



DRILL STEM TEST REPORT

Prepared For: **New Age Oil, LLC**

308 W. 38th St.
Hays, KS 67601

ATTN: Marc Downing

12-8-18 Rooks KS

Carrol Conyac #5

Start Date: 2010.11.18 @ 19:35:51

End Date: 2010.11.19 @ 02:48:51

Job Ticket #: 40999 DST #: 1

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

New Age Oil, LLC

Carrol Conyac #5

308 W. 38th St.
Hays, KS 67601

12-8-18 Rooks KS

Job Ticket: 40999

DST#: 1

ATTN: Marc Downing

Test Start: 2010.11.18 @ 19:35:51

GENERAL INFORMATION:

Formation: **LKC "C,D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:25:21

Time Test Ended: 02:48:51

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3108.00 ft (KB) To 3166.00 ft (KB) (TVD)

Reference Elevations: 1926.00 ft (KB)

Total Depth: 3166.00 ft (KB) (TVD)

1921.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8319 Inside

Press @ Run Depth: 27.65 psig @ 3115.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.11.18

End Date:

2010.11.19

Last Calib.: 2010.11.19

Start Time: 19:35:56

End Time:

02:48:50

Time On Btm: 2010.11.18 @ 23:24:21

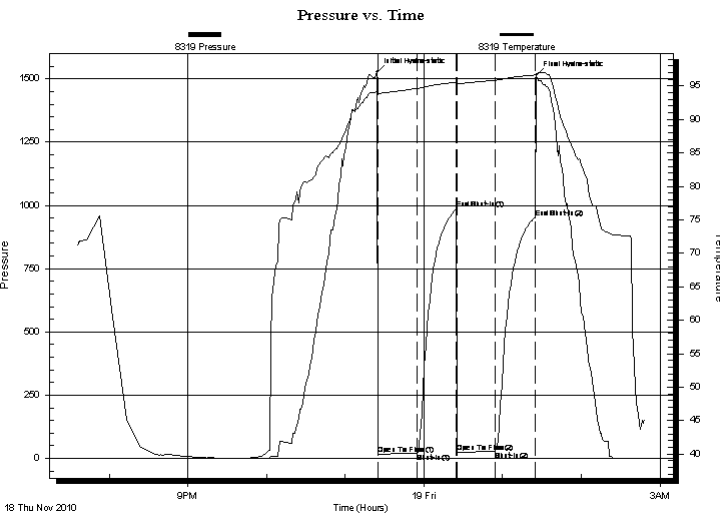
Time Off Btm: 2010.11.19 @ 01:25:51

TEST COMMENT: IF-Very weak surface blow

IS-No blow

FF-No blow

FS-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1525.66	94.18	Initial Hydro-static
1	15.61	93.87	Open To Flow (1)
31	20.77	94.62	Shut-In(1)
61	985.24	95.57	End Shut-In(1)
61	22.49	95.32	Open To Flow (2)
90	27.65	95.85	Shut-In(2)
121	952.70	96.64	End Shut-In(2)
122	1513.70	96.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Oil scum mud	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

New Age Oil, LLC

Carrol Conyac #5

308 W. 38th St.
Hays, KS 67601

12-8-18 Rooks KS

Job Ticket: 40999

DST#: 1

ATTN: Marc Downing

Test Start: 2010.11.18 @ 19:35:51

Tool Information

Drill Pipe:	Length: 2990.00 ft	Diameter: 3.80 inches	Volume: 41.94 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3108.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3089.00	
Shut In Tool	5.00			3094.00	
Hydraulic tool	5.00			3099.00	
Packer	4.00			3103.00	20.00 Bottom Of Top Packer
Packer	5.00			3108.00	
Stubb	1.00			3109.00	
Perforations	5.00			3114.00	
Change Over Sub	1.00			3115.00	
Recorder	0.00	8319	Inside	3115.00	
Recorder	0.00	6719	Inside	3115.00	
Blank Spacing	32.00			3147.00	
Change Over Sub	1.00			3148.00	
Perforations	15.00			3163.00	
Bullnose	3.00			3166.00	58.00 Bottom Packers & Anchor

Total Tool Length: 78.00



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FLUID SUMMARY

New Age Oil, LLC

Carrol Conyac #5

308 W. 38th St.
Hays, KS 67601

12-8-18 Rooks KS

Job Ticket: 40999

DST#: 1

ATTN: Marc Downing

Test Start: 2010.11.18 @ 19:35:51

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: 74.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Oil scum mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

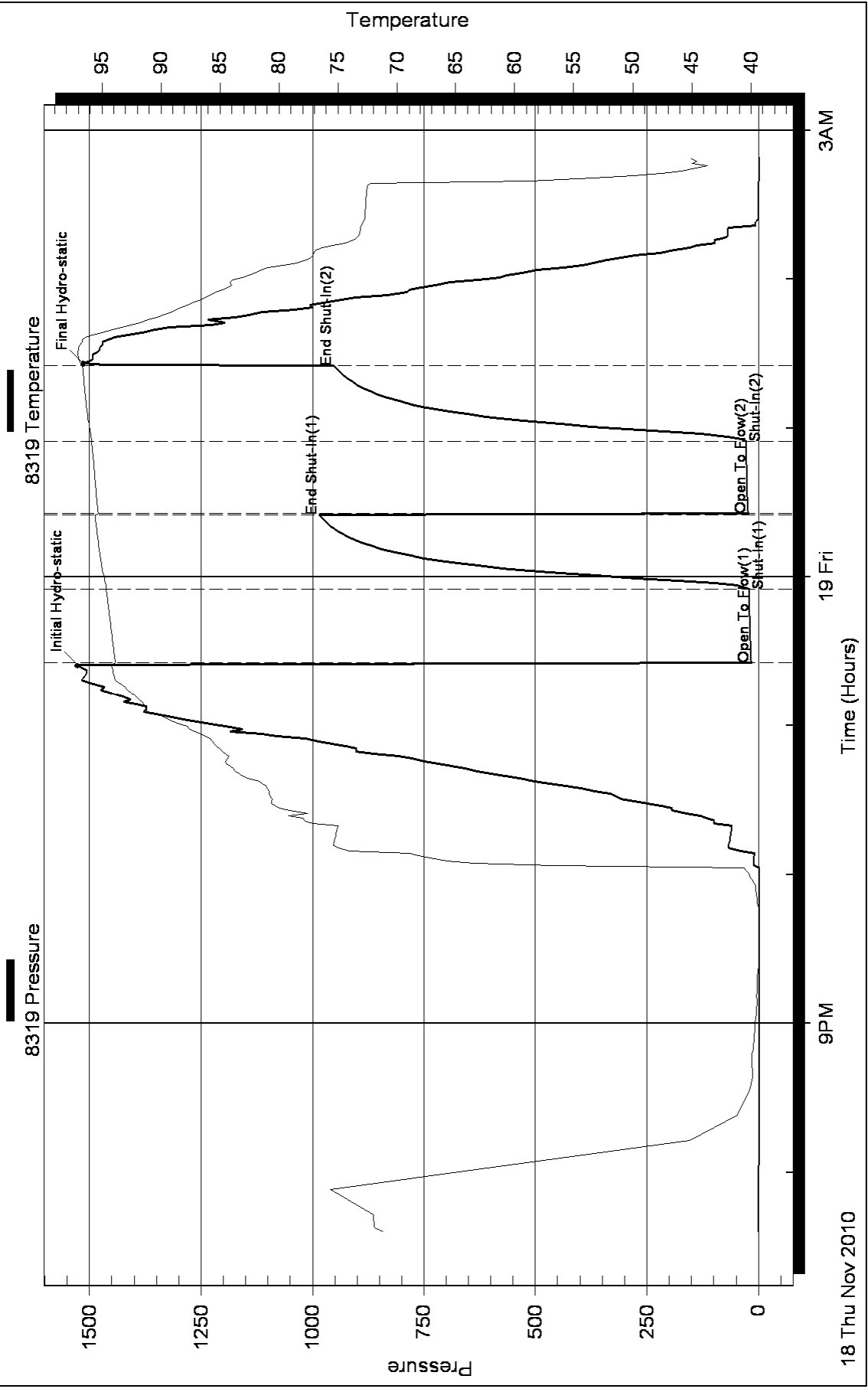
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

New Age Oil, LLC

308 W. 38th St.
Hays, KS 67601

ATTN: Marc Downing

Carrol Conyac #5

12-8-18 Rooks KS

Job Ticket: 41000

DST#: 2

Test Start: 2010.11.19 @ 09:40:18

GENERAL INFORMATION:

Formation: **KC "F,G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:03:48

Time Test Ended: 15:50:18

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3161.00 ft (KB) To 3210.00 ft (KB) (TVD)

Reference Elevations: 1926.00 ft (KB)

Total Depth: 3210.00 ft (KB) (TVD)

1921.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8319 Inside

Press @ Run Depth: 106.18 psig @ 3168.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.11.19

End Date: 2010.11.19

Last Calib.: 2010.11.19

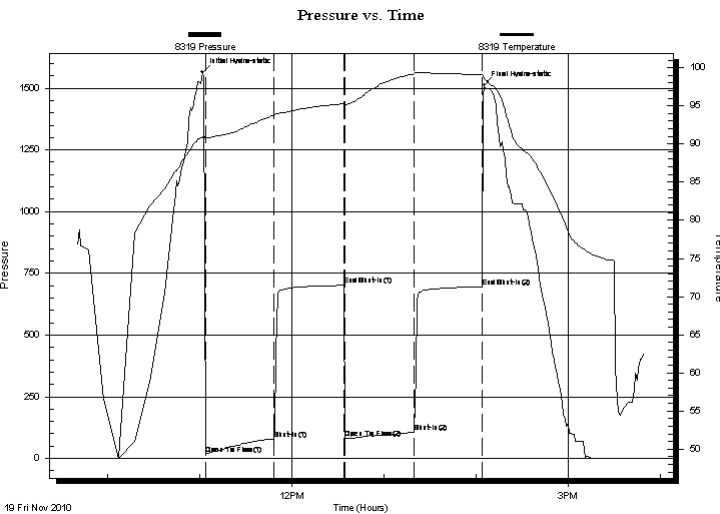
Start Time: 09:40:23

End Time: 15:50:17

Time On Btm: 2010.11.19 @ 11:01:48

Time Off Btm: 2010.11.19 @ 14:05:17

TEST COMMENT: IF-6 1/2in blow
IS-No blow
FF-6in blow
FS-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1563.88	90.85	Initial Hydro-static
2	16.34	90.70	Open To Flow (1)
47	78.91	93.76	Shut-In(1)
92	700.97	95.27	End Shut-In(1)
93	80.01	95.12	Open To Flow (2)
138	106.18	99.19	Shut-In(2)
182	695.59	99.15	End Shut-In(2)
184	1512.33	98.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	WCM 40%W 60%M	1.52
1.00	Free Oil	0.01

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

New Age Oil, LLC

Carrol Conyac #5

308 W. 38th St.
Hays, KS 67601

12-8-18 Rooks KS

Job Ticket: 41000

DST#: 2

ATTN: Marc Downing

Test Start: 2010.11.19 @ 09:40:18

Tool Information

Drill Pipe:	Length: 3022.00 ft	Diameter: 3.80 inches	Volume: 42.39 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3161.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	69.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3142.00	
Shut In Tool	5.00			3147.00	
Hydraulic tool	5.00			3152.00	
Packer	4.00			3156.00	20.00 Bottom Of Top Packer
Packer	5.00			3161.00	
Stubb	1.00			3162.00	
Perforations	5.00			3167.00	
Change Over Sub	1.00			3168.00	
Recorder	0.00	8319	Inside	3168.00	
Recorder	0.00	6719	Inside	3168.00	
Blank Spacing	30.00			3198.00	
Change Over Sub	1.00			3199.00	
Perforations	8.00			3207.00	
Bullnose	3.00			3210.00	49.00 Bottom Packers & Anchor

Total Tool Length: 69.00



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FLUID SUMMARY

New Age Oil, LLC

Carrol Conyac #5

308 W. 38th St.
Hays, KS 67601

12-8-18 Rooks KS

Job Ticket: 41000

DST#: 2

ATTN: Marc Downing

Test Start: 2010.11.19 @ 09:40:18

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:

95000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
189.00	WCM 40%W 60%M	1.522
1.00	Free Oil	0.014

Total Length: 190.00 ft

Total Volume: 1.536 bbl

Num Fluid Samples: 0

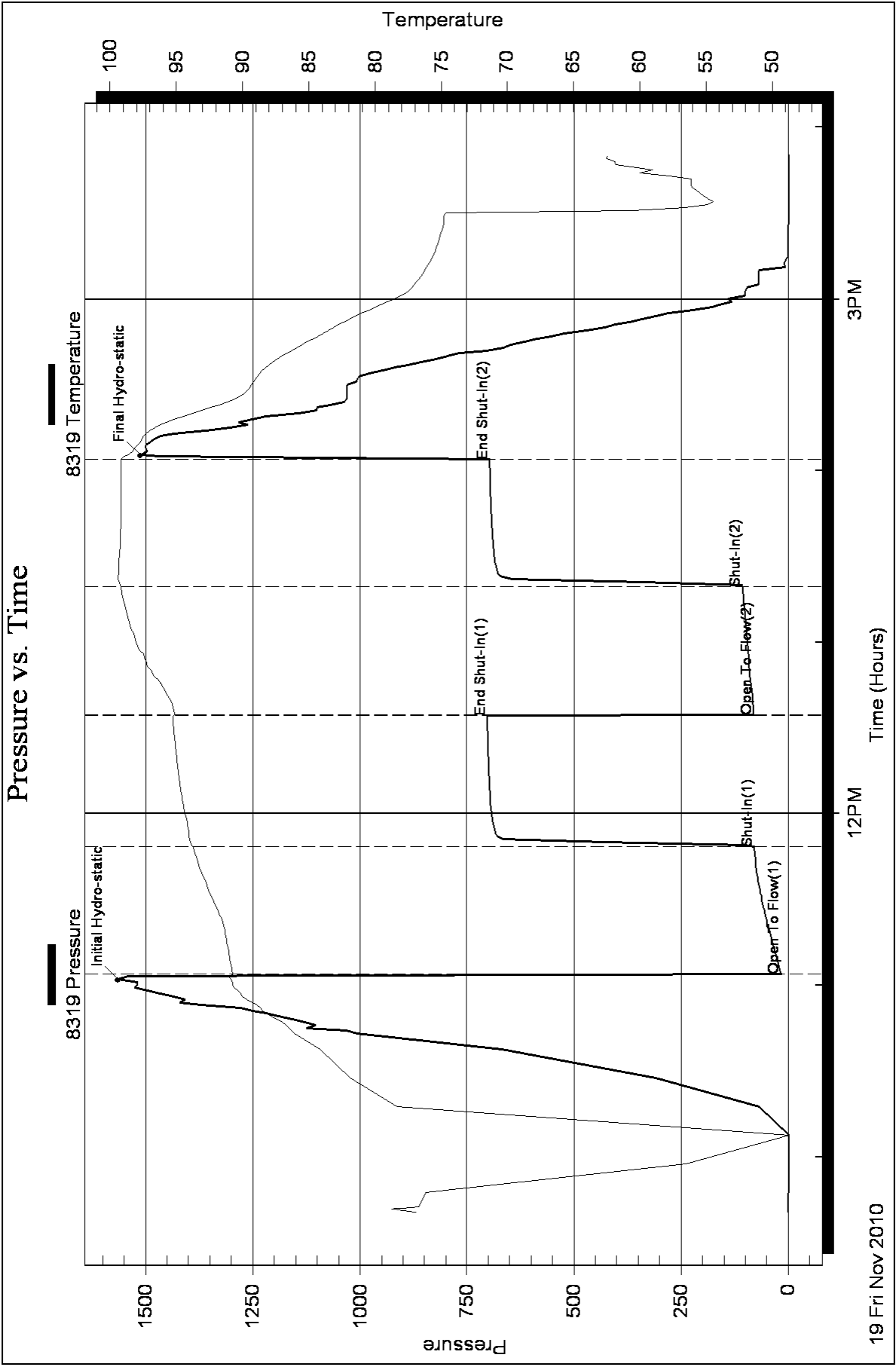
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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DRILL STEM TEST REPORT

New Age Oil, LLC

Carrol Conyac #5

308 W. 38th St.
Hays, KS 67601

12-8-18 Rooks KS

Job Ticket: 41326

DST#: 3

ATTN: Marc Downing

Test Start: 2010.11.20 @ 04:00:28

GENERAL INFORMATION:

Formation: **KC "K,L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:04:58

Time Test Ended: 08:35:28

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3280.00 ft (KB) To 3324.00 ft (KB) (TVD)

Reference Elevations: 1926.00 ft (KB)

Total Depth: 3324.00 ft (KB) (TVD)

1921.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8319

Inside

Press @ Run Depth: 22.53 psig @ 3287.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.11.20

End Date:

2010.11.20

Last Calib.:

2010.11.20

Start Time: 04:00:33

End Time:

08:35:27

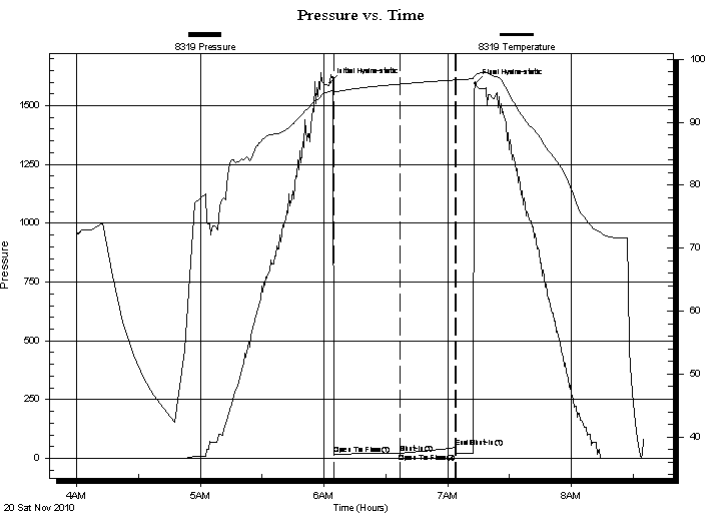
Time On Btm:

2010.11.20 @ 06:02:58

Time Off Btm:

2010.11.20 @ 07:13:28

TEST COMMENT: IF- Very weak surface blow died in 13 min
IS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1596.98	94.86	Initial Hydro-static
2	17.15	94.80	Open To Flow (1)
34	22.53	96.08	Shut-In(1)
61	46.84	96.73	End Shut-In(1)
61	21.85	96.73	Open To Flow (2)
71	1593.87	97.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oil scum Mud	0.02

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

New Age Oil, LLC

Carrol Conyac #5

308 W. 38th St.
Hays, KS 67601

12-8-18 Rooks KS

Job Ticket: 41326

DST#: 3

ATTN: Marc Downing

Test Start: 2010.11.20 @ 04:00:28

Tool Information

Drill Pipe:	Length: 3143.00 ft	Diameter: 3.80 inches	Volume: 44.09 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 41000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3280.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3261.00	
Shut In Tool	5.00			3266.00	
Hydraulic tool	5.00			3271.00	
Packer	4.00			3275.00	20.00 Bottom Of Top Packer
Packer	5.00			3280.00	
Stubb	1.00			3281.00	
Perforations	5.00			3286.00	
Change Over Sub	1.00			3287.00	
Recorder	0.00	8319	Inside	3287.00	
Recorder	0.00	6719	Inside	3287.00	
Blank Spacing	32.00			3319.00	
Change Over Sub	1.00			3320.00	
Perforations	1.00			3321.00	
Bullnose	3.00			3324.00	44.00 Bottom Packers & Anchor

Total Tool Length: 64.00



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FLUID SUMMARY

New Age Oil, LLC

Carrol Conyac #5

308 W. 38th St.
Hays, KS 67601

12-8-18 Rooks KS

Job Ticket: 41326

DST#: 3

ATTN: Marc Downing

Test Start: 2010.11.20 @ 04:00:28

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:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Oil scum Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

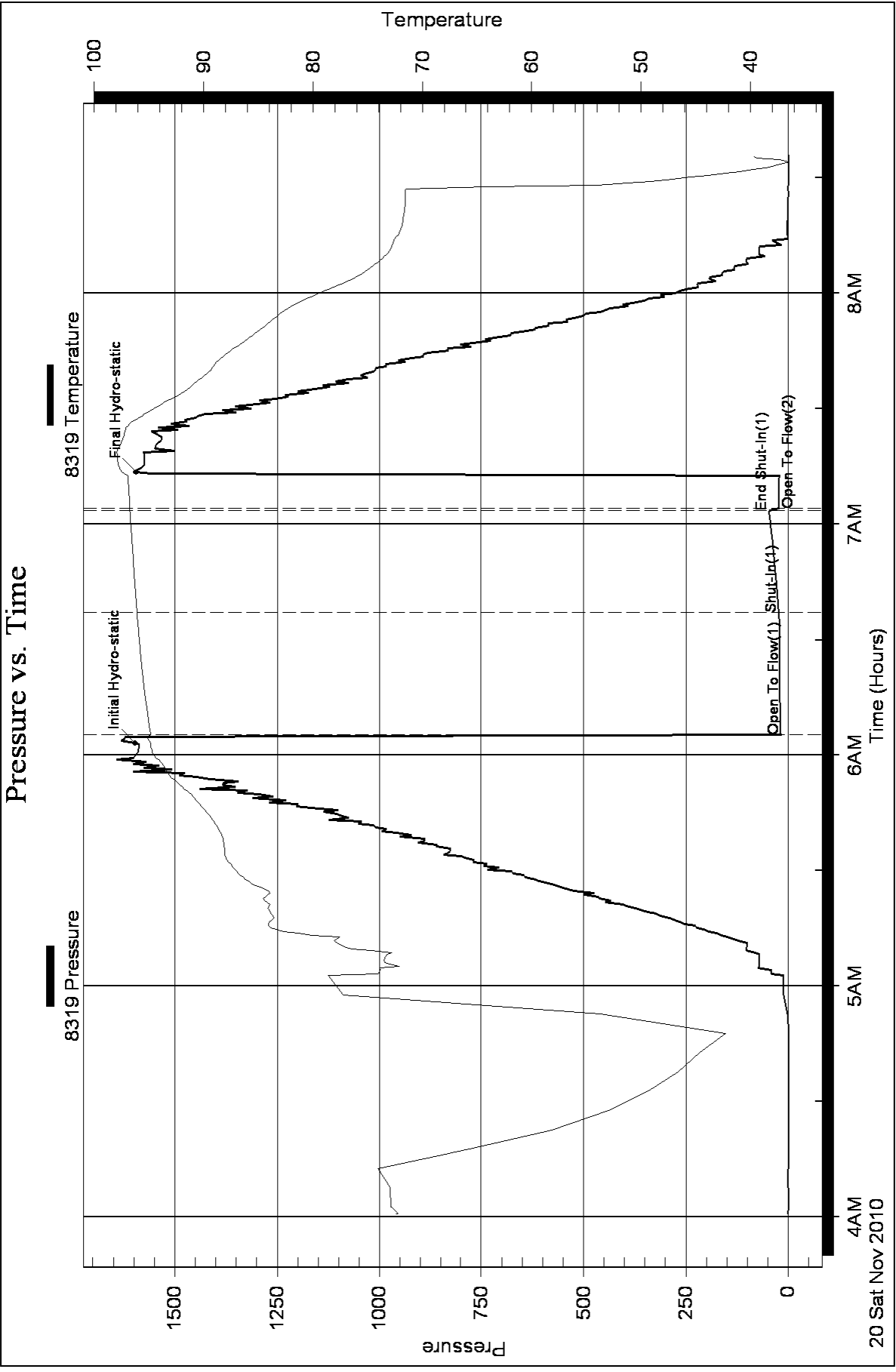
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

New Age Oil, LLC

Carrol Conyac #5

308 W. 38th St.
Hays, KS 67601

12-8-18 Rooks KS

Job Ticket: 41327

DST#: 4

ATTN: Marc Downing

Test Start: 2010.11.20 @ 22:00:13

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:19:43

Time Test Ended: 02:55:13

Test Type: Conventional Straddle

Tester: Brett Dickinson

Unit No: 47

Interval: 3356.00 ft (KB) To 3385.00 ft (KB) (TVD)

Reference Elevations: 1926.00 ft (KB)

Total Depth: 3451.00 ft (KB) (TVD)

1921.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8319 Inside

Press @ Run Depth: 24.20 psig @ 3357.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.11.20

End Date:

2010.11.21

Last Calib.: 2010.11.21

Start Time: 22:00:18

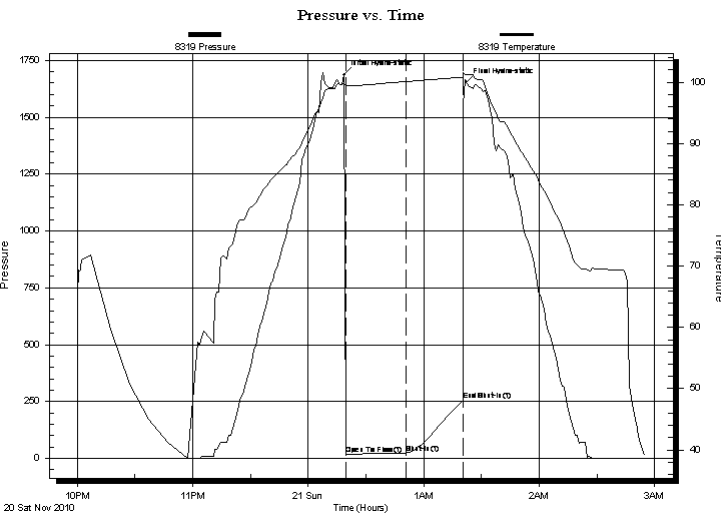
End Time:

02:55:12

Time On Btm: 2010.11.21 @ 00:18:43

Time Off Btm: 2010.11.21 @ 01:22:13

TEST COMMENT: IF- Very weak surface blow died in 10 min
ISI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1686.44	99.78	Initial Hydro-static
1	17.00	99.44	Open To Flow (1)
32	24.20	100.10	Shut-In(1)
62	255.82	100.79	End Shut-In(1)
64	1653.58	101.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	V/SOCM 2%O 98%M	0.05

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

New Age Oil, LLC

Carrol Conyac #5

308 W. 38th St.
Hays, KS 67601

12-8-18 Rooks KS

Job Ticket: 41327

DST#: 4

ATTN: Marc Downing

Test Start: 2010.11.20 @ 22:00:13

Tool Information

Drill Pipe:	Length: 3237.00 ft	Diameter: 3.80 inches	Volume: 45.41 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 41000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3356.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	3385.00 ft			
Interval between Packers:	29.00 ft			
Tool Length:	118.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3337.00	
Shut In Tool	5.00			3342.00	
Hydraulic tool	5.00			3347.00	
Packer	4.00			3351.00	20.00 Bottom Of Top Packer
Packer	5.00			3356.00	
Stubb	1.00			3357.00	
Recorder	0.00	6719	Outside	3357.00	
Recorder	0.00	8319	Inside	3357.00	
Perforations	24.00			3381.00	
Blank Off Sub	4.00			3385.00	29.00 Tool Interval
Packer	4.00			3389.00	
Stubb	1.00			3390.00	
Recorder	0.00	8369	Below	3390.00	
Perforations	4.00			3394.00	
Change Over Sub	1.00			3395.00	
Blank Spacing	59.00			3454.00	69.00 Bottom Packers & Anchor
Total Tool Length:	118.00				



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FLUID SUMMARY

New Age Oil, LLC

Carrol Conyac #5

308 W. 38th St.
Hays, KS 67601

12-8-18 Rooks KS

Job Ticket: 41327

DST#: 4

ATTN: Marc Downing

Test Start: 2010.11.20 @ 22:00:13

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:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	VSOCM 2%O 98%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

