



KANSAS CORPORATION COMMISSION 1079169
OIL & GAS CONSERVATION DIVISION

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 # 34132

Name: Mikol Oil LLC

Address 1: 1407 WASHINGTON CIR

Address 2:

City: HAYS State: KS Zip: 67601

Contact Person: Larry Denning

Phone: (785) 259-2360

CONTRACTOR: License # 30606

Name: Murfin Drilling Co., Inc.

Wellsite Geologist: Ed Glassman

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 #: D-31,087

ENHR Permit #:

GSW Permit #:

12/9/2011 12/15/2011 12/16/2011

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 15-163-23991-00-00

Spot Description:

N2 SE NE SW Sec. 23 Twp. 10 S. R. 17 East West

1730 Feet from North / South Line of Section

2970 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

County: Rocks

Lease Name: Russell Well #: 1-23

Field Name:

Producing Formation: None

Elevation: Ground: 2081 Kelly Bushing: 2085

Total Depth: 3770 Plug Back Total Depth:

Amount of Surface Pipe Set and Cemented at: 219 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: 1351 Feet

If Alternate II completion, cement circulated from: 1351

feet depth to: 0 w/ 225 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 16000 ppm Fluid volume: 320 bbls

Dewatering method used: Evaporated

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: Deanna Garrison Date: 04/20/2012



1079169

Operator Name: Mikol Oil LLC

Lease Name: Russell

Well #: 1-23

Sec. 23 Twp. 10 S. R. 17 East West

County: Rooks

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 Yes No Log Formation (Top), Depth and Datum Sample
 (Attach Additional Sheets)

Samples Sent to Geological Survey Yes No Name Top Datum
 Attached Attached Attached

Cores Taken Yes No
 Electric Log Run Yes No
 Electric Log Submitted Electronically Yes No
 (If no, Submit Copy)

List All E. Logs Run:
 Attached

CASING RECORD New 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 Pipe	12.25	8.6250	23	219	Common	150	2%Gel&3%CC
Production String	7.8750	5.50	15.5	3765	Common	200	10%Salt-5%Gilsonite
Production String	7.8750	5.50	15.5	1351	Common	225	8%Gel&1/4lb.FloSea

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Perforate				
Protect Casing				
Plug Back TD	2957-3100	Common	200	1 % CC
<input checked="" type="checkbox"/> Plug Off Zone	3328-3510	Common	300	

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	3493-96 3474-78	250 gals, 15% MCA	
4	3361-64	750 gals, 15% MCA	
2	3070-74	250 gals, 15% MCA	

TUBING RECORD: Size: 2 7/8 Set At: 3719.87 Packer At: 3726.17 Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. Producing Method: Flowing Pumping Gas Lift Other (Explain)

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

DISPOSITION OF GAS: Vented Sold Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Duality Comp. (Submit ACO-5) Commingled (Submit ACO-4) Other (Specify)

PRODUCTION INTERVAL:

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

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

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		

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

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

\$ 5089.50

ONLY IF PAID ON OR BEFORE
Jan 10, 2012



PO BOX 31 Russell, KS 67665

INVOICE

Invoice Number: 129670

Invoice Date: Dec 16, 2011

Page: 1

Voice: (817) 546-7282

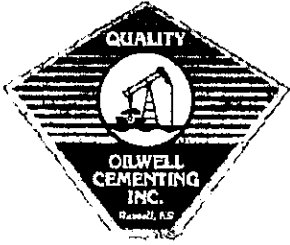
Fax: (817) 246-3361

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

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		

<p>ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF</p> <p>\$ <input type="text"/></p> <p>ONLY IF PAID ON OR BEFORE</p> <p><input type="text"/> Jan 10, 2012</p>	Subtotal	Continued
	Sales Tax	Continued
	Total Invoice Amount	Continued
	Payment/Credit Applied	
	TOTAL	Continued



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

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

12-23
 1390

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
	<i>Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:</i>	\$ (616.69)
<hr/>		
	SubTotal for Taxable Items:	\$ 1,907.67
	SubTotal for Non-Taxable Items:	\$ 1,586.89
<hr/>		
	Total:	\$ 3,494.56
	Tax:	\$ 120.18
<hr/>		
	Amount Due:	\$ 3,614.75

6.30% Rooks County Sales Tax

Thank You For Your Business!

Applied Payments:
Balance Due: \$ 3,614.75

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.

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

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

No. 135

Date <u>12-9-11</u>	Sec. <u>23</u>	Twp. <u>10</u>	Range <u>17</u>	County <u>Rooks</u>	State <u>Kansas</u>	On Location	Finish <u>12:15pm</u>
Lease <u>Russell</u>		Well No. <u>1-23</u>		Location <u>Colwell 35 Winto</u>			
Contractor <u>Martin Drilling</u>				Owner			
Type Job <u>Surface</u>				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 <u>12 3/4</u>		T.D. <u>220</u>		Charge To <u>Mixed Oil</u>			
Csg. <u>8 5/8 23lb</u>		Depth <u>220</u>		Street			
Tbg. Size		Depth		City			
Tool		Depth		State			
Cement Left in Csg. <u>10-15'</u>		Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line		Displace <u>13 Bbl</u>		Cement Amount Ordered <u>150 Common 30cc 2 1/2 gal</u>			

EQUIPMENT

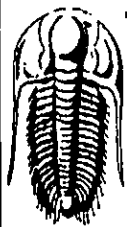
Pumptrk <u>5</u>	No.	Cementer <u>Steve</u>	Helper	Common <u>150</u>
Bulktrk <u>10</u>	No.	Driver <u>Brett</u>		Poz. Mix
Bulktrk	No.	Driver <u>Michael</u>		Gel. <u>3</u>
JOB SERVICES & REMARKS				Calcium <u>5</u>
Remarks:				Hulls
Rat Hole				Salt
Mouse Hole				Flowseal
Centralizers				Kol-Seal
Baskets				Mud CLR 48
DV or Port Collar				CFL-117 or CD110 CAF 38
<u>Cement did Circulate</u>				Sand
				Handling <u>158</u>
				Mileage

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
<u>Suboff</u>	
Pumptrk Charge	
Mileage <u>31</u>	

x Signature [Signature]

Tax	
Discount	
Total Charge	



**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: 46238 **DST#: 1**
Test Start: 2011.12.13 @ 09:13:44

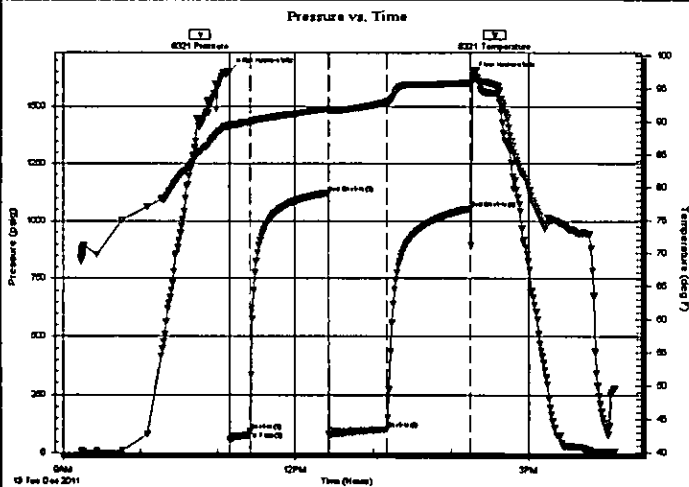
GENERAL INFORMATION:

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

Test Type: Conventional Bottom Hole (Initial)
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@RunDepth: 102.32 psig @ 3364.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.12.13 End Date: 2011.12.13 Last Calib.: 2011.12.13
Start Time: 09:13:45 End Time: 16:06:44 Time On Btm: 2011.12.13 @ 11:09:14
Time Off Btm: 2011.12.13 @ 14:16:14

TEST COMMENT: IFF-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

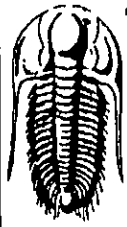
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1651.86	89.46	Initial Hydro-static
1	56.20	89.25	Open To Flow (1)
16	94.03	89.92	Shut-In (1)
76	1120.33	91.93	End Shut-In (1)
77	78.81	91.66	Open To Flow (2)
121	102.32	92.94	Shut-In (2)
186	1054.26	95.85	End Shut-In (2)
187	1632.31	97.78	Final Hydro-static

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

Mikol Oil LLC

23-10s-17w-Rooks

1407 Washington
Ave Hays Ks 67601

Russell 1-23

Job Ticket: 46238

DST#: 1

ATTN: Larry Denning

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

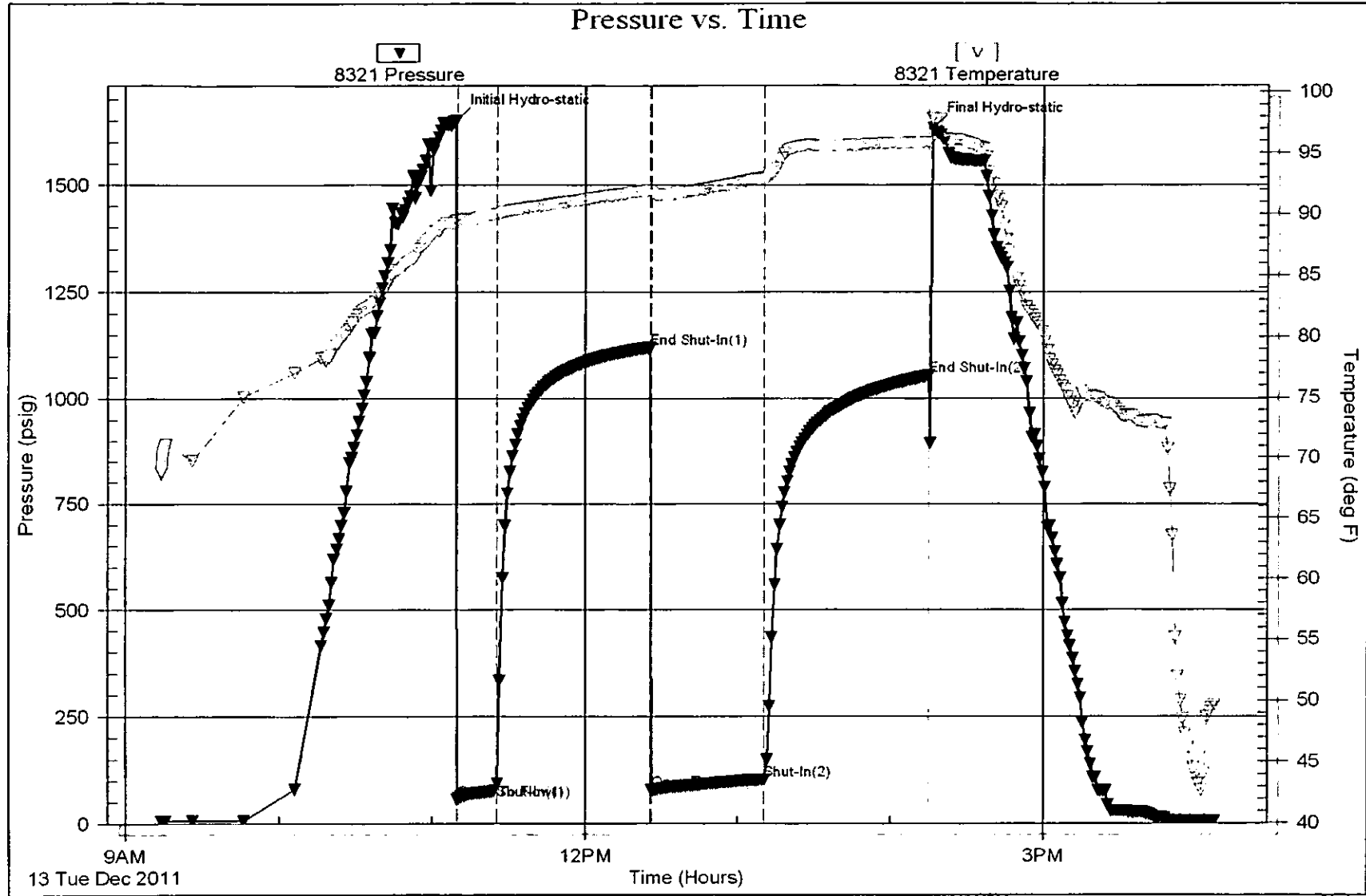
Length ft	Description	Volume bbl
106.00	VSOCM	1.214

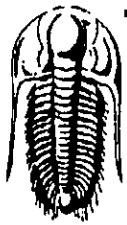
Total Length: 106.00 ft Total Volume: 1.214 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





**TRIBOLITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

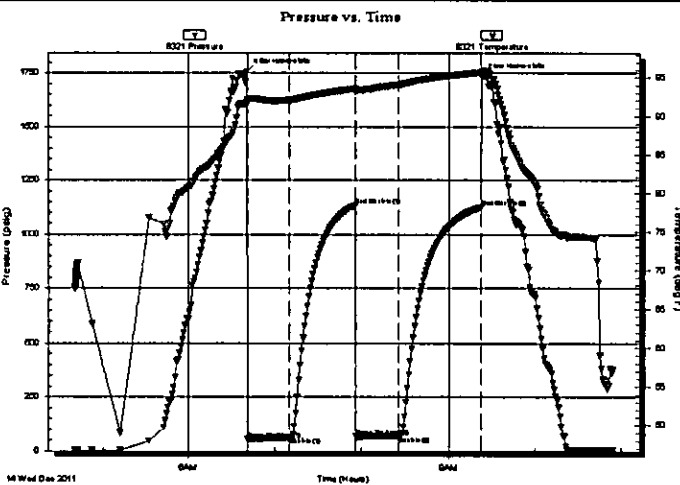
23-10s-17w-Rooks
Russell 1-23
Job Ticket: 46239 **DST#: 2**
Test Start: 2011.12.14 @ 04:39:59

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@RunDepth: **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

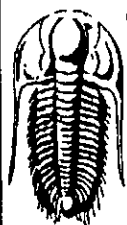
Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud with 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

Mikol 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

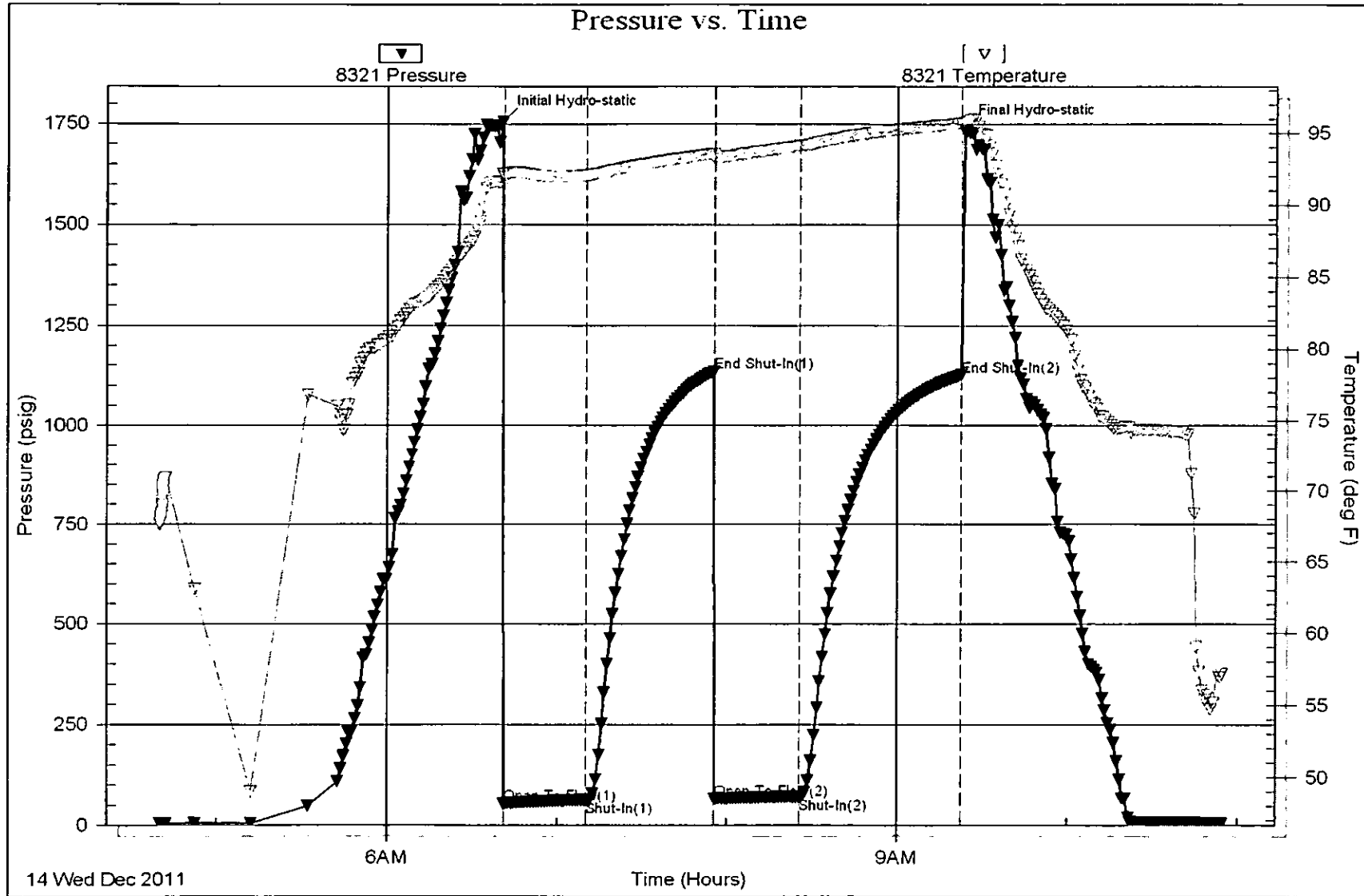
Length ft	Description	Volume bbl
20.00	Mud with oil spots	0.098

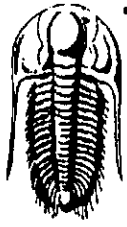
Total Length: 20.00 ft Total Volume: 0.098 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

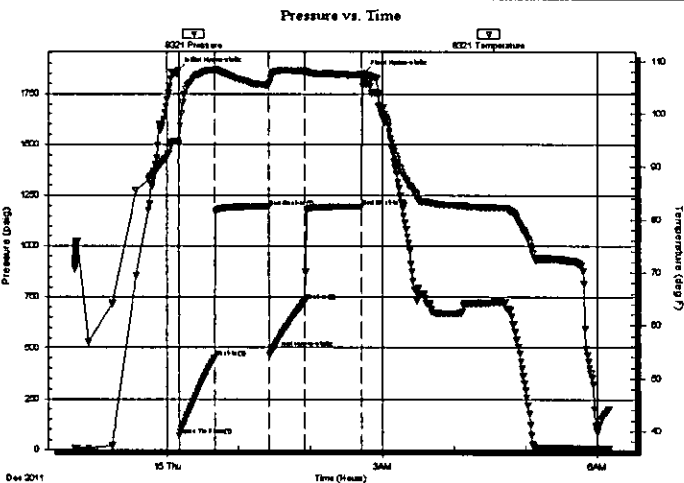
23-10s-17w-Rooks
Russell 1-23
 Job Ticket: 46240 **DST#: 3**
 Test Start: 2011.12.14 @ 22:41:20

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:09:50
 Time Test Ended: 06:10:20
 Interval: **3652.00 ft (KB) To 3712.00 ft (KB) (TVD)**
 Total Depth: 3712.00 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@RunDepth: 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 Btrn: 2011.12.15 @ 00:09:20
 Time Off Btrn: 2011.12.15 @ 01:25:50

TEST COMMENT: IFF-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 w ith 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

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

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

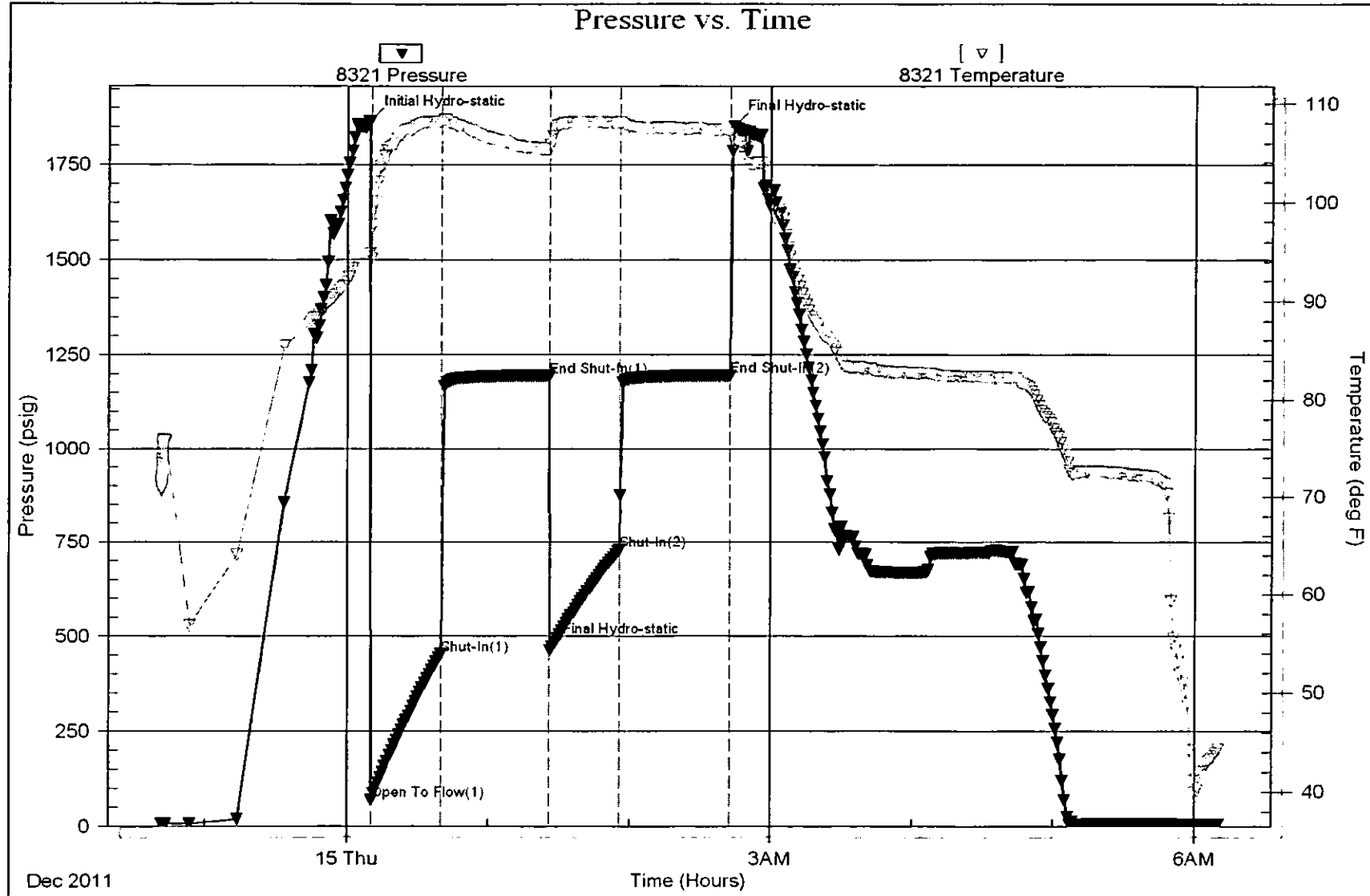
Length ft	Description	Volume bbl
1260.00	MW 10%M90%W	17.401
189.00	WM 25%W75%M	2.651
136.00	WM with oil spots 10%M90%W	1.908

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:

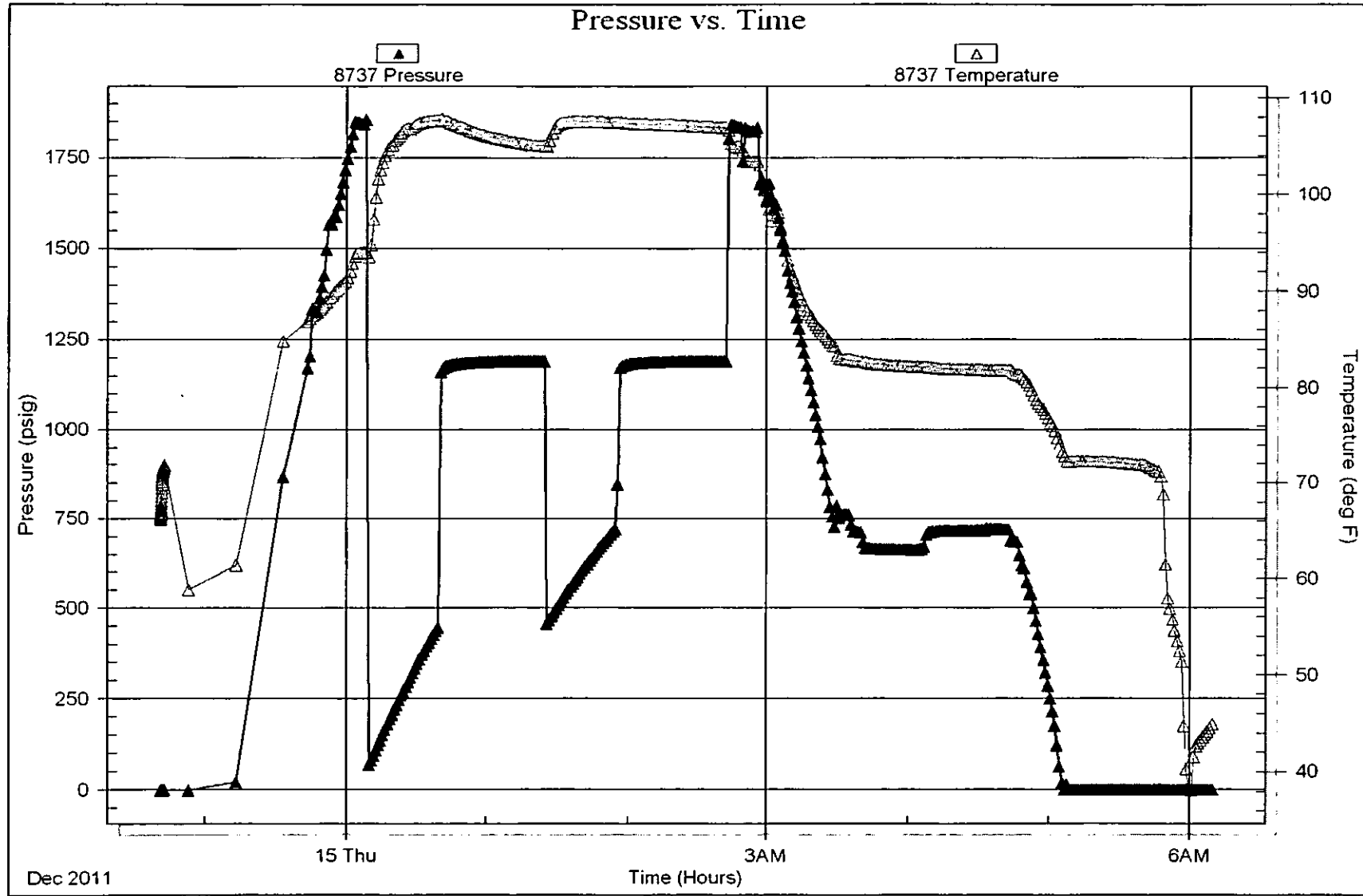


Serial #: 8737

Outside Mkd Oil LLC

Russel 1-23

DST Test Number: 3



QUALITY OILWELL CEMENTING, INC.

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

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

No. 487

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-9-12				Rooks	Kansas		3:45pm
Lease	Well No.		Location				
Russell	1-23		Cochran 2 1/2 S N 1/2 W 1/4				
Contractor				Owner			
Chiles Well Service				To Quality Oilwell Cementing, Inc.			
Type Job				You are hereby requested to rent cementing equipment and furnish			
Squeeze				cement and helper to assist owner or contractor to do work as listed.			
Hole Size		T.D.		Charge To			
5 1/2 14 1/2				Mikel Oil			
Csg. Size		Depth		Street			
2 3/8							
Tool Joint		Depth		City		State	
Expert							
Cement Left in Csg.		Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line		Displace		Cement Amount Ordered			
		18.86 T 2481		300 Common			

EQUIPMENT

Pumptrk	5	No.	Cementor	Helper	Common	300
Bulktrk	10	No.	Driver	Steve	Poz. Mix	
Bulktrk		No.	Driver	Brad	Gel.	
			Driver	Bryan S		

JOB SERVICES & REMARKS

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

FLOAT EQUIPMENT

Packer @ 3259 to squeeze	Guide Shoe
Trig rate 4BPM @ 500 psi	Centralizer
Mix 300 sx Common	Baskets
Hold 750 psi Wash clean	AFU Inserts
Pull 2 1/2 & Shut in @ 500 psi	Float Shoe
	Latch Down

Pumptrk Charge	Squeeze
Mileage	31
	Tax
	Discount
	Total Charge

X Signature

[Handwritten Signature]

ALLIED OIL & GAS SERVICES, LLC 056374

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>Codell, KS. 4 S 1/2 W 1/4 N.</u>			COUNTY <u>Rooks</u>	STATE <u>KANSAS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR <u>Quatro's Well Service</u>	OWNER
TYPE OF JOB <u>Squeeze</u>	
HOLE SIZE	T.D.
CASING SIZE <u>5 1/2</u>	DEPTH
TUBING SIZE <u>2 7/8</u>	DEPTH
DRILL PIPE	DEPTH <u>NORMAN P.</u>
TOOL X-PEAT <u>oil Tool's</u>	DEPTH <u>2934</u>
PRES. MAX <u>2000 #</u>	MINIMUM <u>500 #</u>
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS. <u>@ 3070-3074</u>	
DISPLACEMENT <u>T-17, C-136' 3.30</u>	
EQUIPMENT	
PUMP TRUCK CEMENTER <u>Glen G.</u>	
# <u>417</u> HELPER <u>WOODY D.</u>	
BULK TRUCK	
# <u>481</u> DRIVER <u>CHAS G.</u>	
BULK TRUCK	
#	DRIVER
<u>TOP OF CEMENT @ 2965</u>	

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

REMARKS:
ROOF @ 3333', Test Tools To 2000' (HARD) Spot 2, 2x, S & NO.
ROOF @ 3070-74, Set Packer @ 2934'
Pressure Backside To 500# (HOLD) Tank
Injection Rate OF 3 B.P.M @ 500#
Mixed 200 SX Comm, 170 CC,
Squeezed TO 1,200#.
Washed Around Packer (20 red) Pulled
S.P.T'S - SHUT IN @ 500#.
THANK'S

DEPTH OF JOB <u>3070'-74'</u>	
PUMP TRUCK CHARGE	<u>2225.00</u>
EXTRA FOOTAGE	@
MILEAGE <u>37 Hx Mr @ 7.00</u>	<u>259.00</u>
MANIFOLD <u>yes @ 150.00</u>	<u>- No -</u>
<u>37 Lx Mr @ 4.00</u>	<u>148.00</u>
	@
TOTAL <u>2632.00</u>	

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

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
[Signature] [Signature]

GEOLOGIC
REPORT
LOG

COMPANY MIKOL OIL LLC
HAYS KS 67601

WELL RUSSELL 1-23

FIELD UNKNDWN

LOCATION 1730' FSL & 2970' FEL

SEC. 23 TWP. 10S RGE. 17W

COUNTY ROOKS

STATE KANSAS

API 15-163-23991-00-00

OPERATOR MIKOL OIL LLC

CONTRACTOR MURFIN DRILLING #16

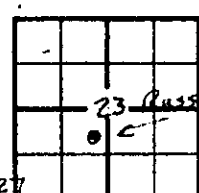
COMM: 12-09-2011 COMP: 12-16-2011

CASING RECORD

SURF: 8 5/8" @ 219' PROD: 5 1/2" @ 3768'

TOTAL DEPTH DRILLERS: 3770

TOTAL DEPTH LOG 3770



PRODUCTION _____

ELEVATION KB 2083
 DF _____
 GL 2071

Drilling Measured From: _____

Samples Saved From 2900 To: T.D.

Drilling Time From 2800 To: T.D.

Samples Examined From: 2900 To: T.D.

Geological Supervision From 2906 To Total Depth

Wellsite Geologist ED GLASSMAN

Electrical Surveys DUAL INDUCTION,
DENSITY-NEUTRON, MICRO
RADIATION GUARD.

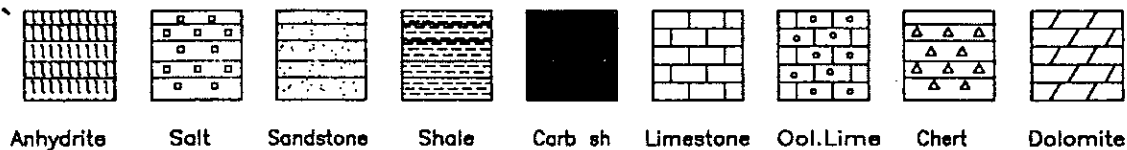
FORMATION TOPS AND STRUCTURAL POSITION

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 (-952)	3040	-957	-2
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.



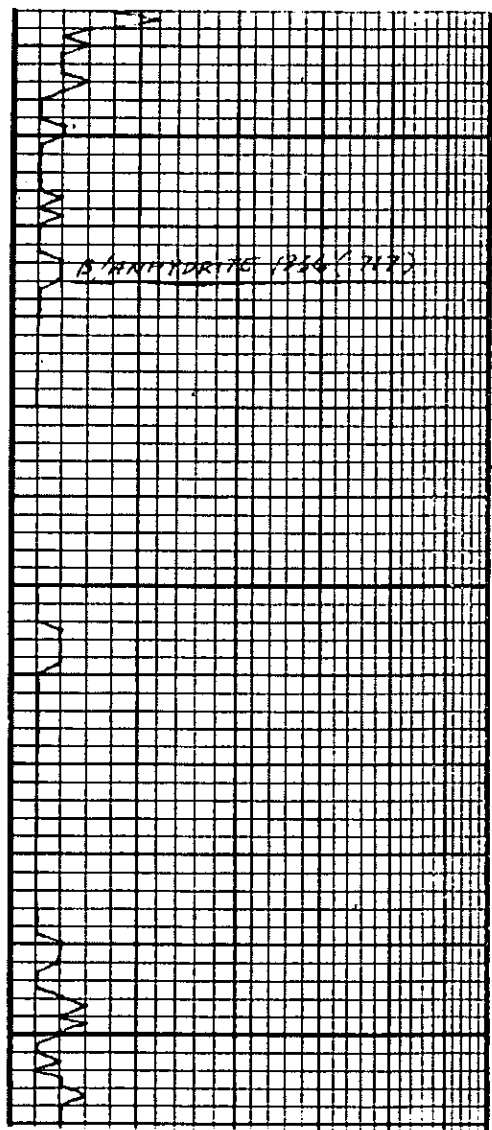
LEGEND



LOG 7710	DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases		DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
			10				
			20				
			30				

ANHYDRITE 1325 / 753

7



40

1350

60

70

2800

70

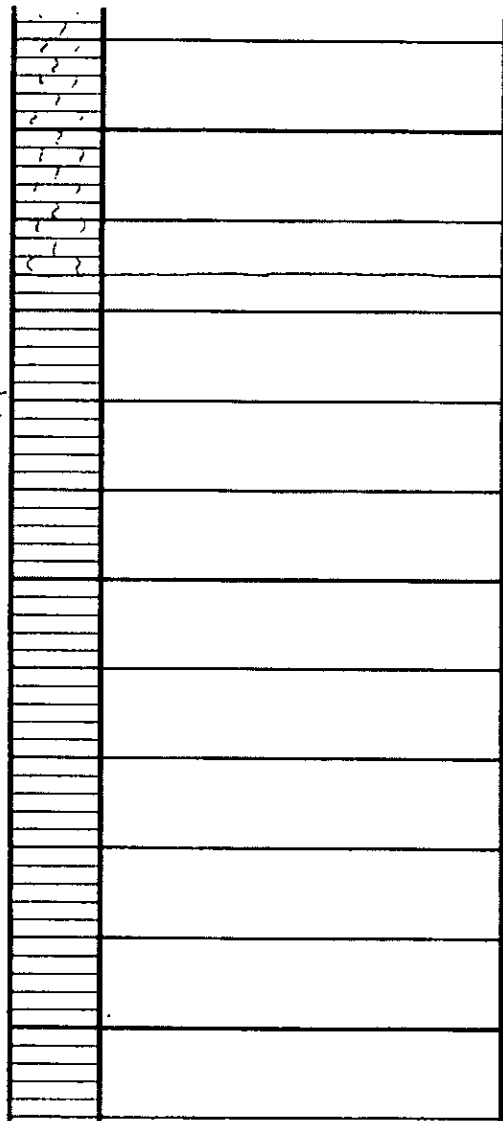
20

C 30

40

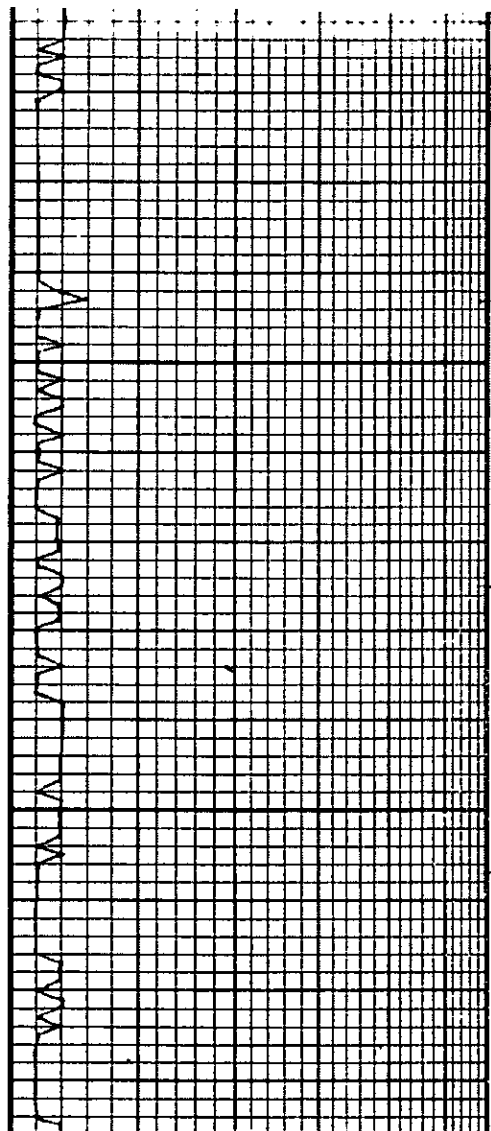
50

60



start 1' Drlg.
Time

5



70

80

90

2950

10

20

30

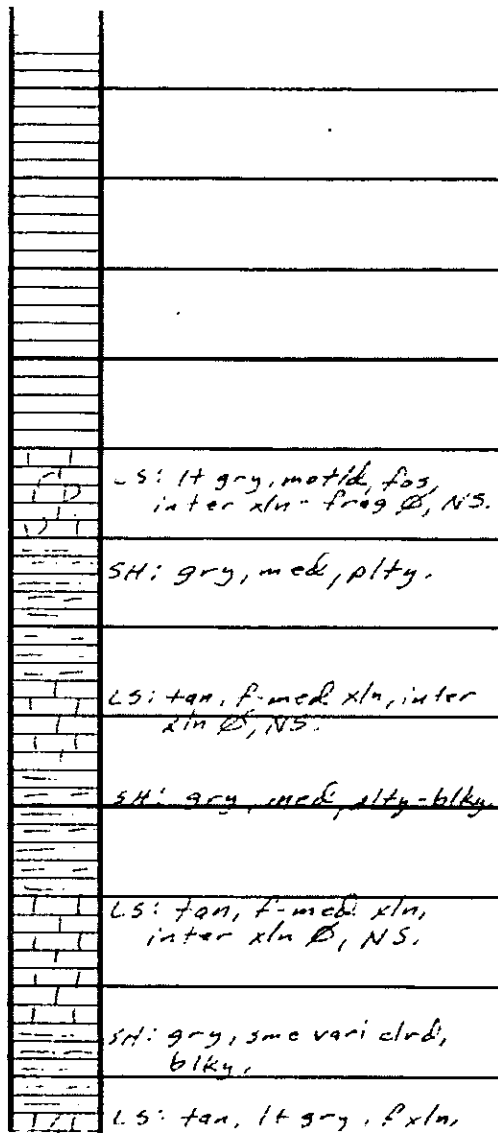
40

50

60

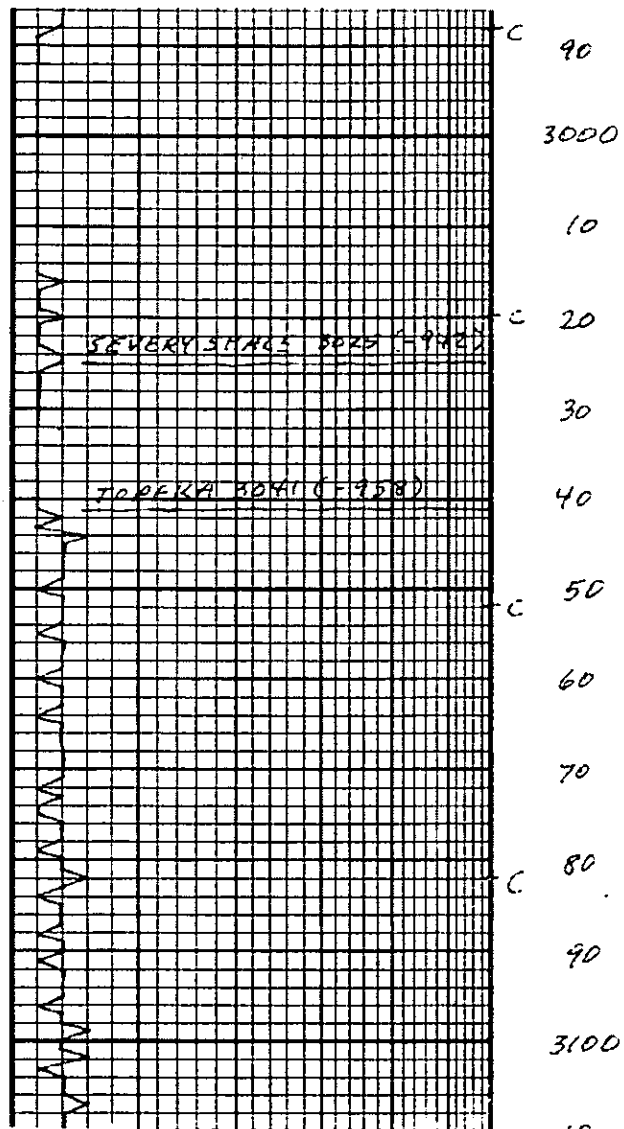
70

80



- start 10' w/d
samples

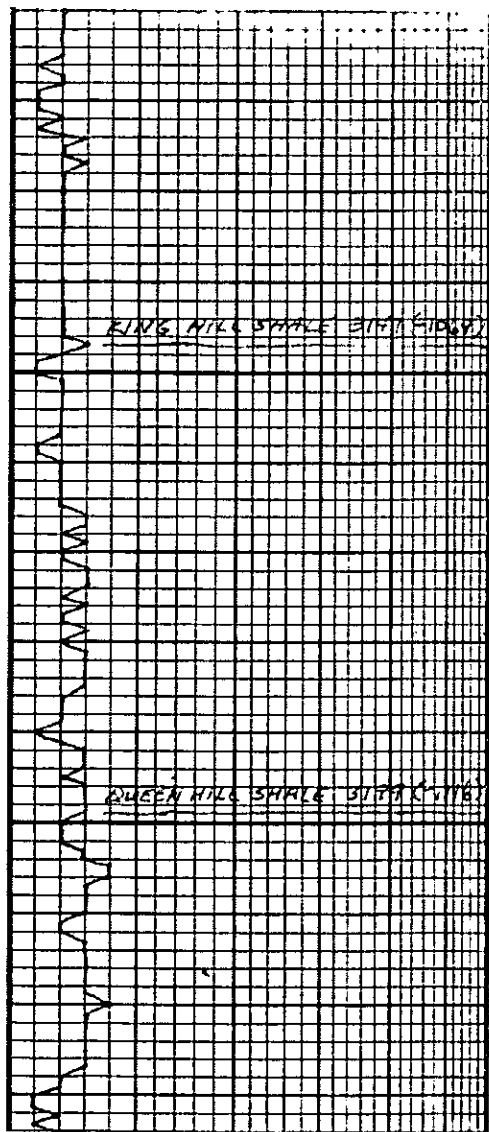
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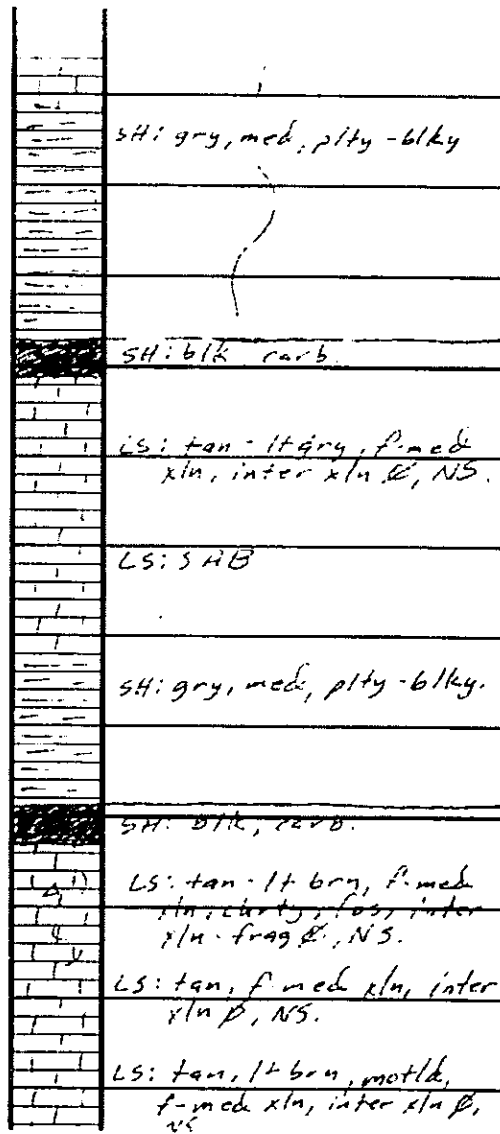
90	fos, inter xln \emptyset , NS.
3000	SH: gry, f, plty.
10	
20	
30	SH: gry, med, plty.
40	
50	LS: tan - lt gry, f-med xln, inter xln \emptyset , NS.
60	LS: tan, lt gry, f-med xln, pos. inter xln - frag \emptyset , NS.
70	LS: tan, f-med xln, inter xln \emptyset , NS.
80	LS: lt tan - tan, f-med xln, inter xln \emptyset , sme pp \emptyset . SSPD, vsi: okar. IF SPTg STR.
90	SH: gry, med, plty.
3100	LS: tan, med xln, pos, inter xln - frag \emptyset , NS.

VIS 69
WT 8.8

7

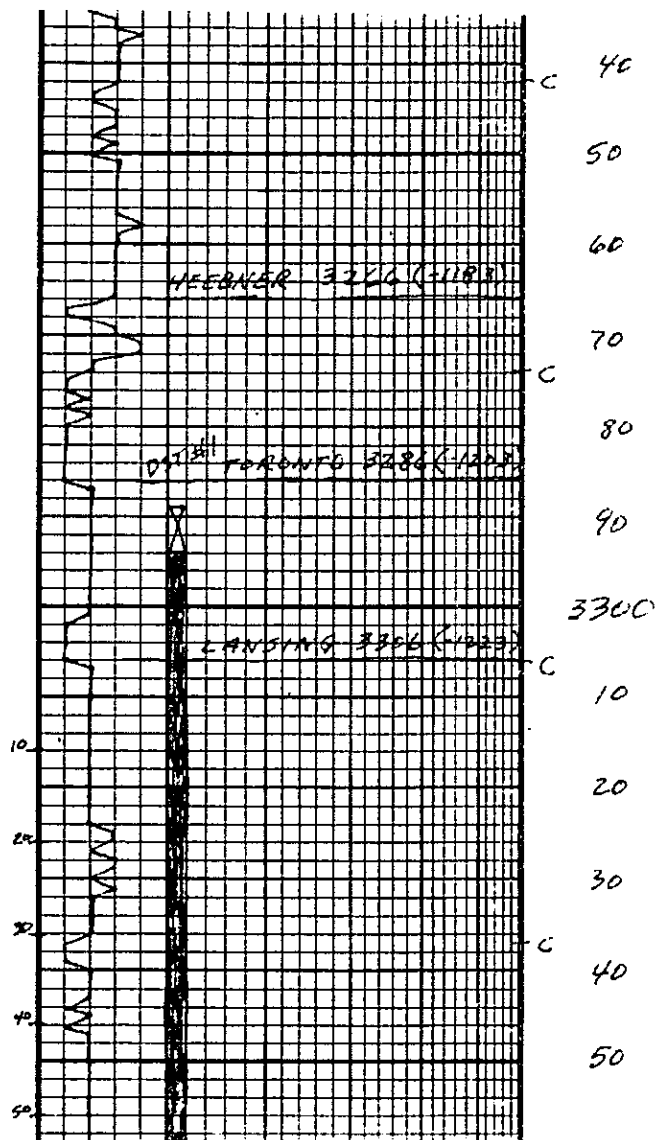


20
30
40
50
60
70
80
90
3200
10
20
30



vis 60
wt 9.0

00

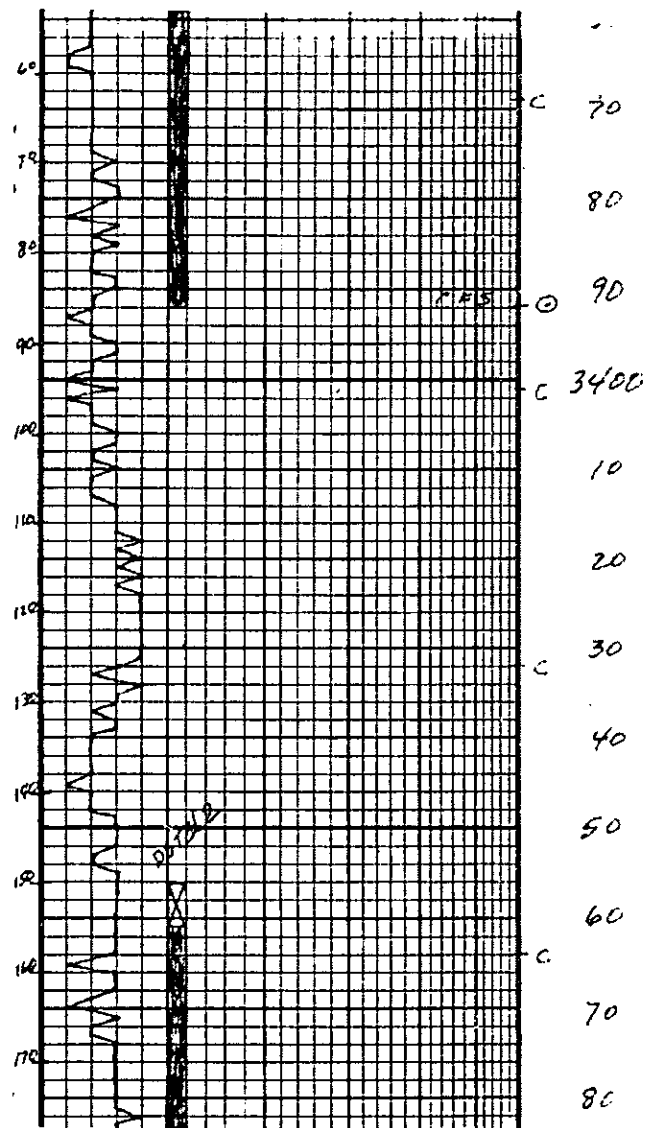


40	
50	Ls: tan-lt gry, f-med xln, inter xln \emptyset , NS.
60	
70	SH: blk, carb.
	SH: gry, med, pty.
80	
90	Ls: tan-lt brn-wt, f-med xln, inter xln \emptyset , SSFO, lt spty str. NO odor
3300	
10	Ls: tan-lt brn, f-med xln, sl. cherty, smc pp \emptyset , inter xln-pp \emptyset , SSFO, VSD, lt uneven str.
20	
30	Ls: tan, f-med xln, inter xln \emptyset , NS.
	SH: gry, f, med, pty-blky.
40	
50	Ls: lt tan-tan, f-med xln, ool, inter xln-ool \emptyset , SSFO, sl. odor, lt spty str.
	SH: gry, med, pty.

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



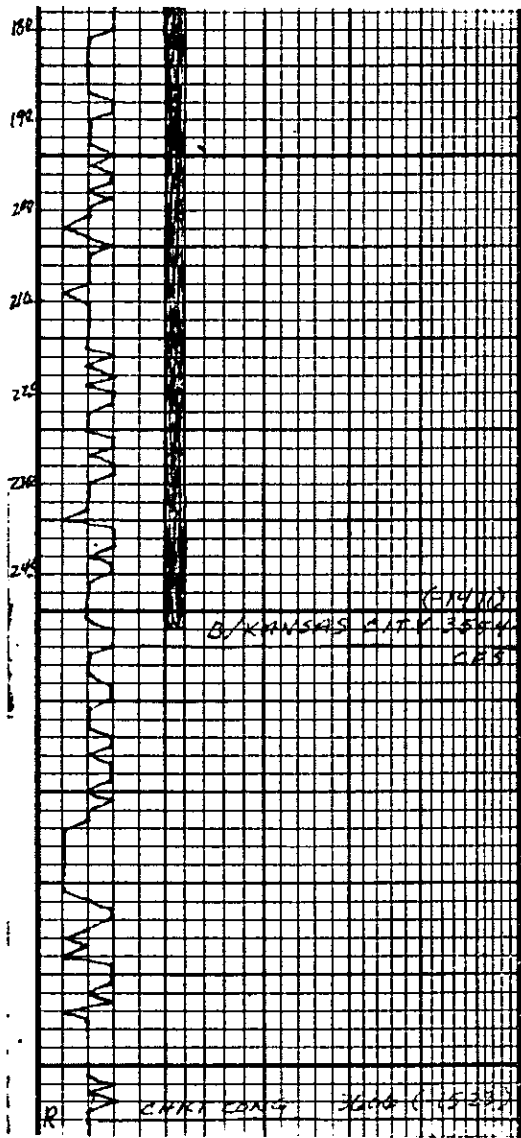
60-70	LS: tan - lt brn, f-med xln, ool, pseudo ool, inter xln-ool f.
70-80	
80-90	SH: blk, carb.
90-100	LS: tan - lt brn, f-med xln, inter xln \emptyset , sme pp \emptyset , dms ip, PSFU, odor??, lt spty str. SH: gry, med, pty-blky.
100-110	LS: tan, f-med xln, ool-oomade \emptyset inter xln-ool-oom \emptyset , NSFO, sli odor, no str.
110-120	LS: tan, f-med xln, inter xln-ool \emptyset , NS.
120-130	SH: gry, med, pty-blky.
130-140	
140-150	
150-160	LS: tan, f-med xln, inter xln \emptyset , NS SH: gry, med, blk.
160-170	LS: clr-wt - lt tan, f-med xln, GSFU, sli odor, lt-drk spty str.

REC: 106 VSOCM

VIS 52
wt 9.1

10

VIS 47

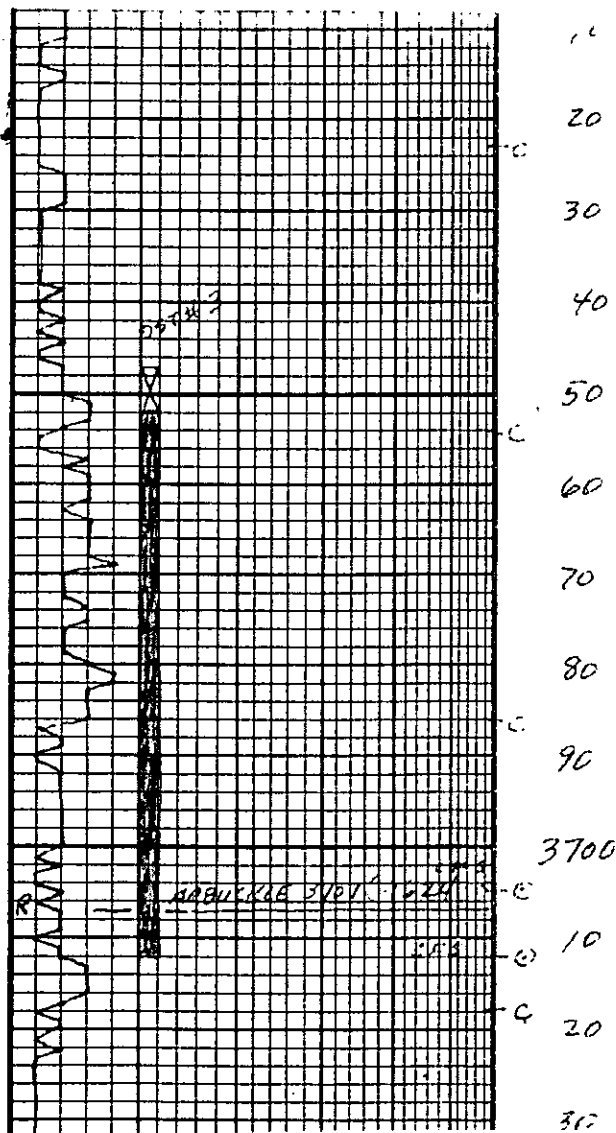


90	SH: grey, med, pty-blky.
3500	LS: tan-lt brn, f-med xln, inter xln B, ESEW, NO, lt even str.
10	SH: blk, carb
	SH: vari clrd, pty-blky.
20	
30	LS: tan-lt brn, f-med xln sli ool, inter xln - ool B, SSEW, sli ool, lt-xrk even str.
40	SH: blk, carb.
50	LS: tan, f-med xln, inter xln B, NS.
60	SH: gry, med, pty-blky.
70	SH: gry, vari clrd sme reddish brn, pty-spty blky.
80	LS: tan, med xln, mat'd, NS.
90	LS: wt-lt purple-pinkish, med xln, inter xln B, sme mat'd, NS.
3606	

wt 9.3
 DST #2
 3461-3552
 30-45-30-45
 FP: 63-70
 SIP: 1135-1126
 REC: 20' MUD E
 DIL SPOTS

 VIS 60
 wt 9.4
 LCM 1 1/2 #

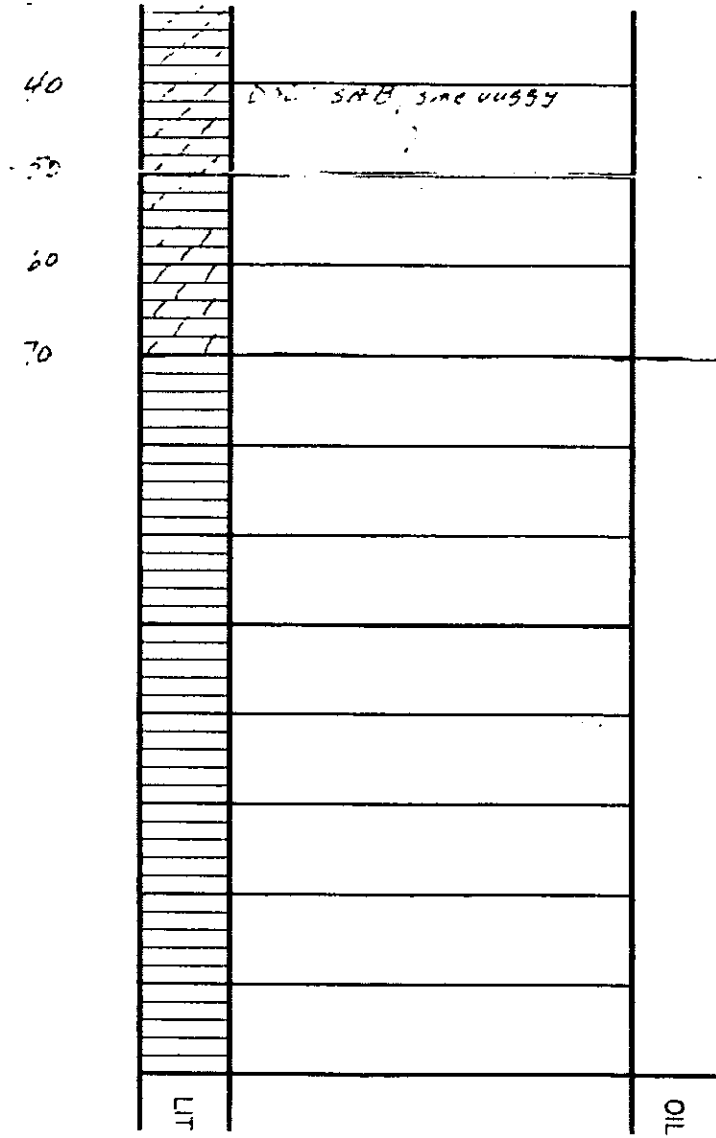
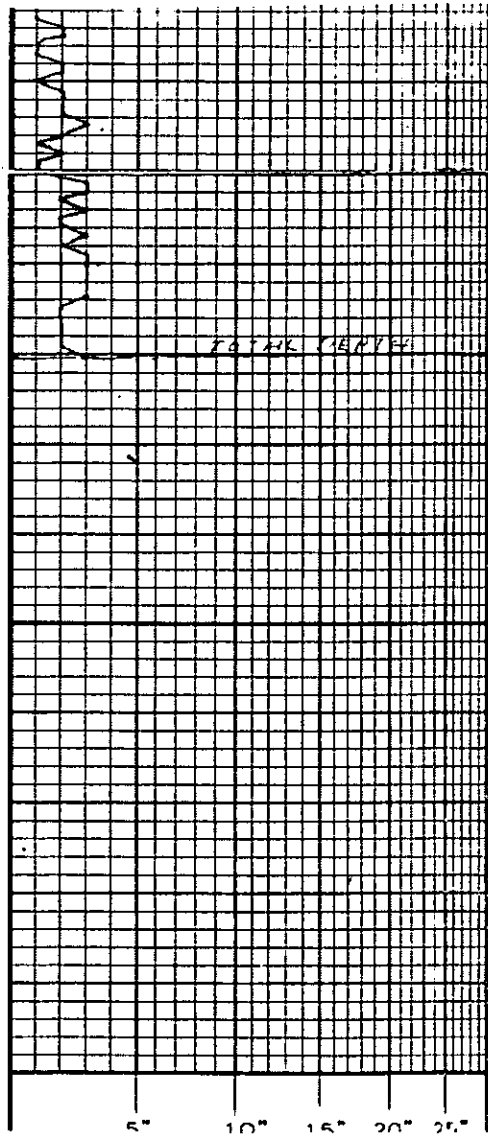
11



10	LS: tan, some wt, NS
20	CHRT: SAB, lt-drk spaty, even str.
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, sme olive grn,
80	
90	SH: SAB
	SS: clr, rnd-subrbk, mod sort, fri, calc, sme glauc xls, sme ferr xls, NS.
3700	SH: lt-drk blu-grn, med, flky-pty.
10	DOL: tan, f-med xls, suc, dus ip, inter xln p, sandy, G, SFD, v. sh odor, drk spaty str.
20	DOL: tan, f-med xls, suc, inter xln p, NSFD, v. sh odor, no str.
30	DOL: SAB, sme chrt

VIS 59
 WT 4.3
 DST # 3
 3652 - 3712
 30-45-30-45
 FP: 452-729
 SIP: 1193-1195
 REC: 136' WMM w/
 oil spots
 189' Wtry mud
 1260' Muddy Wtr.

12



13