



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
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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

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: _____



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
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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)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	---	---



PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887
Fax: (785) 483-5566

For acct.

INVOICE

Invoice Number: 125908
Invoice Date: Jan 13, 2011
Page: 1

Bill To:
Murfin Drlg. Co., Inc.
250 N. Water
STE #300
Wichita, KS 67202

Federal Tax I.D.#: 20-5975804

PROD COPY
operator pay
mpc
on

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Vanava #1-5	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jan 13, 2011	2/12/11

Quantity	Item	Description	Unit Price	Amount
165.00	MAT	Class A Common	15.45	2,549.25
3.00	MAT	Gel	20.80	62.40
6.00	MAT	Chloride	58.20	349.20
174.00	SER	Handling	2.40	417.60
1.00	SER	Handling Mileage Charge	312.00	312.00
1.00	SER	Surface	1,018.00	1,018.00
13.00	SER	Pump Truck Mileage	7.00	91.00

Account	Description
03600 02410 3837	5015.59 Cement S. Co.
	(1679.81)
	0500

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 1679.81

ONLY IF PAID ON OR BEFORE
Feb 7, 2011

Subtotal	4,799.45
Sales Tax	216.14
Total Invoice Amount	5,015.59
Payment/Credit Applied	
TOTAL	5,015.59

2011 / *-1679.81*
3335.78

ALLIED CEMENTING CO., LLC. 040807

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Oakley, KS

1-13-11 DATE	SEC. 5	TWP. 13	RANGE 32	CALLED OUT	ON LOCATION 10:30am	JOB START 4:00pm	JOB FINISH 4:30pm
Wanna LEASE	WELL# 1-5	LOCATION <u>Oakley S-Gove Rd</u>			COUNTY <u>hogan</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		<u>3w-125 C+ N</u>					

CONTRACTOR MURFIN #24
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 222'
 CASING SIZE 8 1/8 DEPTH 222'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15'
 PERFS. _____
 DISPLACEMENT 13.1 Bbls

OWNER _____
 CEMENT AMOUNT ORDERED 165 com 390cc
290gal

EQUIPMENT
 PUMP TRUCK CEMENTER Ruzza
 # 431 HELPER Darren
 BULK TRUCK
 # 396 DRIVER Jerry
 BULK TRUCK
 # _____ DRIVER _____

COMMON	<u>165</u>	@ <u>15 45</u>	<u>2549 25</u>
POZMIX		@	
GEL	<u>3</u>	@ <u>20 80</u>	<u>62 40</u>
CHLORIDE	<u>6</u>	@ <u>58 80</u>	<u>349 20</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>174</u>	@ <u>2 40</u>	<u>417 60</u>
MILEAGE	<u>10 x 5/4 mile</u>		<u>312 00</u>
	<u>minimum</u>		
TOTAL			<u>3690 45</u>

REMARKS:

cement did circulate
Approx 4 Bbls

Job completed @ 4:45pm

Thanks Ruzza crew

SERVICE

DEPTH OF JOB	<u>222'</u>	
PUMP TRUCK CHARGE		<u>1018 00</u>
EXTRA FOOTAGE	@	
MILEAGE	<u>13</u>	@ <u>7 00</u> <u>91 00</u>
MANIFOLD	@	
	@	
	@	

TOTAL 1109 00

CHARGE TO: MURFIN Dals
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL _____		

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

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

PRINTED NAME Anthony Martin
 SIGNATURE Anthony Martin



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300

Accty — cc:WLF
cc:Leon p1
Scan-Liz

Invoice

DATE	INVOICE #
1/24/2011	19286

BILL TO	
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661	USED FOR <u>New well</u> APPROVED <u>JSL</u>

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-5	Vanava	Logan	Murfin Drilling #24	Oil	Development	LongString	Dave
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				80	Miles	5.00	400.00
578D-L	Pump Charge - Long String				1	Job	1,400.00	1,400.00
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
280	Flocheck 21				500	Gallon(s)	2.50	1,250.00T
290	D-Air				2	Gallon(s)	35.00	70.00T
402-5	5 1/2" Centralizer				15	Each	55.00	825.00T
403-5	5 1/2" Cement Basket				2	Each	200.00	400.00T
404-5	5 1/2" Port Collar				1	Each	1,900.00	1,900.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	225.00	225.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	275.00	275.00T
413-5	5 1/2" Roto Wall Scratcher				16	Each	40.00	640.00T
419-5	5 1/2" Rotating Head Rental				1	Each	150.00	150.00T
325	Standard Cement				225	Sacks	12.00	2,700.00T
276	Flocele				56	Lb(s)	1.50	84.00T
283	Salt				1,125	Lb(s)	0.15	168.75T
284	Calseal				11	Sack(s)	30.00	330.00T
285	CFR-1				150	Lb(s)	4.00	600.00T
581D	Service Charge Cement				225	Sacks	1.50	337.50
583D	Drayage				943.24	Ton Miles	1.00	943.24
	Subtotal							12,798.49
	Sales Tax Logan County						7.80%	757.98

Thank You For Your Business In 2010!
We Look Forward To Serving You In 2011!

Total \$13,556.47



CHARGE TO: MARTIN DALL
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 19286
 PAGE 1 OF 2

SERVICE LOCATIONS: HAYS WEL/PROJECT NO. 1-5 LEASE 1A29A COUNTY/PARISH LOGAN STATE KS CITY
 2. NESS TICKET TYPE SALES CONTRACTOR MARTIN DALL #24 RIG NAME/NO. LOGAN SHIPPED VIA CT DELIVERED TO
 3. WEL TYPE DIC WEL CATEGORY Drilling JOB PURPOSE LONGSTRAND WEL PERMIT NO. 15-106-20973 DATE 01-24-11 ORDER NO.
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT							
575				MILEAGE #112	80	mi			5.00	400.00
578				Log Service	1	EA			1400.00	1400.00
281				LIQUIDITY	4	EA			25.00	100.00
280				FIDUCIARY	500	EA			2.50	1250.00
290				DAM	2	EA			35.00	70.00
402				CEMENT	15	EA			55.00	825.00
403				DRYER	2	EA			200.00	400.00
404				PORT CUMM	1	EA			1900.00	1900.00
406				INTERDRUM PUMP & BATTERY	1	EA			225.00	225.00
407				TRUSS FROM SITE THROUGH	1	EA			275.00	275.00
413				ROTOR SCREWERS	1	EA			40.00	40.00
415				ROTORIVE HOIST SYSTEM	1	EA			150.00	150.00

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.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.
 DATE SIGNED 01-24-11 TIME SIGNED 2:45 A.M. P.M.
 SIGNED BY [Signature]

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

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR [Signature] APPROVAL
 TOTAL 13,556.47
 Thank You!



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

TICKET CONTINUATION

TICKET No. 19286

CUSTOMER *MURPHYVILLE*

WELL *L.S. WARAVA*

DATE *01-24-11*

PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	UM		
385		2				SKD EA-2	225	54	12.00	2700.00
276		2				FLOCEL	56	48	1.50	84.00
283		2				SAY	1125	48	8	168.75
284		2				CASEN	11	34	30.00	330.00
285		2				CR-1	150	48	4.00	600.00
581		2				SERVICE CHG. CMZ	225	54	1.50	337.50
583		2				SHAWAKE	943.24	7m	1.00	943.24
						SERVICE CHARGE				
						MILEAGE CHARGE				
						TOTAL WEIGHT				
						LOADED MILES				
						CUBIC FEET				
						TON MILES				

CONTINUATION TOTAL 5163.29

JOB LOG

SWIFT Services, Inc.

DATE 01/24/11 PAGE NO. 1

CUSTOMER MURKIN DRUG WELL NO. 1-5 LEASE VANAVA JOB TYPE CONCRETE PUMP TICKET NO. 19286

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	0345							ONLOCATION CMT: 225.570 EA-2 RD 4740, SET APC 4738, ST 22.97, JACKET #1715 5 1/2 IS 5/8" ADT COLLAR ON TOP # 52, 2556 FT CEM 1-14, S1 BAKER S1, S2, SCRECHERS 16EA JOINTS OUT 114, 115, 116, 117, 118, 120, 604 START C/L & FLOWED BREAK CIRC 4.57 TALD BTTEM - DRIP BACK BREAK CIRC & ROTATE PIPE PLUG R/H 30, M/H 15 WELL FLOW 2% FLOOR CHECK 21 500 GAL WELL FLOW 2% STO EA-2 CMT DROD LD PLUG - WASHOUT PL START DRIP w/ 2% WCL 20 bbls CMT ON BTTEM LAND PLUG RELEASE - DRY JOB COMPLETE THANK YOU! - DAVE, JOSH, ROB	
	0850		7.5						
	0855	5.0	15	-		200			
		}	12	-		}			
			5	-					
	0910		43.5	-					
	0915	7.0	0	-		300			
		}	69.2	-		400			
			95	-		500			
			100	-		600			
			105	-		700			
			110.0	-		800			
	0930		4.5	112.2	-		1500		
	0935								
	1015								



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300

Accty — cc:WLF
cc:Leon p1
Scan-Liz

Invoice

DATE	INVOICE #
1/24/2011	19286

BILL TO	
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661	USED FOR <u>New well</u> APPROVED <u>JSL</u>

- Acidizing
- Cement
- Tool Rental

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578D-L	Pump Charge - Long String				1	Job	1,400.00	1,400.00
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
280	Flocheck 21				500	Gallon(s)	2.50	1,250.00T
290	D-Air				2	Gallon(s)	35.00	70.00T
402-5	5 1/2" Centralizer				15	Each	55.00	825.00T
403-5	5 1/2" Cement Basket				2	Each	200.00	400.00T
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We Look Forward To Serving You In 2011!

Total \$13,556.47



CHARGE TO: MARTIN DALL
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 19286
 PAGE 1 OF 2

SERVICE LOCATIONS: HAYS WEL/PROJECT NO. 1-5 LEASE 1A29A COUNTY/PARISH LOGAN STATE KS CITY LOGAN DATE 01-24-11 OWNER
 2. NESS TICKET TYPE SALES CONTRACTOR MARTIN DALL #24 RIG NAME/NO. 13530 1/2 1/2 DAYLEY ORDER NO.
 3. WEL TYPE DIC WEL CATEGORY Drilling JOB PURPOSE LONGSTRAND WEL PERMIT NO. 15-106-20973 WEL LOCATION SS, T 23032
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.
 DATE SIGNED 01-24-11 TIME SIGNED 2:45 A.M. P.M.
 SIGNED [Signature]

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

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR David Bell APPROVAL CUSTOMER DID NOT WISH TO RESPOND
 TOTAL 13,556.47
 TAX 7.87% 757.98
 TOTAL 13,556.47
 Thank You!



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

TICKET CONTINUATION

TICKET No. 19286

CUSTOMER *MURPHYVILLE*

WELL *L.S. WARAVA*

DATE *01-24-11*

PAGE 2 OF 2

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CONTINUATION TOTAL 5163.29

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SWIFT Services, Inc.

DATE 01/24/11 PAGE NO. 1

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	0850		7.5					
	0855	5.0	15	-			200	
		}	12	-			}	
			5	-				
	0910		43.5	-				
	0915	7.0	0	-			300	
		}	69.2	-			400	
			95	-			500	
			100	-			600	
			105	-			700	
			110.0	-			800	
	0930		4.5	112.2	-			1500
	0935							
	1015							



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling co.
250 N Water Ste #300
Wichita, KS
67202
ATTN: Tom Funk

vanava 1-5
5-13s-32
Job Ticket: 040506 **DST#: 1**
Test Start: 2011.01.17 @ 18:20:00

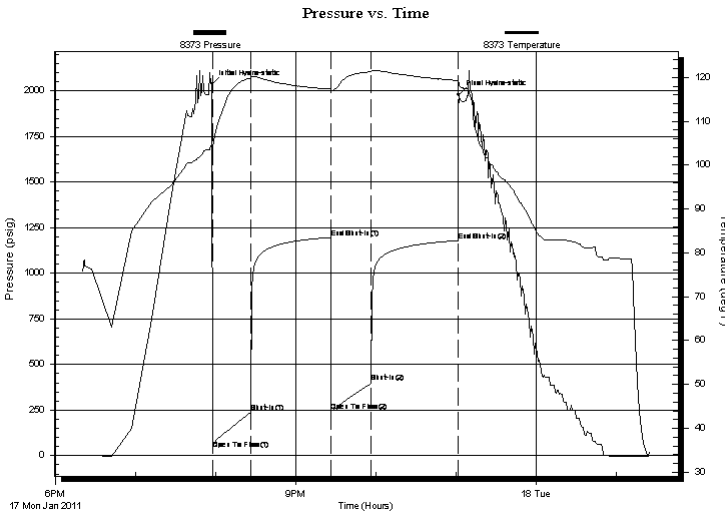
GENERAL INFORMATION:

Formation: **"E-F"**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole
Time Tool Opened: 19:57:15 Tester: Kevin Mack
Time Test Ended: 01:25:45 Unit No: 35
Interval: 4100.00 ft (KB) To 4137.00 ft (KB) (TVD) Reference Elevations: 3043.00 ft (KB)
Total Depth: 4137.00 ft (KB) (TVD) 3039.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 4.00 ft

Serial #: 8373 Inside
Press @ Run Depth: 401.93 psig @ 4101.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.01.17 End Date: 2011.01.18 Last Calib.: 2011.01.18
Start Time: 18:20:05 End Time: 01:25:44 Time On Btm: 2011.01.17 @ 19:57:00
Time Off Btm: 2011.01.17 @ 23:02:15

TEST COMMENT: IF: BoB in 9 min
IS: No Return
FF: BoB in 10 min
FS: No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2037.10	104.61	Initial Hydro-static
1	34.98	103.85	Open To Flow (1)
29	237.69	119.91	Shut-In(1)
90	1192.26	117.38	End Shut-In(1)
90	243.00	116.95	Open To Flow (2)
120	401.93	121.34	Shut-In(2)
185	1176.86	119.35	End Shut-In(2)
186	1980.27	118.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100M	0.15
487.00	Water 5M 95W	6.01
183.00	MW 50M 50W	2.57
92.00	OSWM 60M 40W	1.29

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling co.

vanava 1-5

250 N Water Ste #300

5-13s-32

Wichita, KS

Job Ticket: 040506

DST#: 1

67202

ATTN: Tom Funk

Test Start: 2011.01.17 @ 18:20:00

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:

58000 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
30.00	Mud 100M	0.148
487.00	Water 5M 95W	6.011
183.00	MW 50M 50W	2.567
92.00	OSWM 60M 40W	1.291

Total Length: 792.00 ft Total Volume: 10.017 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

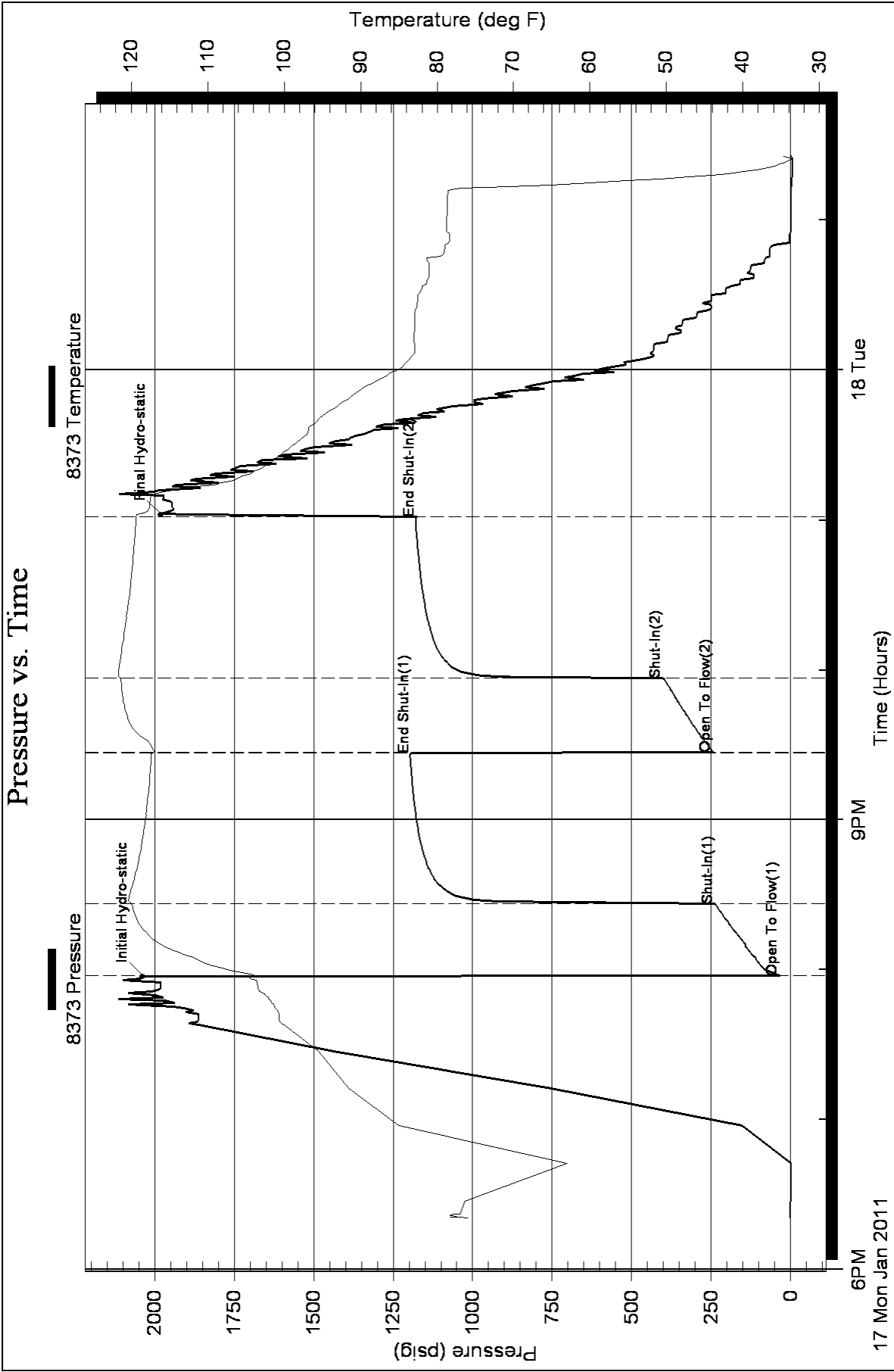
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .21 @55 deg.=58000

Pressure vs. Time





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling co.
250 N Water Ste #300
Wichita, KS
67202
ATTN: Tom Funk

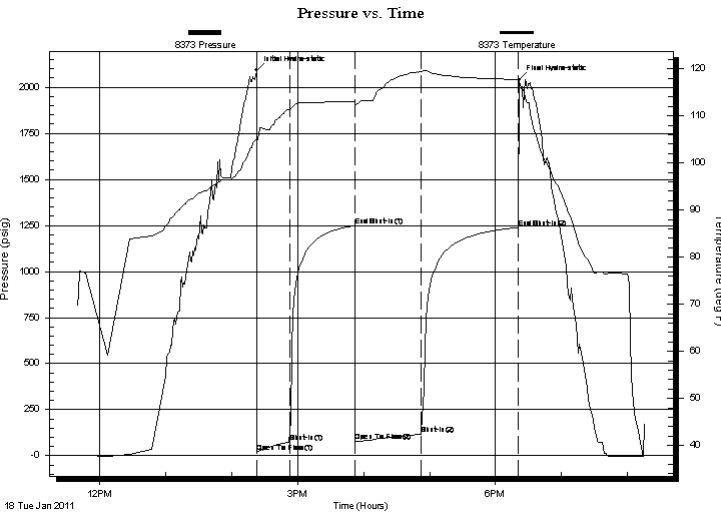
vanava 1-5
5-13s-32
Job Ticket: 040507 **DST#: 2**
Test Start: 2011.01.18 @ 11:40:00

GENERAL INFORMATION:

Formation: "H"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:23:15
Time Test Ended: 20:15:45
Interval: **4176.00 ft (KB) To 4206.00 ft (KB) (TVD)**
Total Depth: 4206.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Kevin Mack
Unit No: 35
Reference Elevations: 3043.00 ft (KB)
3039.00 ft (CF)
KB to GR/CF: 4.00 ft

Serial #: 8373 Inside
Press @ Run Depth: 117.62 psig @ 4177.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.01.18 End Date: 2011.01.18 Last Calib.: 2011.01.18
Start Time: 11:40:05 End Time: 20:15:45 Time On Btm: 2011.01.18 @ 14:22:45
Time Off Btm: 2011.01.18 @ 18:21:45

TEST COMMENT: IF: Build to 6 1/2"
IS: Surface return started at 17 min Died at 55 min
FF: Build to 10"
FS: Surface return started at 10 min died at 30 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2091.11	105.04	Initial Hydro-static
1	17.71	104.43	Open To Flow (1)
30	74.04	111.31	Shut-In(1)
90	1248.72	112.92	End Shut-In(1)
90	78.07	112.14	Open To Flow (2)
150	117.62	119.43	Shut-In(2)
238	1238.40	117.70	End Shut-In(2)
239	2039.21	116.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	WM 90M 10W	0.15
30.00	MW 90W 10M	0.15
60.00	OSMW 70W 30M	0.30
20.00	OSWM 80M 20W	0.28
10.00	Oil 100o	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling co.

vanava 1-5

250 N Water Ste #300

5-13s-32

Wichita, KS

Job Ticket: 040507

DST#: 2

67202

ATTN: Tom Funk

Test Start: 2011.01.18 @ 11:40:00

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:

45000 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	WM 90M 10W	0.148
30.00	MW 90W 10M	0.148
60.00	OSMW 70W 30M	0.295
20.00	OSWM 80M 20W	0.281
10.00	Oil 100o	0.140

Total Length: 150.00 ft Total Volume: 1.012 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

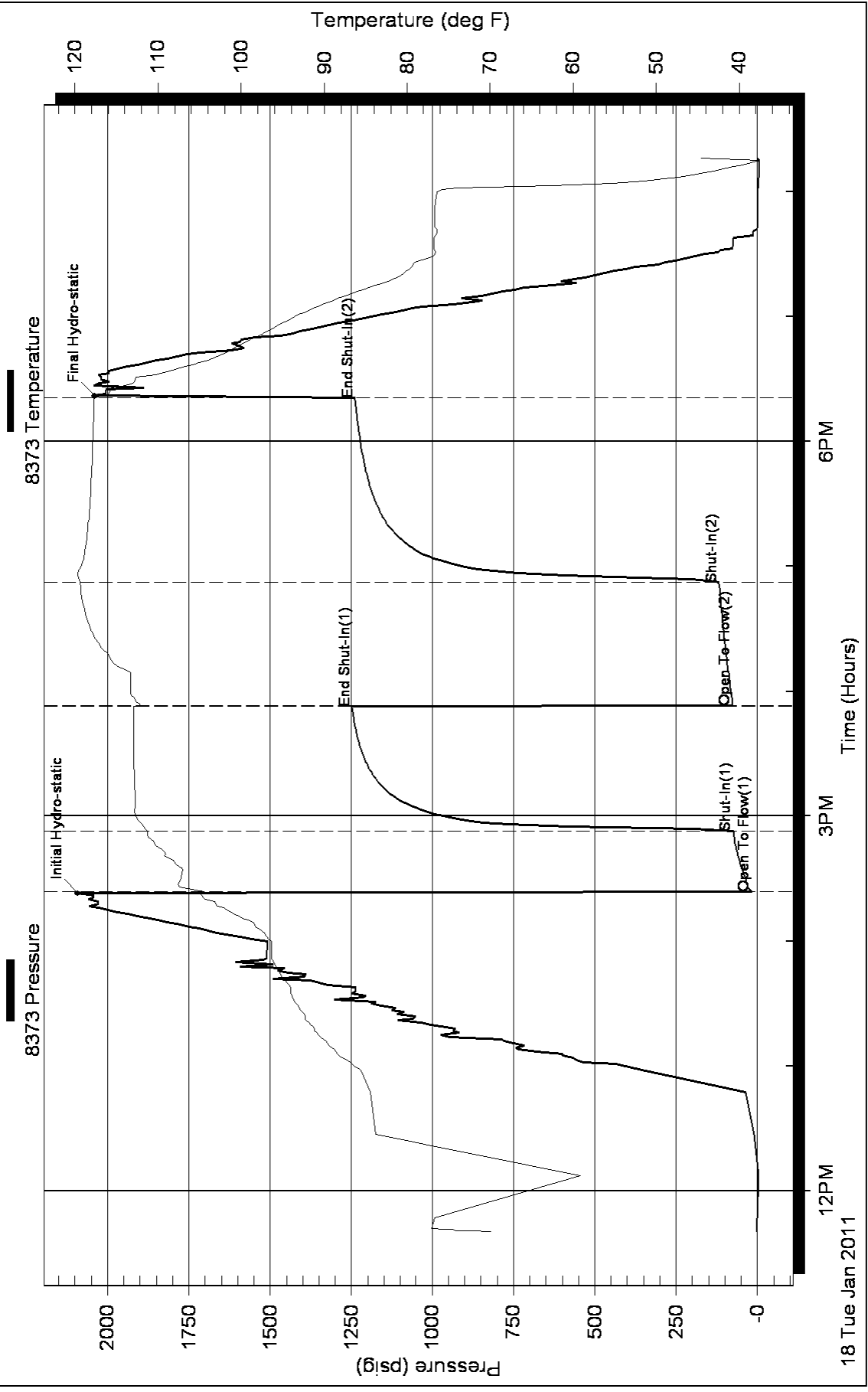
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .26@55 degrees=45000

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling co.
250 N Water Ste #300
Wichita, KS
67202
ATTN: Tom Funk

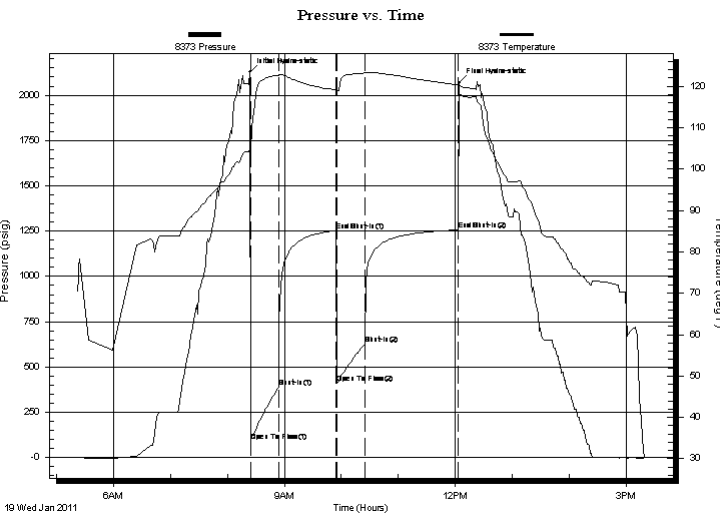
vanava 1-5
5-13s-32
Job Ticket: 040508 **DST#: 3**
Test Start: 2011.01.19 @ 05:22:00

GENERAL INFORMATION:

Formation: **"I-J"**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole
Time Tool Opened: 08:24:00 Tester: Kevin Mack
Time Test Ended: 15:20:30 Unit No: 35
Interval: 4206.00 ft (KB) To 4258.00 ft (KB) (TVD) Reference Elevations: 3043.00 ft (KB)
Total Depth: 4258.00 ft (KB) (TVD) 3039.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 4.00 ft

Serial #: 8373 Inside
Press @ Run Depth: 625.50 psig @ 4207.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.01.19 End Date: 2011.01.19 Last Calib.: 2011.01.19
Start Time: 05:22:05 End Time: 15:20:30 Time On Btm: 2011.01.19 @ 08:23:45
Time Off Btm: 2011.01.19 @ 12:04:15

TEST COMMENT: IF: BoB in 3 min
IS: Return started at 10 min build to 3/4"
FF: BoB in 4 min
FS: No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2125.81	104.84	Initial Hydro-static
1	88.19	104.27	Open To Flow (1)
31	390.61	122.71	Shut-In(1)
91	1253.09	119.09	End Shut-In(1)
92	412.37	118.67	Open To Flow (2)
121	625.50	123.21	Shut-In(2)
220	1255.22	120.39	End Shut-In(2)
221	2067.83	118.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud 100M	0.30
216.00	Water 2M 98W	2.48
434.00	Water 5M 95W	6.09
310.00	MW 80M 20W	4.35
310.00	MW 50M 50W	4.35

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling co.

vanava 1-5

250 N Water Ste #300
Wichita, KS
67202
ATTN: Tom Funk

5-13s-32

Job Ticket: 040508

DST#: 3

Test Start: 2011.01.19 @ 05:22:00

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:

20000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Mud 100M	0.295
216.00	Water 2M 98W	2.483
434.00	Water 5M 95W	6.088
310.00	MW 80M 20W	4.348
310.00	MW 50M 50W	4.348

Total Length: 1330.00 ft Total Volume: 17.562 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

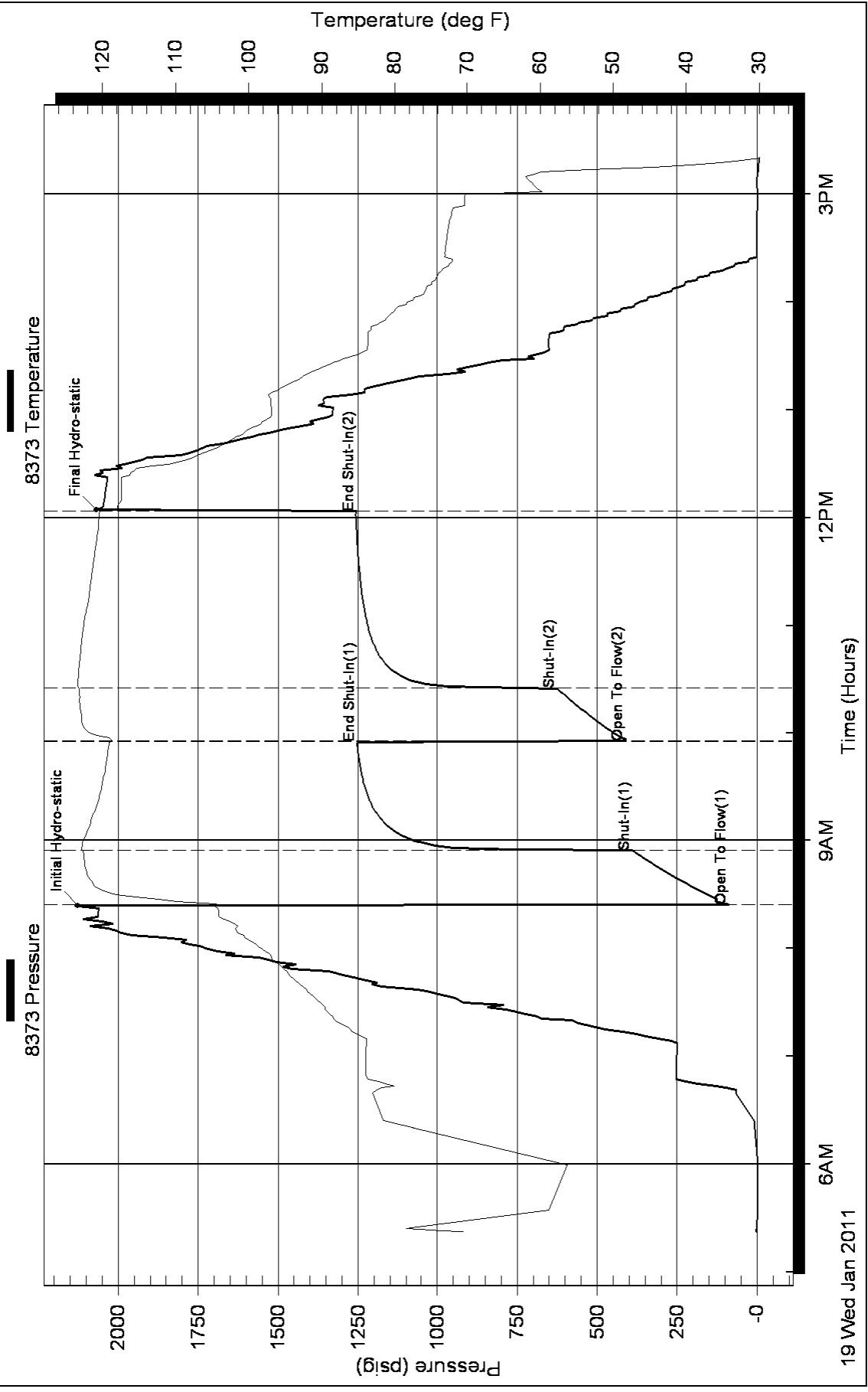
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .5 @ 47 deg = 20000

Pressure vs. Time





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling co.
 250 N Water Ste #300
 Wichita, KS
 67202
 ATTN: Tom Funk

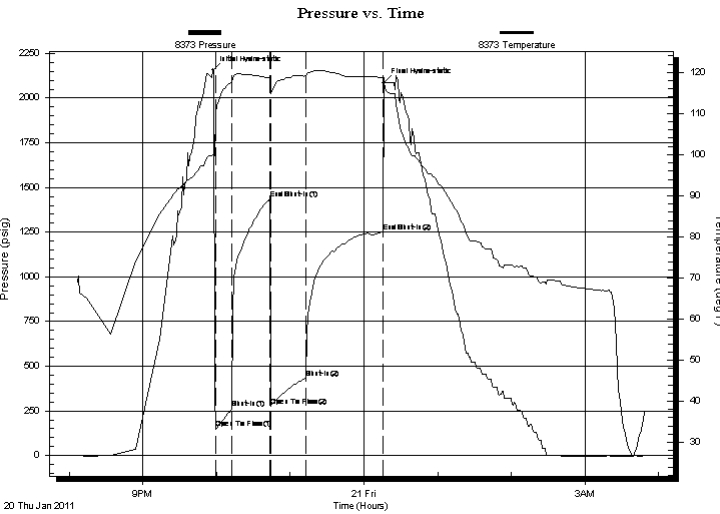
vanava 1-5
5-13s-32
 Job Ticket: 040509 **DST#: 4**
 Test Start: 2011.01.20 @ 20:07:00

GENERAL INFORMATION:

Formation: **Marmaton Altamont B**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole
 Time Tool Opened: 21:59:25 Tester: Brandon Turley
 Time Test Ended: 03:48:24 Unit No: 35
Interval: 4323.00 ft (KB) To 4440.00 ft (KB) (TVD) Reference Elevations: 3043.00 ft (KB)
 Total Depth: 4440.00 ft (KB) (TVD) 3039.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 4.00 ft

Serial #: 8373 Inside
 Press @ Run Depth: 435.18 psig @ 4324.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.01.20 End Date: 2011.01.21 Last Calib.: 2011.01.21
 Start Time: 20:07:00 End Time: 03:48:24 Time On Btm: 2011.01.20 @ 21:57:10
 Time Off Btm: 2011.01.21 @ 00:15:55

TEST COMMENT: IF: BOB in 1 min.
 IS: BOB in 13 min.
 FF: BOB in 2 min.
 FS: BOB in 15 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2154.77	99.93	Initial Hydro-static
3	152.93	109.90	Open To Flow (1)
16	262.84	117.83	Shut-In(1)
47	1435.43	118.82	End Shut-In(1)
47	278.83	116.66	Open To Flow (2)
76	435.18	119.17	Shut-In(2)
139	1251.50	118.73	End Shut-In(2)
139	2084.72	118.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcgo 10%g 50%o 40%m	0.65
186.00	mcgo 20%g 70%o 10%m	2.61
310.00	mcgo 20%g 50%o 30%m	4.35
372.00	mcgo 40%g 40%o 20%m	5.22
92.00	gocm 10%g 30%o 60%m	1.29
0.00	1892 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling co.

vanava 1-5

250 N Water Ste #300

5-13s-32

Wichita, KS

Job Ticket: 040509

DST#: 4

67202

ATTN: Tom Funk

Test Start: 2011.01.20 @ 20:07:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	mcgo 10%g 50%o 40%m	0.646
186.00	mcgo 20%g 70%o 10%m	2.609
310.00	mcgo 20%g 50%o 30%m	4.348
372.00	mcgo 40%g 40%o 20%m	5.218
92.00	gocm 10%g 30%o 60%m	1.291
0.00	1892 GIP	0.000

Total Length: 1084.00 ft Total Volume: 14.112 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

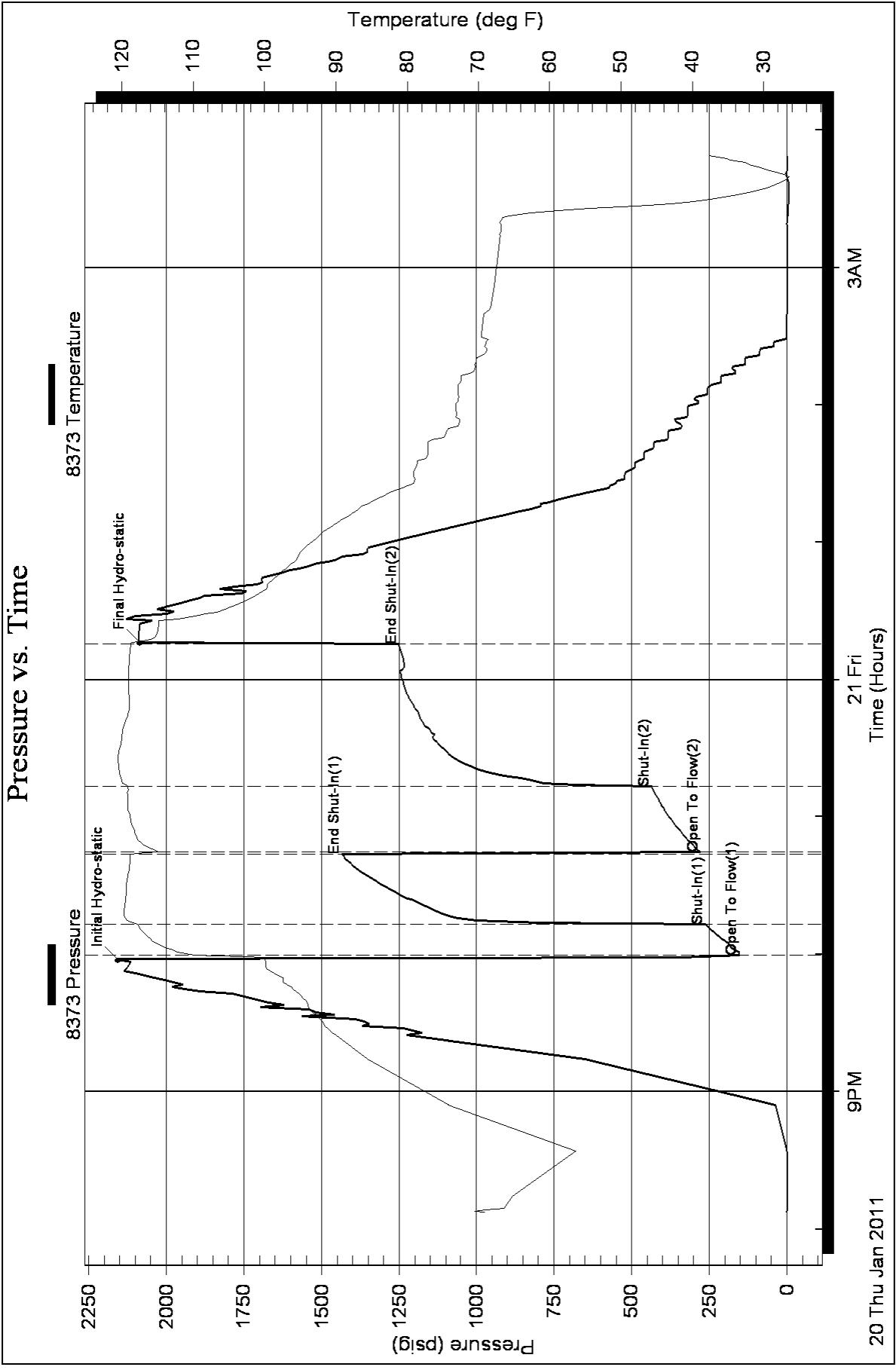
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 28@30=31

Pressure vs. Time





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling co.
 250 N Water Ste #300
 Wichita, KS
 67202
 ATTN: Tom Funk

vanava 1-5
5-13s-32
 Job Ticket: 040510 **DST#: 5**
 Test Start: 2011.01.21 @ 18:28:38

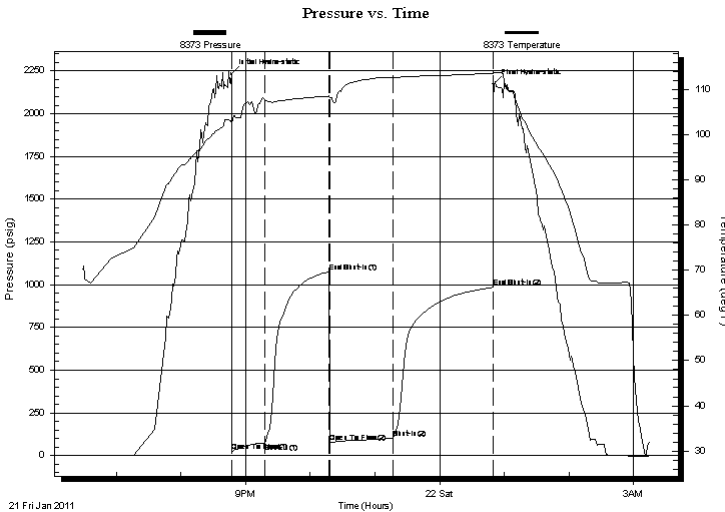
GENERAL INFORMATION:

Formation: **Pawnee Ft. Scott Myr**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole
 Time Tool Opened: 20:47:18 Tester: Brandon Turley
 Time Test Ended: 03:15:48 Unit No: 35
 Interval: **4450.00 ft (KB) To 4542.00 ft (KB) (TVD)** Reference Elevations: 3043.00 ft (KB)
 Total Depth: 4542.00 ft (KB) (TVD) 3039.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 4.00 ft

Serial #: 8373 Inside
 Press @ Run Depth: 100.22 psig @ 4451.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.01.21 End Date: 2011.01.22 Last Calib.: 2011.01.22
 Start Time: 18:28:38 End Time: 03:15:48 Time On Btm: 2011.01.21 @ 20:47:03
 Time Off Btm: 2011.01.22 @ 00:50:17

TEST COMMENT: IF: 1/4 blow built to 6 in 30 min.
 IS: No return.
 FF: Surface blow built to 8 1/2 in 60 min.
 FS: Surface blow never built.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2234.08	103.29	Initial Hydro-static
1	23.37	102.55	Open To Flow (1)
31	73.99	107.73	Shut-In(1)
91	1074.98	108.49	End Shut-In(1)
91	77.89	108.15	Open To Flow (2)
150	100.22	112.66	Shut-In(2)
243	983.78	113.56	End Shut-In(2)
244	2173.99	113.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	gocm 20%g 20%o 70%m	0.65
67.00	ocm 30%o 70%m	0.94
0.00	124GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling co.

vanava 1-5

250 N Water Ste #300

5-13s-32

Wichita, KS

Job Ticket: 040510

DST#: 5

67202

ATTN: Tom Funk

Test Start: 2011.01.21 @ 18:28:38

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	gocm 20%g 20%o 70%m	0.646
67.00	ocm 30%o 70%m	0.940
0.00	124GIP	0.000

Total Length: 191.00 ft Total Volume: 1.586 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

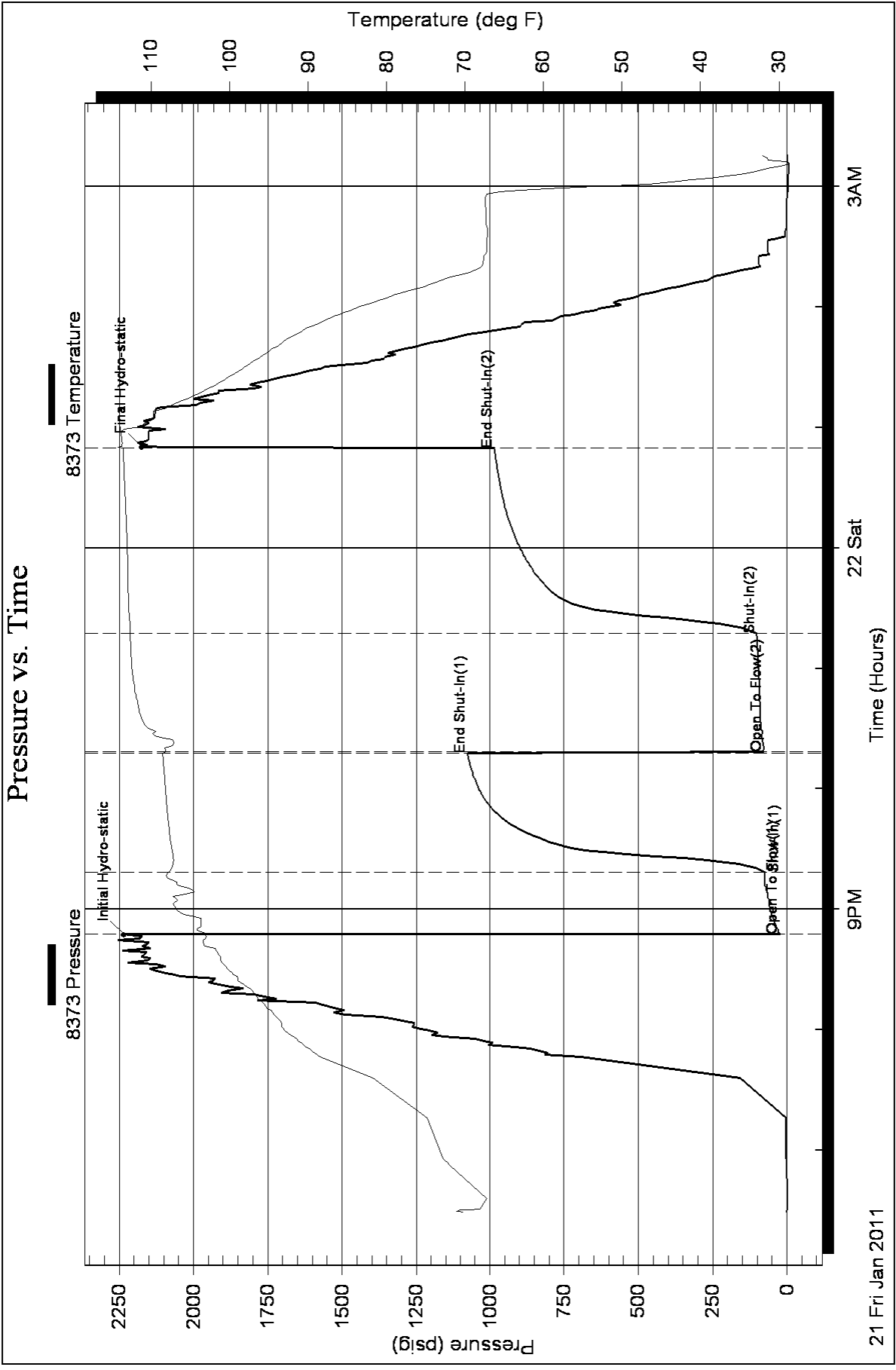
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling co.

vanava 1-5

250 N Water Ste #300
Wichita, KS
67202
ATTN: Tom Funk

5-13s-32

Job Ticket: 040511

DST#: 6

Test Start: 2011.01.22 @ 16:28:11

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:55:21

Time Test Ended: 01:37:36

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: 4594.00 ft (KB) To 4625.00 ft (KB) (TVD)

Reference Elevations: 3043.00 ft (KB)

Total Depth: 4625.00 ft (KB) (TVD)

3039.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 4.00 ft

Serial #: 8373 Inside

Press @ Run Depth: 497.55 psig @ 4595.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.01.22

End Date:

2011.01.23

Last Calib.:

2011.01.23

Start Time: 16:28:11

End Time:

01:37:36

Time On Btm:

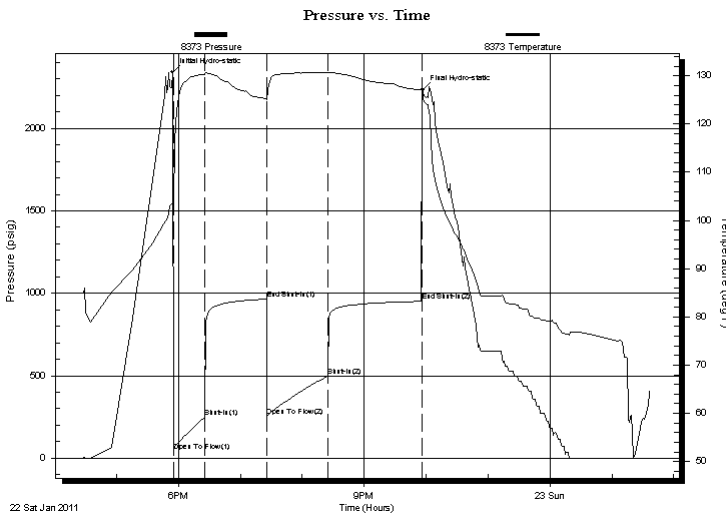
2011.01.22 @ 17:54:21

Time Off Btm:

2011.01.22 @ 21:57:05

TEST COMMENT: IF: 1/4 blow BOB in 4 min.
IS: Surface blow BOB in 25 min.
FF: BOB in 6 min.
FS: Surface blow BOB in 21 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2339.88	103.47	Initial Hydro-static
1	42.65	102.64	Open To Flow (1)
32	248.81	130.35	Shut-In(1)
91	965.07	125.27	End Shut-In(1)
92	256.63	125.11	Open To Flow (2)
151	497.55	130.59	Shut-In(2)
242	950.80	127.09	End Shut-In(2)
243	2233.71	126.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	ocm 10%o 90% m	3.26
496.00	gocw 10%g 5%o 65%w 20% m	6.96
124.00	gocm 40%g 10%o 50% m	1.74
186.00	go 40%g 60%o	2.61
0.00	930 GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling co.

vanava 1-5

250 N Water Ste #300

5-13s-32

Wichita, KS

Job Ticket: 040511

DST#: 6

67202

ATTN: Tom Funk

Test Start: 2011.01.22 @ 16:28:11

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

55000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
310.00	ocm 10%o 90%m	3.255
496.00	gocw 10%g 5%o 65%w 20%m	6.958
124.00	gocm 40%g 10%o 50%m	1.739
186.00	go 40%g 60%o	2.609
0.00	930 GIP	0.000

Total Length: 1116.00 ft Total Volume: 14.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

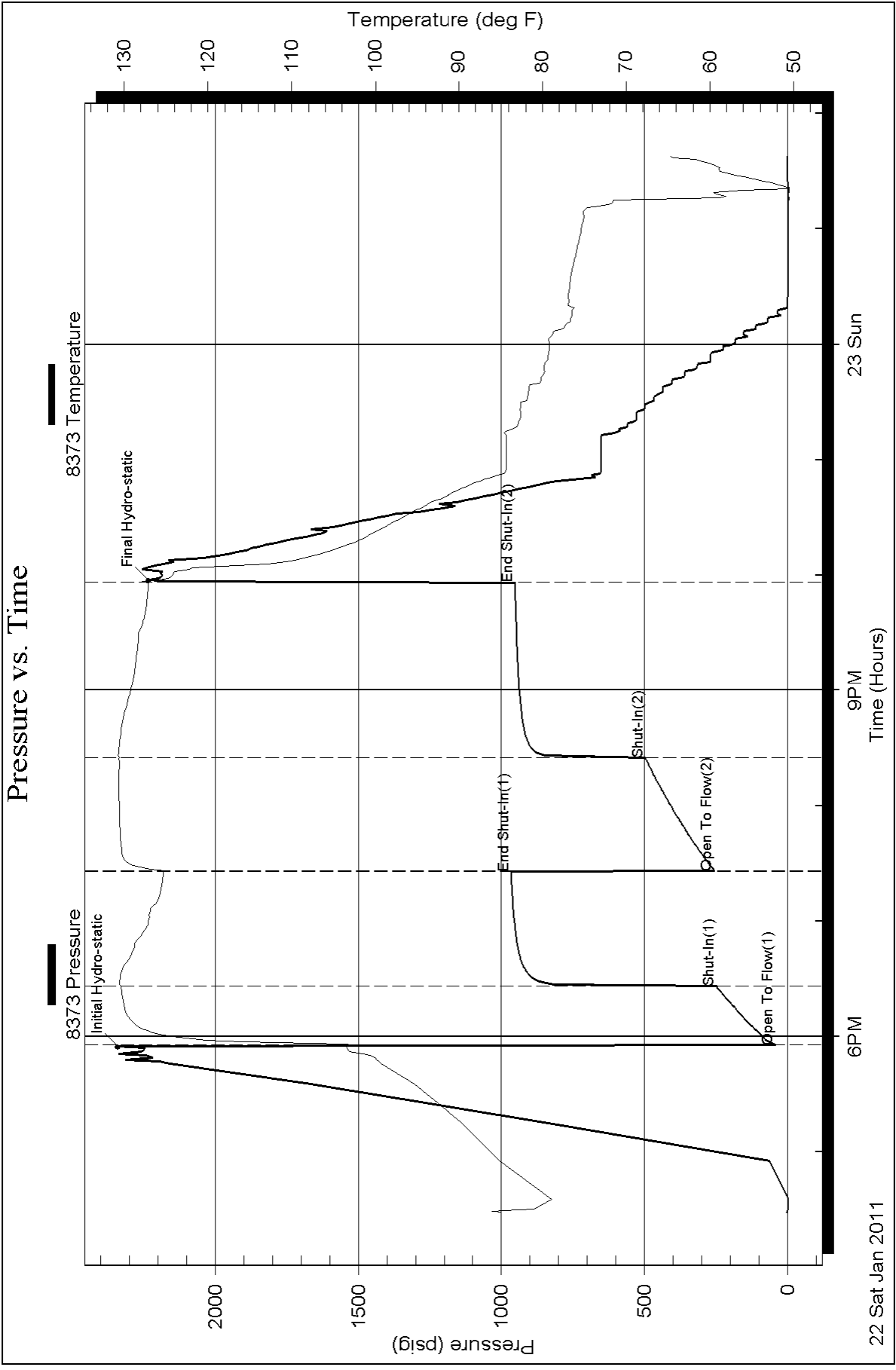
Laboratory Name:

Laboratory Location:

Recovery Comments: 28@30=31

.15@66=55000

Pressure vs. Time



Thomas J. Funk
Petroleum Geologist
 Eudora, Kansas

Geologist's Report
Drilling Time and Sample Log

OPERATOR Murfin Drilling Co., Inc
LEASE Vanava
WELL NO #1-5
ELEVATION KB 3044

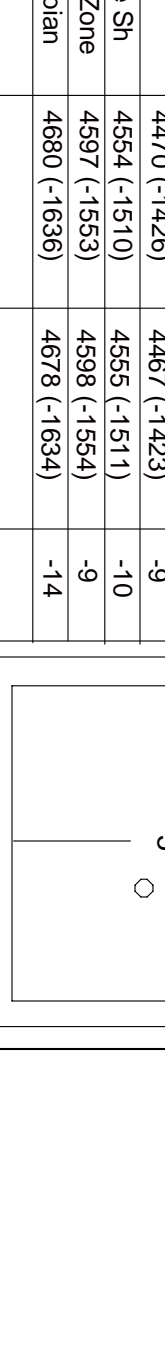
FIELD Wildcat
LOCATION 2310' FSL & 1800' FEL
SEC. 5 TWP. 13S RGE. 32W
COUNTY Logan STATE Kansas

CONTRACTOR Murfin Drilling Co. Rig #24
COMP 1/24/2011
RTD 4741 LOG TD 4741
SAMPLES SAVED FROM 3700 TO TD
DRILLING TIME KEPT FROM 3700 TO TD
SAMPLES EXAMINED FROM 3700 TO TD

GEOLOGICAL SUPERVISION FROM 3700 TO TD
MUD JP 3500 TYPE MUD Chemical

FORMATION	LOG TOP DATUM	SAMPLE TOP DATUM	STRUCT COMP
Anhydrite	2527 (+517)	2526 (+518)	+4
B/Anhydrite	2549 (+495)	2550 (+494)	+7
Topeka	3769 (-725)	3765 (-721)	-2
Heebner Sh	3995 (-951)	3993 (-949)	-5
Lansing	4038 (-994)	4037 (-993)	-7
Muncie Creek	4180 (-1136)	4178 (-1134)	-2
Stark Sh	4265 (-1221)	4264 (-1220)	-5
Marmaton	4368 (-1324)	4367 (-1323)	-5
Pawnee	4470 (-1426)	4467 (-1423)	-9
Carondek Sh	4554 (-1510)	4553 (-1511)	-10
Johnson Zone	4597 (-1553)	4597 (-1554)	-9
Mississippian	4680 (-1636)	4678 (-1634)	-14

ELECTRICAL SURVEYS
 Log Tech
 DIL
 MEL
 CNL/OCL BHCS



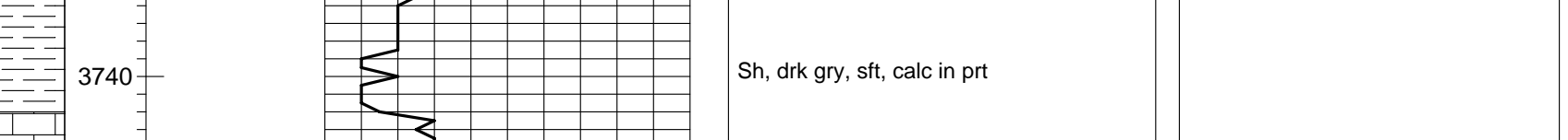
REFERENCE WELL FOR STRUCTURAL COMPARISON: Murfin Drilling Co. #1-4 J&J Kuhlman
 1800' FNL & 1950' FEL sec. 4-13S-32W, Logan Co. KS

Daily Progress	NOI	Size	Make	Type	Depth Out	Feet	Hours
1/13/11	Spud	1 1/2 1/4"	Smith	RR	222	222	3
1/14/11							
1/15/11	2540'	2 7/8"	Smith	M616	3700	3478	49
1/16/11	3765'	3 7/8"	Smith	F271	4740	1040	63
1/17/11	4035'						
1/18/11	4259'						
1/20/11	4410'						
1/21/11	4450'						
1/22/11	4550'						
1/23/11	4680'						

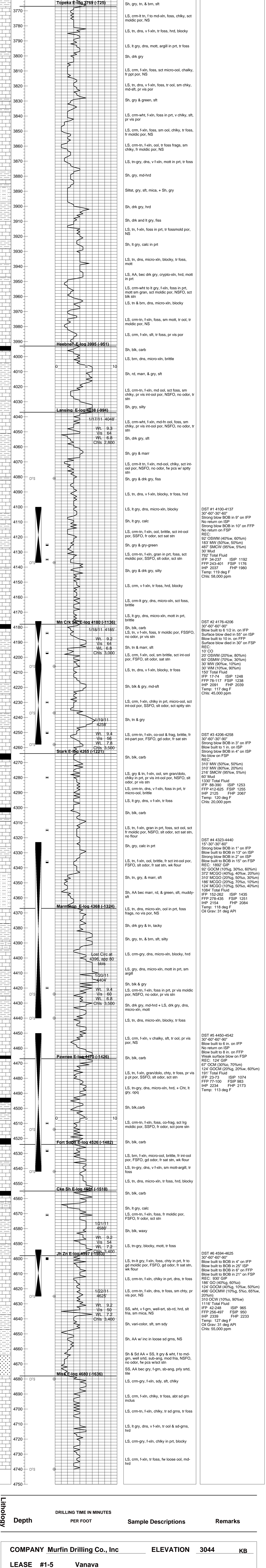
Remarks and Recommendations:
 Based upon log analysis, DST recovery, and sample examination, it was recommended that casing be set to further test the #1-5 Vanava.

Date	Depth	NOI	Size	Make	Type	Depth Out	Feet	Hours
1/16/11	3700'							
1/17/11	4048'							
1/18/11	4185'							
1/19/11	4258'							
1/20/11	4404'							
1/22/11	4625'							

LEGEND



Lithology



Lithology

Depth	DRILLING TIME IN MINUTES PER FOOT	Sample Descriptions	Remarks
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COMPANY Murfin Drilling Co., Inc **ELEVATION** 3044 **KB**

LEASE #1-5 Vanava

LOCATION 2310' FSL & 1800' FEL **Sec 5** **TWP 13S RGE 32W**

COUNTY Logan **STATE** Kansas

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



phone: 316-337-6200
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<http://kcc.ks.gov/>

Thomas E. Wright, Chairman
Ward Loyd, Commissioner

Corporation Commission

Sam Brownback, Governor

May 05, 2011

Leon Rodak
Murfin Drilling Co., Inc.
250 N WATER STE 300
WICHITA, KS 67202-1216

Re: ACO1
API 15-109-20973-00-00
Vanava 1-5
SE/4 Sec.05-13S-32W
Logan County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Leon Rodak