

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 4767
Name: Ritchie Exploration, Inc.
Address 1: P.O. Box 783188
Address 2: _____
City: Wichita State: KS Zip: 67278 + 3188
Contact Person: Peter Fiorini
Phone: (316) 691-9500
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Max Lovely
Purchaser: _____

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Designate Type of Completion:
 New Well Re-Entry Workover
 Oil WSW SWD SLOW
 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 #: _____
7/28/11 8/8/11 8/8/11
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 057-20737-00-00
Spot Description: 100' S & 80' E
SW SW NE Sec. 7 Twp. 28 S. R. 22 East West
2,410 Feet from North / South Line of Section
2,230 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Ford
Lease Name: O Slash-Zimmerman Well #: 1
Field Name: _____
Producing Formation: _____
Elevation: Ground: 2450 Kelly Bushing: 2462
Total Depth: 5333 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 343 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: 8600 ppm Fluid volume: 1000 bbls
Dewatering method used: evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License #: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Permit #: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.
Signature: _____
Title: Development/Production Geologist Date: 11/30/11

KCC Office Use ONLY
 Letter of Confidentiality Received Date: 11-30-2011
 Confidential Release Date: Denied
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: NJ Date: 12-7-11

Operator Name: Ritchie Exploration, Inc. Lease Name: O Slash-Zimmerman Well #: 1
 Sec. 7 Twp. 28 S. R. 22 East West County: Ford

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Dual Induction Log Compensated Density/Neutron Log	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample Name Top Datum SEE ATTACHED
---	--

CASING RECORD <input checked="" 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
Surface	12-1/4	8-5/8	23	343	class "A"	250	3% cc, 2% gel

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				

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
		RECEIVED DEC 01 2011 KCC WICHITA	

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 (Explain) _____
---	---

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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#1 O Slash-Zimmerman

2410' FNL & 2230' FEL

100' S & 80' E of SW SW NE Section 7-28S-22W

Ford County, Kansas

API# 15-057-20737-0000

Elevation: 2450' GL, 2462' KB

<u>Sample Tops</u>			<u>Ref.</u> <u>Well</u>
Anhydrite	1471'	+991	-22
B/Anhydrite	1516'	+946	-22
Stotler	3590'	-1128	flat
Heebner	4254'	-1792	-13
Lansing	4395'	-1933	-16
Muncie Shale	4580'	-2118	-10
Stark Shale	4730'	-2268	+5
Hush	4772'	-2310	+5
BKC	4813'	-2351	-6
Pawnee	4924'	-2462	+11
Cherokee Shale	4977'	-2515	+5
Atoka Shale	5074'	-2612	+3
Mississippian	5102'	-2640	+5
RTD	5333'	-2871	

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DEC 01 2011
KCC WICHITA

ALLIED CEMENTING CO., LLC. 037332

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

SERVICE POINT:

Great Bend, KS

7-29-11

DATE <u>7-28-11</u>	SEC. <u>30</u>	TWP. <u>26</u>	RANGE <u>22W</u>	CALLED OUT	ON LOCATION	JOB START <u>7:30 am</u>	JOB FINISH <u>7:32 pm</u>
LEASE #		WELL # <u>1</u>		LOCATION <u>Ford, KS, west on 12th st</u>		COUNTY <u>Ford</u>	STATE <u>KS</u>
OLD OR NEW (Circle one) <u>NEW</u>				<u>1/2 mile south west into</u>			

D. Slack -
Zimmerman

CONTRACTOR Onke Rig #1 OWNER R. White Explorations, Inc

TYPE OF JOB Water
 HOLE SIZE 12 1/8" T.D. 345
 CASING SIZE 8 5/8" 23" DEPTH 345
 TUBING SIZE DEPTH
 DRILL PIPE 4 1/2" DEPTH 345
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 32 FT
 PERFS.
 DISPLACEMENT Freshwater
 EQUIPMENT

CEMENT
 AMOUNT ORDERED 250 sq class A 3% cc 2% gel

COMMON	<u>250</u>	@	<u>16.25</u>	<u>4062.50</u>
POZMIX		@		
GEL	<u>5</u>	@	<u>21.25</u>	<u>106.25</u>
CHLORIDE	<u>9</u>	@	<u>58.20</u>	<u>523.80</u>
ASC		@		
RECEIVED				
DEC 01 2011				
KCC WICHITA				
HANDLING	<u>264</u>	@	<u>2.25</u>	<u>594.00</u>
MILEAGE	<u>264 x 87 x .11</u>			<u>2,526.48</u>
				TOTAL <u>7,813.03</u>

PUMP TRUCK CEMENTER Bob R. / Greg R.
 # 366 HELPER Greg R.
 BULK TRUCK
 # 341 DRIVER Kain W.
 BULK TRUCK
 # DRIVER

REMARKS:

Pipe on bottom break circulation with rig mud mix 250 cc class A 3% cc 2% gel with 38.75 bbl water
Shut down release plug and displace with 19.93 bbl freshwater. Land plug shut in
Cement did circulate

SERVICE

DEPTH OF JOB	<u>345</u>			
PUMP TRUCK CHARGE			<u>1125.00</u>	
EXTRA FOOTAGE		@		
MILEAGE	<u>87 174</u>	@	<u>7.00</u>	<u>1218.00</u>
MANIFOLD		@		
<u>Light Truck 174</u>		@	<u>4.00</u>	<u>696.00</u>
				TOTAL <u>3039.00</u>

CHARGE TO: R. White Explorations, Inc
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>3 3/8" baffle plate</u>	@	<u>112.00</u>	<u>112.00</u>
<u>8 5/8" Rubber plug</u>	@	<u>112.00</u>	<u>112.00</u>
	@		
	@		
TOTAL <u>224.00</u>			

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.

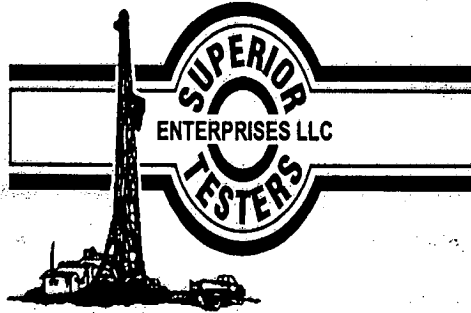
SALES TAX (If Any) _____
 TOTAL CHARGES 11076.03
 DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME Mike Godfrey

SIGNATURE Mike Godfrey

SPMI PRATT **NR**

PR



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Incorporated**

8100 East 22ND Street North
#700
Box 783188

ATTN: Max Lovely

7/28S/22W/Ford

O'Slash-Zimmerman #1

Start Date: 2011.08.05 @ 16:05:00

End Date: 2011.08.06 @ 00:03:30

Job Ticket #: 15828 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2011.08.08 @ 10:21:57

Ritchie Exploration Incorporated

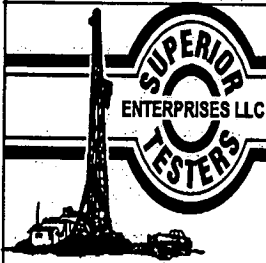
O'Slash-Zimmerman #1

7/28S/22W/Ford

DST # 1

Mississippian

2011.08.05



DRILL STEM TEST REPORT

Ritchie Exploration Incorporated

O'Slash-Zimmerman #1

8100 East 22ND Street North
#700
Box 783188
ATTN: Max Lovely

7/28S/22W/Ford

Job Ticket: 15828 DST#: 1

Test Start: 2011.08.05 @ 16:05:00

GENERAL INFORMATION:

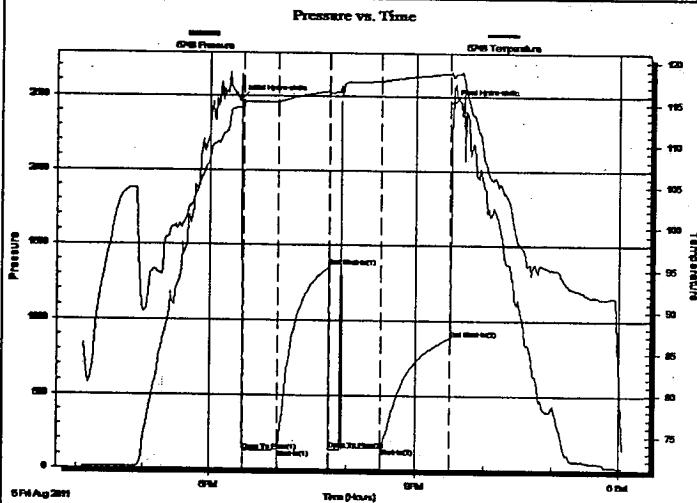
Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:29:00
 Time Test Ended: 00:03:30
 Interval: **5018.00 ft (KB) To 5136.00 ft (KB) (TVD)**
 Total Depth: 5136.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 3325 Great Bend/184
 Reference Elevations: 2462.00 ft (KB)
 2451.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6748

Outside

Press@RunDepth: 146.75 psig @ 5132.62 ft (KB)
 Start Date: 2011.08.05 End Date: 2011.08.06 Capacity: 5000.00 psig
 Start Time: 16:06:00 End Time: 00:03:30 Last Calib.: 2011.08.05
 Time On Btm: 2011.08.05 @ 18:26:30
 Time Off Btm: 2011.08.05 @ 21:33:00

TEST COMMENT: 1ST Open 30 Minutes/Weak blow /Blow built to 5 inches/Slightly died back at end of open
 1ST Shut In 45 Minutes/No blow back
 2ND Open 45 Minutes/No blow /Flush tool/Weak blow /Built to 1 inch/Died back w eak surface by end open
 2ND Shut In 60 Minutes/No blow back



PRESSURE SUMMARY

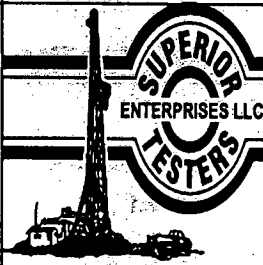
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2471.45	114.50	Initial Hydro-static
3	118.82	114.93	Open To Flow (1)
33	127.64	115.21	Shut-In(1)
78	1350.58	116.46	End Shut-In(1)
79	128.19	116.21	Open To Flow (2)
124	146.75	117.68	Shut-In(2)
184	882.83	118.67	End Shut-In(2)
187	2453.02	118.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	muddy water Mud 40% Water 60%	1.75

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration Incorporated
 8100 East 22ND Street North
 #700
 Box 783188
 ATTN: Max Lovely

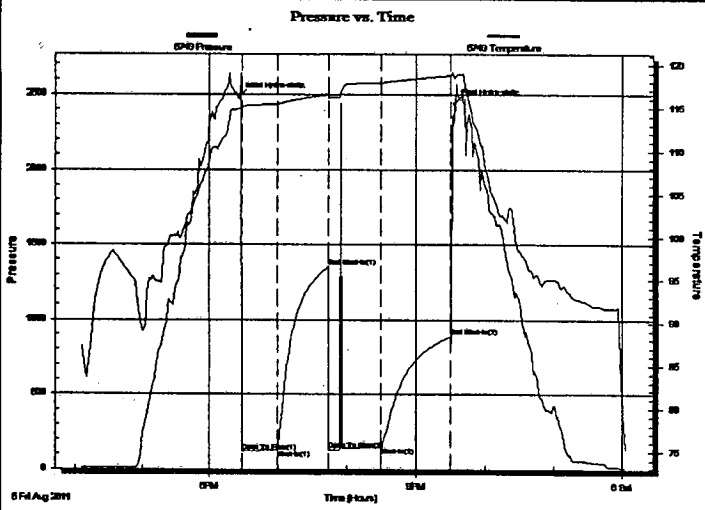
O'Slash-Zimmerman #1
7/28S/22W/Ford
 Job Ticket: 15828 **DST#: 1**
 Test Start: 2011.08.05 @ 16:05:00

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: **No** Whipstock: ft (KB)
 Test Type: **Conventional Bottom Hole (Initial)**
 Time Tool Opened: 18:29:00
 Tester: **Ken Swinney**
 Time Test Ended: 00:03:30
 Unit No: **3325 Great Bend/184**
 Interval: **5018.00 ft (KB) To 5136.00 ft (KB) (TVD)**
 Reference Elevations: **2462.00 ft (KB)**
 Total Depth: **5136.00 ft (KB) (TVD)**
2451.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 KB to GR/CF: **11.00 ft**

Serial #: 6749 **Inside**
 Press@RunDepth: **884.43 psig @ 5131.62 ft (KB)** Capacity: **5000.00 psig**
 Start Date: **2011.08.05** End Date: **2011.08.06** Last Calib.: **2011.08.05**
 Start Time: **16:06:00** End Time: **00:04:00** Time On Btm: **2011.08.05 @ 18:25:30**
 Time Off Btm: **2011.08.05 @ 21:33:00**

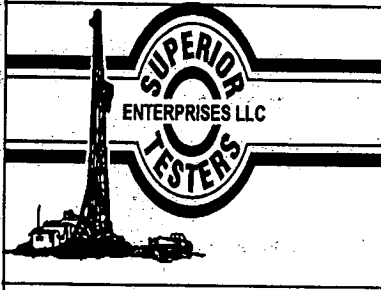
TEST COMMENT: 1ST Open 30 Minutes/Weak blow /Blow built to 5 inches/Slightly died back at end of open
 1ST Shut In 45 Minutes/No blow back
 2ND Open 45 Minutes/No blow /Flush tool/Weak blow /Built to 1 inch/Died back w weak surface by end open
 2ND Shut In 60 Minutes/No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2479.31	114.85	Initial Hydro-static
3	119.29	114.73	Open To Flow (1)
35	128.71	115.48	Shut-In(1)
79	1352.39	116.59	End Shut-In(1)
79	129.45	116.20	Open To Flow (2)
124	147.62	117.89	Shut-In(2)
185	884.43	118.76	End Shut-In(2)
188	2439.82	118.56	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
120.00	muddy w water Mud 40% Water 60%	1.75

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Incorporated
 8100 East 22ND Street North
 #700
 Box 783188
 ATTN: Max Lovely

O'Slash-Zimmerman #1
 7/28S/22W/Ford
 Job Ticket: 15828 DST#: 1
 Test Start: 2011.08.05 @ 16:05:00

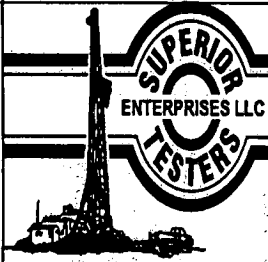
Tool Information

Drill Pipe:	Length: 5007.00 ft	Diameter: 3.88 inches	Volume: 73.22 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 78000.00 lb
			Total Volume: 73.22 bbl	Tool Chased 1.00 ft
Drill Pipe Above KB:	17.75 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	5018.00 ft			Final: 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	117.62 ft			
Tool Length:	146.37 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-in tool	5.00			4994.25	
Hydrolic tool	5.00			4999.25	
Change over sub	0.75			5000.00	
Jars	6.00			5006.00	
Safety Joint	2.00			5008.00	
Packer	5.00			5013.00	28.75 Bottom Of Top Packer
Packer	5.00			5018.00	
Anchor	5.00			5023.00	
change over sub	0.75			5023.75	
drill pipe	94.12			5117.87	
change over sub	0.75			5118.62	
anchor	12.00			5130.62	
Recorder	1.00	6749	Inside	5131.62	
Recorder	1.00	6748	Outside	5132.62	
bull plug	3.00			5135.62	117.62 Bottom Packers & Anchor
Total Tool Length:	146.37				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Incorporated

O'Slash-Zimmerman #1

8100 East 22ND Street North
#700

7/28S/22W/Ford

Box 783188

Job Ticket: 15828 DST#: 1

ATTN: Max Lovely

Test Start: 2011.08.05 @ 16:05:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	muddy w ater Mud 40% Water 60%	1.755

Total Length: 120.00 ft Total Volume: 1.755 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

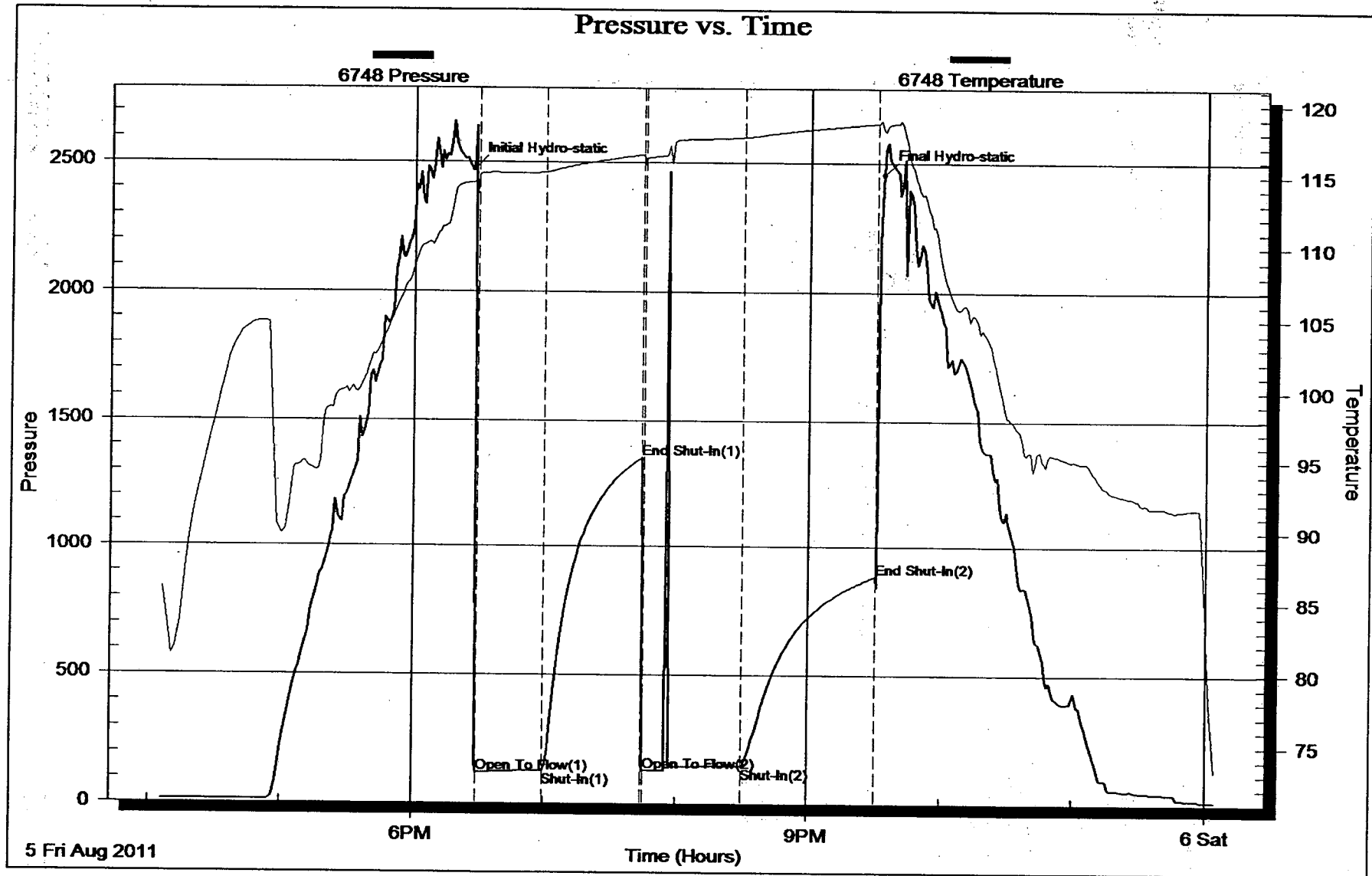
Recovery Comments: Recovery Chlorides 27000 ppm

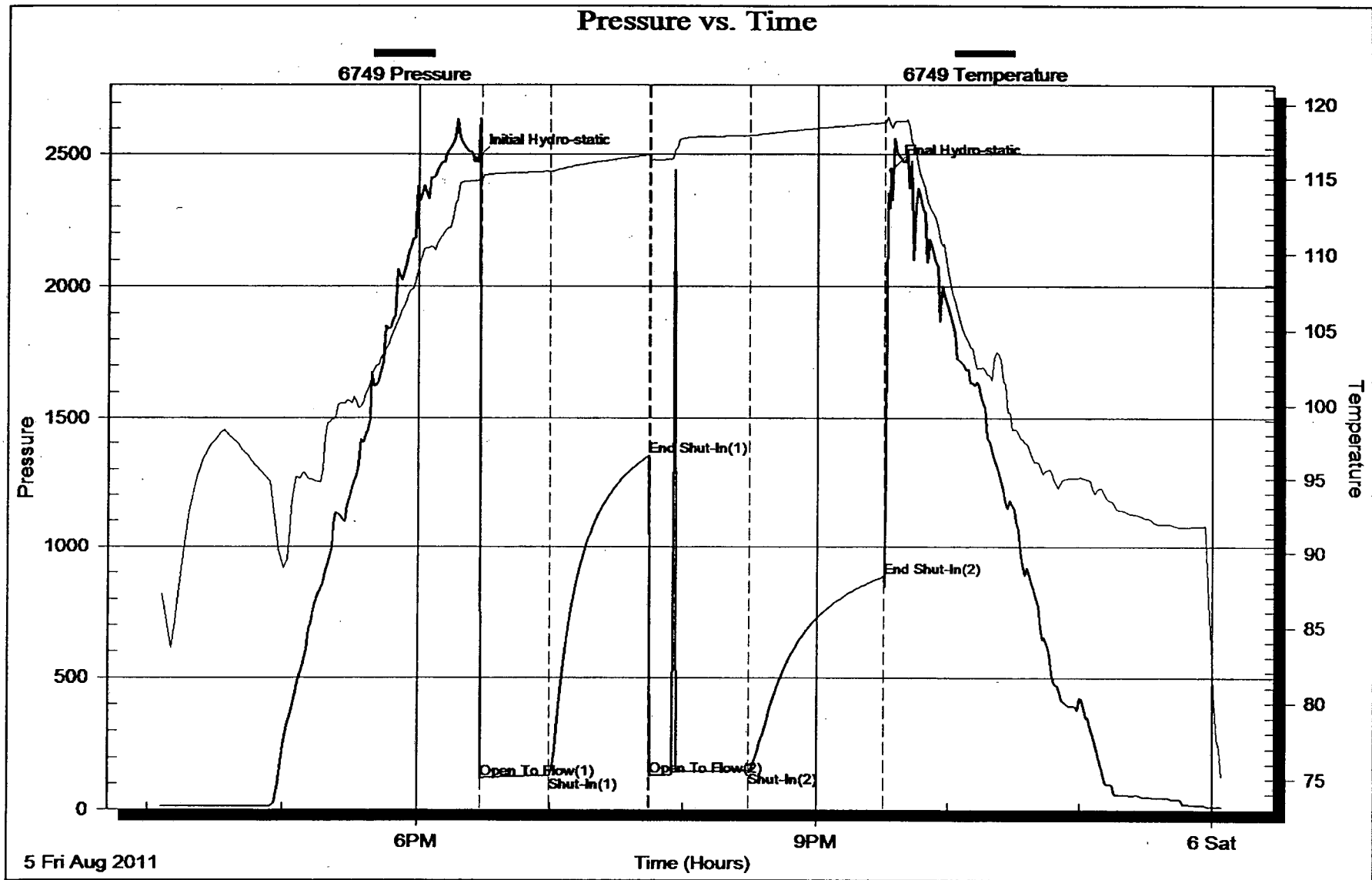
Serial #: 6748

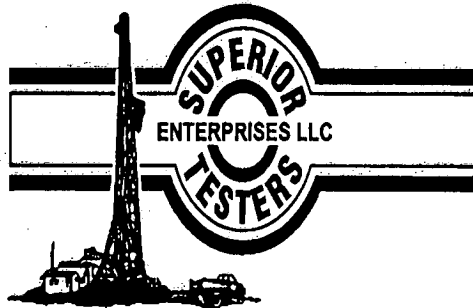
Outside Ritchie Exploration Incorporated

7/28S/22W/Ford

DST Test Number: 1







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Incorporated**

8100 East 22ND Street North
#700
Box 783188

ATTN: Max Lovely

7/28S/22W/Ford

O'Slash-Zimmerman #1

Start Date: 2011.08.07 @ 18:36:00

End Date: 2011.08.08 @ 04:21:30

Job Ticket #: 15829 DST #: 2

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2011.08.08 @ 10:22:10

Ritchie Exploration Incorporated

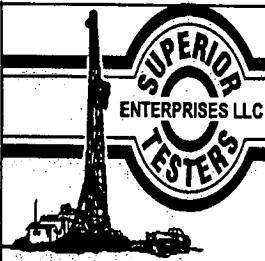
O'Slash-Zimmerman #1

7/28S/22W/Ford

DST # 2

Mississippian

2011.08.07



DRILL STEM TEST REPORT

Ritchie Exploration Incorporated

O'Slash-Zimmerman #1

8100 East 22ND Street North
#700
Box 783188
ATTN: Max Lovely

7/28S/22W/Ford

Job Ticket: 15829 DST#: 2

Test Start: 2011.08.07 @ 18:36:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:50:00

Time Test Ended: 04:21:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/184

Interval: 5130.00 ft (KB) To 5238.00 ft (KB) (TVD)

Total Depth: 5238.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2462.00 ft (KB)

2451.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6748

Outside

Press@RunDepth: 791.85 psig @ 5234.86 ft (KB)

Capacity: 5000.00 psig

Start Date: 2011.08.07

End Date: 2011.08.08

Last Calib.: 2011.08.07

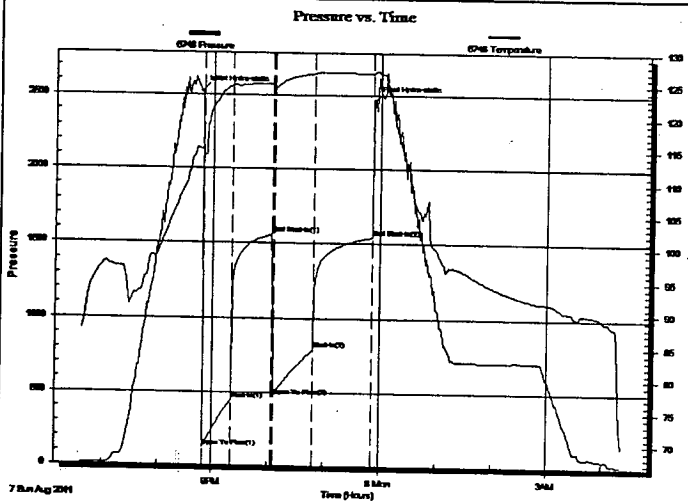
Start Time: 18:37:00

End Time: 04:21:30

Time On Btm: 2011.08.07 @ 20:47:30

Time Off Btm: 2011.08.07 @ 23:53:30

TEST COMMENT: 1ST Open 30 Minutes/Fair blow/Blow built to bottom of bucket in 4 minutes
1ST Shut In 45 Minutes/No blow back
2ND Open 45 Minutes/Fair blow/Blow built to bottom of bucket in 8 minutes
2ND Shut In 60 Minutes/No blow back



PRESSURE SUMMARY

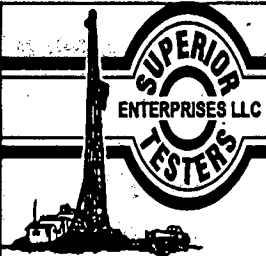
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2525.09	115.18	Initial Hydro-static
3	124.99	114.31	Open To Flow (1)
33	443.44	124.84	Shut-In(1)
77	1559.99	125.13	End Shut-In(1)
79	471.71	124.56	Open To Flow (2)
122	791.85	126.75	Shut-In(2)
185	1541.17	126.72	End Shut-In(2)
186	2466.95	127.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1570.00	Muddy Water/50% Mud 50%Water	22.96

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration Incorporated

O'Slash-Zimmerman #1

8100 East 22ND Street North
#700
Box 783188
ATTN: Max Lovely

7/28S/22W/Ford

Job Ticket: 15829

DST#: 2

Test Start: 2011.08.07 @ 18:36:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 20:50:00

Time Test Ended: 04:21:30

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Ken Swinney**

Unit No: **3325 Great Bend/184**

Interval: **5130.00 ft (KB) To 5238.00 ft (KB) (TVD)**

Total Depth: **5238.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2462.00 ft (KB)**

2451.00 ft (CF)

KB to GR/CF: **11.00 ft**

Serial #: **6749**

Inside

Press@RunDepth: **1541.94 psig @ 5233.86 ft (KB)**

Capacity: **5000.00 psig**

Start Date: **2011.08.07**

End Date: **2011.08.08**

Last Calib.: **2011.08.07**

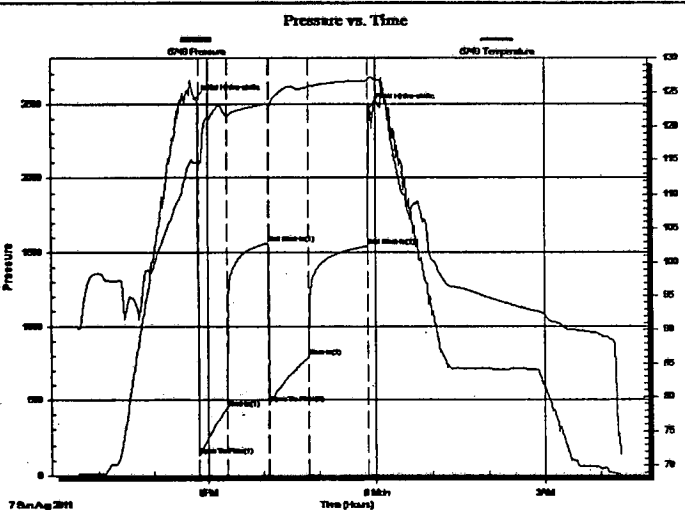
Start Time: **18:37:00**

End Time: **04:21:30**

Time On Btm: **2011.08.07 @ 20:46:30**

Time Off Btm: **2011.08.07 @ 23:53:30**

TEST COMMENT: 1ST Open 30 Minutes/Fair blow/Blow built to bottom of bucket in 4 minutes
1ST Shut In 45 Minutes/No blow back
2ND Open 45 Minutes/Fair blow/Blow built to bottom of bucket in 8 minutes
2ND Shut In 60 Minutes/No blow back



PRESSURE SUMMARY

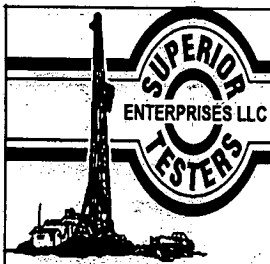
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2535.45	114.59	Initial Hydro-static
4	128.35	113.93	Open To Flow (1)
34	443.55	121.44	Shut-In(1)
79	1562.27	123.35	End Shut-In(1)
80	471.74	122.90	Open To Flow (2)
123	792.49	125.80	Shut-In(2)
186	1541.94	126.70	End Shut-In(2)
187	2473.69	127.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1570.00	Muddy Water/50% Mud 50% Water	22.96

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Incorporated

O'Slash-Zimmerman #1

8100 East 22ND Street North
#700
Box 783188
ATTN: Max Lovely

7/28S/22W/Ford
Job Ticket: 15829 DST#: 2
Test Start: 2011.08.07 @ 18:36:00

Tool Information

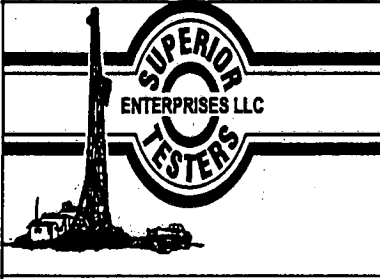
Drill Pipe:	Length: 5107.00 ft	Diameter: 3.88 inches	Volume: 74.69 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 100000.0 lb
			Total Volume: 74.69 bbl	Tool Chased: 2.00 ft
Drill Pipe Above KB:	5.75 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	5130.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	107.86 ft			
Tool Length:	136.61 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-in tool	5.00			5106.25	
Hydraulic tool	5.00			5111.25	
Change over sub	0.75			5112.00	
Jars	6.00			5118.00	
Safety Joint	2.00			5120.00	
Packer	5.00			5125.00	28.75 Bottom Of Top Packer
Packer	5.00			5130.00	
Anchor	5.00			5135.00	
change over sub	0.75			5135.75	
drill pipe	63.36			5199.11	
change over sub	0.75			5199.86	
anchor	33.00			5232.86	
Recorder	1.00	6749	Inside	5233.86	
Recorder	1.00	6748	Outside	5234.86	
bull plug	3.00			5237.86	107.86 Bottom Packers & Anchor

Total Tool Length: 136.61



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Incorporated
 8100 East 22ND Street North
 #700
 Box 783188
 ATTN: Max Lovely

O'Slash-Zimmerman #1
 7/28S/22W/Ford
 Job Ticket: 15829 DST#: 2
 Test Start: 2011.08.07 @ 18:36:00

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 12.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 10300.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information:

Recovery Table

Length ft	Description	Volume bbl
1570.00	Muddy Water/50% Mud 50%Water	22.960

Total Length: 1570.00 ft Total Volume: 22.960 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Recovery Chlorides 37000

Circulating Sub Yes

