</u>			

CONTRACTOR <u>H2 Rig #1</u>	OWNER <u>same</u>
TYPE OF JOB <u>PTA</u>	
HOLE SIZE <u>7 7/8</u>	T.D. <u>4965</u>
CASING SIZE	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE <u>4 1/2</u>	DEPTH <u>2370'</u>
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT	

CEMENT	
AMOUNT ORDERED <u>290 sbs L940</u>	
<u>4 bags of 14 PLO-seal</u>	
COMMON	@
POZMIX	@
GEL	@
CHLORIDE	@
ASC	@

EQUIPMENT				
PUMP TRUCK # <u>323-281</u>	CEMENTER <u>Andrew Fajfud</u>	PLO-seal <u>22.5 #</u>	@	<u>2.97</u>
	HELPER <u>Brandon Williams</u>		@	<u>215.32</u>
BULK TRUCK # <u>818</u>	DRIVER <u>Wayne Masselle</u>	<u>Indromo watch</u>	@	<u>5702.12</u>
BULK TRUCK #	DRIVER	<u>(7.311.98/1232)</u>	@	
		HANDLING <u>311.45 c/ft</u>	@	<u>7.48</u>
		MILEAGE <u>2.25 miles</u>	@	<u>13.70</u>
				<u>2522.52</u>

REMARKS:

<u>50 sbs @ 2370'</u>
<u>80 sbs @ 1270'</u>
<u>40 sbs @ 660'</u>
<u>50 sbs @ 400'</u>
<u>20 sbs @ 60'</u>
<u>20 sbs @ mousehole</u>
<u>30 sbs bathole</u>

Thank you

CHARGE TO: 6655 DUCO
STREET _____
CITY _____ STATE _____ ZIP _____

To: Allied Oil & Gas Services, 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 Gary Duke
SIGNATURE [Signature]

TOTAL _____

SERVICE

DEPTH OF JOB <u>2370'</u>	
PUMP TRUCK CHARGE	<u>2183.59</u>
EXTRA FOOTAGE	@
MILEAGE <u>20 miles</u>	@ <u>7.70</u>
MANIFOLD	@
<u>Light vehicle</u>	@ <u>4.42</u>

(1519.26/232) TOTAL 6365.48

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

TOTAL _____

SALES TAX (If Any) _____
TOTAL CHARGES 12,307.60
DISCOUNT 2,835.74 / 23% IF PAID IN 30 DAYS
9,476.85 Net.

JAMES C. MUSGROVE

Petroleum Geologist, LLC
212 Main Street
P.O. Box 215
Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 587-3444

SODOCO, LLC
Carmen Trust #16-11
NW-SE-SE-SE (651' FSL & 371' FEL)
Section 11-19s-36w
Ness County, Kansas

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Dry and Abandoned

Contractor: H2 Drilling Co (rig #1)
Commenced: December 16, 2014
Completed: December 31, 2014
Elevation: 3226' K.B., 3224' D.F., 3215' G.L.
Casing program: Surface; 8 5/8" @ 373'
Production, 5 1/2 @ none
Sample: Samples saved and examined 3900' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 3900 ft. to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Drill Stem Tests: There was one (1) Drill Stem Tests ran by Trilobite Testing Co.
Electric Log: By Pioneer, Dual Induction, Dual Compensated Porosity Log, Micro & Sonic Logs.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	2310	+916
Base Anhydrite	2400	+826
Heebner	3996	-770
Toronto	4020	-789
Lansing	4047	-821
Muncie Creek	4242	-1016
Stark Shale	4347	-1121
Base Kansas City	4496	-1270
Marmaton	4537	-1311
Pawnee	4614	-1388
Fort Scott	4651	-1425
Cherokee Shale	4660	-1566
Morrow Shale	4854	-1628
Morrow Sand	4876	-1650
Rotary Total Depth	4965	-1739
Log Total Depth	4960	-1734

All tops and zones corrected to Electric Log Measurement.

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

TOPEKA SECTION

3971-3976' Limestone, cream, light gray, fine and medium crystalline, fossiliferous, granular, dark brown spotty stain, no free oil and no odor, trace white chert.

TORONTO SECTION

4019-4036' Limestone, white, cream, finely crystalline, few medium crystalline, oolitic/fossiliferous, poor scattered porosity, no shows.

LANSING SECTION

4047-4060' Limestone, white, cream finely crystalline, sucrosic, oolitic, poor visible porosity, no shows.

4060-4070' Limestone, white, cream, light gray, fine to medium crystalline, slightly oolitic, poor porosity plus boney chert.

4083-4091' Limestone, as above, plus chert as above.

4100-4110' Limestone, white, light gray, finely crystalline, oolitic, poor visible porosity, chalky; plus chert as above.

4110-4126' Limestone, cream, white, finely crystalline, oolitic, poor porosity, trace black stain, no show of free oil and no odor.

4136-4140' Limestone, gray, tan, fine to medium crystalline, poor scattered porosity, cherty in part.

4164-4172' Limestone, gray, tan, finely crystalline, dense, plus chert, gray and tan, boney.

4185-4220' Limestone, tan, gray, finely crystalline, dense, few oolitic.

4220-4236' Limestone, cream, tan, gray, finely crystalline, oolitic, poor porosity, chalky in part.

4260-4270' Limestone, gray, tan, oolitic, poor porosity, chalky, trace gray/tan chert.

4290-4300' Limestone, cream, tan, gray, finely crystalline, dense.

4306-4320' Limestone, cream, finely crystalline, oolitic, poor pinpoint porosity, trace black stain, show of free oil (dead) and no odor.

4326-4336' Limestone, cream, tan, finely crystalline, oolitic, oomoldic, poor to fair oomoldic porosity, trace dark brown stain, no free oil and no odor in fresh samples.

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4356-4364' Limestone, cream, gray, finely oolitic, oomoldic, poor porosity, cherty, no shows.

4380-4396' Limestone, cream, light gray, finely crystalline, oolitic, poor porosity, few cherty increasingly chalky.

4420-4440' Limestone, cream, light gray, finely oolitic, cherty in part.

4440-4460' Limestone, gray, tan, finely crystalline, dense, chert in part.

4478-4488' Limestone, cream, tan, finely crystalline, highly oolitic, slightly cherty, few dolomitic at base; no shows.

MARMATON SECTION

4538-4550' Limestone, cream, tan, gray, finely crystalline, highly oolitic, few sucrosic, poor pinpoint and inter-crystalline porosity, trace dark brown stain, trace of free oil and a faint odor in fresh samples.

Drill Stem Test #1

4494-4548

Times: 30-30-45-60

Blow: Weak

Recovery: 10' mud

Pressures: ISIP 116 psi
FSIP 218 psi
IFP 63-69 psi
FFP 73-74 psi
HSH 2271-2128 psi

4560-4572' Limestone, light gray, finely crystalline, oolitic, poor pinpoint porosity, no shows, no odor.

4582-4608' Limestone, cream, tan, finely crystalline, dense, few fossiliferous.

PAWNEE SECTION

4616-4642' Limestone, cream, tan, gray, finely crystalline, fossiliferous, poor visible porosity, no shows.

FORT SCOTT SECTION

4652-4659' Limestone, tan, gray, finely crystalline, fossiliferous, poor visible porosity, no shows.

CHEROKEE SECTION

4663-4680' Limestone, white, cream, oolitic, poor porosity, trace dark brown stain, no shows.

4680-4693' Limestone, buff, gray, finely crystalline, dense, few oolitic, dense.

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4698-4719'	Limestone, gray, finely crystalline, few fossiliferous, oolitic, poor porosity, cherty in part.
4735-4754'	Limestone, gray, tan, finely crystalline, few fossiliferous/oolitic, poor visible porosity, cherty in part.
4756-4777'	Limestone, tan, buff, gray, finely crystalline, dense.
4791-4816'	Limestone, tan, buff, gray, finely crystalline, few fossiliferous, poor visible porosity, no shows.
4821-4842'	Limestone, gray, tan, oolitic/fossiliferous, poor visible porosity, cherty in part, no shows.

MORROW SECTION

4876-4889'	Sand, white, fine grained, well rounded, well sorted, dense, few friable poorly developed inter-granular porosity, no shows.
4923-4932'	Sand, white, fine grained, well sorted, rounded, poor inter-granular porosity, few friable, no shows.
4943-4952'	Sand, as above, glauconitic, no shows.

Rotary Total Depth	4965
Log Total Depth	4960

Recommendations:

The SDOCO LLC, Carman Trust #16-11; was plugged and abandoned at the Rotary Total Depth 4965.

Respectfully submitted;



Kurt Talbott
Petroleum Geologist