



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: _____



1079169

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
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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				

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Mikol Oil LLC
Well Name	Russell 1-23
Doc ID	1079169

All Electric Logs Run

Dual Induction
Micro Resistivity
Compensated Density Neutron
Cement Bond
Radiation Gaurd

Form	ACO1 - Well Completion
Operator	Mikol Oil LLC
Well Name	Russell 1-23
Doc ID	1079169

Tops

Name	Top	Datum
Anhydrite	1330	753
B / Anhydrite	1364	719
Topeka	3040	-957
Heebner	3263	-1180
Lansing	3305	-1222
B / Kansas City	3552	-1469
Chert Conglomerate	3614	-1531
Arbuckle	3707	-1624



PO BOX 31 Russell, KS 67665

INVOICE

Invoice Number: 129670

Invoice Date: Dec 16, 2011

Page: 2

Voice: (817) 546-7282

Fax: (817) 246-3361

Bill To:

Mikol Oil LLC
1407 Washington Circle
Hays, KS 67601

Federal Tax I.D.#: 20-5975804

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Mikol	Russell #1-23	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-02	Russell	Dec 16, 2011	1/15/12

Quantity	Item	Description	Unit Price	Amount
1.00	OPER ASSIST	Tony Pfannenstiel		
1.00	OPER ASSIST	Cody Hoss		

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

\$ **5088.50**

ONLY IF PAID ON OR BEFORE
Jan 10, 2012

Subtotal	21,442.90
Sales Tax	971.02
Total Invoice Amount	22,413.92
Payment/Credit Applied	
TOTAL	22,413.92



PO BOX 31 Russell, KS 67665

INVOICE

Invoice Number: 129670

Invoice Date: Dec 16, 2011

Page: 1

Voice: (817) 546-7282

Fax: (817) 246-3361

Bill To:
Mikol Oil LLC 1407 Washington Circle Hays, KS 67601

Federal Tax I.D.#: 20-5975804

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Mikol	Russell #1-23	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-02	Russell	Dec 16, 2011	1/15/12

Quantity	Item	Description	Unit Price	Amount
200.00	MAT	Class A Common	16.25	3,250.00
102.00	MAT	Pozmix	8.50	867.00
18.00	MAT	Gel	21.25	382.50
64.00	MAT	FloSeal	2.70	172.80
11.00	MAT	Salt	23.95	263.45
1,000.00	MAT	Gilsonite	0.89	890.00
153.00	MAT	Class A Common	16.25	2,486.25
500.00	MAT	Mud Flush	1.27	635.00
506.00	SER	Handling	2.25	1,138.50
40.00	SER	Mileage	55.66	2,226.40
1.00	SER	Production	2,225.00	2,225.00
40.00	SER	Heavy Vehicle Mileage	7.00	280.00
40.00	SER	Light Vehicle Mileage	4.00	160.00
1.00	EQP	5 1/2 DV Tool	3,721.00	3,721.00
1.00	EQP	5 1/2 Latch Down Plug	194.00	194.00
1.00	EQP	5 1/2 Float Shoe	245.00	245.00
7.00	EQP	5 1/2 Centralizers	34.00	238.00
2.00	EQP	5 1/2 Baskets	236.00	472.00
21.00	EQP	5 1/2 Reciprocating Scratchers	76.00	1,596.00
1.00	CEMENTER	Glenn Ginther		
1.00	OPER ASSIST	Woody O'Neil		

Subtotal	Continued
Sales Tax	Continued
Total Invoice Amount	Continued
Payment/Credit Applied	
TOTAL	Continued

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

\$

ONLY IF PAID ON OR BEFORE
Jan 10, 2012

ALLIED CEMENTING CO., LLC. 038218

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Russell Ks.

DATE <u>12-16-2011</u>	SEC. <u>23</u>	TWP. <u>10</u>	RANGE <u>17</u>	CALLED OUT	ON LOCATION	JOB START <u>3:00 AM</u>	JOB FINISH <u>5:30</u>
LEASE <u>Russell</u>	WELL # <u>1-23</u>	LOCATION <u>Codell Ks. 4 s 1/4 W</u>				COUNTY <u>Rock</u>	STATE <u>KANSAS</u>
OLD OR (NEW) (Circle one)		<u>1/2 N-W FNTD</u>					

CONTRACTOR MUAFIN DALG. Rig #16
 TYPE OF JOB PRODUCTION STRING (D-V) 2 Stage
 HOLE SIZE 7 7/8 T.D. 3770 RTO
 CASING SIZE 5 1/2 New DEPTH 3765'
 TUBING SIZE 15.5 #CSG DEPTH
 DRILL PIPE AFU INSERT DEPTH 3743'
 TOOL DV TOOL @ DEPTH 1351'
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 21.80
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT 89 BBL / 32.15 BBL
 15.8" 6.8" SX
 13.1" EQUIPMENT

OWNER

CEMENT	AMOUNT ORDERED	<u>200sx Com 10% Salt</u>
		<u>5# Gilsonite per SX</u>
		<u>255 SX 60 88 GAL 1/4# FLO-SEAL per SX</u>
		<u>500 GAL WFR-2 med-F145H</u>
COMMON	<u>200</u>	@ <u>16.25</u> <u>3250.00</u>
POZMIX	<u>102</u>	@ <u>8.50</u> <u>867.00</u>
GEL	<u>18</u>	@ <u>21.25</u> <u>382.50</u>
CHLORIDE		@
ASC		@
	<u>flusial 64</u>	@ <u>2.70</u> <u>172.80</u>
	<u>Salt 11 SX</u>	@ <u>23.95</u> <u>263.45</u>
	<u>Gilsonite 1000 #</u>	@ <u>.89</u> <u>890.00</u>
	<u>Common 153</u>	@ <u>16.25</u> <u>2486.25</u>
	<u>FL-10 45 1000</u>	@ <u>4.60</u> <u>1045.80</u>
	<u>Mud Flush 500</u>	@ <u>1.27</u> <u>635.00</u>
		@
		@ <u>1138.50</u>
HANDLING	<u>466.506</u>	@ <u>2.25</u> <u>1048.50</u>
MILEAGE	<u>466 x .11 x 40</u>	<u>2226.40</u> <u>2050.40</u>
TOTAL		<u>12311.90</u>

PUMP TRUCK CEMENTER GLENN
 # 417 HELPER WOODY
 BULK TRUCK
 # 481 DRIVER TONY
 BULK TRUCK
 # 410 DRIVER CODY

REMARKS:
 DV TOOL ON #58 (135')

RAN 90 JTS OF New 15.5 #CSG.
 Set @ 3765' Received CIRCULATIONS
 CIRCULATE 30 mix, MIX MUD FLUSH, CEMENT w/
 200SX Com 10% SALT, 2% GEL, Clear-line,
 Release LATCH Plug, & Displace 57 H2O 30 mud
 2 H2O/LAND @ 1800# DROPTART, OPEN DV
 @ 900# Circ 1 HR. MIXED 255 SX 60 88 gal
 1/4# Seal Release Plug + Displace 32.15 BBL
 H2O LAND @ 1800# TO CLOSE DV TOOL.
 30 SX @ PATTONE

CHARGE TO: Mikoh Oil LLC.

STREET _____
 CITY _____ STATE _____ ZIP _____

* Cement DID CIRCULATE
 TO SURFACE - Mike Stanton
 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.

PRINTED NAME Mike Stanton
 SIGNATURE Mike Stanton

SERVICE

DEPTH OF JOB		
PUMP TRUCK CHARGE		<u>8125.00</u>
EXTRA FOOTAGE	@	
MILEAGE	<u>HV 40</u>	@ <u>7.00</u> <u>280.00</u>
MANIFOLD	@	
	<u>LV 40</u>	@ <u>4.00</u> <u>160.00</u>
	@	
TOTAL		<u>2665.00</u>

Weatherford Equipment

PLUG & FLOAT EQUIPMENT		
W	<u>1-2 Stage Tool (D-V)</u>	<u>3721.00</u>
W	<u>1-LATCH Down Plug Assy</u>	@ <u>194.00</u> <u>194.00</u>
W	<u>1-FLOAT-Shoe</u>	@ <u>245.00</u> <u>245.00</u>
W	<u>7-CENTRALIZERS</u>	@ <u>34.00</u> <u>238.00</u>
W	<u>2-BASKETS</u>	@ <u>236.00</u> <u>472.00</u>
W	<u>21-Recip. SCRATCHERS</u>	@ <u>76.00</u> <u>1596.00</u>
TOTAL		<u>6466.00</u>

SALES TAX (If Any) _____
 TOTAL CHARGES 21667.40 21442.90
 DISCOUNT _____ IF PAID IN 30 DAYS



QUALITY OILWELL CEMENTING, INC.

PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone:785-324-1041 fax:785-483-1087
 Email: cementing@ruraltel.net

Date: 12/14/2011
 Invoice #
 P.O.#:
 Due Date: 1/13/2012
 Division: Russell

Invoice

12-20
 1390

Contact:
 MIKOL OIL
Address/Job Location:
 MIKOL OIL
 2401 ASH ST
 HAYS KS 67601

Reference:
 RUSSELL 1-23

Description of Work:
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
Common-Class A	150	\$ 1,986.86	Yes				
Bulk Truck Matl-Material Service Charge	158	\$ 343.09	No				
Pump Truck Mileage-Job to Nearest Camp	31	\$ 335.90	No				
Calcium Chloride	5	\$ 204.44	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	31	\$ 196.56	No				
Premium Gel (Bentonite)	3	\$ 53.03	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 4,111.25
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (616.69)

SubTotal for Taxable Items: \$ 1,907.67
 SubTotal for Non-Taxable Items: \$ 1,586.89

6.30% Rooks County Sales Tax

Total: \$ 3,494.56
 Tax: \$ 120.18
Amount Due: \$ 3,614.75
Applied Payments:
Balance Due: \$ 3,614.75

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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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. 135

Date	12-9-11	Sec.	23	Twp.	10	Range	17	County	Reels	State	Kansas	On Location		Finish	12:15AM
Lease	Russell	Well No.	1-23		Location		Cadwell 35 Winto								
Contractor	Martin Drilling							Owner							
Type Job	Surface							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.							
Hole Size	12 1/4		T.D.		220		Charge To								
Csg.	88 23/16		Depth		220		Mikal Oil								
Tbg. Size			Depth		Street										
Tool			Depth		City										
Cement Left in Csg.	10-15'		Shoe Joint		State										
Meas Line			Displace		13 Bbl		The above was done to satisfaction and supervision of owner agent or contractor.								
							Cement Amount Ordered								

EQUIPMENT

Pumptrk	5	No.	Cementer		Common	150
			Helper	Steve		
Bulktrk	10	No.	Driver	Brett	Poz. Mix	
			Driver			
Bulktrk		No.	Driver	Michael	Gel.	3
			Driver			

JOB SERVICES & REMARKS

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

Cement did Circulate

FLOAT EQUIPMENT

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down

Pumptrk Charge

Mileage 31

X Signature *[Signature]*

Tax
Discount
Total Charge



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mkol Oil LLC
 1407 Washington Ave Hays Ks 67601
 ATTN: Larry Denning

23-10s-17w-Rooks
Russell 1-23
 Job Ticket: 46238 **DST#: 1**
 Test Start: 2011.12.13 @ 09:13:44

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:09:44
 Time Test Ended: 16:06:44

Test Type: Conventional Bottom Hole (Initial)
 Tester: Jeff Brown
 Unit No: 44

Interval: 3294.00 ft (KB) To 3392.00 ft (KB) (TVD)
 Total Depth: 3392.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2086.00 ft (KB)
 2081.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8321

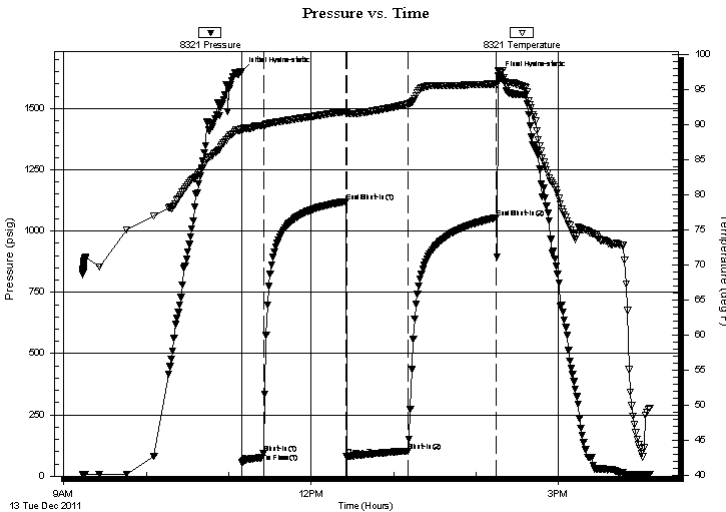
Inside

Press @ Run Depth: 102.32 psig @ 3364.00 ft (KB)
 Start Date: 2011.12.13 End Date: 2011.12.13
 Start Time: 09:13:45 End Time: 16:06:44

Capacity: 8000.00 psig
 Last Calib.: 2011.12.13
 Time On Btm: 2011.12.13 @ 11:09:14
 Time Off Btm: 2011.12.13 @ 14:16:14

TEST COMMENT: IFP-Fair blow built to 5 in
 ISI-Weak surface blow back built to 1/8 in
 FFP-Fair blow built to 7 1/2 in
 FSI-Weak surface blow back died out in 20 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1651.86	89.46	Initial Hydro-static
1	56.20	89.25	Open To Flow (1)
16	94.03	89.92	Shut-In(1)
76	1120.33	91.93	End Shut-In(1)
77	78.81	91.66	Open To Flow (2)
121	102.32	92.94	Shut-In(2)
186	1054.26	95.85	End Shut-In(2)
187	1632.31	97.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
106.00	VSOCM	1.21

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mkol Oil LLC
1407 Washington
Ave Hays Ks 67601
ATTN: Larry Denning

23-10s-17w-Rooks
Russell 1-23
Job Ticket: 46238 **DST#: 1**
Test Start: 2011.12.13 @ 09:13:44

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 8.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 79.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.60 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
106.00	VSOCM	1.214

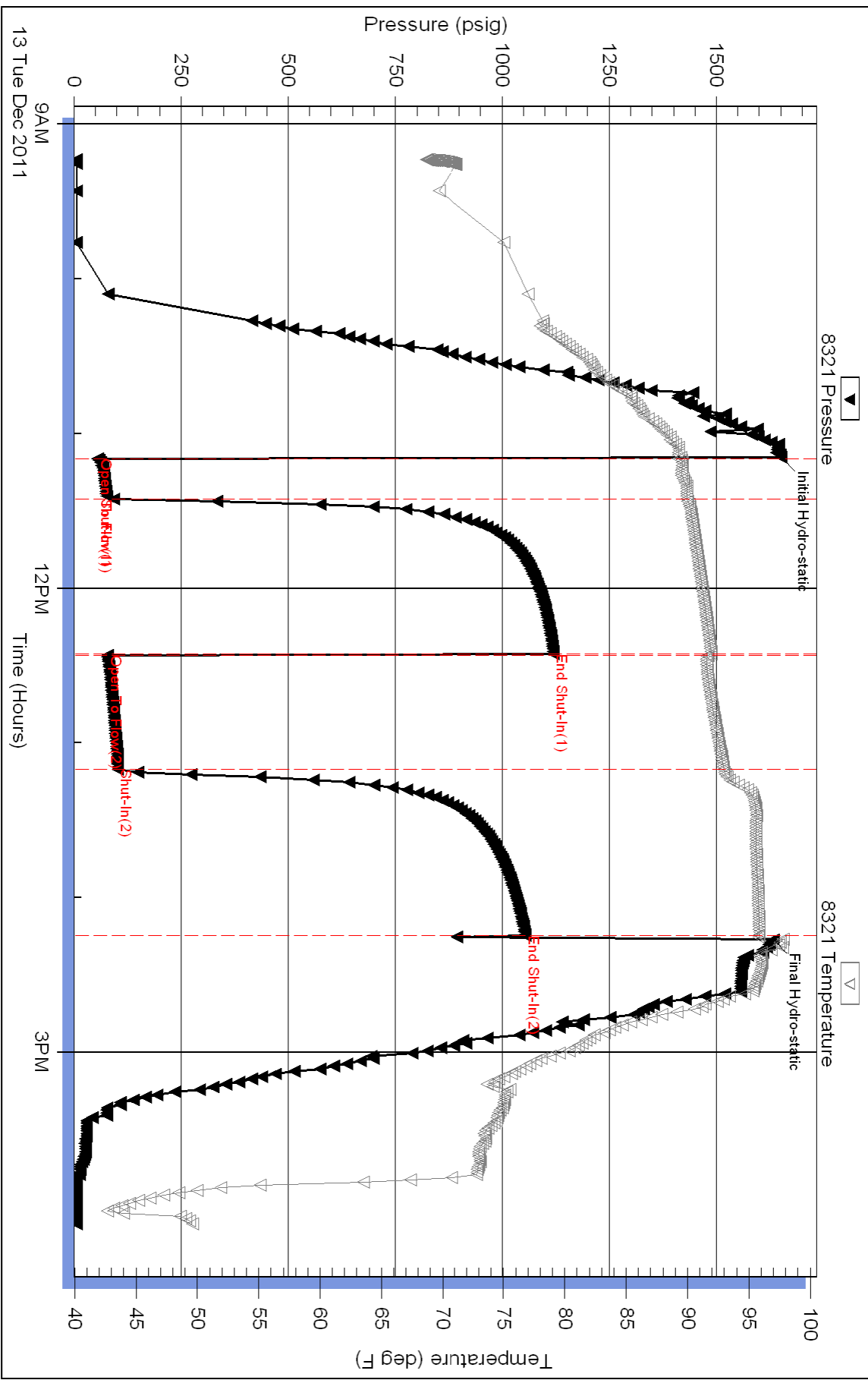
Total Length: 106.00 ft Total Volume: 1.214 bbl

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

Mkol Oil LLC
1407 Washington
Ave Hays Ks 67601
ATTN: Larry Denning

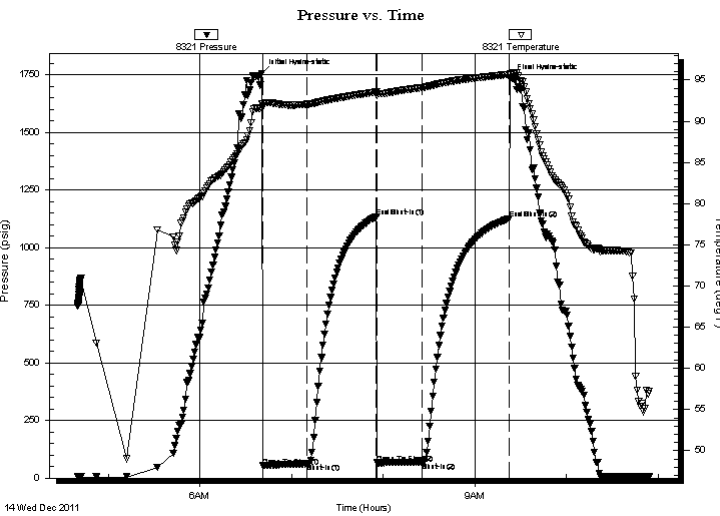
23-10s-17w-Rooks
Russell 1-23
Job Ticket: 46239 **DST#: 2**
Test Start: 2011.12.14 @ 04:39:59

GENERAL INFORMATION:

Formation: **Lansing- H**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:40:59
Time Test Ended: 10:54:59
Interval: **3461.00 ft (KB) To 3552.00 ft (KB) (TVD)**
Total Depth: 3552.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Jeff Brown
Unit No: 44
Reference Elevations: 2086.00 ft (KB)
2081.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8321 Inside
Press @ Run Depth: 70.04 psig @ 3531.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.12.14 End Date: 2011.12.14 Last Calib.: 2011.12.14
Start Time: 04:40:00 End Time: 10:54:59 Time On Btm: 2011.12.14 @ 06:40:29
Time Off Btm: 2011.12.14 @ 09:23:29

TEST COMMENT: IFP-Weak blow built to 2 in
ISI-Dead no blow back
FFP-Weak blow built to 1 in
FSI-Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1756.82	92.16	Initial Hydro-static
1	53.61	91.63	Open To Flow (1)
30	63.25	92.06	Shut-In(1)
75	1135.12	93.55	End Shut-In(1)
76	65.64	93.15	Open To Flow (2)
105	70.04	94.09	Shut-In(2)
162	1126.12	95.69	End Shut-In(2)
163	1735.15	95.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud w ith oil spots	0.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mkol Oil LLC
1407 Washington
Ave Hays Ks 67601
ATTN: Larry Denning

23-10s-17w-Rooks
Russell 1-23
Job Ticket: 46239 **DST#: 2**
Test Start: 2011.12.14 @ 04:39:59

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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: inches			

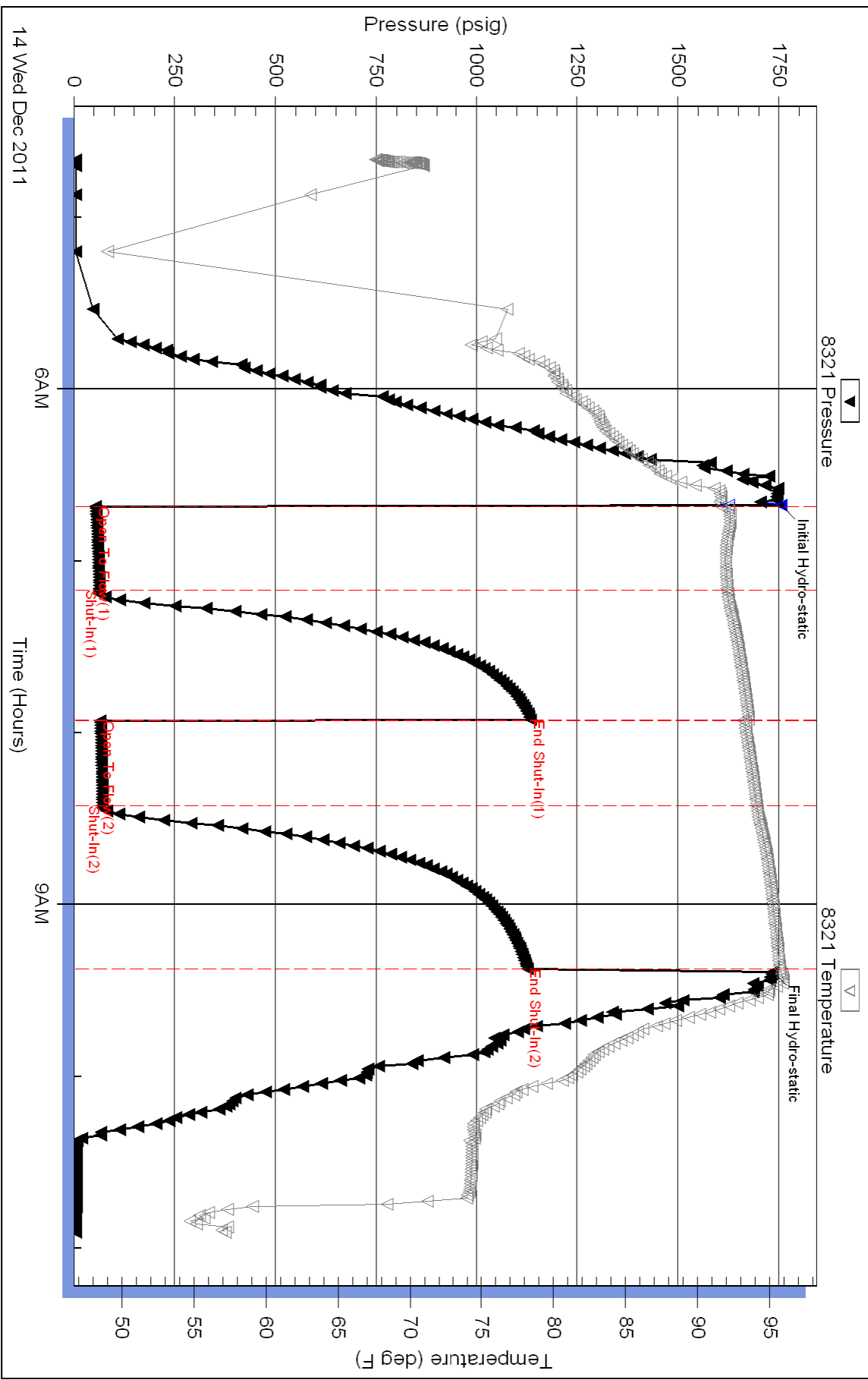
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud w ith oil spots	0.098

Total Length: 20.00 ft Total Volume: 0.098 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

Mkol Oil LLC
 1407 Washington Ave Hays Ks 67601
 ATTN: Larry Denning

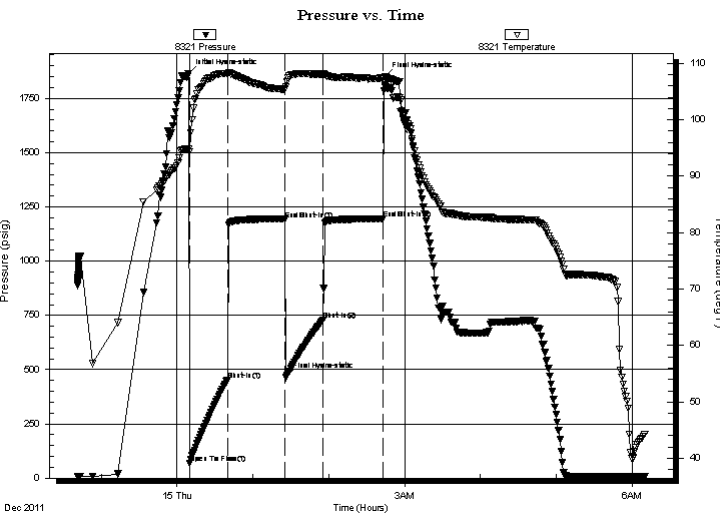
23-10s-17w-Rooks
Russell 1-23
 Job Ticket: 46240 **DST#: 3**
 Test Start: 2011.12.14 @ 22:41:20

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 00:09:50 Tester: Jeff Brown
 Time Test Ended: 06:10:20 Unit No: 44
 Interval: **3652.00 ft (KB) To 3712.00 ft (KB) (TVD)** Reference Elevations: 2086.00 ft (KB)
 Total Depth: 3712.00 ft (KB) (TVD) 2081.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8321 Inside
 Press @ Run Depth: 452.32 psig @ 3691.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.12.14 End Date: 2011.12.15 Last Calib.: 2011.12.15
 Start Time: 22:41:21 End Time: 06:10:20 Time On Btm: 2011.12.15 @ 00:09:20
 Time Off Btm: 2011.12.15 @ 01:25:50

TEST COMMENT: IFP-Strong blow BOB in 2 1/2 min
 ISI-Dead no blow back
 FFP-Strong blow BOB in 2 1/2 min
 FSI-Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1864.75	94.80	Initial Hydro-static
1	69.63	94.28	Open To Flow (1)
31	452.32	108.21	Shut-In(1)
76	1192.79	105.33	End Shut-In(1)
77	463.39	105.79	Final Hydro-static
106	728.84	108.03	Shut-In(2)
154	1195.10	107.36	End Shut-In(2)
155	1851.18	106.08	Final Hydro-static

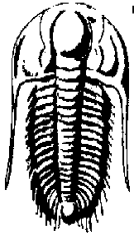
Recovery

Length (ft)	Description	Volume (bbl)
1260.00	MW 10%M90%W	17.40
189.00	WM 25%W75%M	2.65
136.00	WM with oil spots 10%M90%W	1.91

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mikol Oil LLC
1407 Washington
Ave Hays Ks 67601
ATTN: Larry Denning

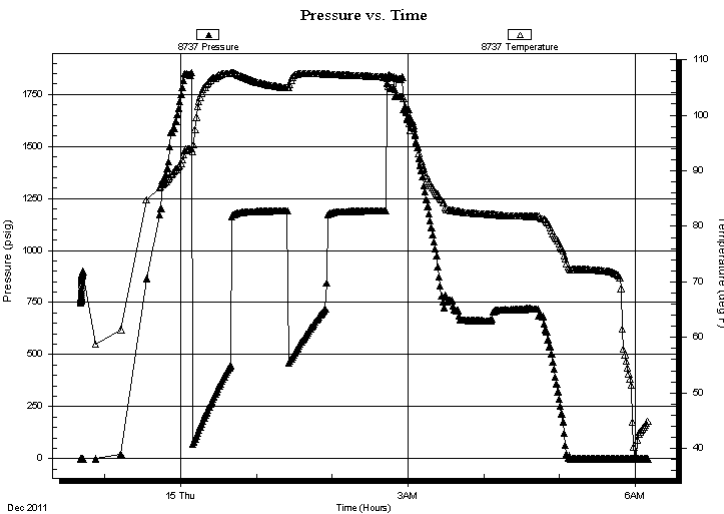
23-10s-17w-Rooks
Russell 1-23
Job Ticket: 46240 **DST#: 3**
Test Start: 2011.12.14 @ 22:41:20

GENERAL INFORMATION:

Formation:	Arbuckle				
Deviated:	No	Whipstock:	ft (KB)	Test Type:	Conventional Bottom Hole (Reset)
Time Tool Opened:	00:09:50			Tester:	Jeff Brown
Time Test Ended:	06:10:20			Unit No:	44
Interval:	3652.00 ft (KB) To 3712.00 ft (KB) (TVD)		Reference Elevations:	2086.00 ft (KB)	
Total Depth:	3712.00 ft (KB) (TVD)			2081.00 ft (CF)	
Hole Diameter:	7.88 inches		Hole Condition:	Fair	
			KB to GR/CF:	5.00 ft	

Serial #: 8737	Outside				
Press @RunDepth:	psig @	3691.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2011.12.14	End Date:	2011.12.15	Last Calib.:	2011.12.15
Start Time:	22:41:06	End Time:	06:10:05	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: IFP-Strong blow BOB in 2 1/2 min
 ISI-Dead no blow back
 FFP-Strong blow BOB in 2 1/2 min
 FSI-Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1260.00	MW 10%M90%W	17.40
189.00	WM 25%W75%M	2.65
136.00	WM with oil spots 10%M90%W	1.91

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mkol Oil LLC
1407 Washington
Ave Hays Ks 67601
ATTN: Larry Denning

23-10s-17w-Rooks
Russell 1-23
Job Ticket: 46240 **DST#: 3**
Test Start: 2011.12.14 @ 22:41:20

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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1260.00	MW 10%M90%W	17.401
189.00	WM 25%W75%M	2.651
136.00	WM with oil spots 10%M90%W	1.908

Total Length: 1585.00 ft Total Volume: 21.960 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8321

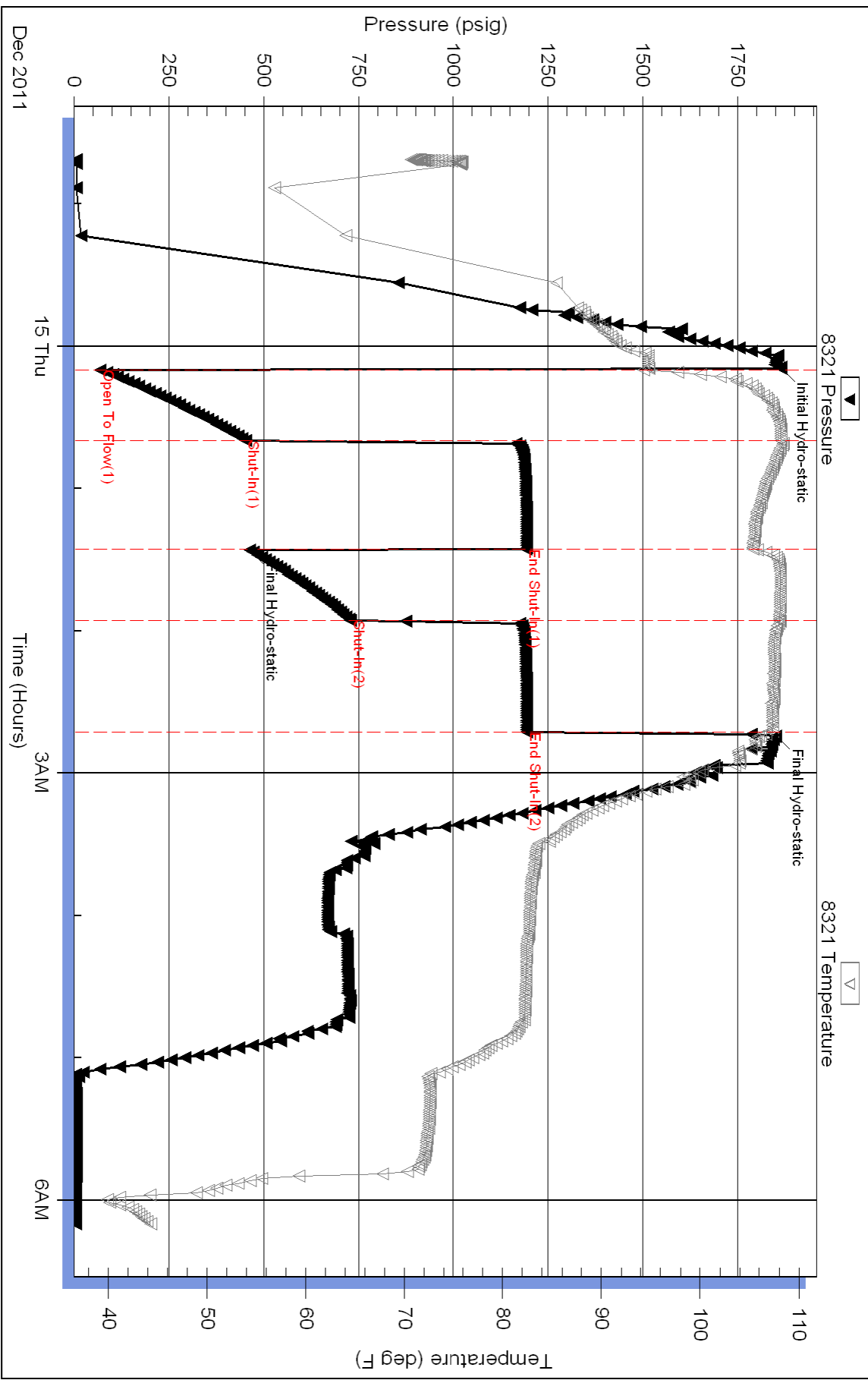
Inside

Mkol Oil LLC

Russell 1-23

DST Test Number: 3

Pressure vs. Time

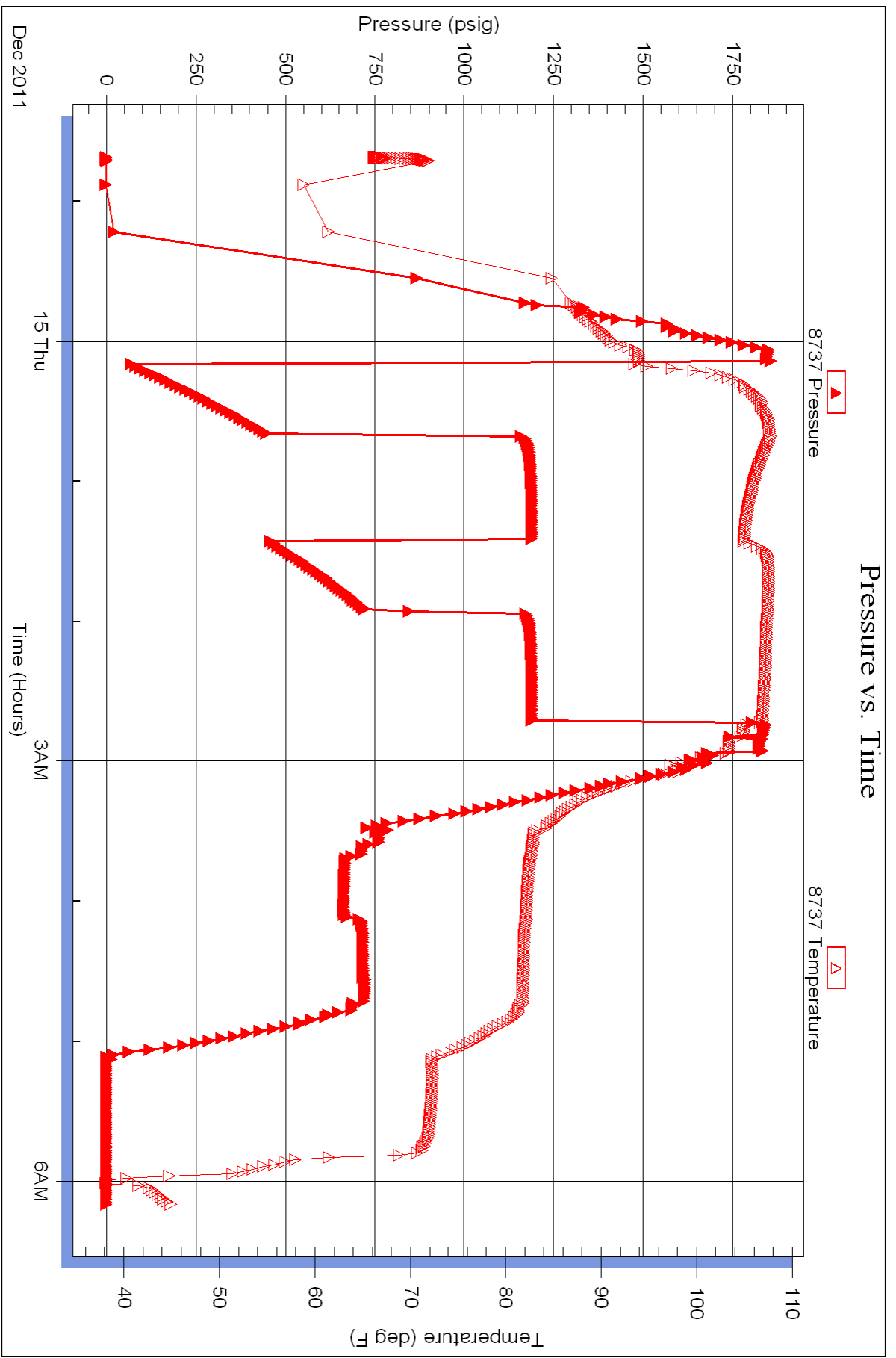


Serial #: 8737

Outside Mkol Oil LLC

Russell 1-23

DST Test Number: 3



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. 487

Date	4-9-12	Sec.		Range		County	Rooks	State	Kansas	On Location		Finish	3:45pm
Lease	Russell	Well No.	1-23	Location	Codell 2 1/2 N 1/2 W into								
Contractor	Chites Well Service			Owner	To Quality Oilwell Cementing, Inc.								
Type Job	Squeeze			You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.									
Hole Size	5 1/2 14b			T.D.									
Csg.	2 3/8			Depth	Charge To Mikel Oil								
Tbg. Size	2 3/8			Depth	Street								
Tool	Expert			Depth	City State								
Cement Left in Csg.				Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line				Displace	18.86 T 248L			Cement Amount Ordered	300 Common				

EQUIPMENT

Pumptrk	5	No.	Cementer		Common	300
			Helper	Steve		
Bulktrk	10	No.	Driver	Bred	Poz. Mix	
			Driver			
Bulktrk		No.	Driver	Brian S.	Gel.	
			Driver			

JOB SERVICES & REMARKS

Remarks:	Calcium
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
	CFL-117 or CD110 CAF 38
Reels	Sand
3361-3364 3474-3478	Handling
* 3493-3496	300
	Mileage

FLOAT EQUIPMENT

<p>Backer @ 3259 to squeeze Inj rate 4BPM @ 500 psi</p> <p>Mix 300 sx Common Hold 750 psi Wetish cream</p> <p>Pull 2 1/2" & Shut in @ 300 psi</p>	<p>Guide Shoe</p> <p>Centralizer</p> <p>Baskets</p> <p>AFU Inserts</p> <p>Float Shoe</p> <p>Latch Down</p>
---	--

Pumptrk Charge	Squeeze	Tax
Mileage	31	Discount
		Total Charge

X Signature

[Handwritten Signature]

ALLIED OIL & GAS SERVICES, LLC 056374

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 1
RUSSELL, KANSAS 67665

SERVICE POINT:
Russell Ks.

DATE <u>4-2-12</u>	SEC. <u>12</u>	TWP. <u>20</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION	JOB START <u>3:00 PM</u>	JOB FINISH <u>3:30 PM</u>
LEASE <u>Russell</u>	WELL# <u>1-23</u>	LOCATION <u>Copell Ks. 4 S 1/2 W 1/4 N</u>			COUNTY <u>Rocks</u>	STATE <u>KANSAS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Chitto's Well Service
 TYPE OF JOB Squeeze
 HOLE SIZE _____ T.D. _____
 CASING SIZE 5 1/2 DEPTH _____
 TUBING SIZE 2 7/8 DEPTH _____
 DRILL PIPE _____ DEPTH Norman P.
 TOOL X-PORT oil TOOL'S DEPTH 2934
 PRES. MAX 2000 # MINIMUM 500 #
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. @ 3070 - 3074
 DISPLACEMENT T-17, 604 C-136' 3, 30

OWNER _____
 CEMENT AMOUNT ORDERED 200 SX Comm
2 SX CC
2 SX SAND
 COMMON 200 SX @ 16.25 3250.00
 POZMIX @ _____
 GEL @ _____
 CHLORIDE 2 SX @ 58.20 116.40
 ASC @ _____
 SAND 2 SX @ 13.10 26.20
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 HANDLING 202 Total SX @ 2.25 454.50
 MILEAGE 37 Ton Mile @ 11 # 822.14
 TOTAL 4669.24

EQUIPMENT
 PUMP TRUCK CEMENTER Glen G.
 # 417 HELPER Woody O.
 BULK TRUCK _____
 # 481 DRIVER Chris G.
 BULK TRUCK _____
 # _____ DRIVER _____

REMARKS:
TOP of Cement @ 2965
180 @ 3333' Test Tool's To 2000# (HOLD) SPOT 2 SX SAND.
Perf @ 3070-74, Set Packer @ 2934'
Pressure Backside To Scott (HOLD) Tank
Injection Rate of 3 BPM @ 500 #
Mixed 200 SX Comm, 1% CC,
Squeezed To 1,000 #,
Washed Around Packer (2000) Pulled
SPTS + Shut in @ 500 #
THANK'S

CHARGE TO: Mikol Oil Company
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE
 DEPTH OF JOB 3070 - 74'
 PUMP TRUCK CHARGE _____ 2225.00
 EXTRA FOOTAGE @ _____
 MILEAGE 37 Hx MT @ 7.00 259.00
 MANIFOLD yes @ 350.00 -Nc-
37 Lx MT @ 4.00 148.00
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 TOTAL 2632.00

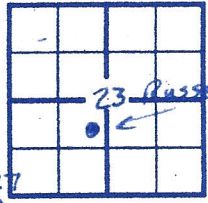
~~PLUG & FLOAT EQUIPMENT~~
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 TOTAL _____

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 Mike Stanton
 SIGNATURE [Signature]

SALES TAX (if Any) 459.97
 TOTAL CHARGES 7301.24
 DISCOUNT 20/50 1828.99 IF PAID IN 30 DAYS
~~_____~~
~~_____~~

**GEOLOGIC
REPORT
LOG**

<p>COMPANY <u>MIKOL OIL LLC</u> <u>HAYS KS 67601</u></p> <p>WELL <u>RUSSELL 1-23</u></p> <p>FIELD <u>UNKNOWN</u></p> <p>LOCATION <u>1730' FSL & 2970' FEL</u></p> <p>SEC. <u>23</u> TWP. <u>10S</u> RGE. <u>17W</u></p> <p>COUNTY <u>ROOKS</u></p> <p>STATE <u>KANSAS</u></p> <p>API <u>15-163-23991-00-00</u></p> <p>OPERATOR <u>MIKOL OIL LLC</u></p> <p>CONTRACTOR <u>MURFIN DRILLING #16</u></p> <p>COMM: <u>12-09-2011</u> COMP: <u>12-16-2011</u></p> <p style="text-align: center;">CASING RECORD</p> <p>SURF: <u>8 5/8" @ 219'</u> PROD: <u>5 1/2" @ 3768'</u></p> <p>TOTAL DEPTH DRILLERS: <u>3770</u></p> <p>TOTAL DEPTH LOG <u>3770</u></p>	<div style="text-align: center;">  </div> <p>PRODUCTION _____</p> <p>ELEVATION KB <u>2083</u> DF _____ GL <u>2071</u></p> <p>Drilling Measured From: _____</p> <p>Samples Saved From <u>2900</u> To: <u>T.D.</u></p> <p>Drilling Time From <u>2800</u> To: <u>T.D.</u></p> <p>Samples Examined From: <u>2900</u> To: <u>T.D.</u></p> <p>Geological Supervision From <u>2900</u> To Total Depth</p> <p>Wellsite Geologist <u>ED GLASSMAN</u></p> <p>Electrical Surveys <u>DUAL INDUCTION,</u> <u>DENSITY-NEUTRON, MICRO</u> <u>RADIATION GUARD.</u></p>
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FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
ANHYDRITE	1328 (755)	1330	753	-10
B/ANHYDRITE	1366 (717)	1364	719	-6
TOPEKA	3041 (-958)	3040	-957	-8
HEEBNER	3266 (-1183)	3263	-1180	-10
LANSING	3306 (-1223)	3305	-1222	-9
B/KANSAS CITY	3554 (-1471)	3552	-1469	-13
CHERT CONGLOMERATE	3606 (-1523)	3614	-1531	-31
ARBUCKLE	3707 (-1624)	3707	-1624	-22

REFERENCE WELL FOR STRUCTURE MIKOL OIL LLC,
MARSTON 1A-27, 515' FNL & 568' FEL, 27-10S-17W,
ROOKS COUNTY KANSAS.

3

DRILL STEM TESTS

No.	Interval	IFP/Time	ISIP/Time	FFP/Time	FSIP/Time	IHH-FHH	RECOVERY
1	3294- 3392	94/ 15	1120/ 60	102/ 45	1054/ 60	1652- 1632	106' V50CM 1st open 5" blow, 1/8 RB 2nd open 7 1/2" blow, Weak RB died 20'
2	3461- 3552	63/ 30	1135/ 45	70/ 30	1126/ 45	1757- 1735	20' MUD W/OIL SPOTS
3	3652- 3712	452/ 30	1193/ 45	729/ 30	1195/ 45	1865- 1851	1260' muddy Wtr. 189' Watry Mud 136' WM w/oil spot.

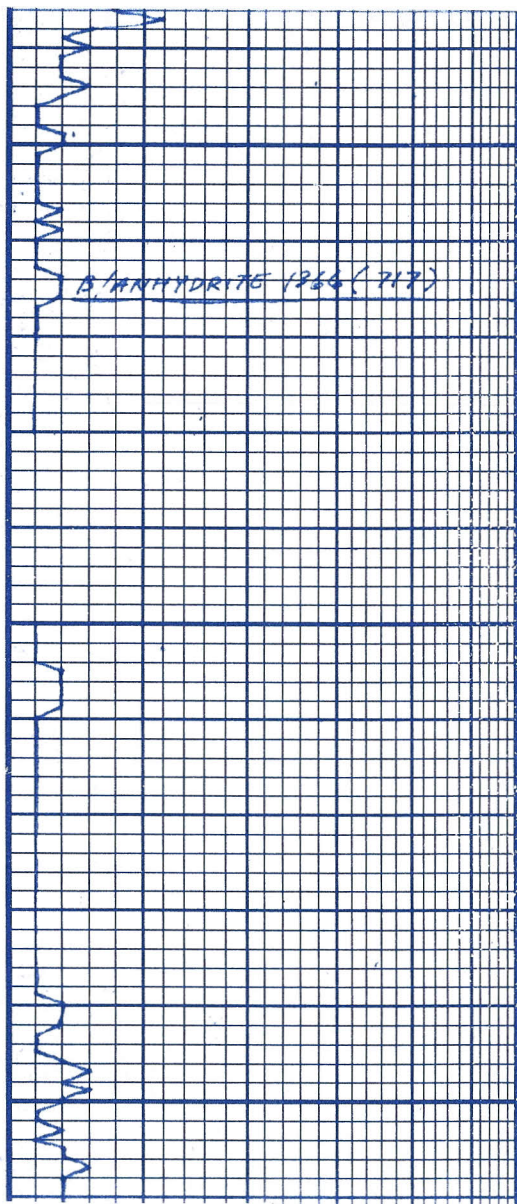
REMARKS AND RECOMMENDATIONS _____

LOG 7710

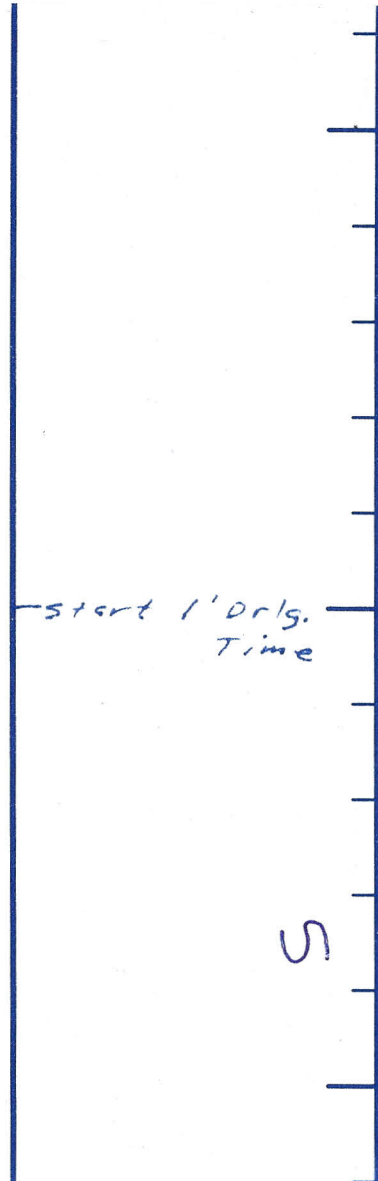
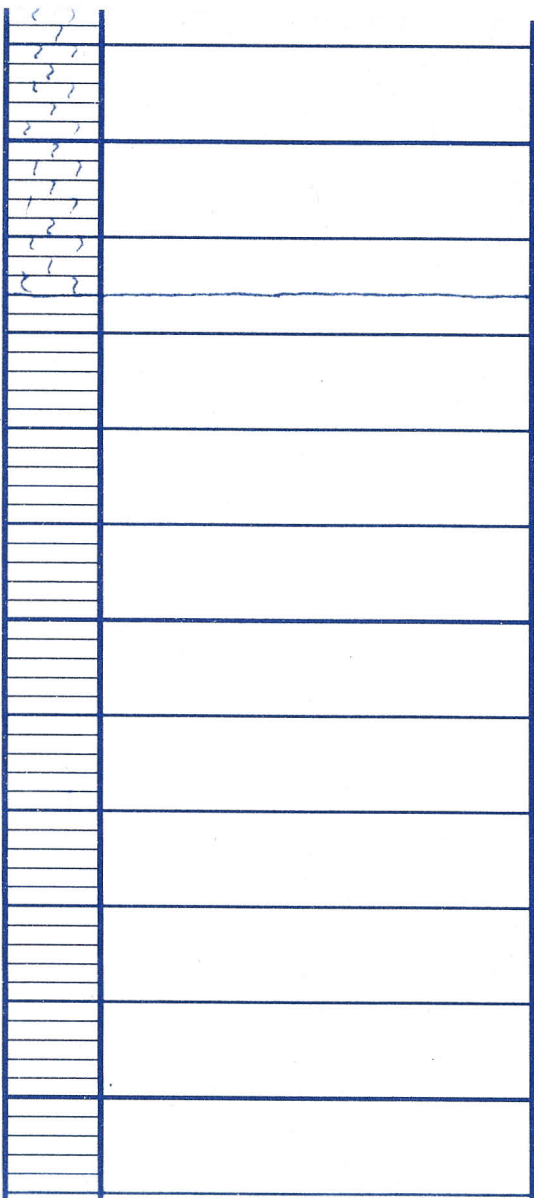
LEGEND

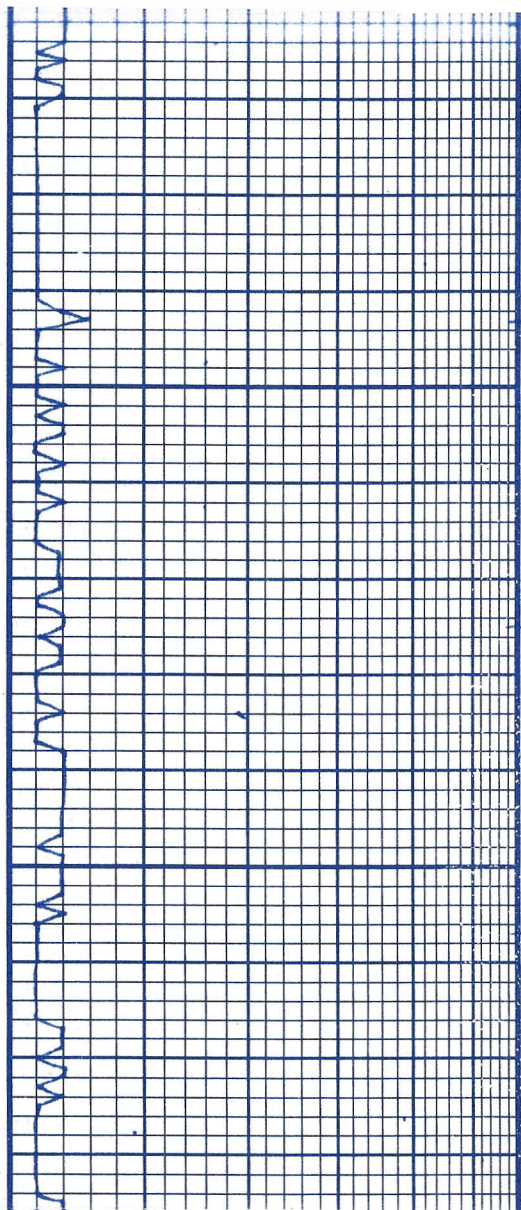


<p>DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases</p> <p>5" 10" 15" 20" 25"</p>	<p>DEPTH</p>	<p>LITHOLOGY</p>	<p>SAMPLE DESCRIPTIONS</p>	<p>OIL SHOWS</p>	<p>REMARKS</p>
	<p>10</p> <p>20</p> <p>30</p>		<p>ANHYDRITE (SEE 75E)</p>		<p>7</p>



40
 1350
 40
 70
 2800
 10
 20
 C 30
 40
 50
 60

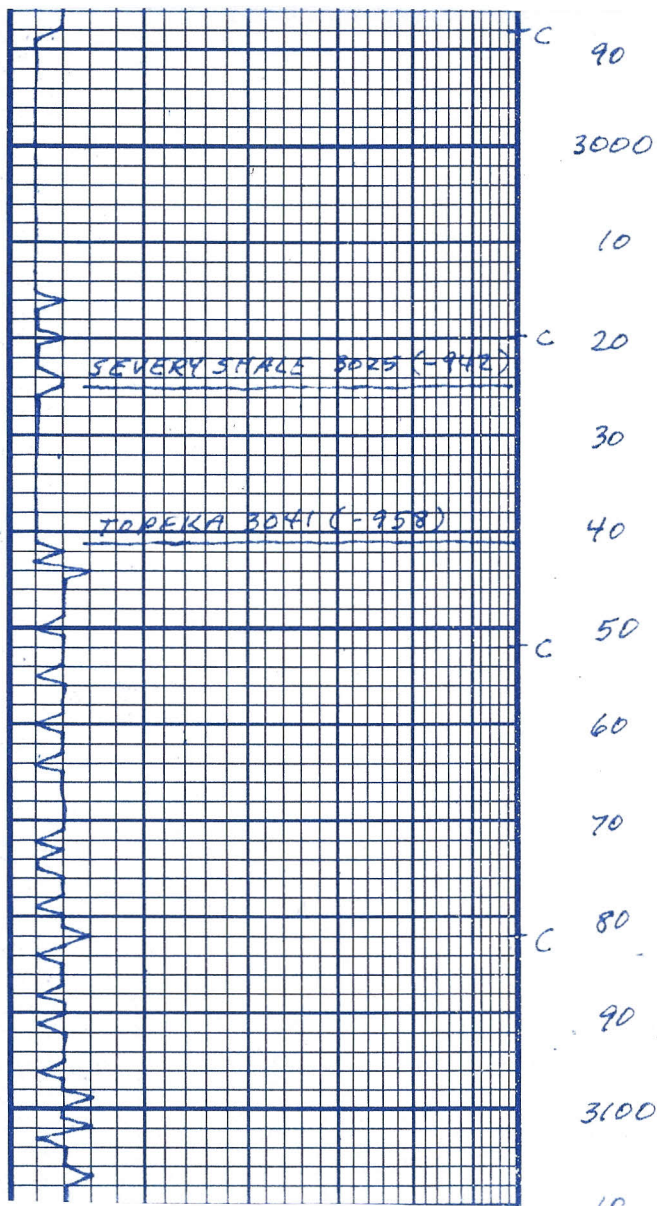




70	
80	
90	
2900	
10	LS: lt gry, mot/d, fos, inter xln - frag Ø, NS.
20	SH: gry, med, plty.
30	
40	LS: tan, f-med xln, inter xln Ø, NS.
50	SH: gry, med, plty-blky.
60	LS: tan, f-med xln, inter xln Ø, NS.
70	SH: gry, sme vari clrd, blky.
80	LS: tan, lt gry, f xln.

start 10' w/d
samples

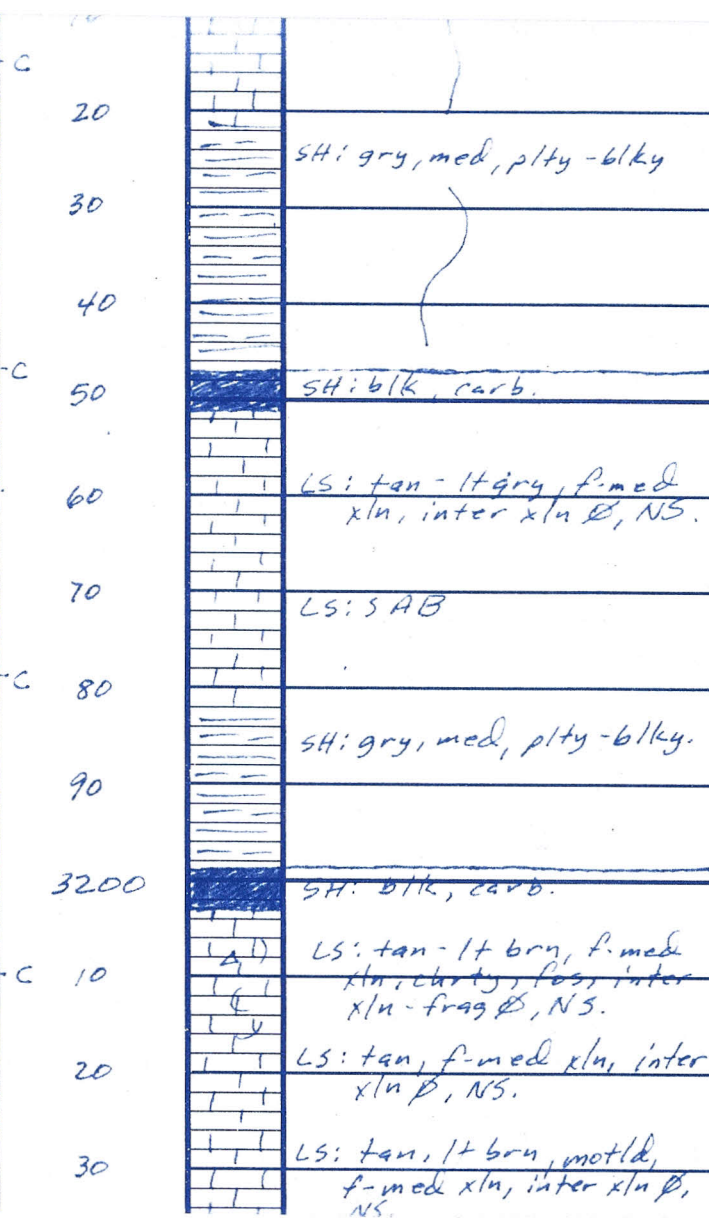
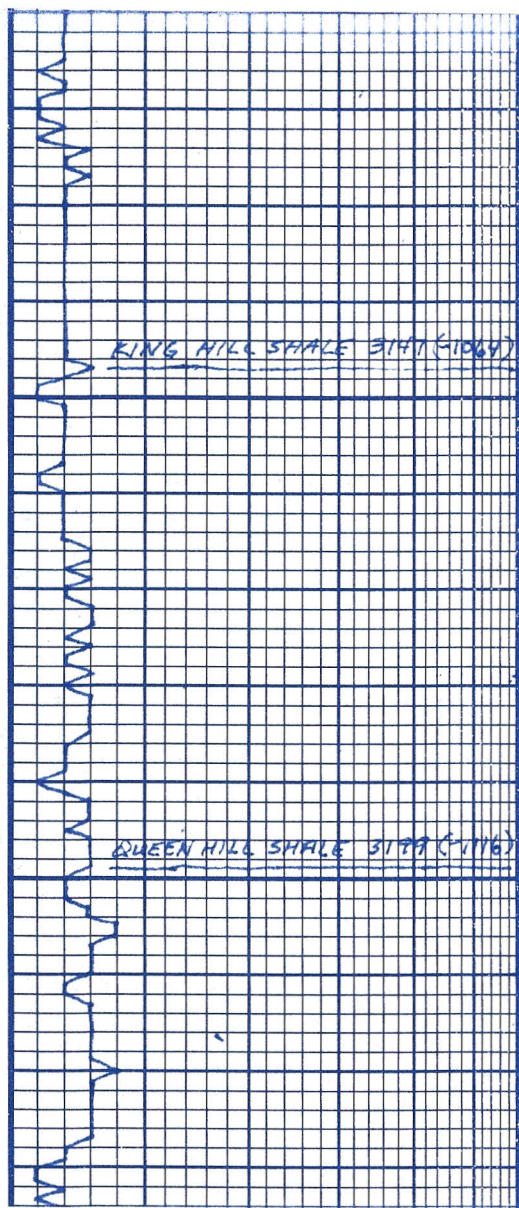
6



90	fos, inter xln \emptyset , NS.
	SH: gry, f, plty.
3000	
10	
20	
	SH: gry, med, plty.
30	
40	
	LS: tan - lt gry, f-med xln, inter xln \emptyset , NS.
50	
	LS: tan, lt gry, f-med xln, fos, inter xln - frag \emptyset , NS.
60	
	LS: tan, f-med xln, inter xln \emptyset , NS.
70	
	LS: lt tan - tan, f-med xln, inter xln \emptyset , sme pp \emptyset , SSFO, vsii odor, lt spty stn.
80	
	SH: gry, med, plty.
90	
	LS: tan, med xln, fos, inter xln - frag \emptyset , NS.
3100	
10	

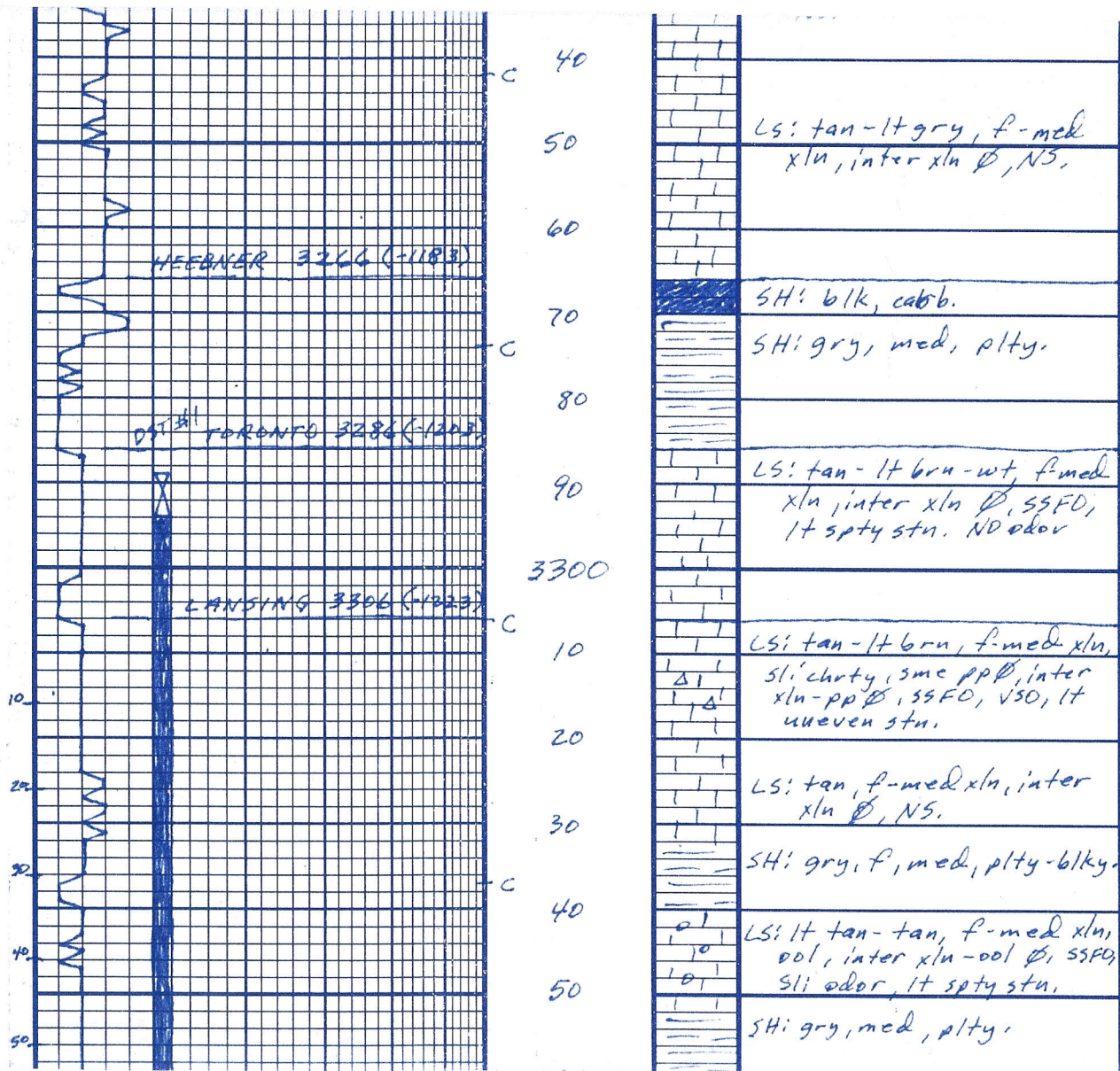
VIS 69
 W+ 8.8

7



VIS 60
Wt 9.0

CO

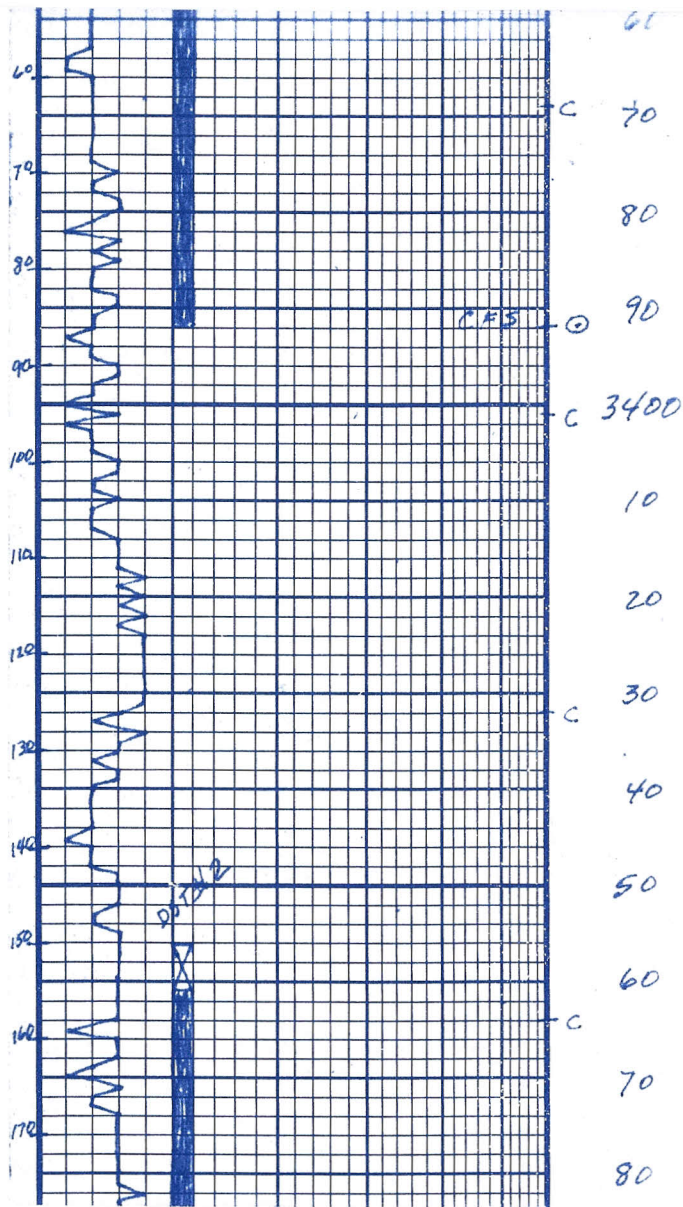


samples were washing a diesel odor. Contaminated

VIS 54
WT 9.1
LCM 1#

DST #1

3294-3392
15-60-45-60
FP: 94-102
SIP: 1120-1054



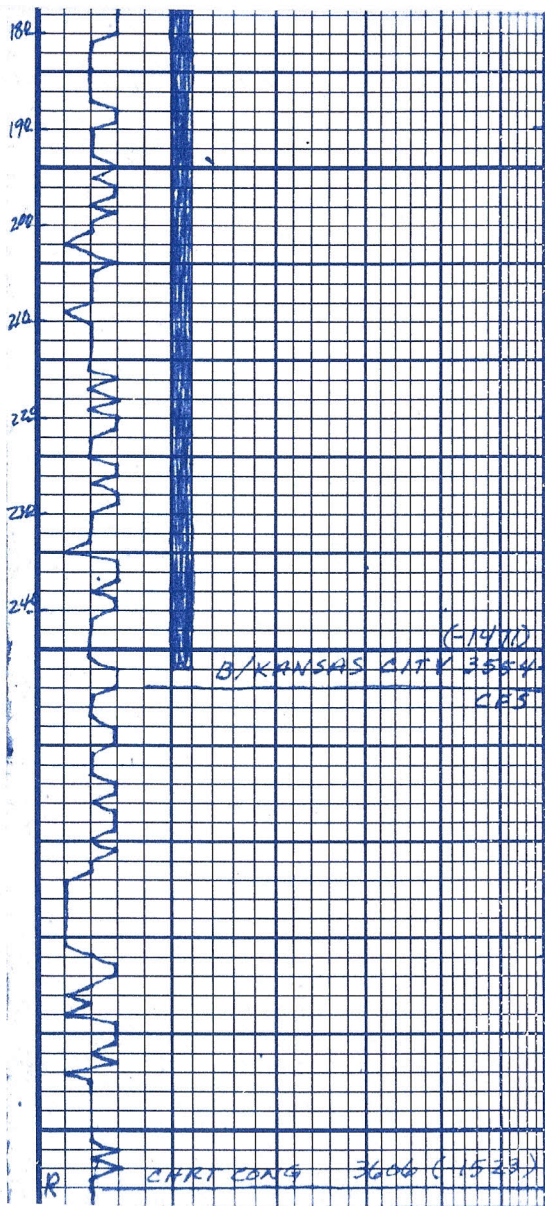
60	LS: tan - lt brn, f-med xln, ool, pseudo ool, inter xln-ool ϕ
70	
80	SH: blk, carb.
90	LS: tan - lt orn, f-med xln, inter xln ϕ , sme pp ϕ , dns ip, ESFO, odor??, lt spty stu.
C 3400	SH: gry, med, plty-blky.
100	LS: tan, f-med xln, ool-oomed ϕ inter xln-ool-oom ϕ , NSFO, sli odor, no stn.
110	
120	LS: tan, f-med xln, inter xln-ool ϕ , NS.
130	SH: gry, med, plty-blky.
140	
150	
160	LS: tan, f-med xln, inter xln ϕ , NS.
	SH: gry, med, blk.
170	LS: clr-wt - lt tan, f-med xln, GSFO, sli odor, lt-drk spty stu.

REC: 106' VSOCM

VIS 52
WT 9.1

10

VIS 47



90
3500
10
20
30
40
50
60
70
80
90
3600

SH: gry, med, pty.

LS: tan-lt brn, f-med xln,
inter xln \emptyset , SSFO, NO,
lt even str.

SH: blk, carb
SH: vari clrd, pty-blky.

LS: tan-lt brn, f-med xln
sli ool, inter xln-ool \emptyset ,
SSFO, sli odor, lt-brk even
str.

SH: blk, carb.

LS: tan, f-med xln, inter
xln \emptyset , NS.

SH: gry, med, pty-blky.

SH: gry, vari clrd, sme
reddish brn, pty-splaty
blky.

LS: tan, med xln, motld,
NS.

LS: wt-lt purple-pinkish, f
med xln, inter xln \emptyset ,
sme motld, NS.

CHRT: org. uel. burat org.

WT 9.3

DST #2

3461-3552

30-45-30-45

FP: 63-70

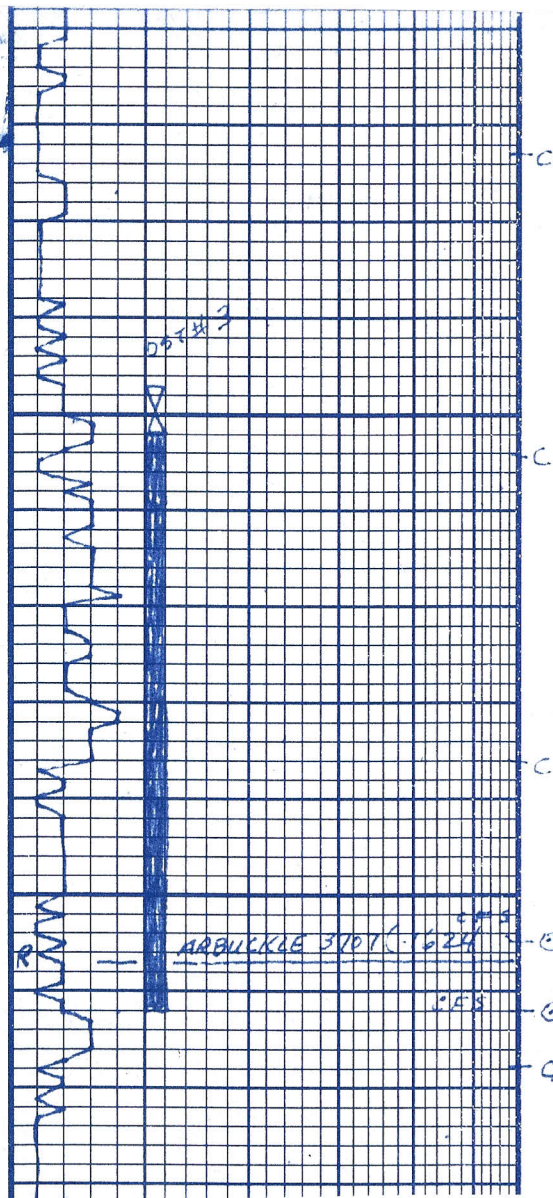
SIP: 1135-1126

REC: 20' MUD E
OIL SPOTS

VIS 60

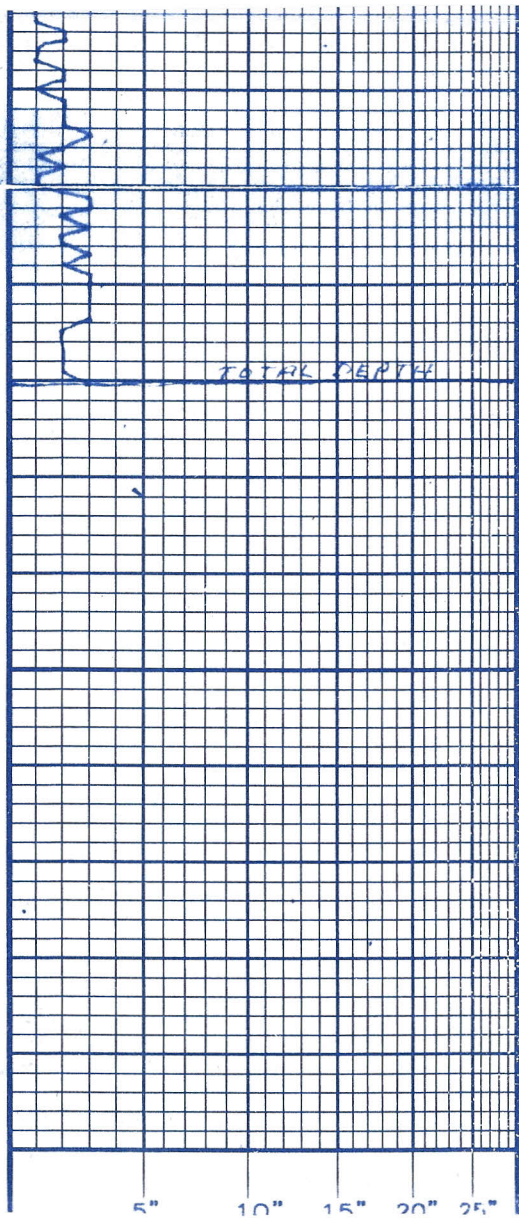
WT 9.4

LCM 1 1/2 #



10	▲	Trivalent-opaque, LS: tan, some wt, NS
20	▲	CHRT: SAB, lt-drk spty- even stn.
30	▲	
40	▲	SH: gry, vari clrd, med, pty-blky, mostly reddish brn,
50	▲	SH: vari clrd, lt blu-grn, olive grn, sandy, pty.
60	▲	
70	▲	SH: vari clrd, lt blu-grn some olive grn,
80	▲	
90	▲	SH: SAB
3700	▲	SS: clr, rnd-subrnd, mod sort, fri, calc, some glauc xls, some Fe++ xls, NS.
10	▲	SH: lt-drk blu-grn, med, flky-pty.
20	▲	DOL: tan, f-med xln, suc, dus ip, inter xln, sandy, GSFO, v sli odor, drk spty stn.
30	▲	DOL: tan, f-med xln, suc, inter xln, NSFO, v sli odor, no stn.
	▲	DOL: SAB, some chrt

VIS 59
 WT 9.3
 DST #3
 3652 - 3712
 30-45-30-45
 FP: 452-729
 SIP: 1193-1195
 REL: 136' WM w/
 oil spots
 189' Wtry Mud
 1260' Muddy Wtr.

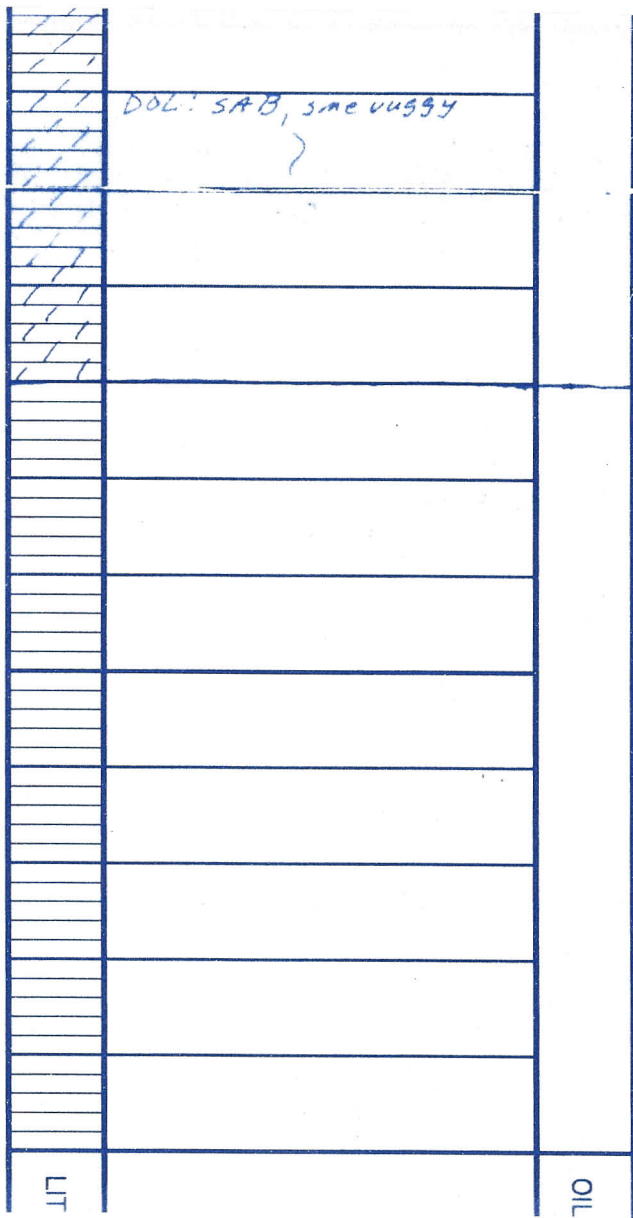


40

50

60


70



DOL: SAB, some vuggy

LIT

OIL

DRILLING TIME Minutes/Foot 	DEPTH	GEOLOGY	SAMPLE DESCRIPTIONS	SHOWS	REMARKS
CONTRACTOR <u>MURFIN DRILLING INC RIG 16</u> LEASE <u>RUSSELL 1-23</u> IP _____ ELEVATION <u>1730' F</u> RTD <u>3770</u> <u>KB 2083</u>			LOCATION <u>1730' FSL & 2920' FEL</u> SEC <u>23</u> TWP <u>10S</u> RNG <u>17W</u> COUNTY <u>ROOKS</u> STATE <u>KANSAS</u>		