

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



## SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

RECEIVED

SEP 11 2012

COGCC

Complete the Attachment  
Checklist

OP OGCC

1. OGCC Operator Number: 96155  
2. Name of Operator: Whiting Oil and Gas Corporation  
3. Address: 1700 Broadway, Suite 2300  
City: Denver State: CO Zip 80290-2300  
4. Contact Name: Scott M. Webb  
Phone: 303-390-4095  
Fax: 303-390-5590  
5. API Number 05-103-11931 OGCC Facility ID Number  
6. Well/Facility Name: WRD 7. Well/Facility Number 23-33R  
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): NESW Sec 33-T2N-R97W, 6th PM  
9. County: Rio Blanco 10. Field Name: White River (92800)  
11. Federal, Indian or State Lease Number: COC-45291

Survey Plat		
Directional Survey		
Surface Eqpm Diagram		
Technical Info Page	X	
Other	X	1533733

## General Notice

☐ CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)

	FNU/FSL	FEU/FWL
Change of Surface Footage from Exterior Section Lines:		
Change of Surface Footage to Exterior Section Lines:		
Change of Bottomhole Footage from Exterior Section Lines:		
Change of Bottomhole Footage to Exterior Section Lines:		

Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer \_\_\_\_\_  
Latitude \_\_\_\_\_ Distance to nearest property line \_\_\_\_\_ Distance to nearest bldg, public rd, utility or RR \_\_\_\_\_  
Longitude \_\_\_\_\_ Distance to nearest lease line \_\_\_\_\_ Is location in a High Density Area (rule 603b)? Yes/No \_\_\_\_\_  
Ground Elevation \_\_\_\_\_ Distance to nearest well same formation \_\_\_\_\_ Surface owner consultation date: \_\_\_\_\_

## GPS DATA:

Date of Measurement 03/26/12 PDOP Reading 1.2 Instrument Operator's Name Bart Hunting

☐ CHANGE SPACING UNIT

Formation Formation Code Spacing order number Unit Acreage Unit configuration

☐ Remove from surface bond

Signed surface use agreement attached

☐ CHANGE OF OPERATOR (prior to drilling):Effective Date: \_\_\_\_\_  
Plugging Bond: ☐ Blanket ☐ Individual☐ CHANGE WELL NAME

NUMBER

From: \_\_\_\_\_  
To: \_\_\_\_\_  
Effective Date: \_\_\_\_\_☐ ABANDONED LOCATION:Was location ever built? ☐ Yes ☐ No  
Is site ready for inspection? ☐ Yes ☐ No  
Date Ready for Inspection: \_\_\_\_\_☐ NOTICE OF CONTINUED SHUT IN STATUSDate well shut in or temporarily abandoned: \_\_\_\_\_  
Has Production Equipment been removed from site? ☐ Yes ☐ No  
MIT required if shut in longer than two years. Date of last MIT \_\_\_\_\_☐ SPUD DATE: \_\_\_\_\_☐ REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)☐ SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK

\*submit cbl and cement job summaries

Method used Cementing tool setting/perf depth Cement volume Cement top Cement bottom Date

☐ RECLAMATION:

Attach technical page describing final reclamation procedures per Rule 1004.

Final reclamation will commence on approximately \_\_\_\_\_

☐ Final reclamation is completed and site is ready for inspection.

## Technical Engineering/Environmental Notice

☒ Notice of Intent

Approximate Start Date: 9/10/12

☐ Report of Work Done

Date Work Completed: \_\_\_\_\_

Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)

<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: Unplanned Sidetrack	for Spills and Releases

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Scott M. Webb

Date: 9/11/12

Email: scottw@whiting.com

Print Name: Scott M. Webb

Title: Regulatory &amp; Permitting Manager

COGCC Approved: \_\_\_\_\_

Title: NWAE

Date: 11/5/12

CONDITIONS OF APPROVAL IF ANY:

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: 96155 API Number: 05-103-11931
2. Name of Operator: Whiting Oil and Gas Corp. OGCC Facility ID #
3. Well/Facility Name: WRD-23-33R Well/Facility Number:
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NESW Sec 33-T2N-R97W, 6th PM

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This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. DESCRIBE PROPOSED OR COMPLETED OPERATIONS

While attempting logging operations in the well, the logging tools stuck in the hole and we were not able to retrieve.

1. Picked up 308.42' of 2-3/8" tubing to use as a tail pipe for cementing and connected the whip stock to the top of the tubing.
2. Tripped in the hole with the whip stock and tubing on drill pipe and set at 33.7° Azimuth.
  - The bottom of the tubing is at 14,222'
  - The bottom of the tool assembly is at 13,911'
  - The bottom of the whip stock is at 13,899' (KOP)
  - The top of the whip stock is at 13,885'
3. The anchor was set and cement was pumped. We pumped the following for cement:
  - 30 bbls 11.0 ppg tuned spacer
  - 85 sacks 15.80 ppg 1.51 yield class G cement with red dye
  - 17 bbls 11.0 ppg tuned spacer
  - Displaced with 126 bbls of mud
4. Tripped out 8 stands to 13,464 and circulated for 2 hours.
5. Tripped out of the hole and picked up directional tools.
6. Waited on cement for 30.5 hours and tripped in hole.
7. Tagged cement at 13,685' and drilled cement down to the top of the whip stock.
8. Drilled 100' of new hole and we are tripping out to pick up a PDC bit to drill to TD.

Attached are the following documents:  
Post Job Cementing summary  
Daily Drilling Reports  
Servco Whip Stock Report

See Sundry # 2131365  
for report of subsequent work  
done.

King (OGCC) gave verbal approval to  
sidetrack. ST target = original.



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# SERVICO

## WHIPSTOCK REPORT

CUSTOMER	Whiting	SMITH OPERATOR	Marques Palmer	JOB #	1183	-	333820
CO. REP.	Kenneth	TYPE OF SIDETRACK	Single String	JOB DATE	9/7/2012	-	9/6/2012
CONTRACTOR	PattersonUTI	WHIPSTOCK TYPE	Trackmaster Plus Cementing Whipstock				
RIG	330	ANCHOR TYPE	Hydraulic retrievable anchor				
LEASE/BLOCK	White River Dome	WHIPSTOCK SIZE	7"	MILL OD	6"		
FIELD	North Piceance	MOTOR USED					
WELL NAME	WRD 23-33R	BY-PASS VALVE		FORMATION TYPE	PROPERTIES		
WELL NUMBER	WRD 23-33R	Type	NOZZLE TFA	GPM to Close	COMP. STRENGTH		
COUNTRY	Fio Bianco			MAX. DOGLEG IN WELL	deg.		
STATE	CO	Latitude	Longitude	Well Type	Well Target	Gas	Directional
COUNTRY	USA			Exploration			Tight Hole

### ORIENTATION DATA

[illegible]

## MILL RUN DATA

MILL TYPE		MILL SIZE	LEAD/MILL SIZE	DEPTH IN	DEPTH OUT	TYD IN	TYD OUT	FOOTAGE	TIME (hrs)	ROP	QPM	PRESSURE	RPM	WORKING	WEIGHT	WORKING	TORQUE	DRAW			
NO.	MILL DULL GRADING																				
	FOLLOW MILL																				
	DRESS MILL																				
	REMARKS																				
1	Inner	Outer	Dull	Loc	Gauge	Dull	Loc	Gauge	Other	Reason Pulled	FORMATION									DRILL	CIRC.
																		ON	OFF	UP	
																		ON	OFF	DOWN	

[illegible]

RUN NO.	MILL TYPE		MILL SN	LEAD/MILL SN	DEPTH IN	DEPTH OUT	TWO IN	TWO OUT	FOOTAGE	TIME (hrs)	ROP	OPM	PRESSURE	RPM	WORKING	WEIGHT	WORKING	TORQUE	DRAW		
										IN CASING	MILL	CIRC.							ON	OFF	UP
	MILL DULL GRADING																				
	LEAD MILL		FOLLOW MILL		DRESS MILL		REMARKS		FORMATION		DRILL		CIRC.								
	Inner	Outer	Dull	Loc	Gauge	Dull	Loc	Gauge	Dull	Loc	Gauge	Other	Reason	Pulled					ON	OFF	DOWN

Tool Performance	Anchor Setting	Break Bolt Data		FORMATION FOOTAGE DRILLED (Feet)	HOOK SLOT?	WHIP RETRIEVED?	METHOD	ANCHOR RETRIEVED?	Any problems on this Whipstick Run?
		VALUE ft.	ACTUAL ft.						
2,800	psi	35,000	35,000	Length of Rathole Formation Bottom @	NO	NO		NO	(If yes, please add comments below)
				LCM#7		LCM Type/Concentration		Perform Scraper Run?	NO

**Job went well, no problems to report.**

**COMMENTS**

FOR

**EACH**

**RUN**

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BHA REPORT

SERVCO

Customer: Whiting  
Supervisor: Marcus Palmer  
Job #: 1193 - 393620

Lease: White River Dome  
Field: North Piceance  
Well: WRD 23-33R WRD 23-33R

Rig: 330  
Date: 9/7/2012  
Run #: 1

Rig BHA #:

Item	Tool Description	Qty	Manu.	Serial #	OD		ID		Fish Neck		Connections			Item	Total Length (Feet)
					Inches	Inches	Inches	Inches	Length (Feet)	Up	B/P	Down	B/P		
1	2 3/8" Lubing	10			2.375					2 3/8PAC	B	2 3/8PAC	P	308.420	308.420
2	XO	1	Smith							2 3/8EUE	B	2 3/8PAC	P	1.200	309.620
3	Float Collar	1								2 3/8EUE	B	2 3/8EUE	P	0.770	310.390
4	Whipstock	1	Smith		6.000					3 1/2IF	B	2 3/8EUE	P	25.750	336.140
5	UBHO	1	Vaughn		4.750					3 1/2IF	B	3 1/2IF	P	3.330	339.470
6	Drill Collar	1	Smith		4.750					3 1/2IF	B	3 1/2IF	P	31.130	370.600
7	XO	1	Smith		4.750					XT-39	B	3 1/2IF	P	1.670	372.270
8														0	
9														0	
10														0	
11														0	
12														0	
13														0	
14														0	
15														0	
16														0	
17														0	
18														0	
19														0	
20														0	
21														0	
22														0	
23														0	
24														0	
25														0	
BHA LENGTH															372.270
HYDRAULIC DETAILS															
STARTING DEPTH		1 GPM		MUD WT		MUD DATA	9.1		SIZE	4"	GRADE	WT	ID	CONNECTION	LENGTH
ENDING DEPTH		2 GPM		MUD WT			PV	12						XT-39	13858.100
S917ZZNOZ	ITEM	JETS	TFA	%	1 GPM	2 GPM	YP	12		MOTOR INFORMATION					
	TOOL						FV	41							
	BIT or B/N									Mtr	Type	Model	Size	Lobe	Revs/Gal
JET SUB															Bend Angle
STARTING DEPTH AP							600 RPM								
ENDING DEPTH AP							300 RPM								
		0.000					3 RPM								

Page 1

[illegible]

# SERVCO

Cementing Whipstock
Expandable Anchor

Customer:	Whiting
Field:	North Piceance
Well:	WRD 23-33R WRD 23-33R

Job #:	1193-393620
Rig:	330
Date:	9/8/2012

Casing Information	
Size:	OD_4.500
Weight:	26.500
Grade:	
I.D.:	3.240
Drift I.D.:	3.115
Wall:	0.630

Joints of Tubing = 10.00



13,340.00	Casing Shoe
13,885.00	Top of Whipstock
13,899.00	Bottom of Whipstock
13,911.00	Bottom of Tool
14,222.00	Total Depth

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**WHITING OIL & GAS CORP EBUSINESS  
DO NOT MAIL - 1700 BROADWAY  
DENVER, Colorado**

WRD 23-33-R

PATTERSON 330

## Post Job Summary Plug to Abandon Service

Date Prepared: September 10, 2012  
Version: 1

Service Supervisor: BIRCHELL, DEVIN

Submitted by: Laura Burnett

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# HALLIBURTON

## Wellbore Geometry

Job Tubulars					MD		TVD		Job Excess
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft	Top ft	Bottom ft	
Open Hole Section	6" Open Hole		6.000		13,340.00	14,222.00	13,340.00	14,222.00	40% thru Open Hole Section
Drill Pipe	4" Drill Pipe	4.00	3.340	14.00	0.00	14,222.00	0.00	14,222.00	

Tubular Specification				Coupling Information		
Type	Description	Thread	Grade	OD in	Length in	Joint Length
Drill Pipe	4" Drill Pipe				0.00	N/A

## Pumping Schedule

Fluid #	Fluid Type	Fluid Name	Density lbm/gal	Avg Rate bbl/min	Volume
1	Spacer	Tuned Spacer III	11.00	4.00	30.0 bbl
2	Cement Slurry	PlugCem	15.80	2.00	85.0 sacks
3	Spacer	Tuned Spacer III	11.00	4.00	17.0 bbl

## Fluids Pumped

Stage/Plug # 1      Fluid 1:      Tuned Spacer III

Fluid Density:    11.00 lbm/gal

Fluid Volume:    30.00 bbl

Pump Rate:       4.00 bbl/min

Stage/Plug # 1      Fluid 2:      PlugCem

Fluid Weight:    15.80 lbm/gal

Slurry Yield:     1.51 ft3/sack

Total Mixing Fluid: 6.12 Gal

Sacks:            85.0 sacks

Calculated Fill:   460.0 ft

Calculated Top of Fluid: 13,762 ft

Stage/Plug # 1      Fluid 3:      Tuned Spacer III

Fluid Density:    11.00 lbm/gal

Fluid Volume:    17.00 bbl

Pump Rate:       4.00 bbl/min



# HALLIBURTON

## Job Summary

### Job Information

Job Start Date	9/7/2012 11:00:00 AM
Job MD	14,222.0 ft
Job TVD	14,222.0 ft
Height of Plug Container/Swage Above Rig Floor	6.0 ft
Surface Temperature at Time of Job	74 degF
Mud Type	LSND
Actual Mud Density	9 lbm/gal
Time From End Mud Circ. to Job Start	1,200.00 minute
Pipe Movement During Cementing	None
Did Pipe Pull Dry?	Pipe Pulled Wet
Job Displaced by (rig/halco)	Cement Unit HP Pumps
Annular flow Before Job? (Water/Gas)	Unknown
Annular flow After Job? (Water/Gas)	No

## Service Supervisor Reports

### Job Log

Date/Time	Activity Code	Pump Rate	Volume	Pressure (psig)	Comments
09/07/2012 19:00	Call Out				Called Out Cement Crew For Whiting Oil&Gas WRD 23-33-R Plug
09/07/2012 20:50	Pre-Convoy Safety Meeting				Discussed Hazards On Route To Location
09/07/2012 21:00	Depart from Service Center or Other Site				
09/07/2012 23:00	Arrive At Loc				Arrived To Location Talked With Company Rep And Smith Tool Rep On Volumes, Rates, Depths
09/07/2012 23:20	Pre-Rig Up Safety Meeting				Discussed Hazards For Rigging Up Iron, Mud and Water Hoses
09/07/2012 23:30	Rig-Up Equipment				
09/08/2012 00:30	Wait on Customer or Customer Sub-Contractor Equip				Wait For Rig Crew and Tool Hand to Finish Running Drill Pipe And Mechanical Whipstock
09/08/2012 00:45	Prime Pumps				Primed Pumps and Lines For Pressure Test
09/08/2012 10:30	Pre-Job Safety Meeting				Discussed Job Procedures With Cement and Rig Crews
09/08/2012 10:45	Rig-Up Completed				Finished Rigging Up To The Floor And Drill Pin
09/08/2012 11:04	Pressure Test			6539.0	Test Pump and Lines to 6539 psi
09/08/2012 11:09	Pump Spacer	4	30	843.0	Pumped 30 bbls Tuned Spacer III, Yield 7.54 ft3/sk Water 49.74 gal/sk

# HALLIBURTON

Date/Time	Activity Code	Pump Rate	Volume	Pressure (psig)	Comments
09/08/2012 11:22	Pump Cement	2	22	65.0	Pumped 22 bbls (85sks) 15.8 ppg Slurry, Yield 1.51 ft3/sk Water 6.12 gal/sk
09/08/2012 11:34	Pump Spacer	4	17	58.0	Pumped 17 bbls Tuned Spacer III, Yield 7.54 ft3/sk Water 49.74 gal/sk
09/08/2012 11:40	Pump Displacement	4	126	61.0	Pumped 126 bbls Mud Displacement
09/08/2012 12:20	Shutdown				Shut Down Turned Drill Pipe Back Over To Rig To Pull 7 Stands, Pushed Water Back Through Mud Lines
09/08/2012 12:30	Post-Job Safety Meeting (Pre Rig-Down)				Discussed Hazards For Rigging Down Iron, Mud and Water Hoses
09/08/2012 12:35	Rig-Down Equipment				
09/08/2012 14:00	Rig-Down Completed				
09/08/2012 14:10	Pre-Convoy Safety Meeting				Discussed Hazards On Route To Services Center
09/08/2012 14:20	Depart Location for Service Center or Other Site				Thank You For Using Halliburton Energy Services

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## Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 306489	Ship To #: 2933995	Quote #:	Sales Order #: 9782400
Customer: WHITING OIL & GAS CORP EBUSINESS		Customer Rep: Orley, Cole	
Well Name: WRD	Well #: 23-33-R	API/UWI #:	
Field:	City (SAP): RANGELY	County/Parish: Rio Blanco	State: Colorado
Contractor: PATTERSON	Rig/Platform Name/Num: 330		
Job Purpose: Plug to Abandon Service			
Well Type: Development Well	Job Type: Plug to Abandon Service		
Sales Person: FLING, MATTHEW	Srvc Supervisor: BIRCHELL, DEVIN	MBU ID Emp #: 466993	

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ARCHULETA, JACOB Joshua	15	491140	ARCHULETA, ZACK	15	529108	BIRCHELL, DEVIN Ray	15	466993
DEAN, MARK Christophe	10	454214	ESTEP, KENNETH	15	121420	HUNTER, SAMUEL David	15	479669
MCKEE, RALPH R	10	259268	WILLIAMS, DAVID J	10	518688			

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
09-07-12	1	0	09-08-12	14	6			

TOTAL Total is the sum of each column separately

### Job

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD)	From	To
				BHST	14,222 ft	14222. ft				
				288 degF						
							Wk Ht Above Floor			
							6. ft			

### Job Times

Date	Time	Time Zone
07 - Sep - 2012	00:00	MST
07 - Sep - 2012	23:00	MST
07 - Sep - 2012	11:00	MST
07 - Sep - 2012	12:20	MST
07 - Sep - 2012	14:30	MST

### Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
6" Open Hole				6.				13340.	14,222		
4" Drill Pipe	Unknown		4.	3.34	14.				14,222		

### Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

### Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

Summit  
Version:

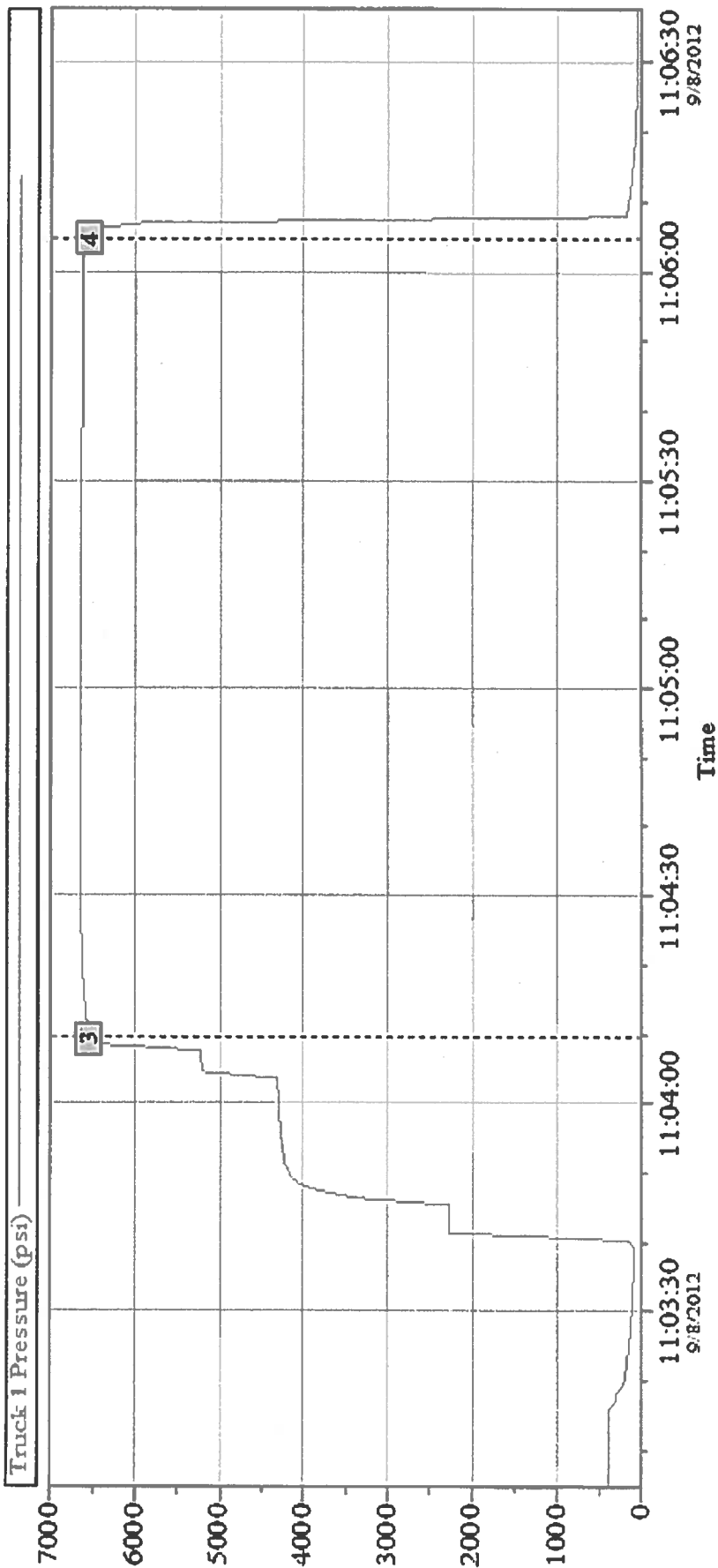
Monday, September 10, 2012 12:03:00

Fluid Data									
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Tuned Spacer III	TUNED SPACER III - SBM (483826)	30.00	bbl	11.	7.54	49.74	.0	
37.04 gal/bbl		FRESH WATER							
124.04 lbm/bbl		BARITE, 100 LB SK (100003680)							
2	PlugCem	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	85.0	sacks	15.8	1.51	6.12		6.12
94 lbm		CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
6.12 Gal		FRESH WATER							
3	Tuned Spacer III	TUNED SPACER III - SBM (483826)	17.00	bbl	11.	7.54	49.74	.0	
Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	0 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

# HALLIBURTON

## Data Acquisition

### Whiting Oil&Gas, WRD 23-33-R Plug Pressure Test



Global Event Log			
Intersection	psi	Intersection	psi
3	Test Lines	11:04:10	6539
4	End Test	11:06:05	6630

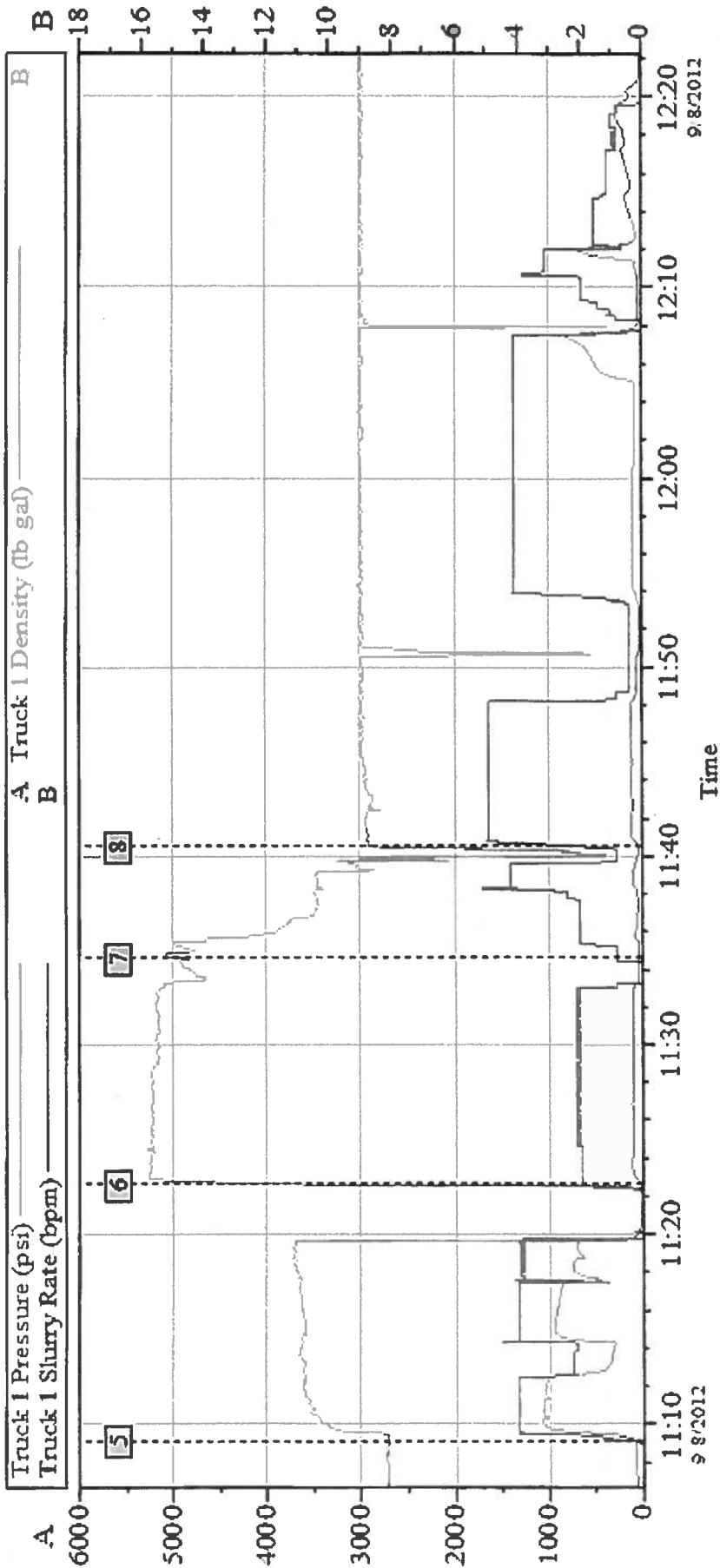
Customer: Whiting  
Job Description: Plug  
Service Supervisor: Devin Berthel

Job Date: 08-Sep-2012  
UWI:  
Service Operator: Sam Hunter

Sales Order#: 9782400  
Line #: 10372435  
Service Location: Kent Easop Sr

OptiCam v6.4.10  
08-Sep-12 12:36

Whiting Oil&Gas, WRD 23-33-R Plug  
Job Summary Chart



Global Event Log					
5	Pump Spacer 1	11:09:09	6	Pump Cement	11:22:40
7	Pump Spacer 2	11:34:35	8	Pump Displacement	11:40:31

Customer	Whiting	Job Date	05-Sep-2012	Sales Order	9733400
Job Description	Plug	UAT:		Emp #	1087435
Service Supervisor	Dennis Barthol	Service Operator	Sam Hunter	Service Leader	Ken Estep Sr



## 01533734

Depth Start:	15,923.0
Depth End:	15,923.0
Depth Progress:	0.00
Daily Cost:	51,265.22
Cum Cost:	7,962,950.81

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Geological Map Report Period	Geological Activity at Report Time	Geological Data Time Report Period	Avg Drill Core (%)	Min Drill Core (%)	Max Drill Core (%)
Drilling	Maroon fm	maroon fm			
None					

[illegible]

Mud Properties											4,500.00
Apparatus	Depth (ft)	Density (kg/cm <sup>3</sup> )	Funnel Viscosity (cP)	PV Override (cp)	YP OR (cP/100)	Gel TO sec (600/100)	Gel TO min (600/100)	PH			
Newmark	14,265.0		8.10	41	11.0	12,000	2,000	3.000			
Low Gravity Solids (%)	Solids (%)	Sand (%)	Chlorides (mg/L)	Filtrate (mL/30min)	HTHP Filtrate (mL/30)	Percent Viscer (%)	Percent Oil (%)	Electric Slugs (V)			10.7
4.2	5.0	0.3					95.0				
Loss Low to Hole (gal)	Cum Mud Lost to Hole (gal)				Mud Lost to Surface (bbl)		Cum Mud Lost to Surface (bbl)				

Pump Operations					
Pump Number	Model	Flow (gpm)	Head (ft)	Pressure (psi)	Volume Efficiency (%)
1	1000	100	100	100	100
2	1000	100	100	100	100
3	1000	100	100	100	100
4	1000	100	100	100	100
5	1000	100	100	100	100
6	1000	100	100	100	100
7	1000	100	100	100	100
8	1000	100	100	100	100
9	1000	100	100	100	100
10	1000	100	100	100	100
11	1000	100	100	100	100
12	1000	100	100	100	100
13	1000	100	100	100	100
14	1000	100	100	100	100
15	1000	100	100	100	100
16	1000	100	100	100	100
17	1000	100	100	100	100
18	1000	100	100	100	100
19	1000	100	100	100	100
20	1000	100	100	100	100
21	1000	100	100	100	100
22	1000	100	100	100	100
23	1000	100	100	100	100
24	1000	100	100	100	100
25	1000	100	100	100	100
26	1000	100	100	100	100
27	1000	100	100	100	100
28	1000	100	100	100	100
29	1000	100	100	100	100
30	1000	100	100	100	100
31	1000	100	100	100	100
32	1000	100	100	100	100
33	1000	100	100	100	100
34	1000	100	100	100	100
35	1000	100	100	100	100
36	1000	100	100	100	100
37	1000	100	100	100	100
38	1000	100	100	100	100
39	1000	100	100	100	100
40	1000	100	100	100	100
41	1000	100	100	100	100
42	1000	100	100	100	100
43	1000	100	100	100	100
44	1000	100	100	100	100
45	1000	100	100	100	100
46	1000	100	100	100	100
47	1000	100	100	100	100
48	1000	100	100	100	100
49	1000	100	100	100	100
50	1000	100	100	100	100
51	1000	100	100	100	100
52	1000	100	100	100	100
53	1000	100	100	100	100
54	1000	100	100	100	100
55	1000	100	100	100	100
56	1000	100	100	100	100
57	1000	100	100	100	100
58	1000	100	100	100	100
59	1000	100	100	100	100
60	1000	100	100	100	100
61	1000	100	100	100	100
62	1000	100	100	100	100
63	1000	100	100	100	100
64	1000	100	100	100	100
65	1000	100	100	100	100
66	1000	100	100	100	100

	Description	Nominal ID (in)	Pressure Rating (psi)	
13 5/8				10,000.0

Item Desc	CO (2)	ID (1)	Mass/Len (3/4)	Grade	Len (1)	Job	Mfrs	Model
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Csg Desc	Est Depth (FSG)	Run Date	OD (")	Wt/Lin (Lbs)	Grade
Conductor Pipe	100.0	6/6/2012	20	94.00	K-55
Interface Csg	4,251.8	6/23/2012	13 3/8	68.00	L-80
Immediate Csg	10,171.4	7/19/2012	9 5/8	53.50	HCP-110
Per 1	13,340.0	8/3/2012	7	29.00	HCP-110

Report Printed: 9/10/2012



## Daily Drilling Report

Well Name: WRD 23-33-R

Depth Start: 15,923.0  
Depth End: 15,923.0  
Depth Progress: 0.00  
Daily Cost: 51,265.22  
Cum Cost: 7,962,950.81

Operations at Report Time: Rigging up VES surveyors

Report Date: 9/9/2012, Report # 83.0

## Well Information

Well Information											
Well Number		WRD ID		Field Name			RB-Gal (ft)		Original Field Date		
51031193100		1CO081801		White River			32.00		6/17/2012		
3	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Section	Township	Range	Ring ID	County	State	Well Completion Type
	NE	SW			33	2 N		97 W	Rio Blanco	CO	Vertical

## Survey Information

MD (ft)	Ind (")	Asm (")	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (ft)	Date
15,657.00	4.70	38.30	15,631.74	782.80	74.57	756.09	0.80	7/14/2012
15,741.00	4.20	45.30	15,715.49	787.47	78.89	791.39	0.88	7/14/2012
15,840.00	5.40	44.10	15,814.14	793.36	84.70	797.87	1.22	7/14/2012

## Safety Incidents

Date	Category	Type	Sub Type	Comments
6/23/2012	Non-Recordable	Injury	Struck By	
Severity	Lost time?	Cause		
No Treatment	No	Human		While in the riding belt attempting to drop the CV tool plug. The plug slipped through the rope and the plug fell bounced off of the floor and struck a halliburton employee in the leg. The employee was checked out and deemed ok. He was later hauled to the hospital due to the fact that he had had heart trouble in the past. We currently have no update from Halliburton.



Daily Drilling Report										Depth Start:	15,923.0	
Well Name: WRD 23-33-R										Depth End:	15,923.0	
Operations at Report Time: Repair brakes on drawworks										Depth Progress:	0.00	
Report Date: 9/9/2012, Report # 84.0										Daily Cost:	90,746.63	
Cum Cost:										8,053,697.44		
Well Information												
API Number		051031193100		Well ID		1C0081801		Field Name		White River		
KID-Grid (S)		32.00		Original Spud Date		8/17/2012						
Q1	Q2	Q3	Q4	Section	Footwall	Twist	Range	Ring	County	State	Well Configuration Type	
NE	SW			33	2H			97W	Rio Blanco	CO	Vertical	
AFE Number		12-0598		Target Depth (ft)		15,330.0		Target Formation		Niobrara		
Job Type		Drill & Complete										
Summary of Operations												
Daily Contacts				Company Man, Kenneth Wilkerson, 970-218-4399				Contractor				Patterson
Operations Summary				Wireline, Set whip stock, Cement, Circulate, Pull out of the hole, Change out drill line spool. Repair brakes on drawworks				Rig Number				330
Operations Next Report Period				Park City				Geological Activity at Report Time				Park City
Drilling								Avg Drill Gas (%)				100.00
Time Log												
Start Time	End Time	Dur (hr)	Code	Description	Unschd Typ	Com						
08:00	09:00	3.00		Survey		Orient whip stock to 30 deg E2.						
09:00	11:00	2.00		Plug Back		Drop setting ball, set open hole whip stock at 13,683' and circulate.						
11:00	12:30	1.50		Plug Back		Pump 30 bbl 11.0 ppg lined spacer + 85 sacks premium class G Reg + 35% Silica flour + 0.3% Haled-R 322 + 1% HR-801 Yield 1.51 ft/sk. (22 bbls) 15.8 ppg slurry. Pump 11.0 ppg lined spacer. Displaced with 126 bbls of 9.1 ppg mud.						
12:30	14:30	2.00		Cond/Circ Mud		Pull 5 stands to 13,464 and circulate bottoms up.						
14:30	19:00	4.50		Tripping Out		Pull out of the hole						
19:00	22:00	3.00		Cut/Slip Drilling Line		Change out drill line						
22:00	08:00	8.00		Rig Repair	Rig Repairs	Repair brakes on drawworks						
Daily Drilling Costs												
Cost Desc	Code 1	Code 2	Vendor						Field Est (Cost)			
Drilling - Contract Daywork	810	03	PATTERSON-UTI DRILLING CO LP, LLP						22,900.00			
Consulting Services	810	06	WILKERSON CONSULTING						4,000.00			
Transportation/Hauling	810	07	CATHEDRAL ENERGY SERVICES						1,870.00			
Mud Materials	810	13	NEWARK DRILLING FLUIDS, LLC						1,395.58			
Cement & Service	810	14	HALLIBURTON ENERGY SERVICES						35,498.63			
Rental - Drilling Strings & Stabilizers	810	20	KNIGHT OIL TOOLS INC						750.00			
Communication	810	27	LAND TEL COMMUNICATIONS						350.00			
Fishing Tool Rentals/Services	810	28	VAUGHN ENERGY SERVICES						10,180.00			
Fishing Tool Rentals/Services	810	28	VAUGHN ENERGY SERVICES						900.00			
Directional Drilling Services	810	29	CATHEDRAL ENERGY SERVICES						5,180.00			
Rental - Well Control Equip	810	30	HALLIBURTON ENERGY SERVICES						1,300.00			
Rental - Well Control Equip	810	30	EXPRO POWER CHOKES						350.00			
Rental - Well Control Equip	810	30	PATTERSON RENTAL TOOLS						42.42			
Rental - Well Control Equip	810	30	MI SWACO						350.00			
Mud Processing Equip	810	31	ZEECO INC						1,100.00			
Rental - Other Equip	810	32	MOUNTAIN WEST OILFIELD SERVICE						200.00			
Rental - Other Equip	810	32	AVALANCHE EQUIPMENT						400.00			
Rental - Other Equip	810	32	R&T RENTAL						150.00			
Rental - Other Equip	810	32	WESTERN COLORADO WASTE						50.00			
Onsite Housing & Living Facilities	810	35	MOUNTAIN WEST OILFIELD SERVICE						1,000.00			
Cuttings & Mud Disposal	810	48	BCR SERVICES						2,800.00			
Mud Properties												
Supplier	Depth (ft)	Density (lb/gal)	Funnel Viscosity (cp)	PV Overlay (cp)	YP DR (lb/100ft)	Gel 10 sec (lb/100ft)	Gel 10 min (lb/100ft)	pH				
Newark	13,662.0	9.10	39	12.0	11.000	2.000	3.000	10.8				
Low Gravity Solids (%)	Solids (%)	Serial (%)	Chlorides (mg/L)	Filtrate (mL/30min)	HTHP Filtrate (mL/30min)	Percent Water (%)	Percent Oil (%)	Electric Field (V)				
4.2	5.0	0.4	1,100.000	6.2		95.0						
Mud Lost to Hole (bbl)		Cum Mud Lost to Hole (bbl)		Mud Lost to Surface (bbl)		Cum Mud Lost to Surface (bbl)						
Mud Pumps												
Pump Number	Liner Size (in)		Volume Per Stroke Override (bbls/stk)									
2	6 1/2											
Pump Operations												
Pump Number	Model	Stroke Speed Check?	Stroke (spm)	Pressure (psi)	Volumetric Efficiency (%)							
Gas Flare Tracking												
Actual Prod Oil	Produced Hrs (hr)	Prod Method	Flaring	Gas Flare 12 (ft)								
9/10/2012	0.00	Drilling Flare	Yes	0								
Last BOP Test												
Last Certification Date	Description	Nominal ID (in)	Pressure Rating (psi)									
		13 5/8	10,000.0									
Bit Record												
BHA #	Bit Run	Bit Size, Name, Model	Serial Number	Date In	Depth In (ft)	ADC Bit Out	Mudloss (1/2")					
Start Depth (ft)	End Depth (ft)	Cum Depth Drilled (ft)	Drilling Time (hr)	Cum Drilling Time (hr)	YFA (in/ft Post) (in)	Weight on Bit (1000lb)	Flow Rate (gpm)					
Interval ROP (ft/hr)	Total ROP (ft/hr)		Surface RPM (rpm)		Motor RPM (rpm)							
Drilling String Weight (1000lb)	Pick-Up String Weight (1000lb)	Stick-Up String Weight (1000lb)	Drilling Torque	Off Bottom Torque	Torque Units							
Bottom Hole Assembly												
Item Desc	OD (in)	ID (in)	Mass/Len (lb/ft)	Grade	Len (ft)	Jo	Make	Model				
Casing Strings												
Csg Desc	Set Depth (ft)	Run Date	OD (in)	Wt/Len (lb/ft)	Grade							
Conductor Pipe	100.0	8/8/2012	20	94.00	K-55							
Surface Csg	4,261.6	8/23/2012	13 3/8	68.00	L-80							
Intermediate Csg	10,171.4	7/19/2012	9 5/8	53.50	HCP-110							
Liner 1	13,340.0	8/3/2012	7	29.00	HCP-110							



## Daily Drilling Report

Well Name: WRD 23-33-R

Depth Start: 15,923.0  
Depth End: 15,923.0  
Depth Progress: 0.00  
Daily Cost: 90,748.63  
Cum Cost: 8,053,697.44

Operations at Report Time: Repair brakes on drawworks

Report Date: 9/9/2012, Report # 84.0

## Well Information

PT Number 51031193100	WPC ID 1CO081801	Field Name White River	RS-Grid (ft) 32.00	Original Spud Date 8/17/2012
Q1 NE	Quarter 2 SW	Quarter 3	Quarter 4	Section 33
Township 2 N	Range 97 W	County Rio Blanco	State CO	Well Configuration Type Vertical

## Survey Information

MD (ft)	Ind (")	Asm (")	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (ft/100ft)	Date
15,657.00	4.70	38.30	15,631.74	782.60	74.57	786.09	0.80	7/14/2012
15,741.00	4.20	45.30	15,715.49	787.47	78.89	791.39	0.88	7/14/2012
15,840.00	5.40	44.10	15,814.14	793.36	84.70	797.67	1.22	7/14/2012

## Safety Incidents

Date 6/23/2012	Category Non-Recordable	Type Injury	Sub Type Struck By
Severity No Treatment	Lost time? No	Cause Human	Comment While in the riding bell attempting to drop the DV tool plug. The plug slipped through the rope and the plug fell bounced off of the floor and struck a Haliburton employee in the leg. The employee was checked out and deemed ok. He was later hauled to the hospital due to the fact that he had had heart trouble in the past. We currently have no update from Haliburton.

Daily Drilling Report										Depth Start:	13,876.0
Well Name: WRD 23-33-R										Depth End:	13,937.0
Operations at Report Time: Drilling @ 13,937'										Depth Progress:	61.00
Report Date: 9/10/2012, Report # 85.0										Daily Cost:	43,970.70
										Cum Cost:	8,097,668.14
Well Information											
API Number		051031193100		WPC ID		1CO081801		Field Name		White River	
Lot		Quarter 1	Quarter 2	Quarter 3	Quarter 4	Section	Township	Range	Range	County	State
		NE	SW			33	21N	97W		Rio Blanco	CO
APC Number		12-0598		Target Depth (ft)		15,330.0		Target Formation		Niobrara	
								Job Type		Drill & Complete	
Summary of Operations											
Daily Contact						Company Men, Kenneth Wilkerson, 970-218-4389			Contractor		
						Patterson			Rig Number		
									330		
Operations Summary											
Repair drawworks. Pick up directional tools & trip in the hole to 9244. Repair drawworks. Trip in the hole. Side track. Drill ahead 13,883'-13,937'											
Operations Next Report Period				Geological Activity at Report Time				Geological Ops This Report Period			
Drilling				Park City				Park City			
								Avg Drill Gas (%)			
								Max Drill Gas (%)			
								Max Trip Gas (%)			
								103.00			
Time Log											
Start Time	End Time	Dur (hr)	Code Descrpt	Unschd Typ	Com						
08:00	08:30	2.50	Rig Repair	Rig Repairs	Repair drawworks						
08:30	15:00	6.50	Tripping In		Pick up directional tools & trip in the hole to 9244'						
15:00	17:00	2.00	Rig Repair	Rig Repairs	Repair encoder on Witches brake.						
17:00	19:00	2.00	Tripping In		Trip in the hole to 13552						
19:00	20:00	1.00	Reaming		Wash & ream and drill cement from 13,552 to 13,876						
20:00	08:00	10.00	Drilling		Slide drill from 13,876 to 13,937 WOB 18K, MM RPM=72, TD RPM=35, GPM=273, SPP=1800, AROP=8.1 R/R MW=9.0 Vis=40						
Daily Drilling Costs											
Cost Desc	Code 1	Code 2	Vendor	Field Est (Cost)							
Drilling - Contract Daywork	810	03	PATTERSON-UTI DRILLING CO LP, LLLP	22,500.00							
Consulting Services	810	06	WILKERSON CONSULTING	4,000.00							
Mud Materials	810	13	NEWARK DRILLING FLUIDS, LLC	3,068.28							
Rental - Drilling Strings & Stabilizers	810	20	KNIGHT OIL TOOLS INC	750.00							
Communication	810	27	LAND TEL COMMUNICATIONS	350.00							
Directional Drilling Services	810	29	CATHEDRAL ENERGY SERVICES	5,160.00							
Rental - Well Control Equip	810	30	HALLIBURTON ENERGY SERVICES	1,300.00							
Rental - Well Control Equip	810	30	EXPRO POWER CHOKES	350.00							
Rental - Well Control Equip	810	30	PATTERSON RENTAL TOOLS	42.42							
Rental - Well Control Equip	810	30	MI SWACO	350.00							
Mud Processing Equip	810	31	ZEECO INC	1,100.00							
Rental - Other Equip	810	32	MOUNTAIN WEST OILFIELD SERVICE	200.00							
Rental - Other Equip	810	32	AVALANCHE EQUIPMENT	400.00							
Rental - Other Equip	810	32	RAT RENTAL	150.00							
Rental - Other Equip	810	32	WESTERN COLORADO WASTE	50.00							
Onsite Housing & Living Facilities	810	35	MOUNTAIN WEST OILFIELD SERVICE	1,000.00							
Cuttings & Mud Disposal	810	46	BCR SERVICES	2,800.00							
Mud Properties											
Supplier	Depth (ft)	Density (lb/gal)	Fluid Viscosity (cp)	SV Overide (cp)	YP CR (lb/100)	Gel 10 sec (lb/1000)	Gel 10 min (lb/1000)	pH			
Newark	13,875.0	9.10	40	13.0	12.000	3.000	3.000	11.0			
Low Gravity Solids (%)	Solids (%)	Sand (%)	Clay (%)	Water (ml/30min)	HTHP Filtrate (mL/30)	Percent Water (%)	Percent Oil (%)	Electric Gels (V)			
4.2	5.0	0.3	1,150.000	5.8		85.0					
Mud Lost to Hole (bbl)		Cum Mud Lost to Hole (bbl)		Mud Lost to Surface (bbl)		Cum Mud Lost to Surface (bbl)					
Mud Pumps											
Pump Number	2	Line Size (in)	6 1/2	Volume Per Stroke (bbl/stk)							
Pump Operations											
Pump Number	Model	Slow Speed Check?	Strokes (rpm)	Pressure (psi)	Volumetric Efficiency (%)						
Gas Flare Tracking											
Actual Prod Dt	Produced (hrs)	Prod Method	Flaring	Deep Flare Ht (ft)							
9/10/2012	0.00	Drilling Flare	Yes	0							
Last BOP Test											
Last Certification Date	Description	Normal ID (in)	Pressure Rating (psi)								
		13 5/8	10,000.0								
Bit Record											
BHA #	Bit Run	Bit Size, Make, Model	Serial Number	Date In	Depth In (ft)	ADC Bit Ball	Nozzles (1/32")				
33 1	6in, Q20R, 11570305	11570305	9/9/2012	13,876.0							
Start Depth (ft)	End Depth (ft)	Cum Depth (ft)	Drilling Time (hr)	Cum Drilling Time (hr)	TFA (incl Noz) (in)	Weight on Bit (1000lb)	Flow Rate (gpm)				
13,876.0	13,937.0	61.00	10.00	10.00		18	273				
Interval ROP (ft/hr)	Total ROP (ft/hr)	Surface RPM (rpm)	Motor RPM (rpm)								
6.1	6.1	35	72								
Drilling String Weight (1000lb)	Pick-Up String Weight (1000lb)	Block-Off String Weight (1000lb)	Drilling Torque	CR Bottom Torque	Torque Units						
230	270	200	12,000.0	11,000.0	Ft-lb						
Bottom Hole Assembly											
Item Desc	OD (in)	ID (in)	Mass/Len (lb/ft)	Grade	Len (ft)	Jt	Make	Model			
Drill Pipe	5	4.276	19.50	X95	13,076.31	415					
HWDP	4 3/4	2.600	40.00	G105	738.25	24					
XO Sub	4.83	2.500			2.67	1					
Drill Collar - Flex Non Mag	4.89	2.690	49.00		30.61	1					
Gap Sub	4 3/4	2.190	49.00		5.43	1					
NM D.Pin Flex DC	4.83	2.690	49.00		30.67	1					
Drill Collar - Flex Non Mag	4.63	2.690	49.00		30.82	1					
Mud Motor	4 3/4	2.000	50.00		27.42	1					
Casing Strings											
Csg Desc	Set Depth (ft)	Run Date	OD (in)	Wt/Len (lb/ft)	Grade						
Conductor Pipe	100.0	8/8/2012	20	94.00	K-55						
Surface Csg	4,251.6	6/23/2012	13 3/8	68.00	L-80						
Intermediate Csg	10,171.4	7/19/2012	9 5/8	53.50	HCP-110						
Liner 1	13,340.0	8/3/2012	7	29.00	HCP-110						



## Daily Drilling Report

Well Name: WRD 23-33-R

Depth Start: 13,876.0  
Depth End: 13,937.0  
Depth Progress: 61.00  
Daily Cost: 43,970.70  
Cum Cost: 8,097,868.14

Operations at Report Time: Drilling @ 13,937'  
Report Date: 9/10/2012, Report # 85.0

## Well Information

PI Number 151031193100	WPC ID 1CO081801	Field Name White River	Rd. And (ft) 32.00	Original Spud Date 6/17/2012
Q1 NE	Quarter 2 SW	Quarter 3	Quarter 4	Section 33
Township 2N	Range 97W	County Rio Blanco	State CO	Well Configuration Type Vertical

## Survey Information

MD (ft)	Int (")	Asst (")	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (ft/100ft)	Date
15,657.00	4.70	38.30	15,631.74	782.80	74.57	788.00	0.80	7/14/2012
15,741.00	4.20	45.30	15,716.49	787.47	78.89	791.39	0.88	7/14/2012
15,840.00	5.40	44.10	15,814.14	793.36	84.70	797.87	1.22	7/14/2012

## Safety Incidents

Date 8/23/2012	Category Non-Recordable	Type Injury	Sub Type Struck By
Severity No Treatment	Lost time? No	Cause Human	Comment While in the riding belt attempting to drop the DV tool plug. The plug slipped through the rope and the plug fell bounced off of the floor and struck a halliburton employee in the leg. The employee was checked out and deemed ok. He was later hauled to the hospital due to the fact that he had had heart trouble in the past. We currently have no update from Halliburton.