

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Le Norman Energy Corp.**

PO Box 1024
Duncan, OK 73534

ATTN: Le Norman Energy Corp

15-~~35~~4s-31w Seward,KS

Black #2-15

Start Date: 2002.04.17 @ 13:06:28
End Date: 2002.04.17 @ 23:00:27
Job Ticket #: 15088 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

Le Norman Energy Corp.

PO Box 1024
Duncan, OK 73534

ATTN: Le Norman Energy CorpOK 73534

Black #2-15

15-35s-31w Seward,KS

Job Ticket: 15088 **DST#: 1**

Test Start: 2002.04.17 @ 13:06:28

GENERAL INFORMATION:

Formation: **cherokee lime**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:18:27
Time Test Ended: 23:00:27

Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 15

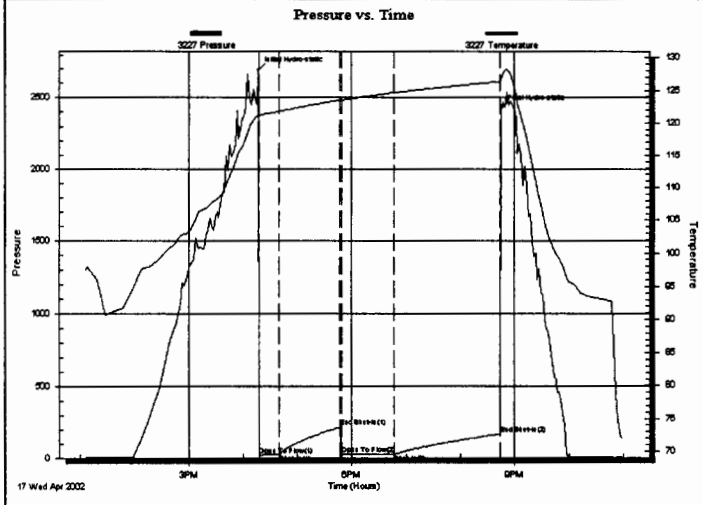
Interval: 5360.00 ft (KB) To 5381.00 ft (KB) (TVD)
Total Depth: 5381.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2493.00 ft (KB)
2482.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 3227 **Inside**
Press@RunDepth: 24.91 psig @ 5365.00 ft (KB)
Start Date: 2002.04.17 End Date: 2002.04.17
Start Time: 13:06:28 End Time: 23:00:27

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2002.04.17 @ 16:17:27
Time Off Btm: 2002.04.17 @ 20:45:27

TEST COMMENT: 1/2"in. @ open built to 5"in.
No return
3"in @ open built to 5"in.
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2691.43	121.21	Initial Hydro-static
1	20.56	121.06	Open To Flow (1)
23	25.97	121.78	Shut-In(1)
90	216.89	123.50	End Shut-In(1)
92	22.68	123.50	Open To Flow (2)
149	24.91	124.62	Shut-In(2)
267	167.34	126.31	End Shut-In(2)
268	2425.89	126.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	drilling mud 100% mud	0.20

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Le Norman Energy Corp.

PO Box 1024
Duncan, OK 73534

ATTN: Le Norman Energy CorpOK 73534

Black #2-15

15-35s-31w Seward,KS

Job Ticket: 15088 **DST#: 1**

Test Start: 2002.04.17 @ 13:06:28

Tool Information

Drill Pipe:	Length:	4723.00 ft	Diameter:	3.80 inches	Volume:	66.25 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length:	635.00 ft	Diameter:	2.25 inches	Volume:	3.12 bbl	Weight to Pull Loose:	125000.0 lb
					Total Volume:	69.37 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		21.00 ft					String Weight: Initial	105000.0 lb
Depth to Top Packer:		5360.00 ft					Final	106000.0 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		25.00 ft						
Tool Length:		48.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			5338.00		
S.I. Tool	5.00			5343.00		
HMV	5.00			5348.00		
Jars	5.00			5353.00		
Safety Joint	2.00			5355.00		
Packer	5.00			5360.00	23.00	Bottom Of Top Packer
shale packer	4.00			5364.00		
Stubb	1.00			5365.00		
Recorder	0.00	3227	Inside	5365.00		
Perforations	15.00			5380.00		
Recorder	0.00	11057	Outside	5380.00		
Bullnose	5.00			5385.00	25.00	Anchor Tool
Total Tool Length:	**48.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Le Norman Energy Corp.

PO Box 1024
Duncan, OK 73534

ATTN: Le Norman Energy CorpOK 73534

Black #2-15

15-35s-31w Seward,KS

Job Ticket: 15088 **DST#: 1**

Test Start: 2002.04.17 @ 13:06:28

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:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.74 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3300.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

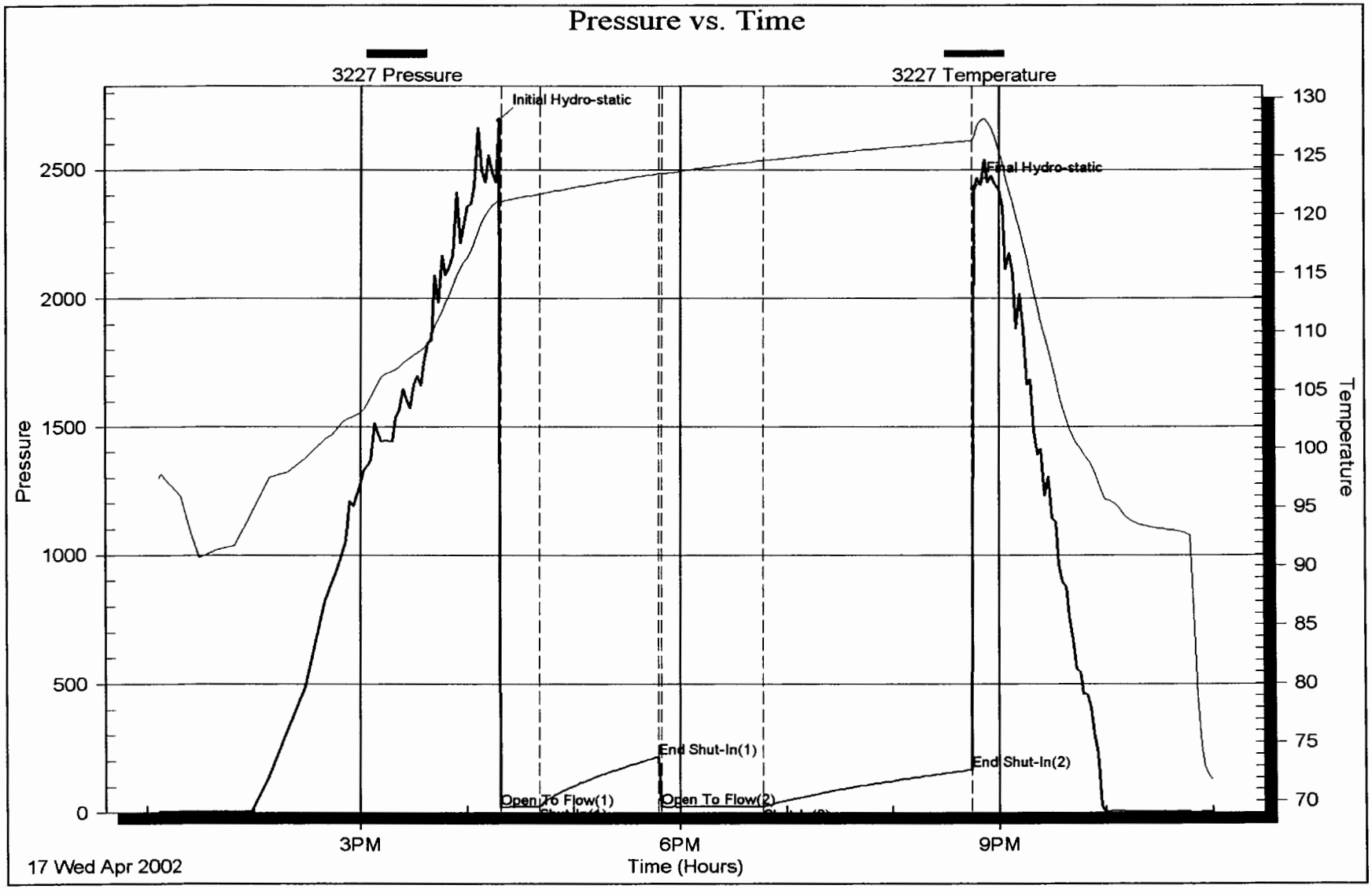
Length ft	Description	Volume bbl
40.00	drilling mud 100% mud	0.197

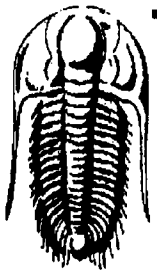
Total Length: 40.00 ft Total Volume: 0.197 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
3227 Pressure
3227 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Pressure
Temperature
2500
2000
1500
1000
500
0
130
125
120
115
110
105
100
95
90
85
80
75
70
3PM
6PM
9PM
17 Wed Apr 2002
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Le Norman Energy Corp.**

PO Box 1024
Duncan, OK 73534

ATTN: Le Norman Energy Corp

15-35s-31w Seward,KS

Black #2-15

Start Date: 2002.04.19 @ 04:13:44

End Date: 2002.04.19 @ 13:51:59

Job Ticket #: 14250 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

Le Norman Energy Corp.

PO Box 1024
Duncan, OK 73534

ATTN: Le Norman Energy CorpOK 73534

Black #2-15

15-35s-31w Seward,KS

Job Ticket: 14250 **DST#: 2**

Test Start: 2002.04.19 @ 04:13:44

GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:48:14
Time Test Ended: 13:51:59

Test Type: Conventional Bottom Hole
Tester: Wenrich
Unit No: 14

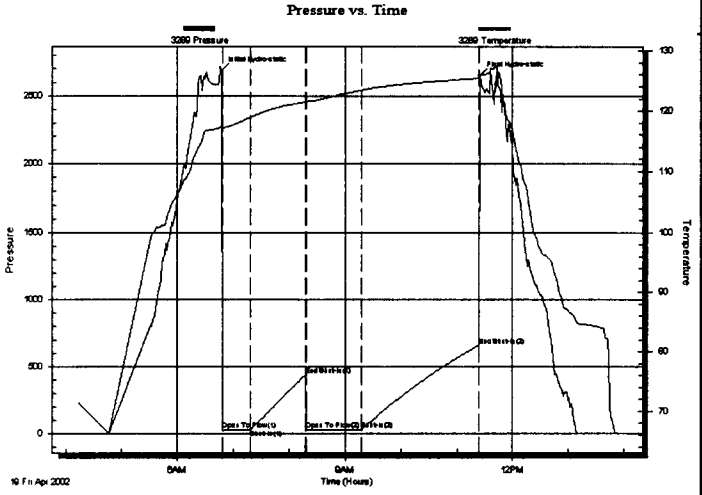
Interval: 5545.00 ft (KB) To 5621.00 ft (KB) (TVD)
Total Depth: 5621.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2493.00 ft (KB)
2482.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 3289 **Inside**
Press@RunDepth: 28.56 psig @ 5546.00 ft (KB)
Start Date: 2002.04.19 End Date: 2002.04.19
Start Time: 04:13:49 End Time: 13:51:59

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2002.04.19 @ 06:47:14
Time Off Btm: 2002.04.19 @ 11:24:29

TEST COMMENT: IF:Strong blow .B.O.B. in 17 min
ISI: No blow .
FF: Strong blow . B.O.B. Immediately
FSI: No blow ..



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2686.26	117.32	Initial Hydro-static
1	28.18	117.18	Open To Flow (1)
31	29.14	118.92	Shut-In(1)
91	437.38	121.42	End Shut-In(1)
91	30.95	121.52	Open To Flow (2)
151	28.56	123.40	Shut-In(2)
277	656.24	125.41	End Shut-In(2)
278	2651.41	125.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	m	0.15

Gas Rates

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

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DRILL STEM TEST REPORT

TOOL DIAGRAM

Le Norman Energy Corp.

PO Box 1024
Duncan, OK 73534

ATTN: Le Norman Energy CorpOK 73534

Black #2-15

15-35s-31w Seward,KS

Job Ticket: 14250 **DST#: 2**

Test Start: 2002.04.19 @ 04:13:44

Tool Information

Drill Pipe:	Length:	4907.00 ft	Diameter:	3.80 inches	Volume:	68.83 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	636.00 ft	Diameter:	2.25 inches	Volume:	3.13 bbl	
					Total Volume:	71.96 bbl	

Drill Pipe Above KB:	25.00 ft
Depth to Top Packer:	5545.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	76.00 ft
Tool Length:	103.00 ft
Number of Packers:	2
Diameter:	6.75 inches

Tool Weight:	2100.00 lb
Weight set on Packer:	20000.00 lb
Weight to Pull Loose:	140000.0 lb
Tool Chased	0.00 ft
String Weight: Initial	102000.0 lb
Final	104000.0 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			5519.00		
S.I. Tool	5.00			5524.00		
HMV	5.00			5529.00		
Jars	5.00			5534.00		
Safety Joint	2.00			5536.00		
Packer	4.00			5540.00	27.00	Bottom Of Top Packer
Packer	5.00			5545.00		
Stubb	1.00			5546.00		
Recorder	0.00	3289	Inside	5546.00		
Perforations	3.00			5549.00		
C.O. Sub	1.00			5550.00		
Blank Spacing	64.00			5614.00		
C.O. Sub	0.00			5614.00		
Perforations	5.00			5619.00		
Recorder	0.00	10242	Outside	5619.00		
Bullnose	2.00			5621.00	76.00	Bottom Packers & Anchor
Total Tool Length:	**103.00**					

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DRILL STEM TEST REPORT

FLUID SUMMARY

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Black #2-15

15-35s-31w Seward,KS

Job Ticket: 14250 **DST#: 2**

Test Start: 2002.04.19 @ 04:13:44

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:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.57 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3300.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

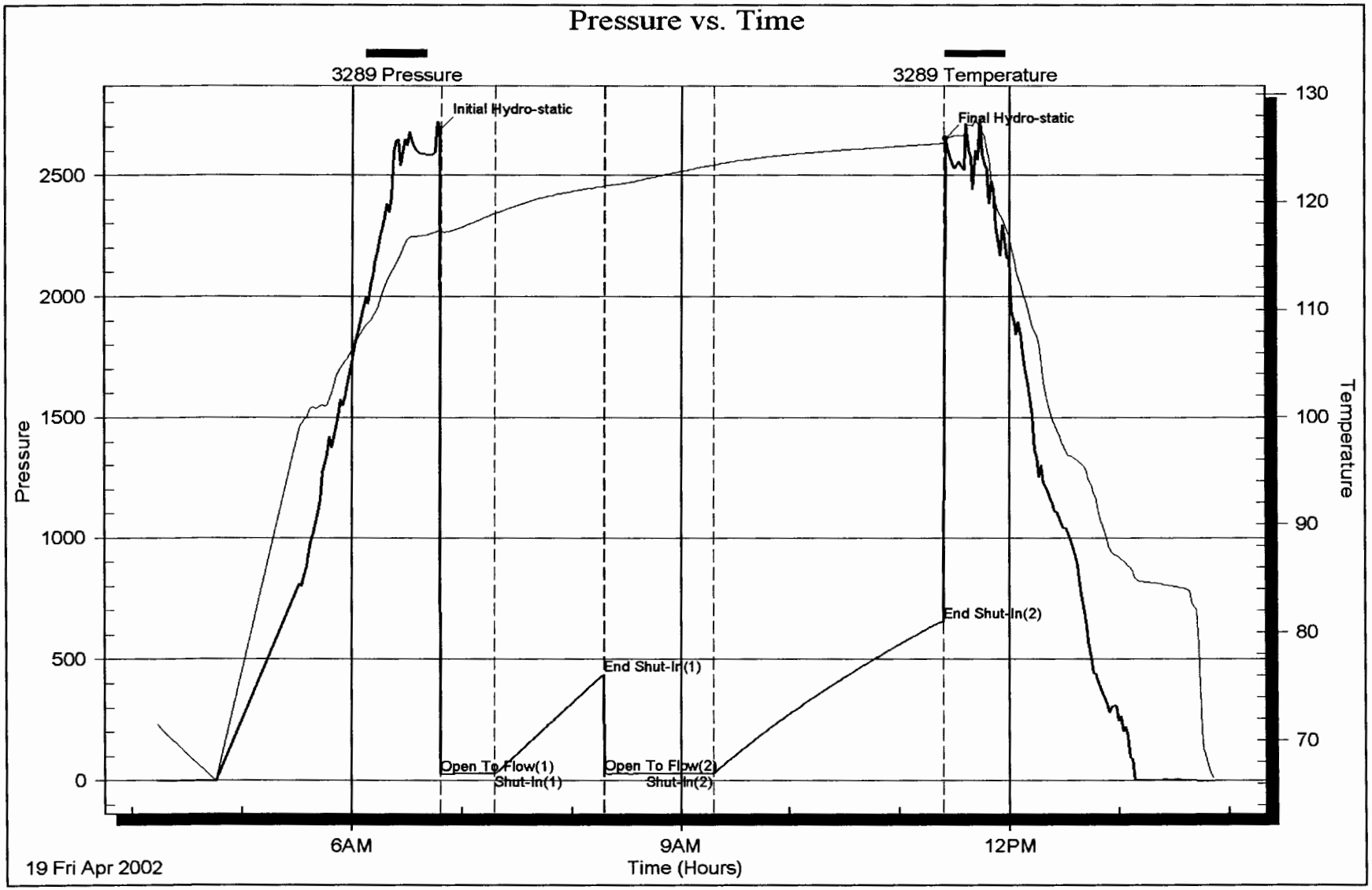
Length ft	Description	Volume bbl
30.00	m	0.148

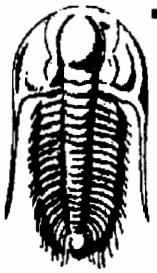
Total Length: 30.00 ft Total Volume: 0.148 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
3289 Pressure
3289 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(2)
End Shut-In(1)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
2500
2000
1500
1000
500
0
130
120
110
100
90
80
70
6AM
9AM
12PM
19 Fri Apr 2002
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Le Norman Energy Corp.**

PO Box 1024
Duncan, OK 73534

ATTN: Le Norman Energy Corp

15-35s-31w Seward,KS

Black #2-15

Start Date: 2002.04.20 @ 05:51:49
End Date: 2002.04.20 @ 15:06:48
Job Ticket #: 15089 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

Le Norman Energy Corp.

PO Box 1024
Duncan, OK 73534

ATTN: Le Norman Energy CorpOK 73534

Black #2-15

15-35s-31w Seward,KS

Job Ticket: 15089 **DST#: 3**

Test Start: 2002.04.20 @ 05:51:49

GENERAL INFORMATION:

Formation: **lower morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:28:48
Time Test Ended: 15:06:48

Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 15

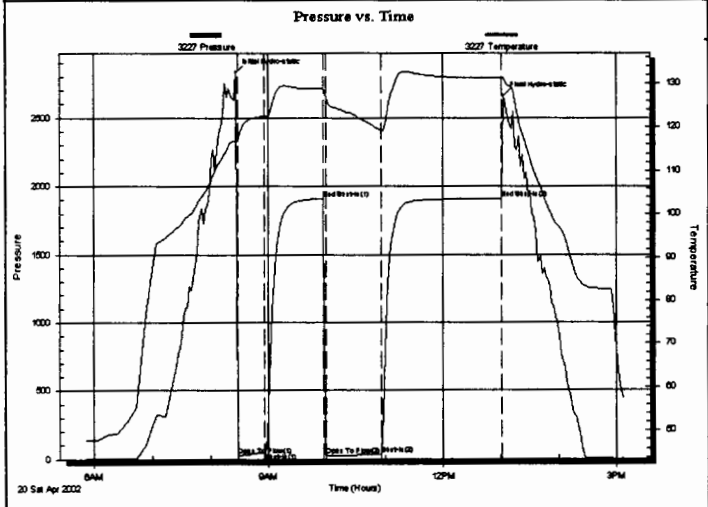
Interval: 5635.00 ft (KB) To 5668.00 ft (KB) (TVD)
Total Depth: 5668.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2493.00 ft (KB)
2482.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 3227 **Inside**
Press@RunDepth: 34.32 psig @ 5645.00 ft (KB)
Start Date: 2002.04.20 End Date: 2002.04.20
Start Time: 05:51:49 End Time: 15:06:48

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2002.04.20 @ 08:26:48
Time Off Btm: 2002.04.20 @ 13:02:48

TEST COMMENT: B.O.B. @ open G.T.S. in 30 min.
No return
Gauging gas @ open
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2828.84	116.77	Initial Hydro-static
2	27.49	116.89	Open To Flow (1)
29	48.80	122.49	Shut-In(1)
90	1911.39	128.89	End Shut-In(1)
93	27.25	126.67	Open To Flow (2)
150	34.32	119.15	Shut-In(2)
274	1911.67	131.40	End Shut-In(2)
276	2661.99	131.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	gas cut mud 25%g 75%m	0.15

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	3.00	117.38
Last Gas Rate	0.50	3.00	59.35
Max. Gas Rate	0.50	3.00	117.38

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Le Norman Energy Corp.

PO Box 1024
Duncan, OK 73534

ATTN: Le Norman Energy CorpOK 73534

Black #2-15

15-35s-31w Seward,KS

Job Ticket: 15089 **DST#: 3**

Test Start: 2002.04.20 @ 05:51:49

Tool Information

Drill Pipe:	Length:	4982.00 ft	Diameter:	3.80 inches	Volume:	69.88 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length:	635.00 ft	Diameter:	2.25 inches	Volume:	3.12 bbl	Weight to Pull Loose:	128000.0 lb
					Total Volume:	73.00 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		ft					String Weight: Initial	102000.0 lb
Depth to Top Packer:		ft					Final	102000.0 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		1000059. ft						
Tool Length:		60.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			5618.00		
S.I. Tool	5.00			5623.00		
HMV	5.00			5628.00		
Jars	5.00			5633.00		
Safety Joint	2.00			5635.00		
shale packer	5.00			5640.00		
shale packer	4.00			5644.00		
Stubb	1.00			5645.00		
Recorder	0.00	3227	Inside	5645.00		
Perforations	27.00			5672.00		
Recorder	0.00	11057	Outside	5672.00		
Bullnose	5.00			5677.00	60.00	Anchor Tool
Total Tool Length:	**60.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Le Norman Energy Corp.

PO Box 1024
Duncan, OK 73534

ATTN: Le Norman Energy CorpOK 73534

Black #2-15

15-35s-31w Seward,KS

Job Ticket: 15089 **DST#: 3**

Test Start: 2002.04.20 @ 05:51:49

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:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.75 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	gas cut mud 25%g 75%m	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Le Norman Energy Corp.

PO Box 1024
Duncan, OK 73534

ATTN: Le Norman Energy CorpOK 73534

Black #2-15

15-35s-31w Seward,KS

Job Ticket: 15089 **DST#: 3**

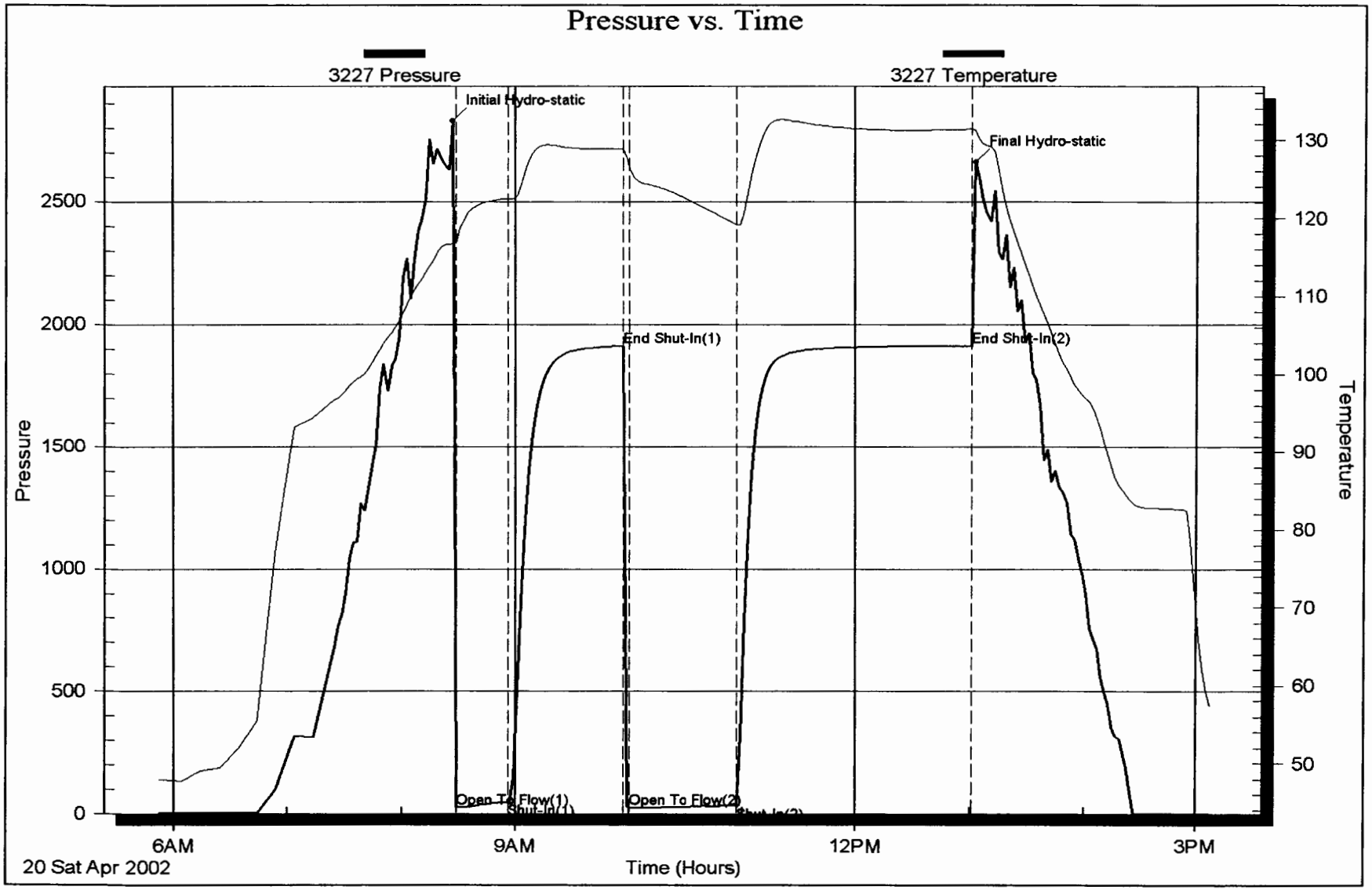
Test Start: 2002.04.20 @ 05:51:49

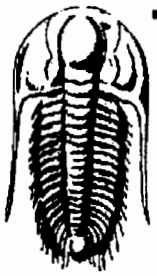
Gas Rates Information

Temperature: 73 deg C
Relative Density: 2.2
Z Factor: 0.9

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m^3/d)
2	10	0.50	3.00	117.38
2	10	0.50	3.00	59.35
2	20	0.50	3.00	59.35
2	30	0.50	3.00	59.35
2	40	0.50	3.00	59.35
2	50	0.50	3.00	59.35


Pressure vs. Time
3227 Pressure
3227 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Pressure
Temperature
2500
2000
1500
1000
500
0
130
120
110
100
90
80
70
60
50
6AM
9AM
12PM
3PM
20 Sat Apr 2002
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Le Norman Energy Corp.**

PO Box 1024
Duncan, OK 73534

ATTN: Le Norman Energy Corp

15-35s-31w Seward,KS

Black #2-15

Start Date: 2002.04.21 @ 15:24:51
End Date: 2002.04.22 @ 01:25:50
Job Ticket #: 15090 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

Le Norman Energy Corp.

PO Box 1024
Duncan, OK 73534

ATTN: Le Norman Energy CorpOK 73534

Black #2-15

15-35s-31w Seward,KS

Job Ticket: 15090 **DST#: 4**

Test Start: 2002.04.21 @ 15:24:51

GENERAL INFORMATION:

Formation: **chester lmst**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:38:50
Time Test Ended: 01:25:50

Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 15

Interval: 5693.00 ft (KB) To 5720.00 ft (KB) (TVD)
Total Depth: 5720.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

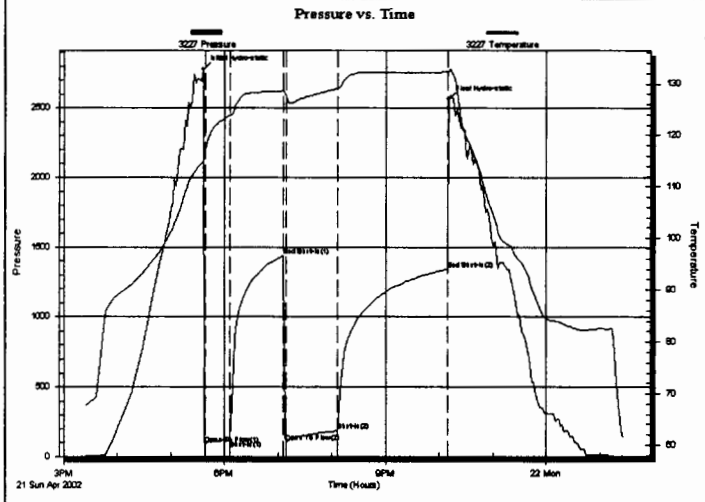
Reference Elevations: 2493.00 ft (KB)
2482.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 3227 **Inside**

Press@RunDepth: 184.02 psig @ 5701.00 ft (KB)
Start Date: 2002.04.21 End Date: 2002.04.22
Start Time: 15:24:51 End Time: 01:25:50

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2002.04.21 @ 17:35:50
Time Off Btm: 2002.04.21 @ 22:09:50

TEST COMMENT: B.O.B. in 1/2 min. gas to surface in 10min.
No return
Gauging gas @ open
Bled off for 17 min. return blow to B.O.B. in 9 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2778.49	114.89	Initial Hydro-static
3	90.07	117.05	Open To Flow (1)
30	115.75	123.83	Shut-In(1)
90	1436.59	128.54	End Shut-In(1)
93	104.61	127.51	Open To Flow (2)
150	184.02	128.99	Shut-In(2)
273	1341.18	132.25	End Shut-In(2)
274	2564.88	132.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
455.00	c g o 40%g 60%o	2.24
180.00	g m c o 30%g 45%m25%o	0.89

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Le Norman Energy Corp.

PO Box 1024
Duncan, OK 73534

ATTN: Le Norman Energy CorpOK 73534

Black #2-15

15-35s-31w Seward,KS

Job Ticket: 15090 **DST#: 4**

Test Start: 2002.04.21 @ 15:24:51

Tool Information

Drill Pipe:	Length:	5038.00 ft	Diameter:	3.80 inches	Volume:	70.67 bbl	Tool Weight:		1500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		30000.00 lb
Drill Collar:	Length:	635.00 ft	Diameter:	2.25 inches	Volume:	3.12 bbl	Weight to Pull Loose:		134000.0 lb
					Total Volume:	73.79 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		ft					String Weight:	Initial	104000.0 lb
Depth to Top Packer:		ft						Final	108000.0 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		1000053. ft							
Tool Length:		54.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			5674.00		
S.I. Tool	5.00			5679.00		
HMV	5.00			5684.00		
Jars	5.00			5689.00		
Safety Joint	2.00			5691.00		
shale packer	5.00			5696.00		
shale packer	4.00			5700.00		
Stubb	1.00			5701.00		
Recorder	0.00	3227	Inside	5701.00		
Perforations	21.00			5722.00		
Recorder	0.00	11057	Outside	5722.00		
Bullnose	5.00			5727.00	54.00	Anchor Tool
Total Tool Length:	**54.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Le Norman Energy Corp.

PO Box 1024
Duncan, OK 73534

ATTN: Le Norman Energy CorpOK 73534

Black #2-15

15-35s-31w Seward,KS

Job Ticket: 15090 **DST#: 4**

Test Start: 2002.04.21 @ 15:24:51

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.78 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2700.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

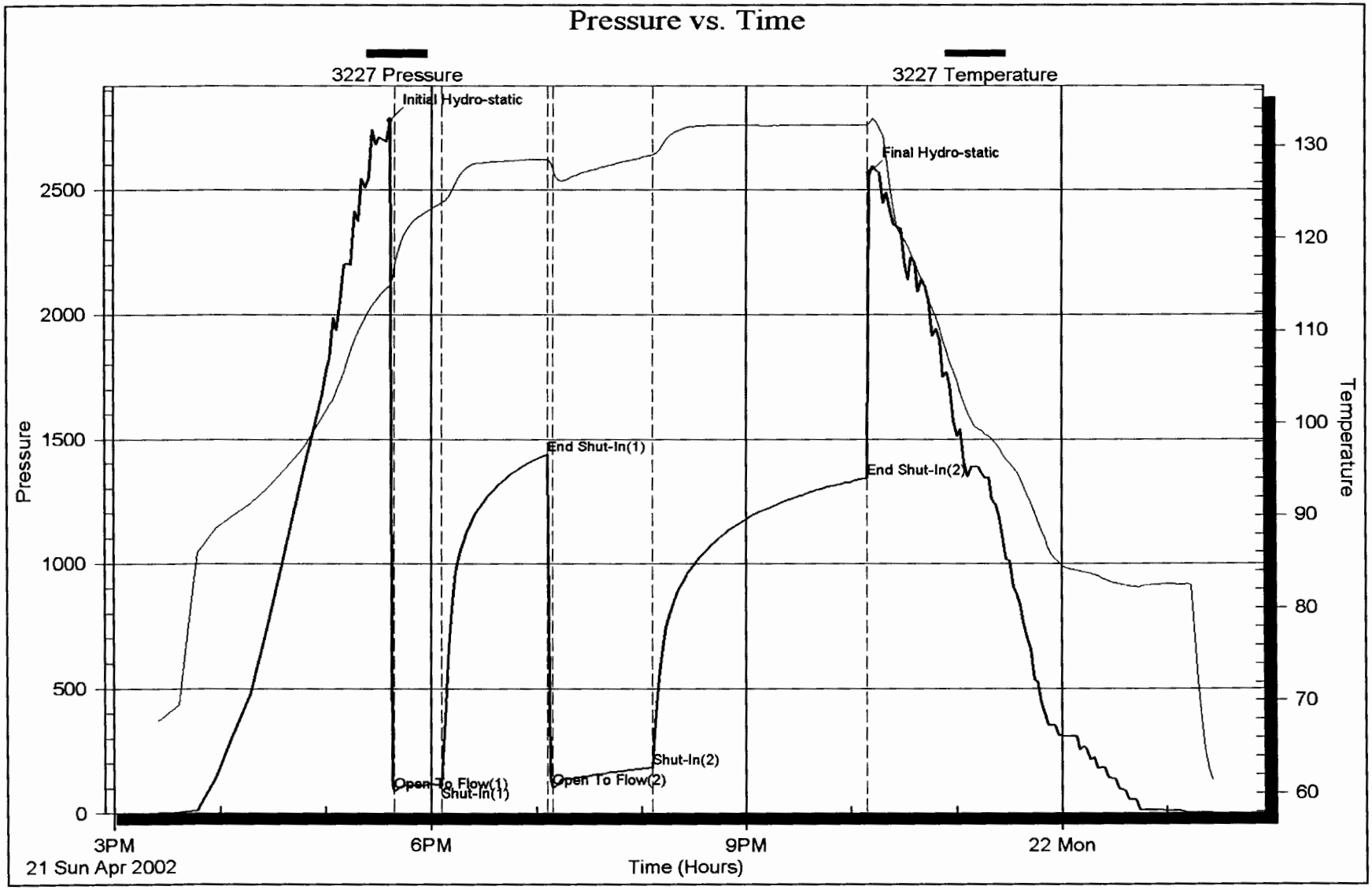
Length ft	Description	Volume bbl
455.00	c g o 40%g 60%o	2.238
180.00	g m c o 30%g 45%m25%o	0.885

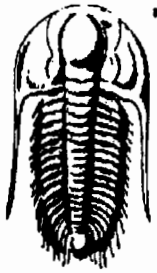
Total Length: 635.00 ft Total Volume: 3.123 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
3227 Pressure
3227 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Pressure
Temperature
2500
2000
1500
1000
500
0
130
120
110
100
90
80
70
60
3PM
21 Sun Apr 2002
6PM
9PM
22 Mon
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Le Norman Energy Corp.**

PO Box 1024
Duncan, OK 73534

ATTN: Le Norman Energy Corp

15-35s-31w Seward,KS

Black #2-15

Start Date: 2002.04.22 @ 23:59:57
End Date: 2002.04.23 @ 09:57:56
Job Ticket #: 15091 DST #: 5

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

Le Norman Energy Corp.

PO Box 1024
Duncan, OK 73534

ATTN: Le Norman Energy CorpOK 73534

Black #2-15

15-35s-31w Seward,KS

Job Ticket: 15091 **DST#: 5**

Test Start: 2002.04.22 @ 23:59:57

GENERAL INFORMATION:

Formation: **lower chester lmst**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:53:56
Time Test Ended: 09:57:56

Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 15

Interval: 5741.00 ft (KB) To 5841.00 ft (KB) (TVD)
Total Depth: 5841.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

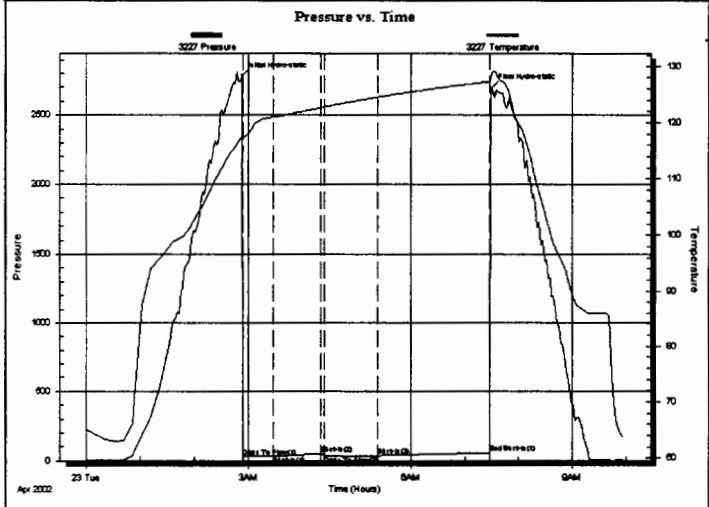
Reference Elevations: 2493.00 ft (KB)
2482.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 3227 **Inside**

Press@RunDepth: 33.28 psig @ 5804.00 ft (KB)
Start Date: 2002.04.22 End Date: 2002.04.23
Start Time: 23:59:57 End Time: 09:57:56

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2002.04.23 @ 02:52:56
Time Off Btm: 2002.04.23 @ 07:29:56

TEST COMMENT: 1 1/2"in. blow
No return
weak 1/2"in. blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2782.08	117.37	Initial Hydro-static
1	28.57	117.33	Open To Flow (1)
35	33.28	120.96	Shut-In(1)
87	45.15	122.63	Shut-In(2)
91	31.96	122.76	Open To Flow (2)
151	35.90	124.52	Shut-In(3)
275	55.27	127.32	End Shut-In(1)
277	2696.22	128.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	dilling mud 100%m	0.10

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Le Norman Energy Corp.

PO Box 1024
Duncan, OK 73534

ATTN: Le Norman Energy CorpOK 73534

Black #2-15

15-35s-31w Seward,KS

Job Ticket: 15091 **DST#: 5**

Test Start: 2002.04.22 @ 23:59:57

Tool Information

Drill Pipe:	Length:	5141.00 ft	Diameter:	3.80 inches	Volume:	72.11 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length:	635.00 ft	Diameter:	2.25 inches	Volume:	3.12 bbl	Weight to Pull Loose:	130000.0 lb
					Total Volume:	75.23 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		ft					String Weight: Initial	106000.0 lb
Depth to Top Packer:		ft					Final	106000.0 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		1000126. ft						
Tool Length:		127.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			5777.00		
S.I. Tool	5.00			5782.00		
HMV	5.00			5787.00		
Jars	5.00			5792.00		
Safety Joint	2.00			5794.00		
shale packer	5.00			5799.00		
shale packer	4.00			5803.00		
Stubb	1.00			5804.00		
Recorder	0.00	3227	Inside	5804.00		
Perforations	29.00			5833.00		
C.O. Sub	1.00			5834.00		
drillpipe	63.00			5897.00		
C.O. Sub	1.00			5898.00		
Recorder	0.00	11057	Outside	5898.00		
Bullnose	5.00			5903.00	127.00	Anchor Tool
Total Tool Length:	**127.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Le Norman Energy Corp.

PO Box 1024
Duncan, OK 73534

ATTN: Le Norman Energy CorpOK 73534

Black #2-15

15-35s-31w Seward,KS

Job Ticket: 15091 **DST#: 5**

Test Start: 2002.04.22 @ 23:59:57

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:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.79 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2900.00 ppm				
Filter Cake:	1.00 inches				

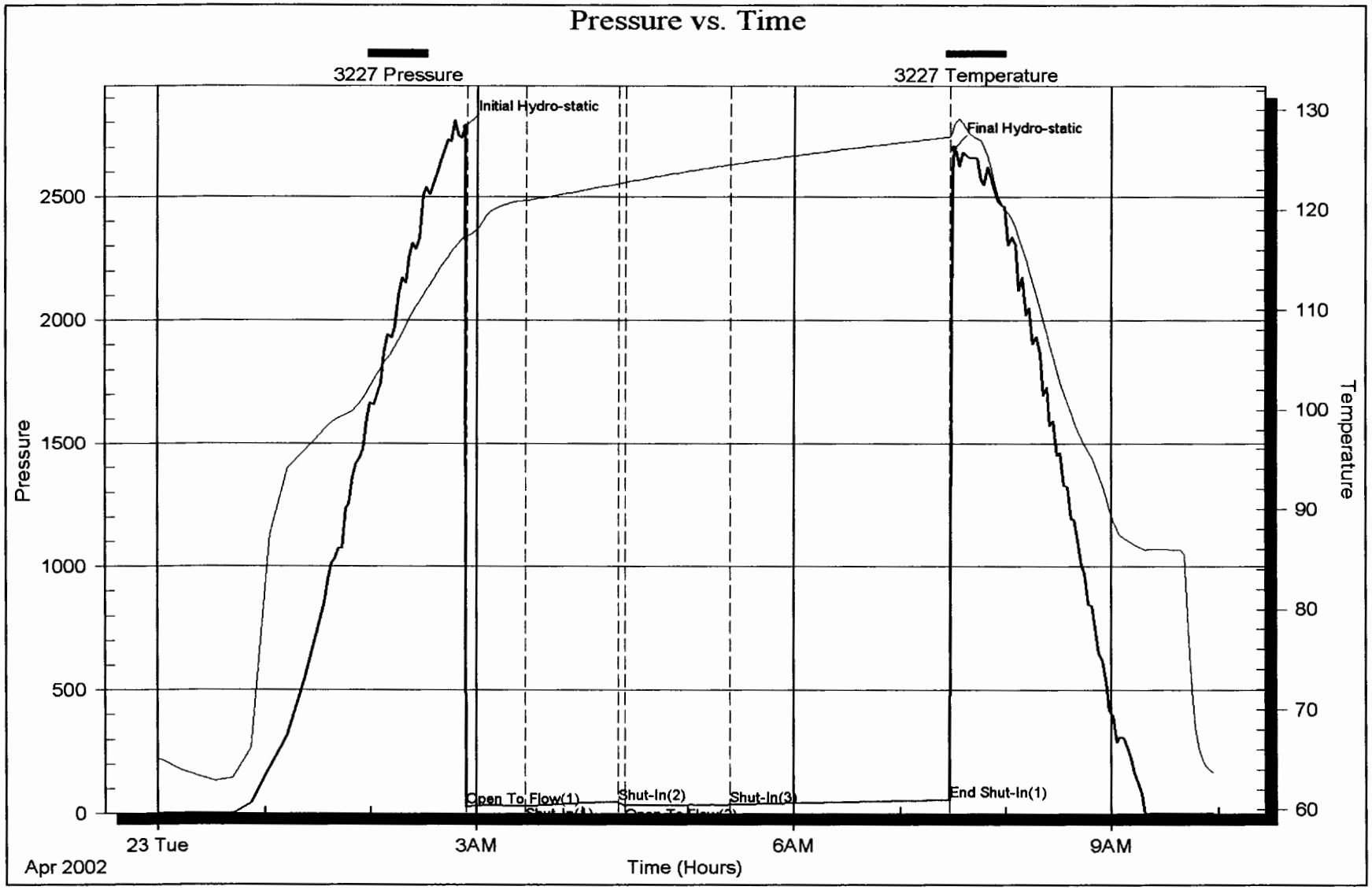
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	dilling mud 100%m	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
3227 Pressure
3227 Temperature
Initial Hydro-static
Final Hydro-static
Open To Flow(1)
Shut-In(2)
Shut-In(3)
End Shut-In(1)
Pressure
Temperature
2500
2000
1500
1000
500
0
130
120
110
100
90
80
70
60
23 Tue
Apr 2002
3AM
6AM
9AM
Time (Hours)

TRILOBITE TESTING INC.
P.O. Box 362 • Hays, Kansas 67601

№ 15088

Test Ticket

Well Name & No. Black #2-15 Test No. #1 Date 4-17-02
Company LeNorman Energy Corp. Zone Tested Cherokee lime
Address P.O. Box 1024 Duncan, OK 73534 Elevation 2493 KB 2482 GL
Co. Rep / Geo. Dale Lovely/Ed Grieves Cont. Cheyenne #12 Est. Ft. of Pay ___ Por. ___ %
Location: Sec. 15 Twp. 35 Rge. 32 Co. Seward State Ks
No. of Copies Norm. Distribution Sheet (Y, N) ___ Turnkey (Y, N) ___ Evaluation (Y, N) ___

Interval Tested 5360 5381
Anchor Length 21
Top Packer Depth 5355
Bottom Packer Depth Shale Packer 5360
Total Depth 5381
Mud Wt. 8.9 LCM #4 Vis. 51 WL 8.8
Blow Description 1/2" in @ open built to 5" in.
No return
3" in @ open built to 5" in.
No return

Initial Str Wt./Lbs. 105,000 Unseated Str Wt./Lbs. 106,000
Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 125,000
Tool Weight 1,500
Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓
Wt. Pipe Run — Drill Collar Run 6.35 x 2¼
Drill Pipe Size 4½ XH Ft. Run 4723'

Recovery — Total Feet 40' GIP 425 weak Ft. in DC 40 Ft. in DP —

Rec. 40'	Feet Of Drilling Mud	%gas Spots	%oil	%water 100	%mud
Rec.	Feet Of w/oil spots in tool	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud

BHT 126° °F Gravity — °API D@ — °F Corrected Gravity — °API
RW — @ — °F Chlorides — ppm Recovery Chlorides 3,300 ppm System

	AK-1	Alpine				
(A) Initital Hydrostatic Mud		2459	PSI	Recorder No.	3227	T-On Location 11:00 a.m.
(B) First Initial Flow Pressure		20	PSI	(depth)	5361'	T-Started 12:40 p.m
(C) First Final Flow Pressure		25	PSI	Recorder No.	11057	T-Open 15:45 p.m. 11:45
(D) Initial Shut-In Pressure		216	PSI	(depth)	5376'	T-Pulled 20:15 p.m.
(E) Second Initial Flow Pressure		22	PSI	Recorder No.		T-Out 22:45 p.m.
(F) Second Final Flow Pressure		24	PSI	(depth)		T-Off Location 23:45 p.m.
(G) Final Shut-in Pressure		167	PSI	Initial Opening	30	Test ✓ 900
(Q) Final Hydrostatic Mud		2425	PSI	Initial Shut-in	60	Jars ✓ 200
				Final Flow	60	Safety Joint ✓ 50
				Final Shut-in	120	Straddle
						Circ. Sub ✓ N/C
						Sampler 150
						Extra Packer ✓ 1 Shale Packer
						Elec. Rec. ✓ 150
						Mileage ✓ 50 ~~128~~ 1 way
						Other 2 hrs 60
						TOTAL PRICE $ 1560

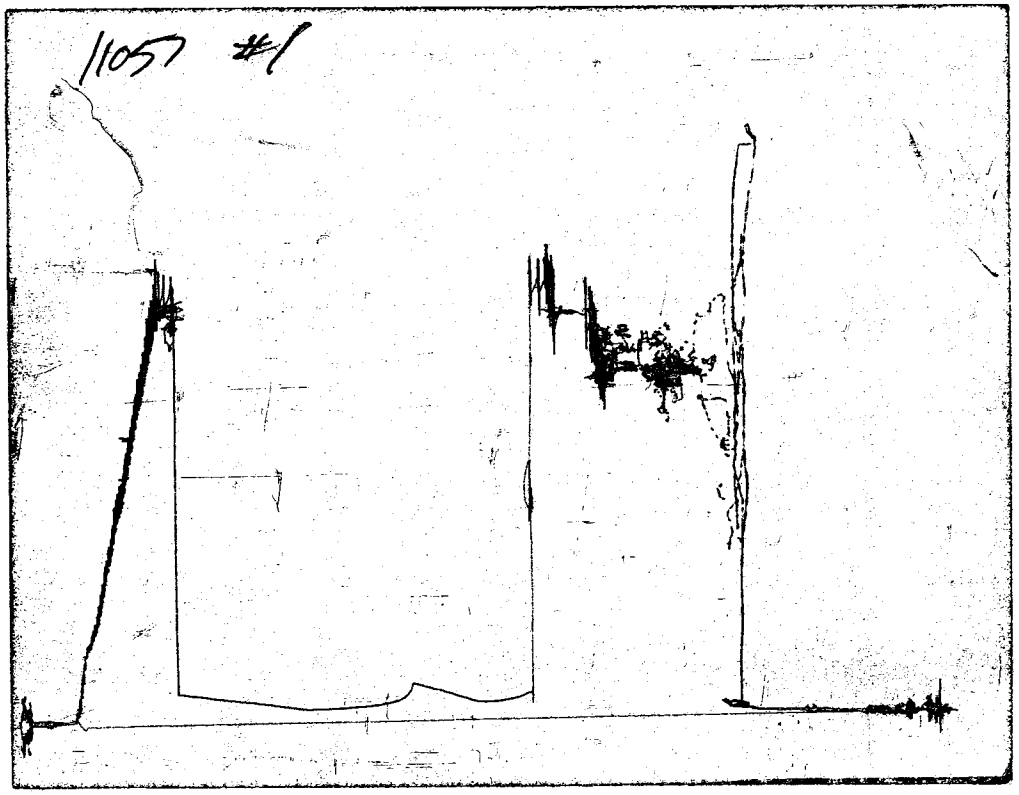
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Approved By Dale Lovely

Our Representative Shane McCord

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601 Nº 14250

Test Ticket

Well Name & No. BLACK 2-15 Test No. 2 Date 4/19/07

Company Le Norman Energy Corp Zone Tested Morrow

Address P.O. Box 1024 Duncan OK 73534 Elevation 2494 KB 2482 GL

Co. Rep / Geo. Dale Lovely Cont. Cheyenne Drlg #12 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 15 Twp. 34s Rge. 31w Co. SEWARD State Ks

No. of Copies 5 Distribution Sheet (Y, N) ~ Turnkey (Y, N) ~ Evaluation (Y, N) ~

Interval Tested 5545 - 5621 Initial Str Wt./Lbs. 102,000 Unseated Str Wt./Lbs. 104,000

Anchor Length 76 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 140,000

Top Packer Depth 5540 Tool Weight 2100

Bottom Packer Depth 5545 Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓

Total Depth 5621 Wt. Pipe Run 0 Drill Collar Run 636

Mud Wt. 9.0 LCM 4# Vis. 53 WL 9.6 Drill Pipe Size 4½ XH Ft. Run 4907

Blow Description IF: Strong blow. B.O.B. in 17 mins ISI: No blow.
FF: Strong blow. B.O.B. immediately. FSI: No blow.

Possible gas in pipe. Too faint to smell

Recovery — Total Feet 30 GIP ~ Ft. in DC 30 Ft. in DP 0

Rec. 30	Feet Of M	%gas	%oil	%water 100	%mud	
Rec.	Feet Of	%gas	%oil	%water	%mud	
Rec.	Feet Of	%gas	%oil	%water	%mud	
Rec.	Feet Of	%gas	%oil	%water	%mud	
Rec.	Feet Of	%gas	%oil	%water	%mud	

BHT 125 °F Gravity ___ °API D@ ___ °F Corrected Gravity ___ °API

RW ___ @ ___ °F Chlorides ___ ppm Recovery Chlorides 3300 ppm System

	AK-1	Alpine					
(A) Initial Hydrostatic Mud		2694	PSI	Recorder No.	3982	T-On Location	0310
(B) First Initial Flow Pressure		36	PSI	(depth)	5546	T-Started	0413 10:20
(C) First Final Flow Pressure		31	PSI	Recorder No.	10242	T-Open	0644
(D) Initial Shut-In Pressure		437	PSI	(depth)	5619	T-Pulled	~~1330~~ 1114
(E) Second Initial Flow Pressure		31	PSI	Recorder No.		T-Out	1330
(F) Second Final Flow Pressure		29	PSI	(depth)		T-Off Location	
(G) Final Shut-in Pressure		656	PSI	Initial Opening	30	Test	✓ 900
(Q) Final Hydrostatic Mud		2651	PSI	Initial Shut-in	60	Jars	✓ 200
				Final Flow	60	Safety Joint	50
				Final Shut-in	120	Straddle	
						Circ. Sub	
						Sampler	
						Extra Packer	✓ 150
						Elec. Rec.	✓ 150
						Mileage	50
						Other	
						TOTAL PRICE $	1500

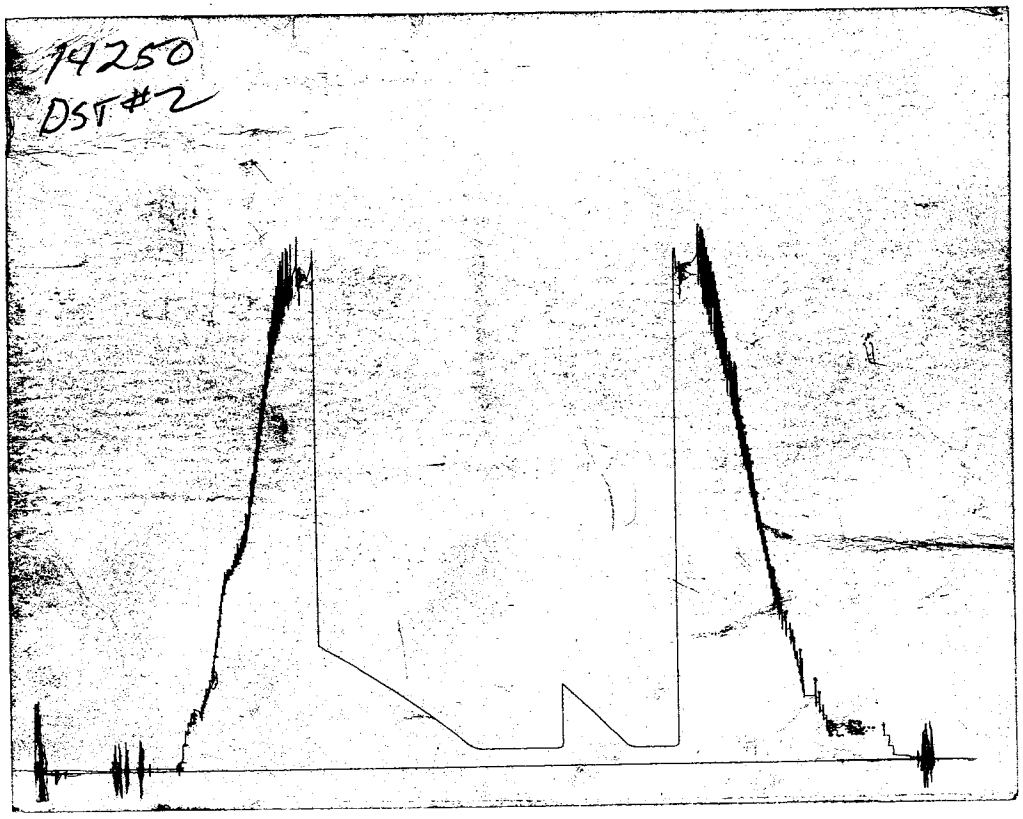
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Approved By Dale D Lovely

Our Representative Jim Weir

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

№ 15089

Test Ticket

Well Name & No. Black #2-15 Test No. #3 Date 4-20-02

Company Le Norman Energy Corp. Zone Tested Lower morrow

Address P.O. Box 1024 Duncan, OK 73534 Elevation 2493 KB 2482 GL

Co. Rep / Geo Dale Lowry / Ed Grieves Cont. Cheyenne #12 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 15 Twp. 35 Rge. 32 Co. Seward State Ks

No. of Copies Norm Distribution Sheet (Y, N) ___ Turnkey (Y, N) ___ Evaluation (Y, N) ___

Interval Tested 5635 5668 Initial Str Wt./Lbs. 102,000 Unseated Str Wt./Lbs. 102,000

Anchor Length 33 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 128,000

Top Packer Depth 5630 Tool Weight 1,500

Bottom Packer Depth 5635 Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓

Total Depth 5668 Wt. Pipe Run — Drill Collar Run 6 35 XH

Mud Wt. 9.0 LCM ___ Vis. 51 WL 8.8 Drill Pipe Size 4 1/2 XH Ft. Run 4982'

Blow Description B.O.B @ open G.T.S. in 30 min
No return
Gauging Gas @ open
No return

Recovery — Total Feet 30 GIP G.T.S. Ft. in DC 30 Ft. in DP —

Rec. 30 Feet Of Gas cut Mud 25 %gas %oil %water 75 %mud

Rec. ___ Feet Of ___ %gas %oil %water %mud

Rec. ___ Feet Of ___ %gas %oil %water %mud

Rec. ___ Feet Of ___ %gas %oil %water %mud

Rec. ___ Feet Of ___ %gas %oil %water %mud

BHT 131° °F Gravity — °API D@ — °F Corrected Gravity — °API

RW — @ — °F Chlorides — ppm Recovery Chlorides ___ ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud		2673	PSI	Recorder No.	3227	T-On Location 04:30 a.m.
(B) First Initial Flow Pressure		27	PSI	(depth)	5636'	T-Started 05:45 A.M.
(C) First Final Flow Pressure		48	PSI	Recorder No.	11057	T-Open 08:00 A.M. 10:27
(D) Initial Shut-In Pressure		1911	PSI	(depth)	5663'	T-Pulled 12:30 P.M.
(E) Second Initial Flow Pressure		27	PSI	Recorder No.		T-Out 14:15? A.M.
(F) Second Final Flow Pressure		34	PSI	(depth)		T-Off Location 16:00
(G) Final Shut-in Pressure		1911	PSI	Initial Opening	30	Test 900
(Q) Final Hydrostatic Mud		2661	PSI	Initial Shut-in	60	Jars x 200
				Final Flow	60	Safety Joint x 50
				Final Shut-in	120	Straddle ___
						Circ. Sub x n/c
						Sampler ___ 300
						Extra Packer x 2 Shale Packers
						Elec. Rec. x 150
						Mileage x 50 ~~128~~ 1 way
						Other ___
						TOTAL PRICE $ 1650

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Approved By Dale Lowry

Our Representative [signature]

TRILOBITE TESTING

P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

GAS VOLUME REPORT

LeNorman Energy Corp — OPERATOR

Black # 2-15 — WELL NAME AND NO.

#3 — DST NO.

2nd Flow

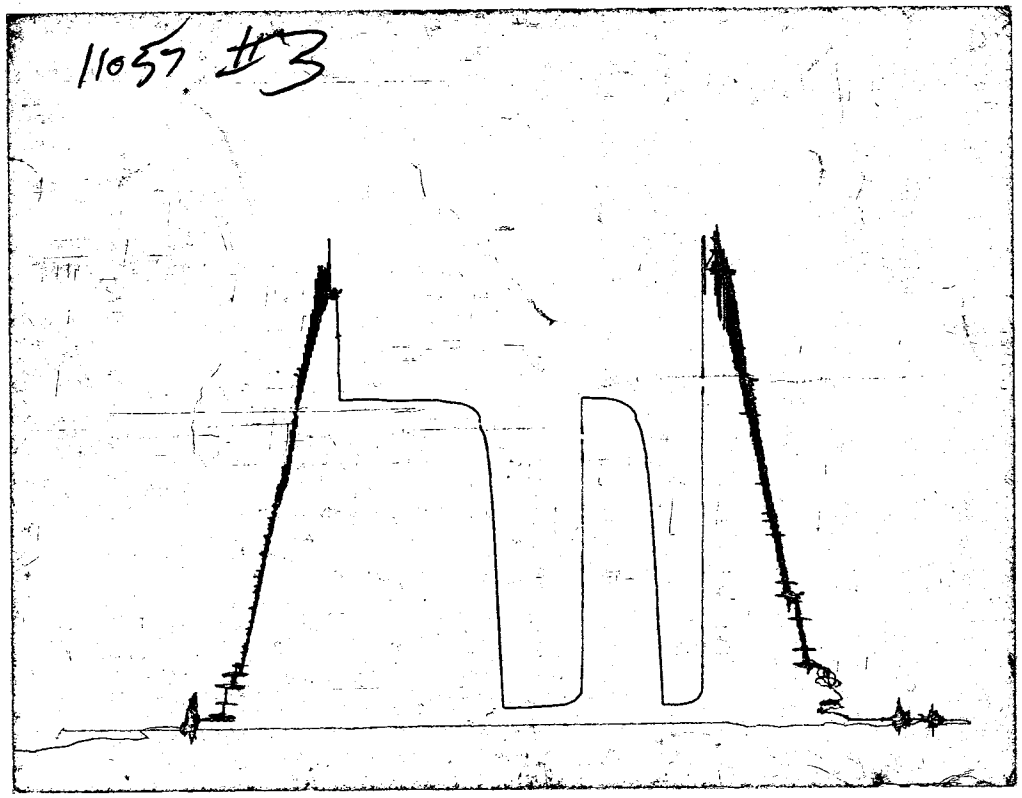
Min.	Ins. of Water PSIG	Orifice Size	MCF/D	Min.	~~Ins. of Water~~ PSIG	Orifice Size	MCF/D
				10	3	1/2	59.2
				20	3	1/2	59.2
				30	3	1/2	59.2
				40	3	1/2	59.2
				50	3	1/2	59.2
				60	3	1/2	59.2

Remarks: Gas to Surface in 30 min
Burnt Bright Orange
1 Sample sent to Caraway, Liberal, Ks

1 NCR

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

№ 15090

Test Ticket

Well Name & No. Black #2-15 Test No. #4 Date 4-21-02

Company Le Norman Energy Corp. Zone Tested Chester Lm St

Address P.O. Box 1024 Duncan, OK 73534 Elevation 2493 KB 2482 GL

Co. Rep / Geo Dale Lovely / Ed Grieves Cont. Cheyenne #12 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 15 Twp. 35 Rge. 32 Co. Seward State Ks

No. of Copies Norm Distribution Sheet (Y, N) ___ Turnkey (Y, N) ___ Evaluation (Y, N) ___

Interval Tested 5693 5720

Anchor Length 27

Top Packer Depth 5688

Bottom Packer Depth 5693

Total Depth 5720

Mud Wt. 8.9 LCM #8 Vis. 50 WL 6.8

Initial Str Wt./Lbs. 104,000 Unseated Str Wt./Lbs. 106,000

Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 135,000

Tool Weight 1,500

Hole Size — 7 7/8" V Rubber Size — 6 3/4" V

Wt. Pipe Run — Drill Collar Run 635

Drill Pipe Size 4 1/2 XH Ft. Run ___

Blow Description B.O.B 1/2 min, G.T.S in 10 min.
No return
Gauging GAS @ open
Bleed off 17min return to B.O.B in 9min.

Recovery — Total Feet 635' GIP G.T.S Ft. in DC 635 Ft. in DP —

Rec. 455	Feet Of C90	40 %gas	60 %oil	%water	%mud
Rec. 180	Feet Of gym co	30 %gas	25 %oil	%water 45	%mud
Rec. ___	Feet Of ___	%gas	%oil	%water	%mud
Rec. ___	Feet Of ___	%gas	%oil	%water	%mud
Rec. ___	Feet Of ___	%gas	%oil	%water	%mud

BHT 132° °F Gravity 37 °API D@ 60° °F Corrected Gravity 37 °API

RW — @ — °F Chlorides — ppm Recovery Chlorides 2700 ppm System

	AK-1	Alpine			
(A) Initital Hydrostatic Mud		2778	PSI	Recorder No.	3227
(B) First Initial Flow Pressure		90	PSI	(depth)	5694'
(C) First Final Flow Pressure		115	PSI	Recorder No.	11057
(D) Initial Shut-In Pressure		1436	PSI	(depth)	5715'
(E) Second Initial Flow Pressure		104	PSI	Recorder No.	
(F) Second Final Flow Pressure		184	PSI	(depth)	
(G) Final Shut-in Pressure		1341	PSI	Initial Opening	30
(Q) Final Hydrostatic Mud		2595	PSI	Initial Shut-in	60
				Final Flow	60
				Final Shut-in	120

T-On Location 12:50 p.m.
T-Started 15:10 P.m.
T-Open 17:05 p.m 12:30
T-Pulled 21:35 p.m.
T-Out 01:20 A.m.
T-Off Location 02:15 A.m.

Test X 900
Jars X 200
Safety Joint X 50
Straddle ___
Circ. Sub X n/c
Sampler ___ 250
Extra Packer X 2 Shale Packers 300
Elec. Rec. X 150
Mileage ~~50~~ 428 1 way
Other 2.5 75
TOTAL PRICE $ 1975

Ruined 1 Shale Packer

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Approved By Edward Grieves

Our Representative Dale McLovely

TRILOBITE TESTING

P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

GAS VOLUME REPORT

Le Norman Energy Corp. (OPERATOR) Black #2-15 (WELL NAME AND NO.) #4 (DST NO.)

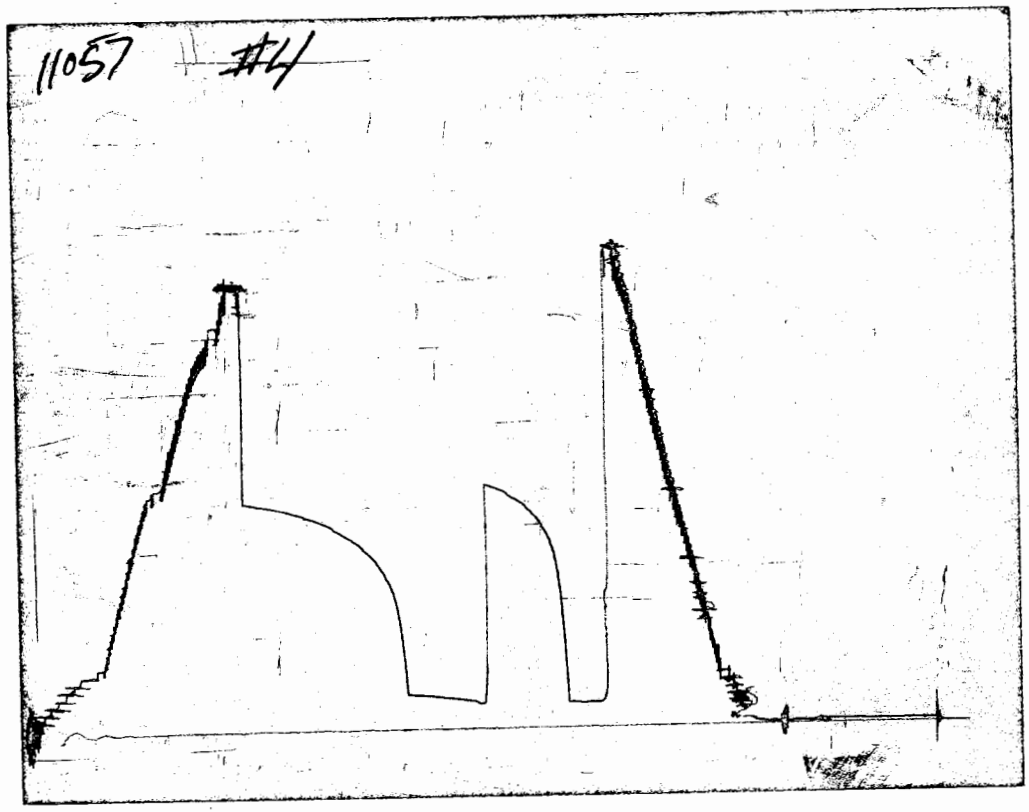
1st Min.	Ins. of Water PSIG	Orifice Size	MCF/D	2nd Min.	Ins. of Water PSIG	Orifice Size	MCF/D
10	4.5	1/2	73.6	5	4	1/2	68.8
20	4	1/2	68.8	10	3	1/2	59.2
30	3	1/2	59.2	20	3	1/2	59.2
				30	2	1/2	47.7
				40	1.5	1/2	41
				50	1	1/2	33.9
				60	1	1/2	33.9

Remarks: G.T.S. in 10 min
Burnt Bright Orange
1 sample sent to Caraway, Liberal, Ks

01 NCR

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

№ 15091

Test Ticket

Well Name & No. Black #2-15 Test No. #5 Date 4-23-02

Company Le Norman Energy Corp. Zone Tested Lower Chester Lmst

Address P.O. Box 1024, Duncan, OK 73534 Elevation 2493 KB 2482 GL

Co. Rep / Geo Dale Lovely / Ed Grieves Cont. Cheyenne #12 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 15 Twp. 35 Rge. 32 Co. Seward State Ks

No. of Copies Norm Distribution Sheet (Y, N) ___ Turnkey (Y, N) ___ Evaluation (Y, N) ___

Interval Tested 5741 5841

Anchor Length 100

Top Packer Depth 5736

Bottom Packer Depth 5741

Total Depth 5841

Mud Wt. 8.9 LCM #7 Vis. 51 WL 6.8

Initial Str Wt./Lbs. 106,000 Unseated Str Wt./Lbs. 106,000

Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 130,000

Tool Weight 1,500

Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓

Wt. Pipe Run — Drill Collar Run 635

Drill Pipe Size 4½ XH Ft. Run 5141'

Blow Description 1½" in blow
No return
weak ½" in blow
No return

Recovery — Total Feet 20' GIP — Ft. in DC 20' Ft. in DP —

Rec. 20'	Feet Of Drilling Mud	%gas	%oil	%water	100	%mud
Rec.	Feet Of	%gas	%oil	%water		%mud
Rec.	Feet Of	%gas	%oil	%water		%mud
Rec.	Feet Of	%gas	%oil	%water		%mud
Rec.	Feet Of	%gas	%oil	%water		%mud

BHT 127° °F Gravity — °API D@ — °F Corrected Gravity — °API

RW — @ — °F Chlorides — ppm Recovery Chlorides 2900 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud		2782	PSI	Recorder No.	3227	T-On Location 23:00 P.m.
(B) First Initial Flow Pressure		28	PSI	(depth)	5742	T-Started 12:00 A.m.
(C) First Final Flow Pressure		33	PSI	Recorder No.	11057	T-Open 02:25 A.m.
(D) Initial Shut-In Pressure		45	PSI	(depth)	5836	T-Pulled 06:55 A.m. 11:10
(E) Second Initial Flow Pressure		31	PSI	Recorder No.		T-Out 10:10 A.m.
(F) Second Final Flow Pressure		35	PSI	(depth)		T-Off Location 11:30 A.m.
(G) Final Shut-in Pressure		55	PSI	Initial Opening	30	Test X 900
(Q) Final Hydrostatic Mud		2696	PSI	Initial Shut-in	60	Jars X 200
				Final Flow	60	Safety Joint X 50
				Final Shut-in	120	Straddle
				Ruined Shut-in Data		Circ. Sub X n/c
						Sampler 250 300
						Extra Packer X 2 Lake Packers
						Elec. Rec. X 150
						Mileage X50 28 1 way
						Other 1 hr. 30
						TOTAL PRICE $ 1930

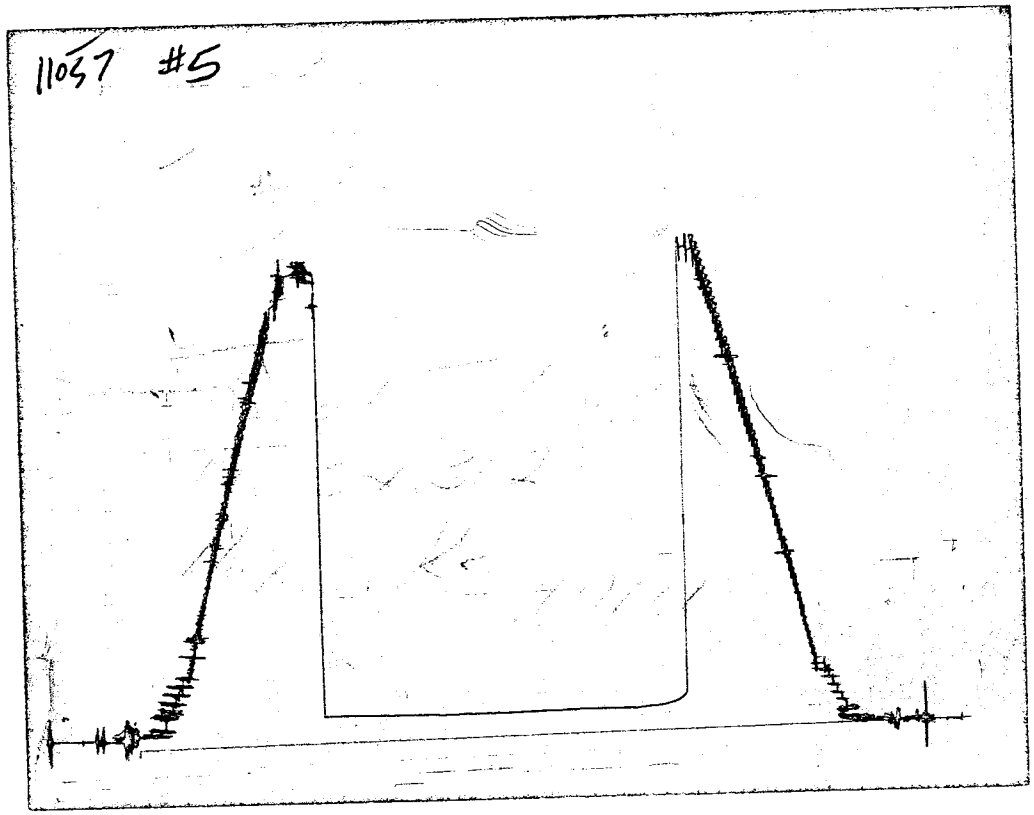
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Approved By Dale D Lovely

Our Representative Shane McBride

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart



NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, Inc.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 785-625-5620

Analyzed by:
Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 620-624-5389
Fax: 620-626-7108

Lab Number:	20021919	Analyzed:	04/26/02
Sample From:	Black 2-15 DST 3	Pressure:	
Producer:	Le Norman Energy	Temperature:	
Date:		Location:	15-35-32
Time:		County:	Seward
Sampler:		State:	Kansas
Source:		Formation:	L Morr

		Mole %	GPM
Helium	He:	0.125	0.000
Hydrogen	H2:	0.003	0.000
Oxygen	O2:	0.000	0.000
Nitrogen	N2:	3.120	0.000
Carbon Dioxide	CO2:	0.124	0.000
Methane	C1:	86.178	0.000
Ethane	C2:	5.440	1.455
Propane	C3:	3.021	0.832
Iso Butane	iC4:	0.402	0.132
Normal Butane	nC4:	0.803	0.253
Iso Pentane	iC5:	0.191	0.070
Normal Pentane	nC5:	0.206	0.075
Hexanes Plus	C6+:	0.387	0.169
	TOTAL:	100.000	2.985
	Z Fact:	0.9974	
	SP.GR.:	0.6606	
	BTU (SAT):	1103.7 @ 14.73 psia	
	BTU (DRY):	1123.2 @ 14.73 psia	
	OCTANE RATING:	122.0	

COMMENTS: 0.000

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Phone: 620-624-5389
Fax: 620-626-7108

Lab Number: 20021920 **Analyzed: 04/26/02**

Sample From: Black 2-15 DST 4
Producer: Le Norman Energy
Pressure:
Temperature:

Date: Location: 15-35-32

Time:
Sampler:
Source:
County: Seward
State: Kansas
Formation: Ches Lmst

		Mole %	GPM
Helium	He:	0.055	0.000
Hydrogen	H2:	0.005	0.000
Oxygen	O2:	0.000	0.000
Nitrogen	N2:	1.132	0.000
Carbon Dioxide	CO2:	0.229	0.000
Methane	C1:	72.799	0.000
Ethane	C2:	8.220	2.198
Propane	C3:	8.247	2.272
Iso Butane	iC4:	1.389	0.454
Normal Butane	nC4:	3.690	1.163
Iso Pentane	iC5:	1.013	0.371
Normal Pentane	nC5:	1.195	0.433
Hexanes Plus	C6+:	2.026	0.884
	TOTAL:	100.000	7.776

Z Fact: 0.9950
SP.GR.: 0.8554
BTU (SAT): 1431.4 @ 14.73 psia
BTU (DRY): 1456.7 @ 14.73 psia

OCTANE RATING: 117.7

COMMENTS: 0.000