Weatherford®
LABORATORIES

Field Report
Summary of Field Operations

Noble Energy Inc.
Child VO 30-9
Niobrara
DJ Basin
Laramie County, Wyoming

Submitted to:
Dan Rozman
Noble Energy Inc.
1625 Broadway Suite #2000
Denver, CO 80202-470

Prepared By:
Keith Lewis and Liz Roberts
Weatherford Laboratories
Project No. 48196

August 10, 2010

Weatherford Laboratories Disclaimer

LEGAL NOTICE: This report was prepared by Weatherford Laboratories Company as an account of work performed for the client and is intended for informational purposes only. Any use of this information in relation to any specific application should be based on an independent examination and verification of its applicability for such use by professionally qualified personnel. Neither Weatherford Laboratories, nor any persons or organizations acting on its behalf:

a. Makes any warranty or representation, expressed or implied, with respect to the accuracy, completeness, or usefulness of the information contained in this report; or

b. Assumes any liability with respect to the use of, or for damages resulting from the use of, any information, apparatus, method, or process disclosed in this report.

TABLE OF CONTENTS

Section ***Page***

1.0 INTRODUCTION 1

2.0 FIELD OPERATIONS 3

3.0 SAMPLE COLLECTION 5

LIST OF TABLES

Page

Table 1-1 Well and Formation Summary 2
Table 2-1 Summary of Core Runs 4
Table 3-1 Summary of Gas Content Sample Collection Part 1 6
Table 3-2 Summary of Preserved Sample Collection 7

LIST OF FIGURES

Page

Figure 1-1 Well Location Map 2

LIST OF APPENDICES

Appendix I ..... Core Operations
Appendix II ..... Daily Field Reports
Appendix III ..... Core Photography
Appendix IV ..... Core Inventory
Appendix V ..... Core Gamma

1.0 INTRODUCTION

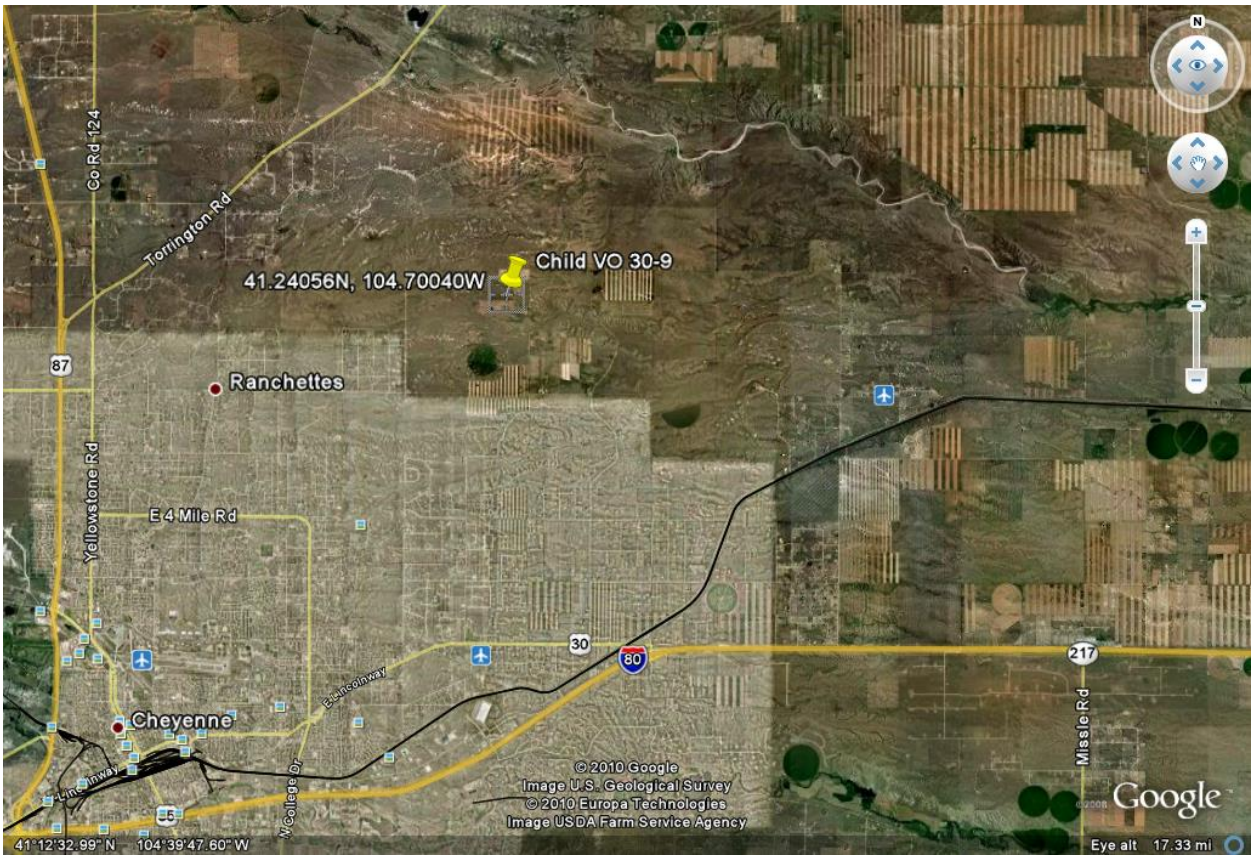
This report summarizes the field sample and data collection performed during the conventional coring of the Sharon Springs and Niobrara Formations at the Child VO 30-9 well operated by Noble Energy Inc. This well is located in Laramie County, Wyoming as illustrated in Figure 1-1. At the request of Dan Rozman, Noble Energy Inc., Weatherford Laboratories (WFT Labs) collected five samples for canister gas content and five samples for wax preservation and resource evaluation of the Niobrara shale formation. Well site gamma was also conducted on location for all cores except desorption samples. WFT Labs personnel were on location from July 30 through August 6, 2010. All depths referenced in this report are based on driller's depths from kelly bushing (KB) at an elevation of 6,006 feet. Table 1-1 is a summary of the well and targeted Niobrara shale information.

WFT Labs was supplied with a bottom hole temperature of 219°F at a depth of 9,409 feet from an offset well. Canister gas equipment is limited to a temperature of 170°F. Canister gas samples were heated to calculated circulation temperatures (120-130°F) and gas content analysis was performed for a minimum of 3 hours. After this initial three hours of data collection to help determine lost gas numbers, canister gas samples were moved to 170°F baths for a minimum of 21 hours.

Table 1-1 Well and Formation Summary

Well Name: Child VO 30-9	**County:** Laramie	
Operator: Noble Energy Inc.	**State:** Wyoming	
API #: 49-021-20639	**Coordinates:** 41.24056°N, 104.70040°W	
Basin: Denver-Julesburg	**Elevation: GL:** 5,991.0' **KB:** 6,006.0'	
Formation Name: Niobrara		
Reservoir Properties	**Units**	**Value**
Niobrara Formation		
Shale Top (Cored Interval, Drill Depth, KB)	feet	8,474.0
Shale Bottom (Cored Interval, Drill Depth, KB)	feet	8,785.0
Reservoir Temperature	°F	200.0
Reservoir Pressure Gradient	psi/ft	0.433
Reservoir Pressure (midpoint depth- 8,629.5 feet)	psia	3,749.4

Figure 1-1 Well Location Map



(Google Earth™ mapping services)

2.0 FIELD OPERATIONS

Drilling and Coring Operations

Ensign United States Drilling (Rig #128) conducted the drilling operations. Core point (8,417 feet) was reached on August 1, 2010 and coring operations began on August 2, 2010. Quest coring contractors conducted the coring operations. Tools used for coring operations included a 7 7/8-inch QC-513 coring bit, and a 90 foot conventional barrel with solid aluminum liner. The core bit for core run one was a 7 7/8-inch DC-613 bit it was changed to the QC-513 after the short recovery. Coring fluid was composed of a water/polymer base with mud, with weights in the range of 8.6 to 8.9 ppg. A total of six conventional core runs were completed. The interval from 8,417 through 8,815 feet was continuously cored. Coring operations were completed on August 6, 2010.

All core runs are summarized in Table 2-1. See Appendices I and II (Core Operations and Daily Field Reports) for a more detailed account of coring operations.

Table 2-1 Summary of Core Runs

Core Run	Cored Interval	Length Cored	Recovered Interval	Length Recovered	Core Recovery Success	Core Recovery Time	Circulating Fluid Temp.	Fluid Density	Number of Samples	Additional Comments
#	feet	feet	feet	feet	%	hh:mm:ss	°F	ppg	#	-
Niobrara										
1	8,417.0-8,437.6	20.6	8,417.0-8,436.5	19.5	94.7	4:47:00	120	8.8	0	
2	8,437.0-8,530.0	93.0	8,437.0-8,530.3	93.3	100.3	4:21:00	120	8.7	0	
3	8,530.0-8,623.0	93.0	8,530.3-8,621.0	90.7	97.5	4:10:48	120	8.6	3	
4	8,623.0-8,715.0	92.0	8,623.0-8,715.7	92.7	101.1	5:15:00	130	8.9	1	
5	8,715.0-8,751.0	36.0	8,715.7-8,751.1	35.4	98.3	4:59:00	130	8.9	1	
6	8,751.0-8,815.0	64.0	8,751.1-8,800.0	48.9	76.4	4:31:00	130	8.9	0	
Total	-	398.6	-	380.5	95.5	-	-	-	5	-

3.0 SAMPLE COLLECTION

Gas Content Analysis Samples

Five (4.0-inch diameter) core samples, approximately one foot in length, were collected from the cored interval between 8,583 and 8,815 feet for gas content analysis as summarized in Tables 3-1 and 3-2. All of the gas content analysis samples were selected for gas composition analysis and gas isotope determination. All canisters were filled with inert silica sand in order to reduce headspace volume in the canisters and purged with lab grade helium gas. This increases the accuracy of the gas content analysis measurements, maximizes the quality of gas samples collected for compositional analysis, and reduces oxidation and desiccation of the shale. Samples were then heated to the circulating fluid temperature (120-130°F). After 3 hours of gas content measurements the samples were heated to highest attainable water bath temperature (170°F) and gas content analysis continued for a minimum of 21 hours in the field. After field readings were completed all samples were iced down to inhibit gas production during transport. Upon arrival at the laboratory on August 7, 2010 gas content analysis resumed at 170°F.

A calibrated digital scale was used to weigh the samples before sealing. The measured weights and calculated densities provided represent canistered material at the time of sample collection. Field measurements are preliminary and subject to revision once the samples are removed from the canisters and reweighed in the laboratory. These values assist early estimations of measured gas content. The first 24 hours of measured gas volumes are presented. **Early measured gas volumes provide sample comparisons and should not be used for gas content estimation as the gas content analysis is incomplete.**

Preserved Samples (Whole Core)

Five (4.0-inch diameter) core samples, one-foot in length, were collected adjacent to each gas content analysis sample and preserved on site as summarized in Table 3-3. Whole core samples were preserved using saran wrap, aluminum foil, a thermal barrier and core seal heat strippable plastic. Preserved samples will be used for additional analyses at Weatherford Laboratories.

A calibrated digital scale was used to weigh the samples before sealing. The measured weights provided represent the preserved material at the time of sample collection. Field measurements are preliminary and subject to revision once the samples are reweighed in the laboratory.

Wellsite Gamma

All un-sampled core was run through the Weatherford wellsite gamma apparatus on location following sample collection and core processing before being transported to the WFT lab facility in Golden, Colorado. After completion of Wellsite gamma the data was immediately sent to Mr. Dan Rozman for his use and interpretation. See Appendices V (Core Gamma) for a more detailed account of gamma data collection.

Table 3-1 Summary of Gas Content Sample Collection Part 1

Sample ID	Canister Number	Measured Depth TOP	Measured Depth BOTTOM	Measured Sample Length	Raw Sample Weight	Calculated Sample Density	Measured Gas Volume (first 24hrs)	Bath Temp.	Special Testing	Core Run	Date / Time Canister Sealed
		feet	feet	feet	grams	g/cm^3	scf/ton	°F			date hh:mm:ss
Niobrara											
48196-1	4-168	8,568.0	8,569.0	1.0	5,937	2.40	22.65	120/170	GC / ISO	3	8/4/2010 10:37:00
48196-2	4-197	8,583.0	8,584.0	1.0	5,974	2.42	14.26	120/170	GC / ISO	3	8/4/2010 10:48:00
48196-3	4-249	8,616.0	8,617.0	1.0	6,108	2.47	9.77	120/170	GC / ISO	3	8/4/2010 11:45:00
48196-4	4-239	8,673.0	8,674.0	1.0	5,934	2.55	19.00	130/170	GC / ISO	4	8/5/2010 05:27:47
48196-5	4-250	8,728.0	8,729.0	1.0	5,776	2.34	19.67	130/170	GC / ISO	5	8/5/2010 22:41:33
Averages and Totals	-	-	-	5	5,946	2.41	17.07	-	-	-	-

Notes:
GC = Gas Composition Sample
ISO = Isotope Determination Sample

Note that measured gas volume reported in scf/ton is estimated preliminary data for sample comparison and should not be used for gas content estimation as the gas content analysis is incomplete.

Table 3-2 Summary of Preserved Sample Collection

Sample ID	Core Run	Top Depth	Bottom Depth	Sample Length	Sample Weight	Date / Time Sample Preserved	Comments
#	#	feet	feet	feet	grams	date hh:mm:ss	
48196-1P	3	8,569.0	8,570.0	1.0	5,964	8/4/2010 12:35	
48196-2P	3	8,584.0	8,585.0	1.0	5,716	8/4/2010 12:40	
48196-3P	3	8,617.0	8,616.0	1.0	5,984	8/4/2010 13:30	
48196-4P	4	8,674.0	8,675.0	1.0	5,728	8/5/2010 07:15	
48196-5P	5	8,727.0	8,728.0	1.0	5,924	8/5/2010 23:55	
Total	-	-	-	5	-	-	-

Appendix I

Noble Energy Inc.
Child VO 30-9
DJ Basin
Niobrara Shale Formation

Core Operations

Weatherford
LABORATORIES

CORE OPERATIONS

Date: 8/2/2010

CORE RUN: 1

Weatherford LABORATORIES

OPERATOR: Noble Energy Inc.
WELL: Child VO 30-9
FIELD/PROSPECT: Atlas Field
COUNTY: Laramie
STATE: Wyoming

LAT: / LONG: 41.24056N, 104.70040W
SECTION: 30
TOWNSHIP: 15N
RANGE: 65W
ELEV (FT): GL: 5,991.0 KB: 6,006
Datum: KB

OPERATOR: Noble Energy

RIG: Ensign Rig # 128
SERVICE: Quest Coring

Core Service Company:	Quest Coring
Core Bit Type:	DC 613
Core Bit Size[1]:	7-7/8" x 4"
Core Barrel Type:	Steel
Liner Type:	AL
Coring Fluid:	Water Base
Fluid Density (ppg):	8.8
Fluid Temp. In (°F):	91.0
Fluid Temp. Out (°F):	119.0
Pump Pressure (psig):	1480.0
Pump Rate (spm/gpm):	100 / 300
Weight on Bit (lbs):	14,000
Pipe Rotation Rate (rpm):	45-80
Type Core (Oriented/Non-Oriented):	Non-Oriented
Formation Name:	Shannon Springs
Method for TOH:	Conventional
Date/Time Start Coring:	8/2/2010 05:05:00
Date/Time End Coring:	8/2/2010 12:30:00
Date/Time Start TOH:	8/2/2010 13:25:00
Date/Time Last Stand at Surface:	8/2/2010 18:12:00
Core Barrel Trip Out Time (hh:mm:ss):	4:47:00
Interval Cored (ft):	20.6
Core Length Recovered (ft):	19.5
Reservoir Temp (°F):	196.2
Surf. Temp/Press (°F/in-Hg):	80 / 24.16

[1] Exterior and Interior Diameter (inches)

CORE RUN: 1

	Top Depth	Bottom Depth	Start	End	Penetration Rate	Canister	Can Sealed Date/Time	WFT Labs
	feet, KB	feet, KB	hh:mm:ss	hh:mm:ss	mm:ss	No.	date hh:mm:ss	No.
1	8,417.0	8,418.0	5:05:00	5:37:00	32:00			
2	8,418.0	8,419.0	5:37:00	6:19:00	42:00			
3	8,419.0	8,420.0	6:19:00	6:55:00	36:00			
4	8,420.0	8,421.0	6:55:00	7:31:00	36:00			
5	8,421.0	8,422.0	7:31:00	7:53:00	22:00			
6	8,422.0	8,423.0	7:53:00	8:14:00	21:00			
7	8,423.0	8,424.0	8:14:00	8:30:00	16:00			
8	8,424.0	8,425.0	8:30:00	8:54:00	24:00			
9	8,425.0	8,426.0	8:54:00	9:24:00	30:00			
10	8,426.0	8,427.0	9:24:00	9:44:00	20:00			
11	8,427.0	8,428.0	9:44:00	10:03:00	19:00			
12	8,428.0	8,429.0	10:03:00	10:21:00	18:00			
13	8,429.0	8,430.0	10:21:00	10:34:00	13:00			
14	8,430.0	8,431.0	10:34:00	10:45:00	11:00			
15	8,431.0	8,432.0	10:45:00	10:55:00	10:00			
16	8,432.0	8,433.0	10:55:00	11:05:00	10:00			
17	8,433.0	8,434.0	11:05:00	11:17:00	12:00			
18	8,434.0	8,435.0	11:17:00	11:37:00	20:00			
19	8,435.0	8,436.0	11:37:00	11:57:00	20:00			
20	8,436.0	8,437.0	11:57:00	12:17:00	20:00			
21	8,437.0	8,437.6	12:17:00	12:30:00	13:00			
22								
23								
24								
25								
26								
27								
28								
29								
30								

NOTES:

Experiencing hole issues may have hole stability issues. Shaker is unloading lots of fill

WFT Labs Personnel: Keith Lewis, Liz Roberts, Bob Schlauder, Scott Jensen, Ken Badger

CORE OPERATIONS

Date: 8/3/2010

CORE RUN: 2

Weatherford LABORATORIES

OPERATOR: Noble Energy Inc.
WELL: Child VO 30-9
FIELD/PROSPECT: Atlas Field
COUNTY: Laramie
STATE: Wyoming

LAT: / LONG: 41.24056N, 104.70040W
SECTION: 30
TOWNSHIP: 15N
RANGE: 65W
ELEV (FT): GL: 5,991.0 KB: 6,006
Datum: KB

OPERATOR: Noble Energy

RIG: Ensign Rig # 128
SERVICE: Quest Coring

Core Service Company:	Quest Coring
Core Bit Type:	QC 513
Core Bit Size[1]:	7-7/8" x 4"
Core Barrel Type:	Steel
Liner Type:	AL
Coring Fluid:	Water Base
Fluid Density (ppg):	8.7
Fluid Temp. In (°F):	119.0
Fluid Temp. Out (°F):	122.0
Pump Pressure (psig):	1856.0
Pump Rate (spm/gpm):	120 / 360
Weight on Bit (lbs):	9,000
Pipe Rotation Rate (rpm):	67
Type Core (Oriented/Non-Oriented):	Non-Oriented
Formation Name:	Shannon Springs / Niobrara
Method for TOH:	Conventional
Date/Time Start Coring:	8/3/2010 03:03:00
Date/Time End Coring:	8/3/2010 09:01:00
Date/Time Start TOH:	8/3/2010 09:13:00
Date/Time Last Stand at Surface:	8/3/2010 13:34:00
Core Barrel Trip Out Time (hh:mm:ss):	4:21:00
Interval Cored (ft):	93.0
Core Length Recovered (ft):	93.3
Reservoir Temp (°F):	197.0
Surf. Temp/Press (°F/in-Hg):	93.5 / 24.22

[1] Exterior and Interior Diameter (inches)

CORE RUN: 2

	Top Depth	Bottom Depth	Start	End	Penetration Rate	Canister	Can Sealed Date/Time	WFT Labs
	feet, KB	feet, KB	hh:mm:ss	hh:mm:ss	mm:ss	No.	date hh:mm:ss	No.
1	8,437.0	8,438.0	3:03:00	3:18:00	15:00			
2	8,438.0	8,439.0	3:18:00	3:26:00	08:00			
3	8,439.0	8,440.0	3:26:00	3:30:00	04:00			
4	8,440.0	8,441.0	3:30:00	3:35:00	05:00			
5	8,441.0	8,442.0	3:35:00	3:39:00	04:00			
6	8,442.0	8,443.0	3:39:00	3:43:00	04:00			
7	8,443.0	8,444.0	3:43:00	3:45:00	02:00			
8	8,444.0	8,445.0	3:45:00	3:48:00	03:00			
9	8,445.0	8,446.0	3:48:00	3:49:00	01:00			
10	8,446.0	8,447.0	3:49:00	3:52:00	03:00			
11	8,447.0	8,448.0	3:52:00	3:55:00	03:00			
12	8,448.0	8,449.0	3:55:00	3:56:00	01:00			
13	8,449.0	8,450.0	3:56:00	3:58:00	02:00			
14	8,450.0	8,451.0	3:58:00	4:00:00	02:00			
15	8,451.0	8,452.0	4:00:00	4:02:00	02:00			
16	8,452.0	8,453.0	4:02:00	4:04:00	02:00			
17	8,453.0	8,454.0	4:04:00	4:06:00	02:00			
18	8,454.0	8,455.0	4:06:00	4:08:00	02:00			
19	8,455.0	8,456.0	4:08:00	4:10:00	02:00			
20	8,456.0	8,457.0	4:10:00	4:12:00	02:00			
21	8,457.0	8,458.0	4:12:00	4:14:00	02:00			
22	8,458.0	8,459.0	4:14:00	4:16:00	02:00			
23	8,459.0	8,460.0	4:16:00	4:18:00	02:00			
24	8,460.0	8,461.0	4:18:00	4:22:00	04:00			
25	8,461.0	8,462.0	4:22:00	4:24:00	02:00			
26	8,462.0	8,463.0	4:24:00	4:26:00	02:00			
27	8,463.0	8,464.0	4:26:00	4:29:00	03:00			
28	8,464.0	8,465.0	4:29:00	4:32:00	03:00			
29	8,465.0	8,466.0	4:32:00	4:34:00	02:00			
30	8,466.0	8,467.0	4:34:00	4:37:00	03:00			

NOTES:

After competition of core run 2 it was discussed that the method for laying down core in a collar (cradle system) would cause a serious safety threat so it was decided that no cradle would be used, although special attention would be used to make sure that the core barrels would not flex when moved

top of Niobrara 8474

WFT Labs Personnel: Keith Lewis, Liz Roberts, Bob Schlauder, Scott Jensen, Ken Badger

CORE OPERATIONS

Date: 8/3/2010

CORE RUN: 2 Continued

OPERATOR: Noble Energy Inc.
WELL: Child VO 30-9
FIELD/PROSPECT: Atlas Field
COUNTY: Laramie
STATE: Wyoming

LAT: / LONG: 41.24056N, 104.70040W
SECTION: 30
TOWNSHIP: 15N
RANGE: 65W
ELEV (FT): GL: 5,991.0 KB: 6,006
Datum: KB

OPERATOR: Noble Energy

RIG: Ensign Rig # 128
SERVICE: Quest Coring

Core Service Company:	Quest Coring
Core Bit Type:	QC 513
Core Bit Size[1]:	7-7/8" x 4"
Core Barrel Type:	Steel
Liner Type:	AL
Coring Fluid:	Water Base
Fluid Density (ppg):	8.7
Fluid Temp. In (°F):	119.0
Fluid Temp. Out (°F):	122.0
Pump Pressure (psig):	1856.0
Pump Rate (spm/gpm):	120 / 360
Weight on Bit (lbs):	9,000
Pipe Rotation Rate (rpm):	67
Type Core (Oriented/Non-Oriented):	Non-Oriented
Formation Name:	Shannon Springs / Niobrara
Method for TOH:	Conventional
Date/Time Start Coring:	8/3/2010 03:03:00
Date/Time End Coring:	8/3/2010 09:01:00
Date/Time Start TOH:	8/3/2010 09:13:00
Date/Time Last Stand at Surface:	8/3/2010 13:34:00
Core Barrel Trip Out Time (hh:mm:ss):	4:21:00
Interval Cored (ft):	93.0
Core Length Recovered (ft):	93.3
Reservoir Temp (°F):	197.5
Surf. Temp/Press (°F/in-Hg):	93.5 / 24.22

[1] Exterior and Interior Diameter (inches)

CORE RUN: 2 Continued

	Top Depth	Bottom Depth	Start	End	Penetration Rate	Canister	Can Sealed Date/Time	WFT Labs
	feet, KB	feet, KB	hh:mm:ss	hh:mm:ss	mm:ss	No.	date hh:mm:ss	No.
31	8,467.0	8,468.0	4:37:00	4:41:00	04:00			
32	8,468.0	8,469.0	4:41:00	4:47:00	06:00			
33	8,469.0	8,470.0	4:47:00	4:53:00	06:00			
34	8,470.0	8,471.0	4:53:00	5:00:00	07:00			
35	8,471.0	8,472.0	5:00:00	5:55:00	55:00			
36	8,472.0	8,473.0	5:55:00	5:57:00	02:00			
37	8,473.0	8,474.0	5:57:00	5:59:00	02:00			
38	8,474.0	8,475.0	5:59:00	6:04:00	05:00	Contact Sharon Springs / Niobrara		
39	8,475.0	8,476.0	6:04:00	6:09:00	05:00			
40	8,476.0	8,477.0	6:09:00	6:17:00	08:00			
41	8,477.0	8,478.0	6:17:00	6:22:00	05:00			
42	8,478.0	8,479.0	6:22:00	6:27:00	05:00			
43	8,479.0	8,480.0	6:27:00	6:32:00	05:00			
44	8,480.0	8,481.0	6:32:00	6:35:00	03:00			
45	8,481.0	8,482.0	6:35:00	6:40:00	05:00			
46	8,482.0	8,483.0	6:40:00	6:44:00	04:00			
47	8,483.0	8,484.0	6:44:00	6:49:00	05:00			
48	8,484.0	8,485.0	6:49:00	6:54:00	05:00			
49	8,485.0	8,486.0	6:54:00	6:58:00	04:00			
50	8,486.0	8,487.0	6:58:00	7:01:00	03:00			
51	8,487.0	8,488.0	7:01:00	7:03:00	02:00			
52	8,488.0	8,489.0	7:03:00	7:06:00	03:00			
53	8,489.0	8,490.0	7:06:00	7:08:00	02:00			
54	8,490.0	8,491.0	7:08:00	7:11:00	03:00			
55	8,491.0	8,492.0	7:11:00	7:13:00	02:00			
56	8,492.0	8,493.0	7:13:00	7:14:00	01:00			
57	8,493.0	8,494.0	7:14:00	7:17:00	03:00			
58	8,494.0	8,495.0	7:17:00	7:19:00	02:00			
59	8,495.0	8,496.0	7:19:00	7:21:00	02:00			
60	8,496.0	8,497.0	7:21:00	7:23:00	02:00			

NOTES:

WFT Labs Personnel: Keith Lewis, Liz Roberts, Bob Schlauder, Scott Jensen, Ken Badger

CORE OPERATIONS

Date: 8/3/2010

CORE RUN: 2 Continued

OPERATOR: Noble Energy Inc.
WELL: Child VO 30-9
FIELD/PROSPECT: Atlas Field
COUNTY: Laramie
STATE: Wyoming

LAT: / LONG: 41.24056N, 104.70040W
SECTION: 30
TOWNSHIP: 15N
RANGE: 65W
ELEV (FT): GL: 5,991.0 KB: 6,006
Datum: KB

OPERATOR: Noble Energy

RIG: Ensign Rig # 128
SERVICE: Quest Coring

Core Service Company:	Quest Coring
Core Bit Type:	QC 513
Core Bit Size[1]:	7-7/8" x 4"
Core Barrel Type:	Steel
Liner Type:	AL
Coring Fluid:	Water Base
Fluid Density (ppg):	8.7
Fluid Temp. In (°F):	119.0
Fluid Temp. Out (°F):	122.0
Pump Pressure (psig):	1856.0
Pump Rate (spm/gpm):	120 / 360
Weight on Bit (lbs):	9,000
Pipe Rotation Rate (rpm):	67
Type Core (Oriented/Non-Oriented):	Non-Oriented
Formation Name:	Shannon Springs / Niobrara
Method for TOH:	Conventional
Date/Time Start Coring:	8/3/2010 03:03:00
Date/Time End Coring:	8/3/2010 09:01:00
Date/Time Start TOH:	8/3/2010 09:13:00
Date/Time Last Stand at Surface:	8/3/2010 13:34:00
Core Barrel Trip Out Time (hh:mm:ss):	4:21:00
Interval Cored (ft):	93.0
Core Length Recovered (ft):	93.3
Reservoir Temp (°F):	197.0
Surf. Temp/Press (°F/in-Hg):	93.5 / 24.22

[1] Exterior and Interior Diameter (inches)

CORE RUN: 2 Continued

	Top Depth	Bottom Depth	Start	End	Penetration Rate	Canister	Can Sealed Date/Time	WFT Labs
	feet, KB	feet, KB	hh:mm:ss	hh:mm:ss	mm:ss	No.	date hh:mm:ss	No.
61	8,497.0	8,498.0	7:23:00	7:25:00	02:00			
62	8,498.0	8,499.0	7:25:00	7:26:00	01:00			
63	8,499.0	8,500.0	7:26:00	7:29:00	03:00			
64	8,500.0	8,501.0	7:29:00	7:32:00	03:00			
65	8,501.0	8,502.0	7:32:00	7:35:00	03:00			
66	8,502.0	8,503.0	7:35:00	8:14:00	39:00			
67	8,503.0	8,504.0	8:14:00	8:17:00	03:00			
68	8,504.0	8,505.0	8:17:00	8:18:00	01:00			
69	8,505.0	8,506.0	8:18:00	8:20:00	02:00			
70	8,506.0	8,507.0	8:20:00	8:22:00	02:00			
71	8,507.0	8,508.0	8:22:00	8:23:00	01:00			
72	8,508.0	8,509.0	8:23:00	8:25:00	02:00			
73	8,509.0	8,510.0	8:25:00	8:27:00	02:00			
74	8,510.0	8,511.0	8:27:00	8:28:00	01:00			
75	8,511.0	8,512.0	8:28:00	8:30:00	02:00			
76	8,512.0	8,513.0	8:30:00	8:31:00	01:00			
77	8,513.0	8,514.0	8:31:00	8:33:00	02:00			
78	8,514.0	8,515.0	8:33:00	8:34:00	01:00			
79	8,515.0	8,516.0	8:34:00	8:36:00	02:00			
80	8,516.0	8,517.0	8:36:00	8:38:00	02:00			
81	8,517.0	8,518.0	8:38:00	8:39:00	01:00			
82	8,518.0	8,519.0	8:39:00	8:41:00	02:00			
83	8,519.0	8,520.0	8:41:00	8:43:00	02:00			
84	8,520.0	8,521.0	8:43:00	8:45:00	02:00			
85	8,521.0	8,522.0	8:45:00	8:47:00	02:00			
86	8,522.0	8,523.0	8:47:00	8:48:00	01:00			
87	8,523.0	8,524.0	8:48:00	8:50:00	02:00			
88	8,524.0	8,525.0	8:50:00	8:52:00	02:00			
89	8,525.0	8,526.0	8:52:00	8:54:00	02:00			
90	8,526.0	8,527.0	8:54:00	8:56:00	02:00			
91	8,527.0	8,528.0	8:56:00	8:57:00	01:00			
92	8,528.0	8,529.0	8:57:00	8:59:00	02:00			
93	8,529.0	8,530.0	8:59:00	9:01:00	02:00			

NOTES:

WFT Labs Personnel: Keith Lewis, Liz Roberts, Bob Schlauder, Scott Jensen, Ken Badger

CORE OPERATIONS

Date: 8/3-4/2010

CORE RUN: 3

Weatherford LABORATORIES

OPERATOR: Noble Energy Inc.
WELL: Child VO 30-9
FIELD/PROSPECT: Atlas Field
COUNTY: Laramie
STATE: Wyoming

LAT: / LONG: 41.24056N, 104.70040W
SECTION: 30
TOWNSHIP: 15N
RANGE: 65W
ELEV (FT): GL: 5,991.0 KB: 6,006
Datum: KB

OPERATOR: Noble Energy

RIG: Ensign Rig # 128
SERVICE: Quest Coring

Core Service Company:	Quest Coring
Core Bit Type:	QC 513
Core Bit Size[1]:	7-7/8" x 4"
Core Barrel Type:	Steel
Liner Type:	AL
Coring Fluid:	Water Base
Fluid Density (ppg):	8.6
Fluid Temp. In (°F):	117.0
Fluid Temp. Out (°F):	123.0
Pump Pressure (psig):	1812.0
Pump Rate (spm/gpm):	370
Weight on Bit (lbs):	12,000
Pipe Rotation Rate (rpm):	72
Type Core (Oriented/Non-Oriented):	Non-Oriented
Formation Name:	Niobrara
Method for TOH:	Conventional
Date/Time Start Coring:	8/3/2010 22:12:00
Date/Time End Coring:	8/4/2010 03:06:00
Date/Time Start TOH:	8/4/2010 03:56:12
Date/Time Last Stand at Surface:	8/4/2010 08:07:00
Core Barrel Trip Out Time (hh:mm:ss):	4:10:48
Interval Cored (ft):	93.0
Core Length Recovered (ft):	90.7
Reservoir Temp (°F):	200.0
Surf. Temp/Press (°F/in-Hg):	55.0/24.29

[1] Exterior and Interior Diameter (inches)

CORE RUN: 3

	Top Depth	Bottom Depth	Start	End	Penetration Rate	Canister	Can Sealed Date/Time	WFT Labs
	feet, KB	feet, KB	hh:mm:ss	hh:mm:ss	mm:ss	No.	date hh:mm:ss	No.
1	8,530.0	8,531.0	22:12:00	22:22:00	10:00			
2	8,531.0	8,532.0	22:22:00	22:25:00	03:00			
3	8,532.0	8,533.0	22:25:00	22:28:00	03:00			
4	8,533.0	8,534.0	22:28:00	22:31:00	03:00			
5	8,534.0	8,535.0	22:31:00	22:34:00	03:00			
6	8,535.0	8,536.0	22:34:00	22:36:00	02:00			
7	8,536.0	8,537.0	22:36:00	22:38:00	02:00			
8	8,537.0	8,538.0	22:38:00	22:40:00	02:00			
9	8,538.0	8,539.0	22:40:00	22:42:00	02:00			
10	8,539.0	8,540.0	22:42:00	22:44:00	02:00			
11	8,540.0	8,541.0	22:44:00	22:47:00	03:00			
12	8,541.0	8,542.0	22:47:00	22:49:00	02:00			
13	8,542.0	8,543.0	22:49:00	22:51:00	02:00			
14	8,543.0	8,544.0	22:51:00	22:53:00	02:00			
15	8,544.0	8,545.0	22:53:00	22:55:00	02:00			
16	8,545.0	8,546.0	22:55:00	22:58:00	03:00			
17	8,546.0	8,547.0	22:58:00	23:00:00	02:00			
18	8,547.0	8,548.0	23:00:00	23:02:00	02:00			
19	8,548.0	8,549.0	23:02:00	23:05:00	03:00			
20	8,549.0	8,550.0	23:05:00	23:07:00	02:00			
21	8,550.0	8,551.0	23:07:00	23:09:00	02:00			
22	8,551.0	8,552.0	23:09:00	23:11:00	02:00			
23	8,552.0	8,553.0	23:11:00	23:14:00	03:00			
24	8,553.0	8,554.0	23:14:00	23:15:00	01:00			
25	8,554.0	8,555.0	23:15:00	23:18:00	03:00			
26	8,555.0	8,556.0	23:18:00	23:21:00	03:00			
27	8,556.0	8,557.0	23:21:00	23:23:00	02:00			
28	8,557.0	8,558.0	23:23:00	23:26:00	03:00			
29	8,558.0	8,559.0	23:26:00	23:28:00	02:00			
30	8,559.0	8,560.0	23:28:00	23:30:00	02:00			

NOTES:

Second liner got stuck in core barrel and caused a delay in retrieval after 8559

Core hands cut 20 foot off second liner and layed down so WFT could take desorption samples. This was layed on surface at 10:00.

WFT Labs Personnel: Keith Lewis, Liz Roberts, Bob Schlauder, Scott Jensen, Ken Badger

CORE OPERATIONS

Date: 8/3-4/2010

CORE RUN: 3 Continued

OPERATOR: Noble Energy Inc.
WELL: Child VO 30-9
FIELD/PROSPECT: Atlas Field
COUNTY: Laramie
STATE: Wyoming

LAT: / LONG: 41.24056N, 104.70040W
SECTION: 30
TOWNSHIP: 15N
RANGE: 65W
ELEV (FT): GL: 5,991.0 KB: 6,006
Datum: KB

OPERATOR: Noble Energy

RIG: Ensign Rig # 128
SERVICE: Quest Coring

Core Service Company:	Quest Coring
Core Bit Type:	QC 513
Core Bit Size[1]:	7-7/8" x 4"
Core Barrel Type:	Steel
Liner Type:	AL
Coring Fluid:	Water Base
Fluid Density (ppg):	8.6
Fluid Temp. In (°F):	117.0
Fluid Temp. Out (°F):	123.0
Pump Pressure (psig):	1812.0
Pump Rate (spm/gpm):	370
Weight on Bit (lbs):	12,000
Pipe Rotation Rate (rpm):	72
Type Core (Oriented/Non-Oriented):	Non-Oriented
Formation Name:	Niobrara
Method for TOH:	Conventional
Date/Time Start Coring:	8/3/2010 22:12:00
Date/Time End Coring:	8/4/2010 03:06:00
Date/Time Start TOH:	8/4/2010 03:56:12
Date/Time Last Stand at Surface:	8/4/2010 08:07:00
Core Barrel Trip Out Time (hh:mm:ss):	4:10:48
Interval Cored (ft):	93.0
Core Length Recovered (ft):	90.7
Reservoir Temp (°F):	200.0
Surf. Temp/Press (°F/in-Hg):	55.0/24.29

[1] Exterior and Interior Diameter (inches)

CORE RUN: 3 Continued

	Top Depth	Bottom Depth	Start	End	Penetration Rate	Canister	Can Sealed Date/Time	WFT Labs
	feet, KB	feet, KB	hh:mm:ss	hh:mm:ss	mm:ss	No.	date hh:mm:ss	No.
1	8,560.0	8,561.0	23:30:00	23:54:00	24:00			
2	8,561.0	8,562.0	23:54:00	23:57:00	03:00			
3	8,562.0	8,563.0	23:57:00	0:00:00	03:00			
4	8,563.0	8,564.0	0:00:00	0:02:00	02:00			
5	8,564.0	8,565.0	0:02:00	0:05:00	03:00			
6	8,565.0	8,566.0	0:05:00	0:07:00	02:00			
7	8,566.0	8,567.0	0:07:00	0:10:00	03:00			
8	8,567.0	8,568.0	0:10:00	0:12:00	02:00			
9	8,568.0	8,569.0	0:12:00	0:14:00	02:00	4-168	8/4/2010 10:37:00	48196-1
10	8,569.0	8,570.0	0:14:00	0:16:00	02:00			
11	8,570.0	8,571.0	0:16:00	0:18:00	02:00			
12	8,571.0	8,572.0	0:18:00	0:20:00	02:00			
13	8,572.0	8,573.0	0:20:00	0:22:00	02:00			
14	8,573.0	8,574.0	0:22:00	0:24:00	02:00			
15	8,574.0	8,575.0	0:24:00	0:27:00	03:00			
16	8,575.0	8,576.0	0:27:00	0:30:00	03:00			
17	8,576.0	8,577.0	0:30:00	0:32:00	02:00			
18	8,577.0	8,578.0	0:32:00	0:35:00	03:00			
19	8,578.0	8,579.0	0:35:00	0:36:00	01:00			
20	8,579.0	8,580.0	0:36:00	0:39:00	03:00			
21	8,580.0	8,581.0	0:39:00	0:43:00	04:00			
22	8,581.0	8,582.0	0:43:00	0:45:00	02:00			
23	8,582.0	8,583.0	0:45:00	0:48:00	03:00			
24	8,583.0	8,584.0	0:48:00	0:50:00	02:00	4-197	8/4/2010 10:48:00	48196-2
25	8,584.0	8,585.0	0:50:00	0:53:00	03:00			
26	8,585.0	8,586.0	0:53:00	0:56:00	03:00			
27	8,586.0	8,587.0	0:56:00	0:59:00	03:00			
28	8,587.0	8,588.0	0:59:00	1:01:00	02:00			
29	8,588.0	8,589.0	1:01:00	1:04:00	03:00			
30	8,589.0	8,590.0	1:04:00	1:06:00	02:00			

NOTES:
Second liner got stuck in core barrel and caused a delay in retrieval after 8559

WFT Labs Personnel: Keith Lewis, Liz Roberts, Bob Schlauder, Scott Jensen, Ken Badger

CORE OPERATIONS

Date: 8/3-4/2010

CORE RUN: 3 Continued

OPERATOR: Noble Energy Inc.
WELL: Child VO 30-9
FIELD/PROSPECT: Atlas Field
COUNTY: Laramie
STATE: Wyoming

LAT: / LONG: 41.24056N, 104.70040W
SECTION: 30
TOWNSHIP: 15N
RANGE: 65W
ELEV (FT): GL: 5,991.0 KB: 6,006
Datum: KB

OPERATOR: Noble Energy

RIG: Ensign Rig # 128
SERVICE: Quest Coring

Core Service Company:	Quest Coring
Core Bit Type:	QC 513
Core Bit Size[1]:	7-7/8" x 4"
Core Barrel Type:	Steel
Liner Type:	AL
Coring Fluid:	Water Base
Fluid Density (ppg):	8.6
Fluid Temp. In (°F):	117.0
Fluid Temp. Out (°F):	123.0
Pump Pressure (psig):	1812.0
Pump Rate (spm/gpm):	370
Weight on Bit (lbs):	12,000
Pipe Rotation Rate (rpm):	72
Type Core (Oriented/Non-Oriented):	Non-Oriented
Formation Name:	Niobrara
Method for TOH:	Conventional
Date/Time Start Coring:	8/3/2010 22:12:00
Date/Time End Coring:	8/4/2010 03:06:00
Date/Time Start TOH:	8/4/2010 03:56:12
Date/Time Last Stand at Surface:	8/4/2010 08:07:00
Core Barrel Trip Out Time (hh:mm:ss):	4:10:48
Interval Cored (ft):	93.0
Core Length Recovered (ft):	90.7
Reservoir Temp (°F):	199.6
Surf. Temp/Press (°F/in-Hg):	55.0/24.29

[1] Exterior and Interior Diameter (inches)

CORE RUN: 3 Continued

	Top Depth	Bottom Depth	Start	End	Penetration Rate	Canister	Can Sealed Date/Time	WFT Labs
	feet, KB	feet, KB	hh:mm:ss	hh:mm:ss	mm:ss	No.	date hh:mm:ss	No.
1	8,590.0	8,591.0	1:06:00	1:10:00	04:00			
2	8,591.0	8,592.0	1:10:00	1:32:00	22:00			
3	8,592.0	8,593.0	1:32:00	1:35:00	03:00			
4	8,593.0	8,594.0	1:35:00	1:38:00	03:00			
5	8,594.0	8,595.0	1:38:00	1:42:00	04:00			
6	8,595.0	8,596.0	1:42:00	1:45:00	03:00			
7	8,596.0	8,597.0	1:45:00	1:47:00	02:00			
8	8,597.0	8,598.0	1:47:00	1:50:00	03:00			
9	8,598.0	8,599.0	1:50:00	1:53:00	03:00			
10	8,599.0	8,600.0	1:53:00	1:57:00	04:00			
11	8,600.0	8,601.0	1:57:00	2:01:00	04:00			
12	8,601.0	8,602.0	2:01:00	2:03:00	02:00			
13	8,602.0	8,603.0	2:03:00	2:06:00	03:00			
14	8,603.0	8,604.0	2:06:00	2:09:00	03:00			
15	8,604.0	8,605.0	2:09:00	2:13:00	04:00			
16	8,605.0	8,606.0	2:13:00	2:16:00	03:00			
17	8,606.0	8,607.0	2:16:00	2:19:00	03:00			
18	8,607.0	8,608.0	2:19:00	2:23:00	04:00			
19	8,608.0	8,609.0	2:23:00	2:25:00	02:00			
20	8,609.0	8,610.0	2:25:00	2:29:00	04:00			
21	8,610.0	8,611.0	2:29:00	2:31:00	02:00			
22	8,611.0	8,612.0	2:31:00	2:35:00	04:00			
23	8,612.0	8,613.0	2:35:00	2:38:00	03:00			
24	8,613.0	8,614.0	2:38:00	2:41:00	03:00			
25	8,614.0	8,615.0	2:41:00	2:43:00	02:00			
26	8,615.0	8,616.0	2:43:00	2:46:00	03:00			
27	8,616.0	8,617.0	2:46:00	2:49:00	03:00	4-249	8/4/2010 11:45:00	48196-3
28	8,617.0	8,618.0	2:49:00	2:52:00	03:00			
29	8,618.0	8,619.0	2:52:00	2:54:00	02:00			
30	8,619.0	8,620.0	2:54:00	2:57:00	03:00			
31	8,620.0	8,621.0	2:57:00	3:00:00	03:00			
32	8,621.0	8,622.0	3:00:00	3:03:00	03:00			
33	8,622.0	8,623.0	3:03:00	3:06:00	03:00			

NOTES:

WFT Labs Personnel: Keith Lewis, Liz Roberts, Bob Schlauder, Scott Jensen, Ken Badger

CORE OPERATIONS

Date: 8/4/2010

CORE RUN: 4

OPERATOR: Noble Energy Inc.
WELL: Child VO 30-9
FIELD/PROSPECT: Atlas Field
COUNTY: Laramie
STATE: Wyoming

LAT: / LONG: 41.24056N, 104.70040W
SECTION: 30
TOWNSHIP: 15N
RANGE: 65W
ELEV (FT): GL: 5,991.0 KB: 6,006
Datum: KB

OPERATOR: Noble Energy

RIG: Ensign Rig # 128
SERVICE: Quest Coring

Core Service Company:	Quest Coring
Core Bit Type:	QC 513
Core Bit Size[1]:	7-7/8" x 4"
Core Barrel Type:	Steel
Liner Type:	AL
Coring Fluid:	Water Base
Fluid Density (ppg):	8.9
Fluid Temp. In (°F):	126.5
Fluid Temp. Out (°F):	130.0
Pump Pressure (psig):	1920.0
Pump Rate (spm/gpm):	120/360
Weight on Bit (lbs):	16,000
Pipe Rotation Rate (rpm):	70
Type Core (Oriented/Non-Oriented):	Non-Oriented
Formation Name:	Niobrara
Method for TOH:	Conventional
Date/Time Start Coring:	8/4/2010 17:53:00
Date/Time End Coring:	8/4/2010 22:22:00
Date/Time Start TOH:	8/4/2010 23:14:00
Date/Time Last Stand at Surface:	8/5/2010 04:29:00
Core Barrel Trip Out Time (hh:mm:ss):	5:15:00
Interval Cored (ft):	92.0
Core Length Recovered (ft):	92.7
Reservoir Temp (°F):	201.8
Surf. Temp/Press (°F/in-Hg):	60.5/24.27

[1] Exterior and Interior Diameter (inches)

CORE RUN: 4

	Top Depth	Bottom Depth	Start	End	Penetration Rate	Canister	Can Sealed Date/Time	WFT Labs
	feet, KB	feet, KB	hh:mm:ss	hh:mm:ss	mm:ss	No.	date hh:mm:ss	No.
1	8,623.0	8,624.0	17:53:00	18:00:00	07:00			
2	8,624.0	8,625.0	18:00:00	18:07:00	07:00			
3	8,625.0	8,626.0	18:07:00	18:11:00	04:00			
4	8,626.0	8,627.0	18:11:00	18:16:00	05:00			
5	8,627.0	8,628.0	18:16:00	18:22:00	06:00			
6	8,628.0	8,629.0	18:22:00	18:25:00	03:00			
7	8,629.0	8,630.0	18:25:00	18:30:00	05:00			
8	8,630.0	8,631.0	18:30:00	18:33:00	03:00			
9	8,631.0	8,632.0	18:33:00	18:38:00	05:00			
10	8,632.0	8,633.0	18:38:00	18:42:00	04:00			
11	8,633.0	8,634.0	18:42:00	18:46:00	04:00			
12	8,634.0	8,635.0	18:46:00	18:50:00	04:00			
13	8,635.0	8,636.0	18:50:00	18:54:00	04:00			
14	8,636.0	8,637.0	18:54:00	18:59:00	05:00			
15	8,637.0	8,638.0	18:59:00	19:02:00	03:00			
16	8,638.0	8,639.0	19:02:00	19:06:00	04:00			
17	8,639.0	8,640.0	19:06:00	19:09:00	03:00			
18	8,640.0	8,641.0	19:09:00	19:13:00	04:00			
19	8,641.0	8,642.0	19:13:00	19:17:00	04:00			
20	8,642.0	8,643.0	19:17:00	19:20:00	03:00			
21	8,643.0	8,644.0	19:20:00	19:24:00	04:00			
22	8,644.0	8,645.0	19:24:00	19:27:00	03:00			
23	8,645.0	8,646.0	19:27:00	19:31:00	04:00			
24	8,646.0	8,647.0	19:31:00	19:34:00	03:00			
25	8,647.0	8,648.0	19:34:00	19:37:00	03:00			
26	8,648.0	8,649.0	19:37:00	19:40:00	03:00			
27	8,649.0	8,650.0	19:40:00	19:44:00	04:00			
28	8,650.0	8,651.0	19:44:00	19:47:00	03:00			
29	8,651.0	8,652.0	19:47:00	19:50:00	03:00			
30	8,652.0	8,653.0	19:50:00	20:23:00	33:00			

NOTES:

Coring was slow at start, suspect rubble on bottom. Unable to cut 93 feet. Barrel may be full.

WFT Labs Personnel: Keith Lewis, Liz Roberts, Bob Schlauder, Scott Jensen, Ken Badger

CORE OPERATIONS

Date: 8/4/2010

CORE RUN: 4 Continued

OPERATOR: Noble Energy Inc.
WELL: Child VO 30-9
FIELD/PROSPECT: Atlas Field
COUNTY: Laramie
STATE: Wyoming

LAT: / LONG: 41.24056N, 104.70040W
SECTION: 30
TOWNSHIP: 15N
RANGE: 65W
ELEV (FT): GL: 5,991.0 KB: 6,006
Datum: KB

OPERATOR: Noble Energy

RIG: Ensign Rig # 128
SERVICE: Quest Coring

Core Service Company:	Quest Coring
Core Bit Type:	QC 513
Core Bit Size[1]:	7-7/8" x 4"
Core Barrel Type:	Steel
Liner Type:	AL
Coring Fluid:	Water Base
Fluid Density (ppg):	8.9
Fluid Temp. In (°F):	126.5
Fluid Temp. Out (°F):	130.0
Pump Pressure (psig):	1920.0
Pump Rate (spm/gpm):	120/360
Weight on Bit (lbs):	16,000
Pipe Rotation Rate (rpm):	70
Type Core (Oriented/Non-Oriented):	Non-Oriented
Formation Name:	Niobrara
Method for TOH:	Conventional
Date/Time Start Coring:	8/4/2010 17:53:00
Date/Time End Coring:	8/4/2010 22:22:00
Date/Time Start TOH:	8/4/2010 23:14:00
Date/Time Last Stand at Surface:	8/5/2010 04:29:00
Core Barrel Trip Out Time (hh:mm:ss):	5:15:00
Interval Cored (ft):	92.0
Core Length Recovered (ft):	92.7
Reservoir Temp (°F):	201.8
Surf. Temp/Press (°F/in-Hg):	60.5/24.27

[1] Exterior and Interior Diameter (inches)

CORE RUN: 4 Continued

	Top Depth	Bottom Depth	Start	End	Penetration Rate	Canister	Can Sealed Date/Time	WFT Labs
	feet, KB	feet, KB	hh:mm:ss	hh:mm:ss	mm:ss	No.	date hh:mm:ss	No.
1	8,653.0	8,654.0	20:23:00	20:27:00	04:00			
2	8,654.0	8,655.0	20:27:00	20:31:00	04:00			
3	8,655.0	8,656.0	20:31:00	20:34:00	03:00			
4	8,656.0	8,657.0	20:34:00	20:36:00	02:00			
5	8,657.0	8,658.0	20:36:00	20:38:00	02:00			
6	8,658.0	8,659.0	20:38:00	20:39:00	01:00			
7	8,659.0	8,660.0	20:39:00	20:41:00	02:00			
8	8,660.0	8,661.0	20:41:00	20:43:00	02:00			
9	8,661.0	8,662.0	20:43:00	20:44:00	01:00			
10	8,662.0	8,663.0	20:44:00	20:46:00	02:00			
11	8,663.0	8,664.0	20:46:00	20:48:00	02:00			
12	8,664.0	8,665.0	20:48:00	20:50:00	02:00			
13	8,665.0	8,666.0	20:50:00	20:51:00	01:00			
14	8,666.0	8,667.0	20:51:00	20:53:00	02:00			
15	8,667.0	8,668.0	20:53:00	20:54:00	01:00			
16	8,668.0	8,669.0	20:54:00	20:56:00	02:00			
17	8,669.0	8,670.0	20:56:00	20:57:00	01:00			
18	8,670.0	8,671.0	20:57:00	20:59:00	02:00			
19	8,671.0	8,672.0	20:59:00	21:01:00	02:00			
20	8,672.0	8,673.0	21:01:00	21:03:00	02:00			
21	8,673.0	8,674.0	21:03:00	21:04:00	01:00	4-239	8/5/2010 05:27:47	48196-4
22	8,674.0	8,675.0	21:04:00	21:05:00	01:00			
23	8,675.0	8,676.0	21:05:00	21:06:00	01:00			
24	8,676.0	8,677.0	21:06:00	21:08:00	02:00			
25	8,677.0	8,678.0	21:08:00	21:09:00	01:00			
26	8,678.0	8,679.0	21:09:00	21:11:00	02:00			
27	8,679.0	8,680.0	21:11:00	21:13:00	02:00			
28	8,680.0	8,681.0	21:13:00	21:15:00	02:00			
29	8,681.0	8,682.0	21:15:00	21:16:00	01:00			
30	8,682.0	8,683.0	21:16:00	21:17:00	01:00			

NOTES:

Coring was slow at start, suspect rubble on bottom. Unable to cut 93 feet. Barrel may be full.

WFT Labs Personnel: Keith Lewis, Liz Roberts, Bob Schlauder, Scott Jensen, Ken Badger

CORE OPERATIONS

Date: 8/4/2010

CORE RUN: 4 Continued

OPERATOR: Noble Energy Inc.
WELL: Child VO 30-9
FIELD/PROSPECT: Atlas Field
COUNTY: Laramie
STATE: Wyoming

LAT: / LONG: 41.24056N, 104.70040W
SECTION: 30
TOWNSHIP: 15N
RANGE: 65W
ELEV (FT): GL: 5,991.0 KB: 6,006
Datum: KB

OPERATOR: Noble Energy

RIG: Ensign Rig # 128
SERVICE: Quest Coring

Core Service Company:	Quest Coring
Core Bit Type:	QC 513
Core Bit Size[1]:	7-7/8" x 4"
Core Barrel Type:	Steel
Liner Type:	AL
Coring Fluid:	Water Base
Fluid Density (ppg):	8.9
Fluid Temp. In (°F):	126.5
Fluid Temp. Out (°F):	130.0
Pump Pressure (psig):	1920.0
Pump Rate (spm/gpm):	120/360
Weight on Bit (lbs):	16,000
Pipe Rotation Rate (rpm):	70
Type Core (Oriented/Non-Oriented):	Non-Oriented
Formation Name:	Niobrara
Method for TOH:	Conventional
Date/Time Start Coring:	8/4/2010 17:53:00
Date/Time End Coring:	8/4/2010 22:22:00
Date/Time Start TOH:	8/4/2010 23:14:00
Date/Time Last Stand at Surface:	8/5/2010 04:29:00
Core Barrel Trip Out Time (hh:mm:ss):	5:15:00
Interval Cored (ft):	92.0
Core Length Recovered (ft):	92.7
Reservoir Temp (°F):	201.8
Surf. Temp/Press (°F/in-Hg):	60.5/24.27

[1] Exterior and Interior Diameter (inches)

CORE RUN: 4 Continued

	Top Depth	Bottom Depth	Start	End	Penetration Rate	Canister	Can Sealed Date/Time	WFT Labs
	feet, KB	feet, KB	hh:mm:ss	hh:mm:ss	mm:ss	No.	date hh:mm:ss	No.
1	8,683.0	8,684.0	21:17:00	21:18:00	01:00			
2	8,684.0	8,685.0	21:18:00	21:20:00	02:00			
3	8,685.0	8,686.0	21:20:00	21:33:00	13:00			
4	8,686.0	8,687.0	21:33:00	21:35:00	02:00			
5	8,687.0	8,688.0	21:35:00	21:36:00	01:00			
6	8,688.0	8,689.0	21:36:00	21:38:00	02:00			
7	8,689.0	8,690.0	21:38:00	21:40:00	02:00			
8	8,690.0	8,691.0	21:40:00	21:42:00	02:00			
9	8,691.0	8,692.0	21:42:00	21:44:00	02:00			
10	8,692.0	8,693.0	21:44:00	21:45:00	01:00			
11	8,693.0	8,694.0	21:45:00	21:47:00	02:00			
12	8,694.0	8,695.0	21:47:00	21:48:00	01:00			
13	8,695.0	8,696.0	21:48:00	21:49:00	01:00			
14	8,696.0	8,697.0	21:49:00	21:51:00	02:00			
15	8,697.0	8,698.0	21:51:00	21:53:00	02:00			
16	8,698.0	8,699.0	21:53:00	21:55:00	02:00			
17	8,699.0	8,700.0	21:55:00	21:57:00	02:00			
18	8,700.0	8,701.0	21:57:00	21:59:00	02:00			
19	8,701.0	8,702.0	21:59:00	22:01:00	02:00			
20	8,702.0	8,703.0	22:01:00	22:03:00	02:00			
21	8,703.0	8,704.0	22:03:00	22:04:00	01:00			
22	8,704.0	8,705.0	22:04:00	22:05:00	01:00			
23	8,705.0	8,706.0	22:05:00	22:07:00	02:00			
24	8,706.0	8,707.0	22:07:00	22:08:00	01:00			
25	8,707.0	8,708.0	22:08:00	22:10:00	02:00			
26	8,708.0	8,709.0	22:10:00	22:12:00	02:00			
27	8,709.0	8,710.0	22:12:00	22:13:00	01:00			
28	8,710.0	8,711.0	22:13:00	22:15:00	02:00			
29	8,711.0	8,712.0	22:15:00	22:17:00	02:00			
30	8,712.0	8,713.0	22:17:00	22:19:00	02:00			
31	8,713.0	8,714.0	22:19:00	22:20:00	01:00			
32	8,714.0	8,715.0	22:20:00	22:22:00	02:00			

NOTES:

Coring was slow at start, suspect rubble on bottom. Unable to cut 93 feet. Barrel may be full.

WFT Labs Personnel: Keith Lewis, Liz Roberts, Bob Schlauder, Scott Jensen, Ken Badger

CORE OPERATIONS

Date: 8/5/2010

CORE RUN: 5

Weatherford LABORATORIES

OPERATOR: Noble Energy Inc.
WELL: Child VO 30-9
FIELD/PROSPECT: Atlas Field
COUNTY: Laramie
STATE: Wyoming

LAT: / LONG: 41.24056N, 104.70040W
SECTION: 30
TOWNSHIP: 15N
RANGE: 65W
ELEV (FT): GL: 5,991.0 KB: 6,006
Datum: KB

OPERATOR: Noble Energy

RIG: Ensign Rig # 128
SERVICE: Quest Coring

Core Service Company:	Quest Coring
Core Bit Type:	QC 513
Core Bit Size[1]:	7-7/8" x 4"
Core Barrel Type:	Steel
Liner Type:	AL
Coring Fluid:	Water Base
Fluid Density (ppg):	8.9
Fluid Temp. In (°F):	125.0
Fluid Temp. Out (°F):	131.2
Pump Pressure (psig):	2000.0
Pump Rate (spm/gpm):	100 / 300
Weight on Bit (lbs):	15,000
Pipe Rotation Rate (rpm):	80
Type Core (Oriented/Non-Oriented):	Non-Oriented
Formation Name:	Niobrara
Method for TOH:	Conventional
Date/Time Start Coring:	8/5/2010 12:01:00
Date/Time End Coring:	8/5/2010 14:11:00
Date/Time Start TOH:	8/5/2010 16:19:00
Date/Time Last Stand at Surface:	8/5/2010 21:18:00
Core Barrel Trip Out Time (hh:mm:ss):	4:59:00
Interval Cored (ft):	36.0
Core Length Recovered (ft):	35.4
Reservoir Temp (°F):	203.3
Surf. Temp/Press (°F/in-Hg):	57.5/24.29

[1] Exterior and Interior Diameter (inches)

CORE RUN: 5

	Top Depth	Bottom Depth	Start	End	Penetration Rate	Canister	Can Sealed Date/Time	WFT Labs
	feet, KB	feet, KB	hh:mm:ss	hh:mm:ss	mm:ss	No.	date hh:mm:ss	No.
1	8,715.0	8,716.0	12:01:00	12:05:00	04:00			
2	8,716.0	8,717.0	12:05:00	12:07:00	02:00			
3	8,717.0	8,718.0	12:07:00	12:09:00	02:00			
4	8,718.0	8,719.0	12:09:00	12:10:00	01:00			
5	8,719.0	8,720.0	12:10:00	12:12:00	02:00			
6	8,720.0	8,721.0	12:12:00	12:15:00	03:00			
7	8,721.0	8,722.0	12:15:00	12:18:00	03:00			
8	8,722.0	8,723.0	12:18:00	12:20:00	02:00			
9	8,723.0	8,724.0	12:20:00	12:22:00	02:00			
10	8,724.0	8,725.0	12:22:00	12:25:00	03:00			
11	8,725.0	8,726.0	12:25:00	12:27:00	02:00			
12	8,726.0	8,727.0	12:27:00	12:30:00	03:00			
13	8,727.0	8,728.0	12:30:00	12:32:00	02:00			
14	8,728.0	8,729.0	12:32:00	12:35:00	03:00	4-250	8/5/2010 22:41:33	48196-5
15	8,729.0	8,730.0	12:35:00	12:37:00	02:00			
16	8,730.0	8,731.0	12:37:00	12:39:00	02:00			
17	8,731.0	8,732.0	12:39:00	12:42:00	03:00			
18	8,732.0	8,733.0	12:42:00	12:45:00	03:00			
19	8,733.0	8,734.0	12:45:00	12:47:00	02:00			
20	8,734.0	8,735.0	12:47:00	12:49:00	02:00			
21	8,735.0	8,736.0	12:49:00	12:51:00	02:00			
22	8,736.0	8,737.0	12:51:00	12:53:00	02:00			
23	8,737.0	8,738.0	12:53:00	12:56:00	03:00			
24	8,738.0	8,739.0	12:56:00	12:57:00	01:00			
25	8,739.0	8,740.0	12:57:00	12:58:00	01:00			
26	8,740.0	8,741.0	12:58:00	13:01:00	03:00			
27	8,741.0	8,742.0	13:01:00	13:04:00	03:00			
28	8,742.0	8,743.0	13:04:00	13:06:00	02:00			
29	8,743.0	8,744.0	13:06:00	13:09:00	03:00			
30	8,744.0	8,745.0	13:09:00	13:14:00	05:00			
31	8,745.0	8,746.0	13:14:00	13:27:00	13:00			
32	8,746.0	8,747.0	13:27:00	13:32:00	05:00			
33	8,747.0	8,748.0	13:32:00	13:47:00	15:00			
34	8,748.0	8,749.0	13:47:00	13:49:00	02:00			
35	8,749.0	8,750.0	13:49:00	13:54:00	05:00			
36	8,750.0	8,751.0	13:54:00	14:11:00	17:00			

NOTES:

Rig had pump problems after making first connection, these problems were worked on and after fixing pumps

Quest tried to core again but could not continue the decision was made to trip out.

TOH was slower due to bad weather.

WFT Labs Personnel: Keith Lewis, Liz Roberts, Bob Schlauder, Scott Jensen, Ken Badger

CORE OPERATIONS

Date: 8/6/2010

CORE RUN: 6

OPERATOR: Noble Energy Inc.
WELL: Child VO 30-9
FIELD/PROSPECT: Atlas Field
COUNTY: Laramie
STATE: Wyoming

LAT: / LONG: 41.24056N, 104.70040W
SECTION: 30
TOWNSHIP: 15N
RANGE: 65W
ELEV (FT): GL: 5,991.0 KB: 6,006
Datum: KB

OPERATOR: Noble Energy

RIG: Ensign Rig # 128
SERVICE: Quest Coring

Core Service Company:	Quest Coring
Core Bit Type:	QC 513
Core Bit Size[1]:	7-7/8" x 4"
Core Barrel Type:	Steel
Liner Type:	AL
Coring Fluid:	Water Base
Fluid Density (ppg):	8.9
Fluid Temp. In (°F):	125.0
Fluid Temp. Out (°F):	130.0
Pump Pressure (psig):	1792-2000
Pump Rate (spm/gpm):	100 / 300
Weight on Bit (lbs):	9,000-20,000
Pipe Rotation Rate (rpm):	45-92
Type Core (Oriented/Non-Oriented):	Non-Oriented
Formation Name:	Niobrara
Method for TOH:	Conventional
Date/Time Start Coring:	8/6/2001 04:22:00
Date/Time End Coring:	8/6/2010 11:15:00
Date/Time Start TOH:	8/6/2010 11:58:00
Date/Time Last Stand at Surface:	8/6/2010 16:29:00
Core Barrel Trip Out Time (hh:mm:ss):	4:31:00
Interval Cored (ft):	64.0
Core Length Recovered (ft):	48.9
Reservoir Temp (°F):	204.4
Surf. Temp/Press (°F/in-Hg):	65 / 24.15

[1] Exterior and Interior Diameter (inches)

CORE RUN: 6

	Top Depth	Bottom Depth	Start	End	Penetration Rate	Canister	Can Sealed Date/Time	WFT Labs
	feet, KB	feet, KB	hh:mm:ss	hh:mm:ss	mm:ss	No.	date hh:mm:ss	No.
1	8,751.0	8,752.0	4:22:00	4:27:00	05:00			
2	8,752.0	8,753.0	4:27:00	4:31:00	04:00			
3	8,753.0	8,754.0	4:31:00	4:36:00	05:00			
4	8,754.0	8,755.0	4:36:00	4:41:00	05:00			
5	8,755.0	8,756.0	4:41:00	4:44:00	03:00			
6	8,756.0	8,757.0	4:44:00	4:47:00	03:00			
7	8,757.0	8,758.0	4:47:00	4:50:00	03:00			
8	8,758.0	8,759.0	4:50:00	4:52:00	02:00			
9	8,759.0	8,760.0	4:52:00	4:54:00	02:00			
10	8,760.0	8,761.0	4:54:00	4:57:00	03:00			
11	8,761.0	8,762.0	4:57:00	4:59:00	02:00			
12	8,762.0	8,763.0	4:59:00	5:02:00	03:00			
13	8,763.0	8,764.0	5:02:00	5:04:00	02:00			
14	8,764.0	8,765.0	5:04:00	5:07:00	03:00			
15	8,765.0	8,766.0	5:07:00	5:09:00	02:00			
16	8,766.0	8,767.0	5:09:00	5:11:00	02:00			
17	8,767.0	8,768.0	5:11:00	5:14:00	03:00			
18	8,768.0	8,769.0	5:14:00	5:16:00	02:00			
19	8,769.0	8,770.0	5:16:00	5:19:00	03:00			
20	8,770.0	8,771.0	5:19:00	5:21:00	02:00			
21	8,771.0	8,772.0	5:21:00	5:24:00	03:00			
22	8,772.0	8,773.0	5:24:00	5:28:00	04:00			
23	8,773.0	8,774.0	5:28:00	5:30:00	02:00			
24	8,774.0	8,775.0	5:30:00	5:31:00	01:00			
25	8,775.0	8,776.0	5:31:00	5:34:00	03:00			
26	8,776.0	8,777.0	5:34:00	5:48:00	14:00			
27	8,777.0	8,778.0	5:48:00	6:47:00	59:00			
28	8,778.0	8,779.0	6:47:00	6:50:00	03:00			
29	8,779.0	8,780.0	6:50:00	6:53:00	03:00			
30	8,780.0	8,781.0	6:53:00	7:02:00	09:00			

NOTES:

WFT Labs Personnel: Keith Lewis, Liz Roberts, Bob Schlauder, Scott Jensen, Ken Badger

CORE OPERATIONS

Date: 8/6/2010

CORE RUN: 6 Continued

OPERATOR:	Noble Energy Inc.	**LAT: / LONG:**	41.24056N, 104.70040W
WELL:	Child VO 30-9	**SECTION:**	30
FIELD/PROSPECT:	Atlas Field	**TOWNSHIP:**	15N
COUNTY:	Laramie	**RANGE:**	65W
STATE:	Wyoming	**ELEV (FT):**	GL: 5,991.0 KB: 6,006
			Datum: KB

OPERATOR: **Noble Energy**

RIG: **Ensign Rig # 128**

SERVICE: **Quest Coring**

Core Service Company:	Quest Coring
Core Bit Type:	QC 513
Core Bit Size[1]:	7-7/8" x 4"
Core Barrel Type:	Steel
Liner Type:	AL
Coring Fluid:	Water Base
Fluid Density (ppg):	8.9
Fluid Temp. In (°F):	125.0
Fluid Temp. Out (°F):	130.0
Pump Pressure (psig):	1792-2000
Pump Rate (spm/gpm):	100 / 300
Weight on Bit (lbs):	9,000-20,000
Pipe Rotation Rate (rpm):	45-92
Type Core (Oriented/Non-Oriented):	Non-Oriented
Formation Name:	Niobrara/Ft.
Method for TOH:	Conventional
Date/Time Start Coring:	8/6/2001 04:22:00
Date/Time End Coring:	8/6/2010 11:15:00
Date/Time Start TOH:	8/6/2010 11:58:00
Date/Time Last Stand at Surface:	8/6/2010 16:29:00
Core Barrel Trip Out Time (hh:mm:ss):	4:31:00
Interval Cored (ft):	64.0
Core Length Recovered (ft):	48.9
Reservoir Temp (°F):	204.4
Surf. Temp/Press (°F/in-Hg):	65 / 24.15

[1] Exterior and Interior Diameter (inches)

CORE RUN: 6 Continued

	Top Depth	Bottom Depth	Start	End	Penetration Rate	Canister	Can Sealed Date/Time	WFT Labs
	feet, KB	feet, KB	hh:mm:ss	hh:mm:ss	mm:ss	No.	date hh:mm:ss	No.
1	8,781.0	8,782.0	7:02:00	7:06:00	04:00			
2	8,782.0	8,783.0	7:06:00	7:10:00	04:00			
3	8,783.0	8,784.0	7:10:00	7:12:00	02:00			
4	8,784.0	8,785.0	7:12:00	7:20:00	08:00			
5	8,785.0	8,786.0	7:20:00	7:40:00	20:00			
6	8,786.0	8,787.0	7:40:00	7:45:00	05:00			
7	8,787.0	8,788.0	7:45:00	7:47:00	02:00			
8	8,788.0	8,789.0	7:47:00	7:48:00	01:00			
9	8,789.0	8,790.0	7:48:00	7:50:00	02:00			
10	8,790.0	8,791.0	7:50:00	7:53:00	03:00			
11	8,791.0	8,792.0	7:53:00	7:56:00	03:00			
12	8,792.0	8,793.0	7:56:00	7:59:00	03:00			
13	8,793.0	8,794.0	7:59:00	8:01:00	02:00			
14	8,794.0	8,795.0	8:01:00	8:04:00	03:00			
15	8,795.0	8,796.0	8:04:00	8:06:00	02:00			
16	8,796.0	8,797.0	8:06:00	8:08:00	02:00			
17	8,797.0	8,798.0	8:08:00	8:11:00	03:00			
18	8,798.0	8,799.0	8:11:00	8:33:00	22:00			
19	8,799.0	8,800.0	8:33:00	8:53:00	20:00			
20	8,800.0	8,801.0	8:53:00	9:27:00	34:00			
21	8,801.0	8,802.0	9:27:00	9:47:00	20:00			
22	8,802.0	8,803.0	9:47:00	9:52:00	05:00			
23	8,803.0	8,804.0	9:52:00	10:01:00	09:00			
24	8,804.0	8,805.0	10:01:00	10:07:00	06:00			
25	8,805.0	8,806.0	10:07:00	10:13:00	06:00			
26	8,806.0	8,807.0	10:13:00	10:20:00	07:00			
27	8,807.0	8,808.0	10:20:00	10:29:00	09:00			
28	8,808.0	8,809.0	10:29:00	10:35:00	06:00			
29	8,809.0	8,810.0	10:35:00	10:42:00	07:00			
30	8,810.0	8,811.0	10:42:00	10:48:00	06:00			
31	8,811.0	8,812.0	10:48:00	10:56:00	08:00			
32	8,812.0	8,813.0	10:56:00	11:02:00	06:00			
33	8,813.0	8,814.0	11:02:00	11:09:00	07:00			
34	8,814.0	8,815.0	11:09:00	11:15:00	06:00			

NOTES:

WFT Labs Personnel: Keith Lewis, Liz Roberts, Bob Schlauder, Scott Jensen, Ken Badger

Appendix II

Noble Energy Inc.
Child VO 30-9
DJ Basin
Niobrara Shale Formation

Daily Field Reports

Weatherford
LABORATORIES

Daily Field Report - 1

Submitted To: Dan Rozman
Submitted By: Keith Lewis and Liz Roberts

Start Time: 13:00:00 **Date:** 7/30/2010 **Finish Time:** 0:00:00 **Date:** 7/31/2010
Well: Child VO 30-9
Surface Location: 41.24056N, 104.7004W **Elevation:** GL: 5,991.0' KB: 6,006'
API: 49-021-20639 **Note:** All depths from Kelly Bushing
County/State: Laramie County, Wyoming
Project: 48196

Todays Activities: Weatherford Laboratories (WFT) personnel left the Golden Colorado office at 13:30 and drove to the Child VO 30-9 well location. After arriving on location at 17:00 hours WFT personnel spoke with company man Tawn Bowman who informed them that coring would not start until the next afternoon at the earliest. WFT spotted trailer at the end of catwalk and secured equipment.

Daily Field Report - 2

Submitted To: Dan Rozman
Submitted By: Keith Lewis and Liz Roberts

Start Time: 0:00:00 **Date:** 7/31/2010 **Finish Time:** 0:00:00 **Date:** 8/1/2010
Well: Child VO 30-9
Surface Location: 41.24056N, 104.7004W **Elevation:** GL: 5,991.0' KB: 6,006'
API: 49-021-20639 **Note:** All depths from Kelly Bushing
County/State: Laramie County, Wyoming
Project: 48196

Todays Activities: WFT personnel arrived on location checked and setup all equipment. No issues were encountered, mobile lab was ready to go at 11:00.

Daily Field Report - 3

Submitted To: Dan Rozman
Submitted By: Keith Lewis and Liz Roberts

Start Time: 0:00:00 **Date:** 8/1/2010 **Finish Time:** 0:00:00 **Date:** 8/2/2010
Well: Child VO 30-9
Surface Location: 41.24056N, 104.7004W **Elevation:** GL: 5,991.0' KB: 6,006'
API: 49-021-20639 **Note:** All depths from Kelly Bushing
County/State: Laramie County, Wyoming
Project: 48196

Todays Activities: Rig was drillling, reaming and tripping throughout this report period.

Daily Field Report - 4

Submitted To: Dan Rozman
Submitted By: Keith Lewis and Liz Roberts

Start Time: 0:00:00 **Date:** 8/2/2010 **Finish Time:** 0:00:00 **Date:** 8/3/2010
Well: Child VO 30-9
Surface Location: 41.24056N, 104.7004W **Elevation:** GL: 5,991.0' KB: 6,006'
API: 49-021-20639 **Note:** All depths from Kelly Bushing
County/State: Laramie County, Wyoming
Project: 48196

Cored Interval:	8,417.0-8,437.6	Core Length Recovered:	19.5 ft
Formation Name(s):	Shannon Springs	Total Shale Thickness:	
Head Space Filler:	NA	Drilling Fluid:	water-based mud
Core Barrel Type/Size:	Steel barrel with solid aluminum liner	Core Bit Type/Size:	DC 613/ 7-7/8" x 4"

Today's Activities: WFT personnel arrived on location and prepared mobile laboratory for core collection. Core run 1 began at 5:05 and continued until 12:30 with a total of 20.6 feet cored due to hole stability issues. Core reach surface at 18:12. A total of 19.5 ft of core was recovered. WFT personnel processed the recovered core and performed wellsite gamma. The core barrel was being tripped throughout the remainder of this reporting period.

Summary of Coring Operations

Core Run	Formation Name	Cored Interval Top	Cored Interval Bottom	Cored Length Cored	Core Length Recovered	Recovery Percentage	Time Start Coring	Time End Coring	Time Start TOH	Time Core at Surface	Core Recovery Time
#		feet	feet	feet	feet	%	hh:mm:ss	hh:mm:ss	hh:mm:ss	hh:mm:ss	hh:mm:ss
1	Shannon Springs	8,417.0	8,437.6	20.6	19.5	94.7	05:05:00	12:30:00	13:25:00	18:12:00	04:47:00

Daily Field Report - 5

Submitted To: Dan Rozman
Submitted By: Keith Lewis and Liz Roberts

Start Time: 0:00:00 **Date:** 8/3/2010 **Finish Time:** 0:00:00 **Date:** 8/4/2010
Well: Child VO 30-9
Surface Location: 41.24056N, 104.7004W **Elevation:** GL:5,991.0' KB:6,006'
API: 49-021-20639 **Note:** All depths from Kelly Bushing
County/State: Laramie County, Wyoming
Project: 48196

Cored Interval:	8,437.0-8,530.0	Core Length Recovered:	93.3
Formation Name(s):	Shannon Springs / Niobrara	Total Shale Thickness:	56
Head Space Filler:	NA	Drilling Fluid:	water-based mud
Core Barrel Type/Size:	Steel barrel with solid aluminum liner	Core Bit Type/Size:	QC 513/ 7-7/8" x 4"

Today's Activities: The core barrel was TIH at the beginning of this reporting period. There were no issues encountered during run 2. It was decided after the completion of run 2 that using a "core cradle" would pose a safety hazard in the lay down process so no "cradle" was used. A discussion with WFT managers and Nobile Energy Managers was conducted during the trip out and it was decided that no desorption samples would be collected from core run 2 until after the gamma was run and the data was processed. Dan Rozman may pick samples from core run 2 on its way to the Golden office to be collected upon its arrival. Core was on surface at 13:34 and left location at 17:30. The core barrel was TIH and core run 3 began at 22:12 and was in progress through the remainder of this reporting period.

Contact of the Sharon Springs and Niobrara formation was determined to be roughly -8,474 feet.

Summary of Coring Operations

Core Run	Formation Name	Cored Interval Top	Cored Interval Bottom	Cored Length Cored	Core Length Recovered	Recovery Percentage	Time Start Coring	Time End Coring	Time Start TOH	Time Core at Surface	Core Recovery Time
#		feet	feet	feet	feet	%	hh:mm:ss	hh:mm:ss	hh:mm:ss	hh:mm:ss	hh:mm:ss
2	Shannon Springs / Niobrara	8,437.0	8,530.0	93.0	93.3	9,042.9	03:03:00	09:01:00	09:13:00	13:34:00	04:21:00

Daily Field Report - 6

Submitted To: Dan Rozman
Submitted By: Keith Lewis and Liz Roberts

Start Time: 0:00:00 **Date:** 8/4/2010 **Finish Time:** 0:00:00 **Date:** 8/5/2010
Well: Child VO 30-9
Surface Location: 41.24056N, 104.7004W **Elevation:** GL: 5,991.0' KB: 6,006'
API: 49-021-20639 **Note:** All depths from Kelly Bushing
County/State: Laramie County, Wyoming
Project: 48196

Cored Interval:	8,530.0-8,623.0	Core Length Recovered:	90.7
Formation Name(s):	Niobrara	Total Shale Thickness:	241
Head Space Filler:	Silica Sand	Drilling Fluid:	water-based mud
Core Barrel Type/Size:	Steel barrel with solid aluminum liner	Core Bit Type/Size:	QC 513/ 7-7/8" x 4"

Today's Activities: Core run 3 was in progress at the beginning of this reporting period and was completed at 3:06. TOH began at 3:56 and the core was on surface at 8:07. While trying to receive the core the linner became stuck due to granuals in the mud (almost like fine gravel) between the linner and barrel, this caused some serious issues with lost gas times. The top 20 foot was pulled up and cut off and brought down to the cat walk at 10:00. then the remaining linner was cut into other pieces and bought down when they could get it unstuck. The last section of the linner was on surface at 11:35. Three desorption and three wax preservation samples were collected from core run 3. Gamma and core processing was complete at 14:00, at this time a WFT hand drove the core back to the WFT office in Golden, CO. TIH began for core run 4 and coring began at 17:53. Coring was completed at 22:22 with a total of 92 feet cut. TOH began at 23:14 and was in progress through the remainder of this

Summary of Coring Operations

Core Run	Formation Name	Cored Interval Top	Cored Interval Bottom	Cored Length Cored	Core Length Recovered	Recovery Percentage	Time Start Coring	Time End Coring	Time Start TOH	Time Core at Surface	Core Recovery Time
#		*feet*	*feet*	*feet*	*feet*	*%*	*hh:mm:ss*	*hh:mm:ss*	*hh:mm:ss*	*hh:mm:ss*	*hh:mm:ss*
3	Niobrara	8,530.0	8,623.0	93.0	90.7	97.5	22:12:00	03:03:00	03:56:12	08:07:00	04:10:48
4	Niobrara	8,623.0	8,715.0	92.0	92.7	100.8	17:53:00	22:22:00	23:14:00	04:29:00	05:15:00

Daily Field Report - 6

Weatherford LABORATORIES

Desorption Sample Collection Summary									
Sample ID	Can	Sample Depth Interval		Bath Temp (Circ. Temp. / Res.Temp)		Additional Tests	Time Canister Sealed	Core Run	Comments on Sample
#	#	feet	feet	°F				#	
48196-1	4-168	8,568.0	8,569.0	120.0	170.0	GCISO	8/4/2010 10:37:00	3	
48196-2	4-197	8,583.0	8,584.0	120.0	170.0	GCISO	8/4/2010 10:48:00	3	
48196-3	4-249	8,616.0	8,617.0	120.0	170.0	GCISO	8/4/2010 11:45:00	3	

Preserved Sample Collection Summary						
Sample ID	Sample Depth Interval		Weight of Core	Time Sealed	Core Run	Comments on Sample
#	feet	feet			#	
48196-1P	8569	8570	5964	12:35	3	
48196-2P	8584	8585	5716	12:40	3	
48196-3P	8617	8618	5984	13:30	3	

Daily Field Report - 7

Submitted To: Dan Rozman
Submitted By: Keith Lewis and Liz Roberts

Start Time: 0:00:00 **Date:** 8/5/2010 **Finish Time:** 0:00:00 **Date:** 8/6/2010
Well: Child VO 30-9
Surface Location: 41.24056N, 104.7004W **Elevation:** GL: 5,991.0' KB: 6,006'
API: 49-021-20639 **Note:** All depths from Kelly Bushing
County/State: Laramie County, Wyoming
Project: 48196

Cored Interval:	8,623.0-8,751.0	Core Length Recovered:	128.1
Formation Name(s):	Niobrara	Total Shale Thickness:	277
Head Space Filler:	Silica Sand	Drilling Fluid:	water-based mud
Core Barrel Type/Size:	Steel barrel with solid aluminum liner	Core Bit Type/Size:	QC 513/ 7-7/8" x 4"

Today's Activities: TOH for core run 4 was in progress at the beginning of this reporting period. Core run 4 reached surface at 4:29. Gamma and core processing were complete at 8:00 unsampled core was transported back to WFT office in Golden Colorado at this time. TIH began shortly after core reached surface. Core run 5 began at 12:01 and was stopped due to pump problems that occured during the first connection. TOH began at 16:19 and reached surface at 21:18. Gamma and core processing were begin completed at the end of this reporting period.

Summary of Coring Operations

Core Run	Formation Name	Cored Interval Top	Cored Interval Bottom	Cored Length Cored	Core Length Recovered	Recovery Percentage	Time Start Coring	Time End Coring	Time Start TOH	Time Core at Surface	Core Recovery Time
#		feet	feet	feet	feet	%	hh:mm:ss	hh:mm:ss	hh:mm:ss	hh:mm:ss	hh:mm:ss
4	Niobrara	8,623.0	8,715.0	92.0	92.7	100.8	17:53:00	22:22:00	23:14:00	04:29:00	05:15:00
5	Niobrara	8,715.0	8,751.0	36.0	35.4	98.3	12:01:00	14:11:00	16:19:00	21:18:00	04:59:00

Daily Field Report - 7

Weatherford LABORATORIES

Desorption Sample Collection Summary									
Sample ID	Can	Sample Depth Interval		Bath Temp (Circ. Temp. / Res.Temp)		Additional Tests	Time Canister Sealed	Core Run	Comments on Sample
#	#	feet	feet	°F				#	
48196-4	4-239	8,673.0	8,674.0	130.0	170.0	GC / ISO	8/5/2010 05:27:47	4	Friable
48196-5	4-250	8,728.0	8,729.0	130.0	170.0	GC / ISO	8/5/2010 22:41:33	5	

Preserved Sample Collection Summary						
Sample ID	Sample Depth Interval		Weight of Core	Time Sealed	Core Run	Comments on Sample
#	feet	feet			#	
48196-4P	8674	8675	5728	7:15	4	Friable
48196-5P	8727	8728	5924	23:55	5	

Daily Field Report - 8

Submitted To: Dan Rozman
Submitted By: Keith Lewis and Liz Roberts

Start Time: 0:00:00 **Date:** 8/6/2010 **Finish Time:** 2:30:00 **Date:** 8/7/2010
Well: Child VO 30-9
Surface Location: 41.24056N, 104.7004W **Elevation:** GL: 5,991.0' KB:6,006'
API: 49-021-20639 **Note:** All depths from Kelly Bushing
County/State: Laramie County, Wyoming
Project: 48196

Cored Interval:	8,751.0-8815	Core Length Recovered:	48.9
Formation Name(s):	Niobrara / Ft. Hayes / Codell	Total Shale Thickness:	
Head Space Filler:	Silica Sand	Drilling Fluid:	water-based mud
Core Barrel Type/Size:	Steel barrel with solid aluminum liner	Core Bit Type/Size:	QC 513/ 7-7/8" x 4"

Today's Activities: Gamma and core processing for core run 5 were completed at the beginning of this reporting period and unsampled core was transported back to WFT office in Golden Colorado at this time.

Core run 6 began at 4:22 and was completed at 11:15. Core was on surface at 16:29. Core run 6 was processed and gamma was ran on core, the core was then taken directly to WFT lab in Golden Colorado. At 23:00 WFT personnel mobilized field lab for travel, iced the five canister gas samples and also headed to WFT lab in Golden Colorado. Samples arrive in Golden lab and were placed in 170 degree F baths upon arrival at 2:30 of 8/7/2010.

Summary of Coring Operations

Core Run	Formation Name	Cored Interval Top	Cored Interval Bottom	Cored Length Cored	Core Length Recovered	Recovery Percentage	Time Start Coring	Time End Coring	Time Start TOH	Time Core at Surface	Core Recovery Time
#		*feet*	*feet*	*feet*	*feet*	*%*	*hh:mm:ss*	*hh:mm:ss*	*hh:mm:ss*	*hh:mm:ss*	*hh:mm:ss*
6	Niobrara / Ft. Hays /Codell	8,751.0	8,815.0	64.0	48.9	76.4	04:22:00	11:15:00	11:58:00	16:29:00	04:31:00

Appendix III

Noble Energy Inc.
Child VO 30-9
DJ Basin
Niobrara Shale Formation

Core Photos

Core Photography

Noble Energy Inc.

Child VO 30-9, (4-inch diameter) conventional tripped core

Core Run # 3

Niobrara	WFT Labs 48196-1	8,568.0 - 8,569.0

Weatherford LABORATORIES

Core Photography

Noble Energy Inc.

Child VO 30-9, Whole core preservation samples collected adjacent to canister gas samples

Core Run # 3

Niobrara	WFT Labs 48196-1P	8,569.0 - 8,570.0

Weatherford LABORATORIES

Core Photography

Noble Energy Inc.

Child VO 30-9, (4-inch diameter) conventional tripped core

Core Run # 3

Niobrara	WFT Labs 48196-2	8,583.0 - 8,584.0

Weatherford LABORATORIES

Core Photography

Noble Energy Inc.

Child VO 30-9, Whole core preservation samples collected adjacent to canister gas samples

Core Run # 3

Niobrara	WFT Labs 48196-2P	8,584.0 - 8,585.0

Weatherford LABORATORIES

Core Photography

Noble Energy Inc.

Child VO 30-9, (4-inch diameter) conventional tripped core

Core Run # 3

Niobrara	WFT Labs 48196-3	8,616.0 - 8,617.0

Weatherford LABORATORIES

Core Photography

Noble Energy Inc.

Child VO 30-9, Whole core preservation samples collected adjacent to canister gas samples

Core Run # 3

Niobrara	WFT Labs 48196-3P	8,617.0 - 8,618.0

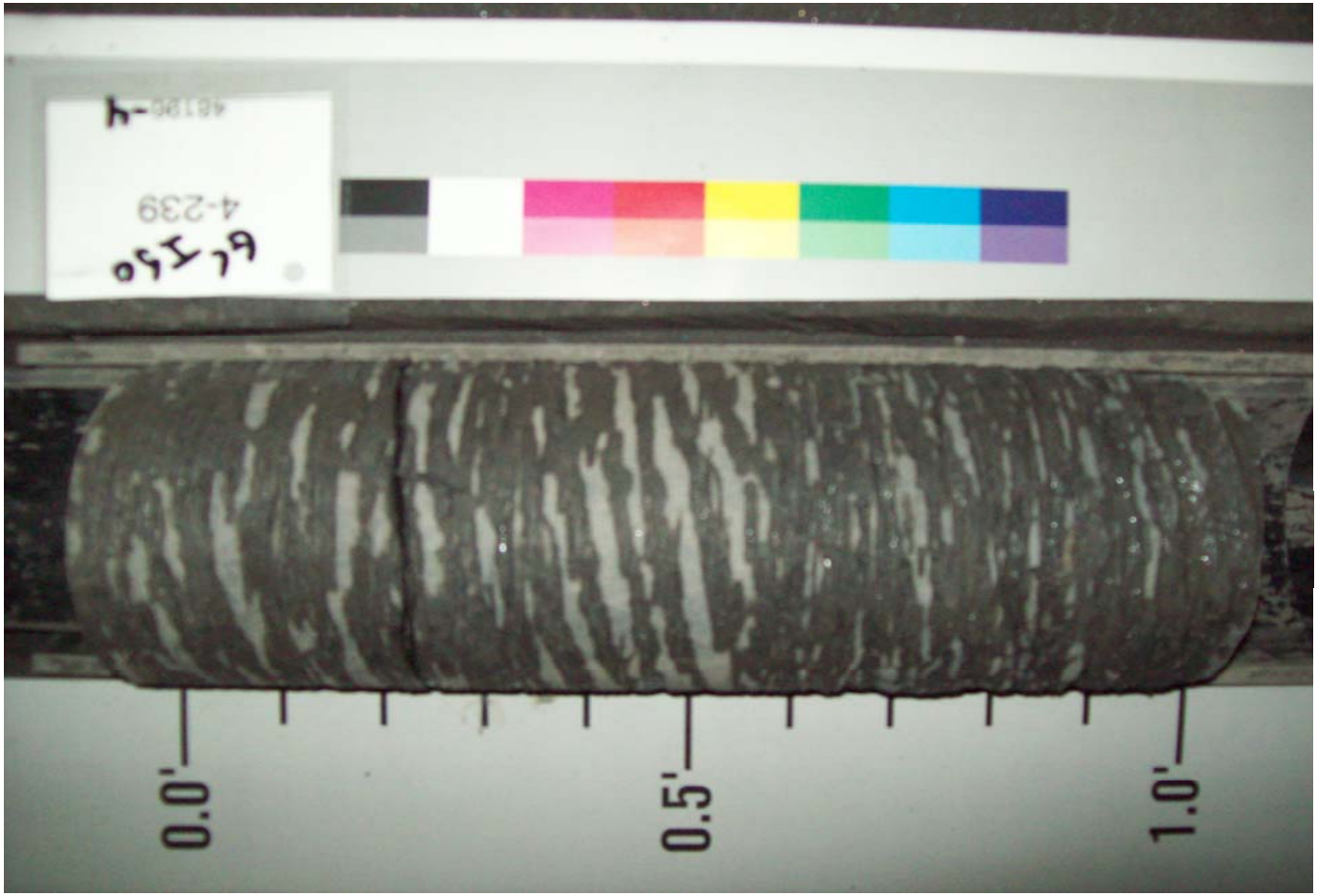
Weatherford LABORATORIES

Core Photography

Noble Energy Inc.

Child VO 30-9, 4-inch conventional tripped core

Core Run # 4



Niobrara	WFT Labs 48196-4	8,673.0 - 8,674.0

Weatherford LABORATORIES

Core Photography

Noble Energy Inc.

Child VO 30-9, Whole core preservation samples collected adjacent to canister gas samples

Core Run # 4

Picture not available

Niobrara	WFT Labs 48196-4P	8,674.0 - 8,675.0

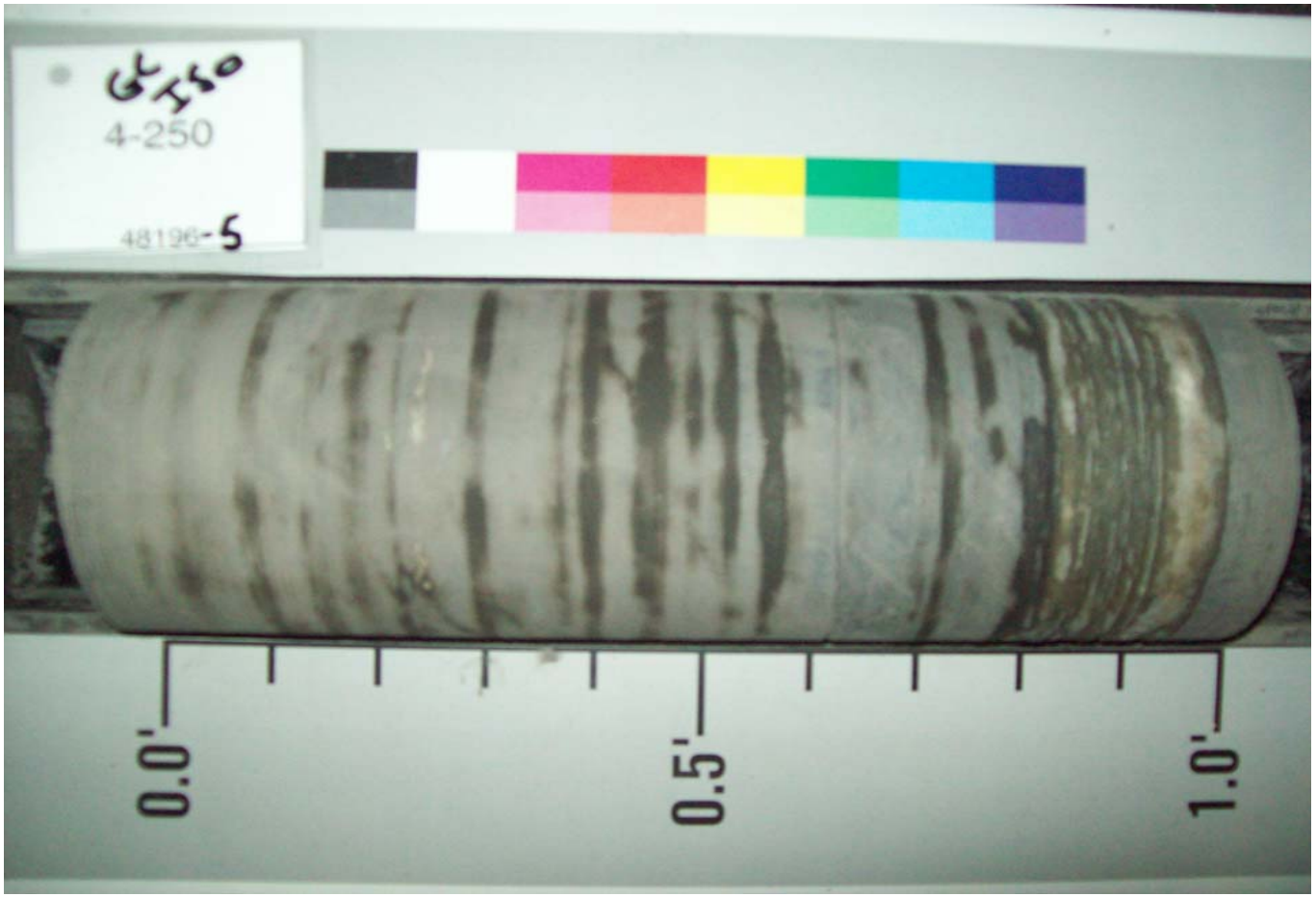
Weatherford LABORATORIES

Core Photography

Noble Energy Inc.

Child VO 30-9, (4-inch diameter) conventional tripped core

Core Run # 5



Niobrara	WFT Labs 48196-5	8,728.0 - 8,729.0

Weatherford LABORATORIES

Core Photography

Noble Energy Inc.

Child VO 30-9, Whole core preservation samples collected adjacent to canister gas samples

Core Run # 5

Niobrara	WFT Labs 48196-5P	8,727.0 - 8,728.0

Weatherford LABORATORIES

Appendix IV

Noble Energy Inc.
Child VO 30-9
DJ Basin
Niobrara Shale Formation

Core Inventory

Weatherford
LABORATORIES

8/2/2010

Wellsite Tubelist
Designate Each Cannister Sample/Core-Seal W/C As A "Tube"

Noble Energy Inc.
Child VO 30-9
Atlas Field

Shannon Springs
Laramie County, WY
File: DN-48196

Core No. 1				
Tube Number	Top Depth, feet	Bottom Depth, feet	Comments:	Tube Length
1	8417.00	8420.00		3.00
2	8420.00	8423.00		3.00
3	8423.00	8426.00		3.00
4	8426.00	8429.00		3.00
5	8429.00	8432.00		3.00
6	8432.00	8435.50		3.50
7	8435.50	8436.50	Box	1.00
			Total Footage:	19.50

8/3/2010

Weatherford LABORATORIES

Wellsite Tubelist
Designate Each Cannister Sample/Core-Seal W/C As A "Tube"

Noble Energy Inc.
Child VO 30-9
Atlas Field

Shannon Springs/Niobara
Laramie County, WY
File: DN-48196

Core No. 2				
Tube Number	Top Depth, feet	Bottom Depth, feet	Comments:	Tube Length
1	8437.0	8440.0		3.00
2	8440.0	8443.0		3.00
3	8443.0	8446.0		3.00
4	8446.0	8449.0		3.00
5	8449.0	8452.0		3.00
6	8452.0	8455.0		3.00
7	8455.0	8458.0		3.00
8	8458.0	8461.0		3.00
9	8461.0	8464.0		3.00
10	8464.0	8467.1		3.10
11	8467.1	8468.1	box	1.00
12	8468.1	8471.0		2.90
13	8471.0	8474.0		3.00
14	8474.0	8477.0		3.00
15	8477.0	8480.0		3.00
16	8480.0	8483.0		3.00
17	8483.0	8486.0		3.00
18	8486.0	8489.0		3.00
19	8489.0	8492.0		3.00
20	8492.0	8495.0		3.00
21	8495.0	8498.2		3.20
22	8498.2	8499.2	box	1.00
23	8499.2	8502.0		2.80
24	8502.0	8505.0		3.00
25	8505.0	8508.0		3.00
26	8508.0	8511.0		3.00

8/3/2010

Weatherford LABORATORIES

Wellsite Tubelist
Designate Each Cannister Sample/Core-Seal W/C As A "Tube"

Noble Energy Inc.
Child VO 30-9
Atlas Field

Shannon Springs/Niobara
Laramie County, WY
File: DN-48196

Core No. 2				
Tube Number	Top Depth, feet	Bottom Depth, feet	Comments:	Tube Length
27	8511.0	8514.0		3.00
28	8514.0	8517.0		3.00
29	8517.0	8520.0		3.00
30	8520.0	8523.0		3.00
31	8523.0	8526.0		3.00
32	8526.0	8529.3		3.30
33	8529.3	8530.3	box	1.00
			Total Footage:	93.30

8/4/2010

Weatherford LABORATORIES

Wellsite Tubelist
Designate Each Cannister Sample/Core-Seal W/C As A "Tube"

Noble Energy Inc.
Child VO 30-9
Atlas Field

Niobrara
Laramie County, WY
File: DN-48196

Core No. 3				
Tube Number	Top Depth, feet	Bottom Depth, feet	Comments:	Tube Length
1	8530.30	8533.00		2.70
2	8533.00	8536.00		3.00
3	8536.00	8539.00		3.00
4	8539.00	8542.00		3.00
5	8542.00	8545.00		3.00
6	8545.00	8548.00		3.00
7	8548.00	8551.00		3.00
8	8551.00	8554.00		3.00
9	8554.00	8557.00		3.00
10	8557.00	8559.30		2.30
11	8559.30	8560.70	box	1.40
12	8560.70	8564.00		3.30
13	8564.00	8567.00		3.00
14	8567.00	8568.00		1.00
15	8568.00	8569.00	48196-1	1.00
16	8569.00	8570.00	48196-1P	1.00
17	8570.00	8573.00		3.00
18	8573.00	8576.00		3.00
19	8576.00	8579.00		3.00
20	8579.00	8582.00		3.00
21	8582.00	8583.00		1.00
22	8583.00	8584.00	48196-2	1.00
23	8584.00	8585.00	48196-2P	1.00
24	8585.00	8585.80		0.80
25	8585.80	8588.00		2.20
26	8588.00	8589.60		1.60

8/4/2010

Weatherford LABORATORIES

Wellsite Tubelist
Designate Each Cannister Sample/Core-Seal W/C As A "Tube"

Noble Energy Inc.
Child VO 30-9
Atlas Field

Niobrara
Laramie County, WY
File: DN-48196

Core No. 3				
Tube Number	Top Depth, feet	Bottom Depth, feet	Comments:	Tube Length
27	8589.60	8591.00	box	1.40
28	8591.00	8594.00		3.00
29	8594.00	8597.00		3.00
30	8597.00	8600.00		3.00
31	8600.00	8603.00		3.00
32	8603.00	8606.00		3.00
33	8606.00	8609.00		3.00
34	8609.00	8612.00		3.00
35	8612.00	8615.00		3.00
36	8615.00	8616.00		1.00
37	8616.00	8617.00	48196-3	1.00
38	8617.00	8618.00	48196-3P	1.00
39	8618.00	8620.40		2.40
40	8620.40	8621.00	box	0.60
			Total Footage:	90.70

8/5/2010

Weatherford LABORATORIES

Wellsite Tubelist
Designate Each Cannister Sample/Core-Seal W/C As A "Tube"

Noble Energy Inc.
Child VO 30-9
Atlas Field

Niobrara
Laramie County, WY
File: DN-48196

Core No. 4				
Tube Number	Top Depth, feet	Bottom Depth, feet	Comments:	Tube Length
1	8623.00	8626.00		3.00
2	8626.00	8629.00		3.00
3	8629.00	8632.00		3.00
4	8632.00	8635.00		3.00
5	8635.00	8638.00		3.00
6	8638.00	8641.00		3.00
7	8641.00	8644.00		3.00
8	8644.00	8647.00		3.00
9	8647.00	8650.00		3.00
10	8650.00	8652.90		2.90
11	8652.90	8653.80	box	0.90
12	8653.80	8657.00		3.20
13	8657.00	8660.00		3.00
14	8660.00	8663.00		3.00
15	8663.00	8666.00		3.00
16	8666.00	8669.00		3.00
17	8669.00	8672.00		3.00
18	8672.00	8673.00		1.00
19	8673.00	8674.00	48196-4	1.00
20	8674.00	8675.00	48196-4P	1.00
21	8675.00	8678.00		3.00
22	8678.00	8681.00		3.00
23	8681.00	8683.70		2.70
24	8683.70	8684.70	box	1.00
25	8684.70	8688.00		3.30
26	8688.00	8691.00		3.00

8/5/2010

Weatherford LABORATORIES

Wellsite Tubelist
Designate Each Cannister Sample/Core-Seal W/C As A "Tube"

Noble Energy Inc.
Child VO 30-9
Atlas Field

Niobrara
Laramie County, WY
File: DN-48196

Core No. 4				
Tube Number	Top Depth, feet	Bottom Depth, feet	Comments:	Tube Length
27	8691.00	8694.00		3.00
28	8694.00	8697.00		3.00
29	8697.00	8700.00		3.00
30	8700.00	8703.00		3.00
31	8703.00	8706.00		3.00
32	8706.00	8709.00		3.00
33	8709.00	8712.00		3.00
34	8712.00	8714.80		2.80
35	8714.80	8715.70	box	0.90
			Total Footage:	92.70

8/5/2010

Weatherford LABORATORIES

Wellsite Tubelist

Designate Each Cannister Sample/Core-Seal W/C As A "Tube"

Noble Energy Inc.
Child VO 30-9
Atlas Field

Niobrara
Laramie County, WY
File: DN-48196

Core No. 5				
Tube Number	Top Depth, feet	Bottom Depth, feet	Comments:	Tube Length
1	8715.70	8719.00		3.30
2	8719.00	8720.10	Box-Connecton	1.10
3	8720.10	8723.00		2.90
4	8723.00	8726.00		3.00
5	8726.00	8727.00		1.00
6	8727.00	8728.00	48196-5P	1.00
7	8728.00	8729.00	48196-5	1.00
8	8729.00	8732.00		3.00
9	8732.00	8735.00		3.00
10	8735.00	8738.00		3.00
11	8738.00	8741.00		3.00
12	8741.00	8744.00		3.00
13	8744.00	8747.00		3.00
14	8747.00	8750.30		3.30
15	8750.30	8751.10	Box-Shoe	0.80
			Total Footage:	35.40

8/6/2010

Weatherford LABORATORIES

Wellsite Tubelist
Designate Each Cannister Sample/Core-Seal W/C As A "Tube"

Noble Energy Inc.
Child VO 30-9
Atlas Field

Niobrara
Laramie County, WY
File: DN-48196

Core No. 6				
Tube Number	Top Depth, feet	Bottom Depth, feet	Comments:	Tube Length
1	8751.10	8754.00		2.90
2	8754.00	8757.00		3.00
3	8757.00	8760.00		3.00
4	8760.00	8763.00		3.00
5	8763.00	8766.00		3.00
6	8766.00	8767.60		1.60
7	8767.60	8768.60	box connection	1.00
8	8768.60	8772.00		3.40
9	8772.00	8775.00		3.00
10	8775.00	8778.00		3.00
11	8778.00	8781.00		3.00
12	8781.00	8784.00		3.00
13	8784.00	8787.00		3.00
14	8787.00	8790.00		3.00
15	8790.00	8793.00		3.00
16	8793.00	8796.00		3.00
17	8796.00	8798.50		2.50
18	8798.50	8800.00	box shoe	1.50
			Total Footage:	48.90

Appendix V

Noble Energy Inc.
Child VO 30-9
DJ Basin
Niobrara Shale Formation

Core Gamma

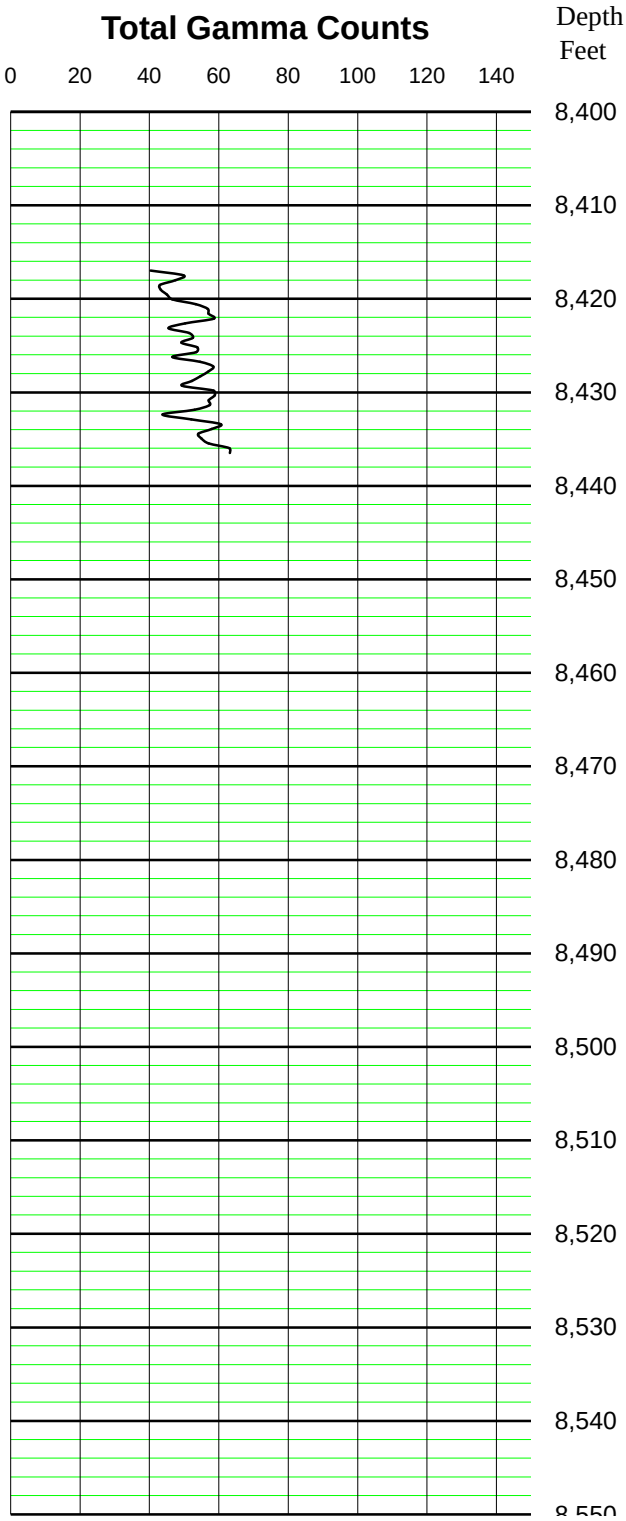
Weatherford
LABORATORIES

Weatherford LABORATORIES

Company:	Noble Energy Inc,	File No.:	CO-48196
Well:	Child VO 30-9	Analyst:	Ken Badger
Field:	Atlas Field	Date:	8.2.2010
Location:	DJ Basin	Cores:	1

PORTABLE GAMMA RAY LOG PLOT

VERTICAL SCALE 5":100'



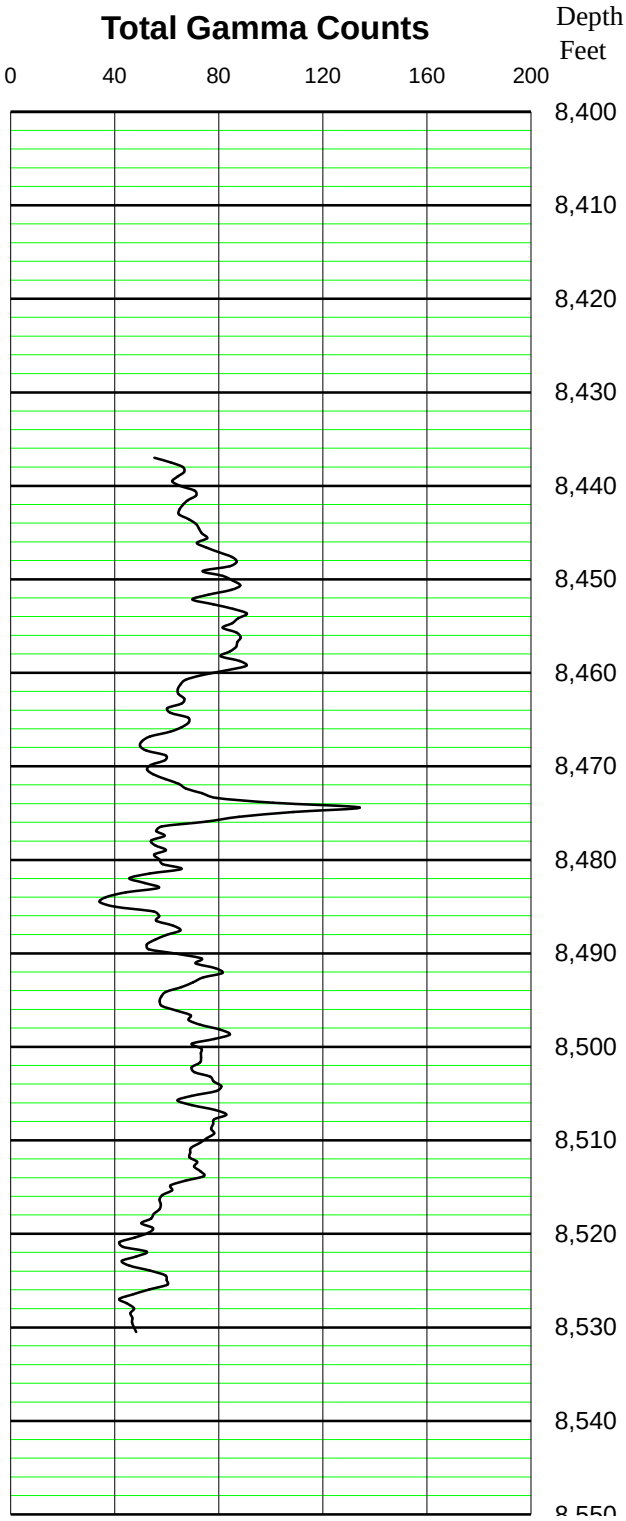
Core #	Total interval
Core 1	8417' - 8436.5'

Weatherford LABORATORIES

Company:	Noble Energy Inc	File No.:	CO-48196
Well:	Child VO 30-9	Analyst:	Ken Badger
Field:	Atlas Field	Date:	8.3.2010
Location:	DJ Basin	Cores:	2

PORTABLE GAMMA RAY LOG PLOT

VERTICAL SCALE 5":100'



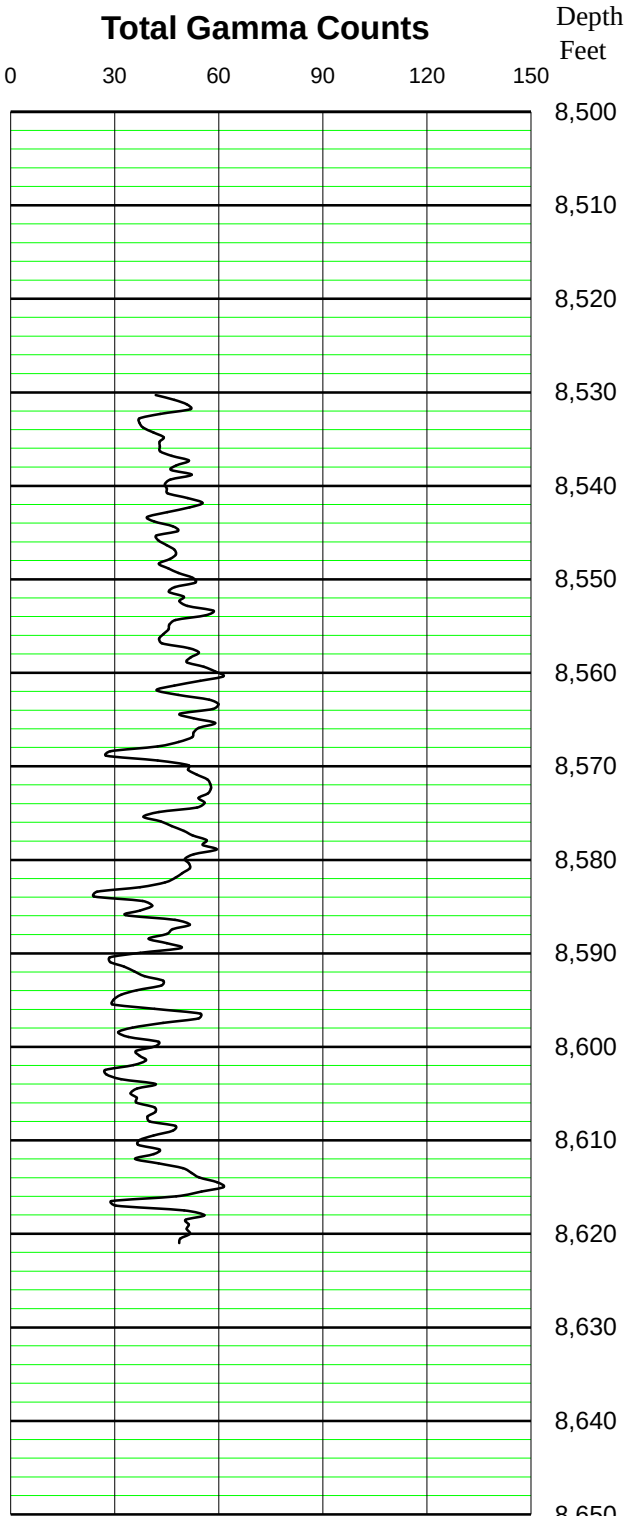
Core #	Total interval
Core 2	8437' - 8530.5'

Weatherford LABORATORIES

Company:	Noble Energy Inc	File No.:	CO-48196
Well:	Child VO 30-9	Analyst:	Ken Badger
Field:	Atlas Field	Date:	8.4.2010, 13:20
Location:	DJ Basin	Cores:	3

PORTABLE GAMMA RAY LOG PLOT

VERTICAL SCALE 5":100'



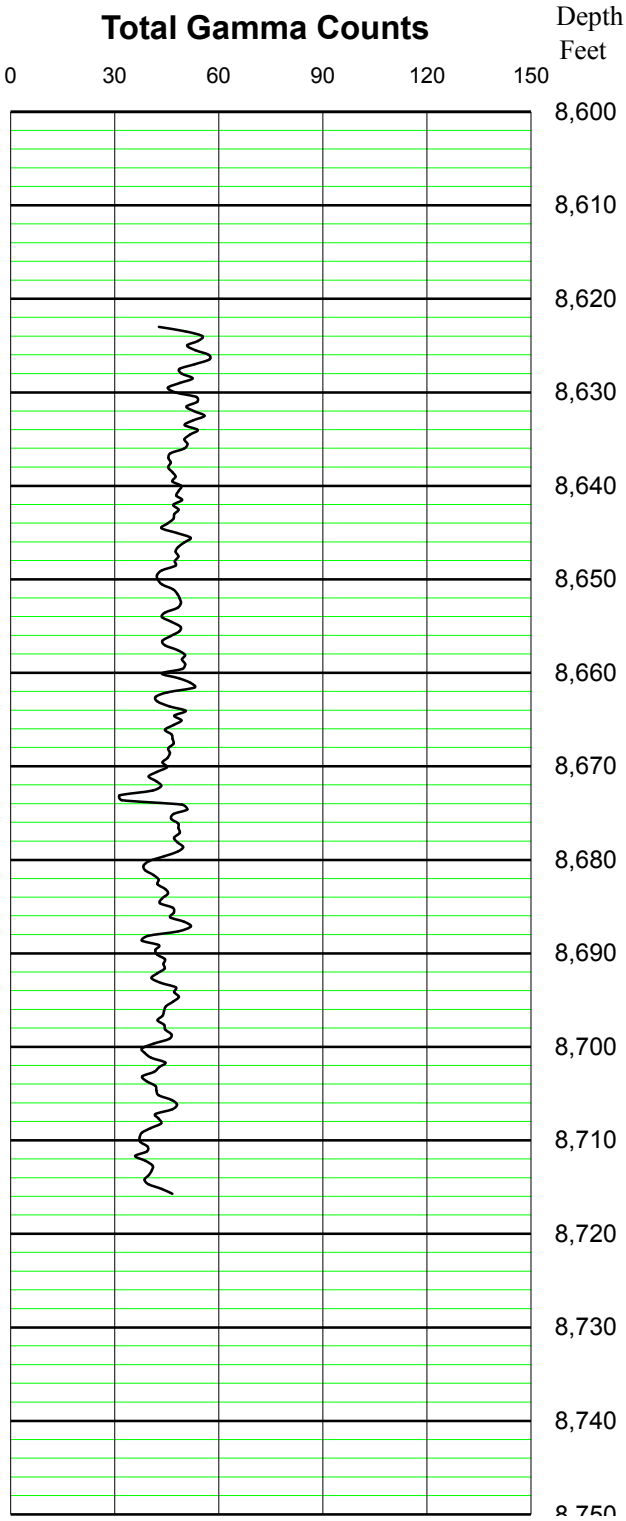
Core #	Total interval
Core 3	8530.3' - 8621'

Weatherford LABORATORIES

Company:	Noble Energy Inc	File No.:	CO-48196
Well:	Child VO 30-9	Analyst:	Ken Badger
Field:	Atlas	Date:	8.4.2010, 07:30
Location:	DJ Basin	Cores:	4

PORTABLE GAMMA RAY LOG PLOT

VERTICAL SCALE 5":100'



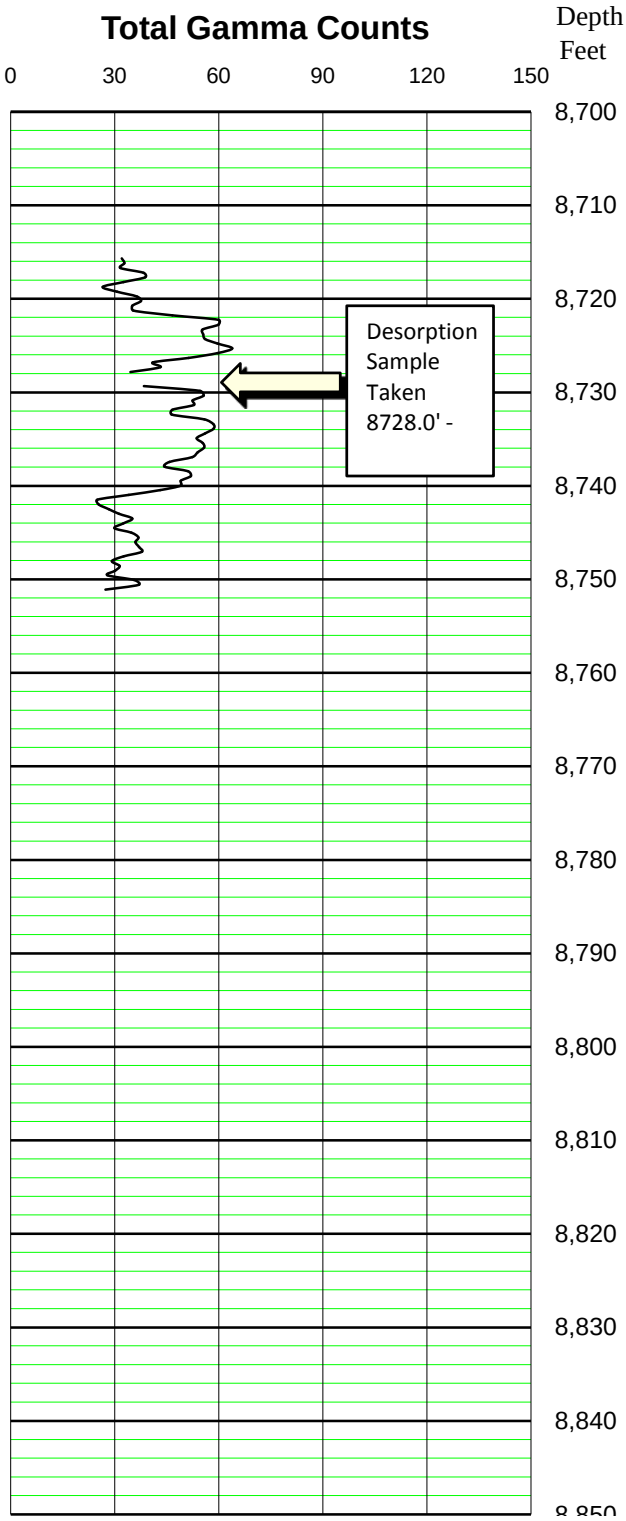
Core #	Total interval
Core 4	8623' - 8715.7'

Weatherford LABORATORIES

Company:	Noble Energy Inc.	File No.:	CO-48196
Well:	Child VO 30-9	Analyst:	Ken Badger
Field:	Atlas	Date:	8.5.2010, 23:45
Location:	DJ Basin	Cores:	5

PORTABLE GAMMA RAY LOG PLOT

VERTICAL SCALE 5":100'



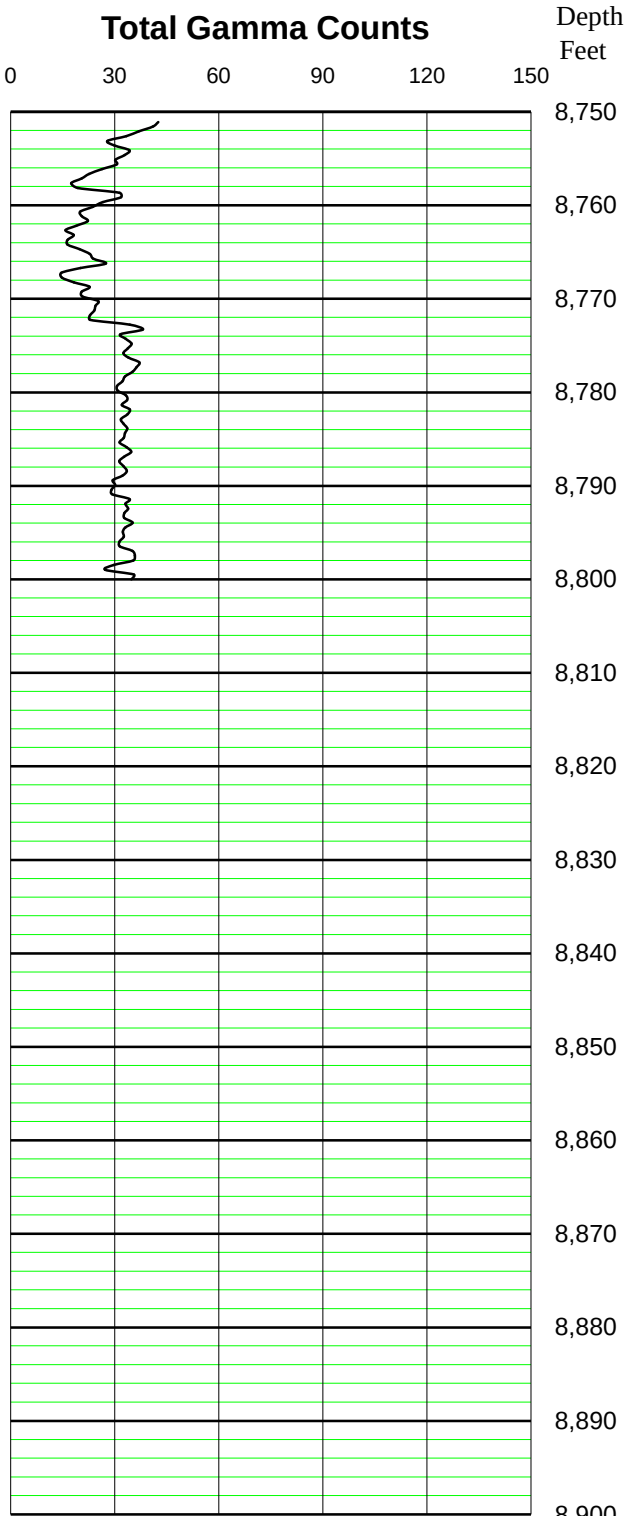
Core #	Total interval
Core 5	8715.7' - 8751.1'

Weatherford LABORATORIES

Company:	Noble Energy Inc.	File No.:	Co-48196
Well:	Child VO 30-9	Analyst:	Ken Badger
Field:	Atlas	Date:	8.6.2010, 18:55
Location:	DJ Basin	Cores:	6

PORTABLE GAMMA RAY LOG PLOT

VERTICAL SCALE 5":100'



Core #	Total interval
Core 6	8751.1' - 8800'