



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.)

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 Survey Plat 6. Well/Facility Name: WRD 7. Well/Facility Number 23-33R Directional Survey 8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): NESW Sec 33-T2N-R97W, 6th PM Surface Eqpmt Diagram 9. County: Rio Blanco 10. Field Name: White River (92800) Technical Info Page X 11. Federal, Indian or State Lease Number: COC-45291 Other X 1533733 1533731 1533735

General Notice

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

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 STATUS Date 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 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

XX 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.)

Intent to Recomplete (submit form 2) Request to Vent or Flare E&P Waste Disposal Change Drilling Plans Repair Well Beneficial Reuse of E&P Waste Gross Interval Changed? Rule 502 variance requested Status Update/Change of Remediation Plans Casing/Cementing Program Change XX 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 & Permitting Manager

OGCC 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.



01533733

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GSC

SERVCO

WHIPSTOCK REPORT

CUSTOMER	Whiting	SMITH OPERATOR	Marcus Palmer	JOB #	1193	393820
CO. REP.	Kenneth	TYPE OF SIDETRACK	Single String	JOB DATE	9/7/2012	9/8/2012
CONTRACTOR	Patterson/ULTI	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		FORMATION TYPE		
WELL NAME	WRD 23-33R	BY-PASS VALVE		PROPERTIES		
WELL NUMBER	WRD 23-33R	NOZZLE TFA	GPM to Close	COMP. STRENGTH		
COUNTRY	Rio Blanco	MAX. DOGLEG IN WELL				deg.
STATE	CO					
COUNTRY	USA	Latitude		Well Type	Exploration	Well Target
		Longitude		Gas		Directional
				Weld Direction		Tight Hole

CASING DATA				MUD DATA				SETTING DATA				ORIENTATION DATA								
SIZE (in)	WT. (lb/ft)	ID (in)	DRIFT (in)	GRADE	TOP SET (ft)	CASING THRU WINDOW	CEMENT BEHIND CASING?	MUD TYPE	WT. (ppg)	PV (cp)	YF (cp)	COLLAR (ft)	TOP OF WHIP WINDOW (ft)	BOTTOM TOOL COLLAR (ft)	TOP OF WHIP WINDOW (ft)	HOLE ANGLE	WHIPSTOCK ORIENTATION	METHOD	SURVEY	COMPANY
13.375					0	4.251	YES	H2O	9.1	12	12	13.340	13.885	13.899	13.911	0.6				VAUGHN
9.825					0	10.171	NO													

MILL RUN DATA																			
RUN NO.	MILL TYPE	MILL SN	LEAD IN SN	DEPTH IN	DEPTH OUT	TYD IN	TYD OUT	FOOTAGE IN CASING	TIME (hrs)	ROP	GPM	PRESSURE	RPM	WORKING	WEIGHT	WORKING	TORQUE	DRAG	
1	LEAD MILL																		
	FOLLOW MILL																		
	Inner Dull																		
	Outer Dull																		

MILL RUN DATA																			
RUN NO.	MILL TYPE	MILL SN	LEAD IN SN	DEPTH IN	DEPTH OUT	TYD IN	TYD OUT	FOOTAGE IN CASING	TIME (hrs)	ROP	GPM	PRESSURE	RPM	WORKING	WEIGHT	WORKING	TORQUE	DRAG	
2	LEAD MILL																		
	FOLLOW MILL																		
	Inner Dull																		
	Outer Dull																		

MILL RUN DATA																			
RUN NO.	MILL TYPE	MILL SN	LEAD IN SN	DEPTH IN	DEPTH OUT	TYD IN	TYD OUT	FOOTAGE IN CASING	TIME (hrs)	ROP	GPM	PRESSURE	RPM	WORKING	WEIGHT	WORKING	TORQUE	DRAG	
3	LEAD MILL																		
	FOLLOW MILL																		
	Inner Dull																		
	Outer Dull																		

MILL RUN DATA																			
RUN NO.	MILL TYPE	MILL SN	LEAD IN SN	DEPTH IN	DEPTH OUT	TYD IN	TYD OUT	FOOTAGE IN CASING	TIME (hrs)	ROP	GPM	PRESSURE	RPM	WORKING	WEIGHT	WORKING	TORQUE	DRAG	
Performance	Anchor Setting	2,800	psi	35,000	35,000														
	Break Bot Data	Value	Actual	Actual															
	Length of Rathole																		
	Formation Bottom																		

MILL RUN DATA																			
RUN NO.	MILL TYPE	MILL SN	LEAD IN SN	DEPTH IN	DEPTH OUT	TYD IN	TYD OUT	FOOTAGE IN CASING	TIME (hrs)	ROP	GPM	PRESSURE	RPM	WORKING	WEIGHT	WORKING	TORQUE	DRAG	
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	Break Bot Data	Value	Actual	Actual															
	Length of Rathole																		
	Formation Bottom																		

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	Break Bot Data	Value	Actual	Actual															
	Length of Rathole																		
	Formation Bottom																		

MILL RUN DATA																			
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	Break Bot Data	Value	Actual	Actual															
	Length of Rathole																		
	Formation Bottom																		

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	Break Bot Data	Value	Actual	Actual															
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	Break Bot Data	Value	Actual	Actual															
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	Break Bot Data	Value	Actual	Actual															
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	Anchor Setting	2,800	psi	35,000	35,000														
	Break Bot Data	Value	Actual	Actual															
	Length of Rathole																		
	Formation Bottom																		

MILL RUN DATA											
RUN NO.	MILL TYPE	MILL SN	LEAD IN SN	DEPTH IN	DEPTH OUT	TYD IN	TYD OUT				





# SERVCO

Cementing Whipstock
Expandable Anchor

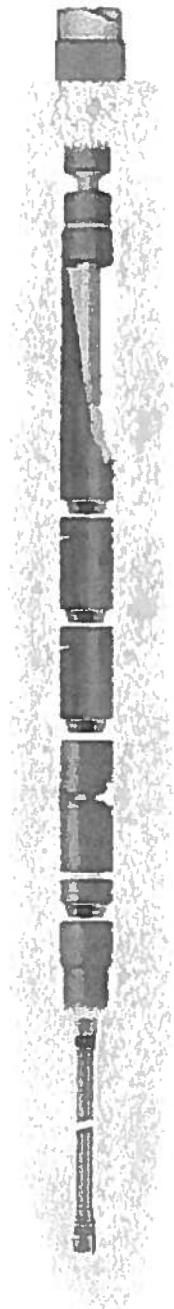
Customer: Whiting  
 Field: North Piceance  
 Well: WRD 23-33R WRD 23-33R

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

**Casing Information**

Size:	<u>OD_4.500</u>
Weight:	<u>26.500</u>
Grade:	
I.D.:	<u>3.240</u>
Drift I.D.:	<u>3.115</u>
Wall:	<u>0.630</u>

Joints of Tubing = 10.00



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



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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

**HALLIBURTON**



# 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 ft <sup>3</sup> /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			Srcv 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						

**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			
<b>TOTAL</b>		<i>Total is the sum of each column separately</i>						

**Job**

**Job Times**

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	07 - Sep - 2012	00:00	MST
Form Type		BHST	288 degF	07 - Sep - 2012	23:00	MST
Job depth MD	14,222 ft	Job Depth TVD	14222. ft	07 - Sep - 2012	11:00	MST
Water Depth		Wk Ht Above Floor	6. ft	07 - Sep - 2012	12:20	MST
Perforation Depth (MD)	From	To	Departed Loc	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 ft <sup>3</sup> /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 ft <sup>3</sup> /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					

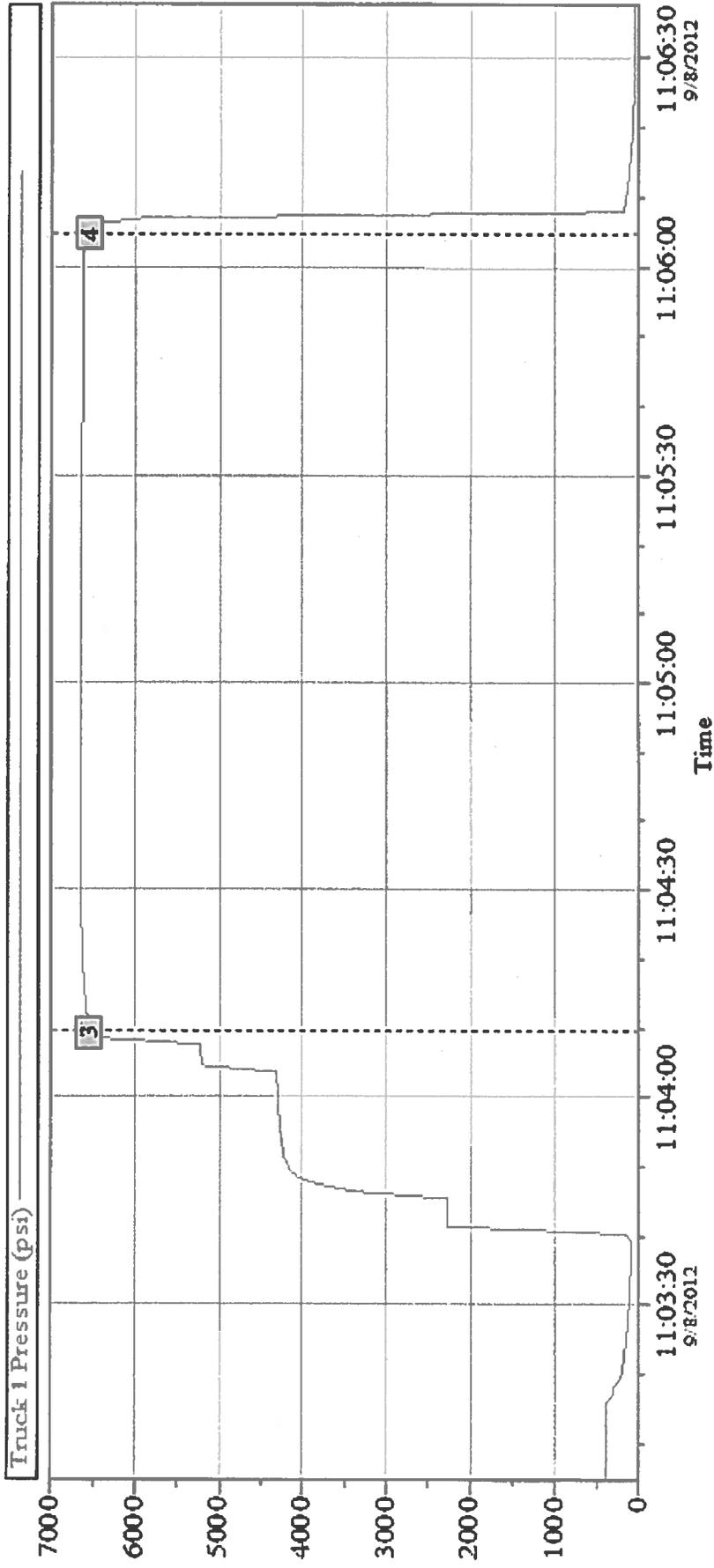
Summit  
Version:

Monday, September 10, 2012 12:03:00

# HALLIBURTON

## Data Acquisition

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



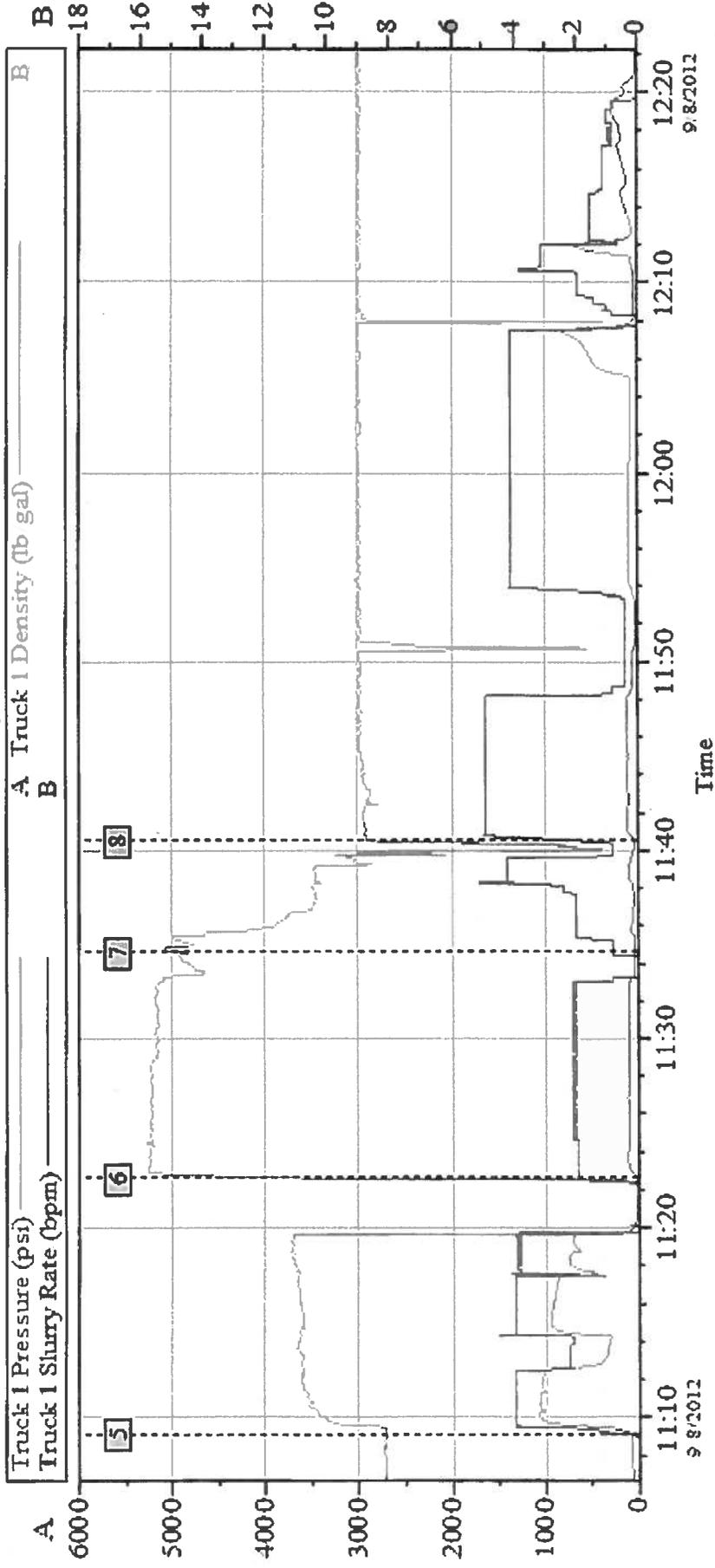
Global Event Log			
	psi	Intersection	psi
(3)	6539	End Test	6630

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

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

Salin Order#: 9782400  
 Line #: 10372435  
 Service Leader: Ken Easop Sr

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



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: 9753400
Job Description: Plug	UAT: Service Operator Sam Hunter	Elim #: 1087435
Service Supervisor: Devon Barshoff		Service Leader: Ken Estep Sr

OptiCem v6.4.10  
08-Sep-12 12:37

01533734



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: 9/8/2012, Report # 83.0

Well Information table with columns: API Number, RPC ID, Field Name, KD-Date, Original Spud Date, Lot, Quarter 1-4, Section, Township, Range, Twp, Range, Sec, County, State, Well Completion Type

Summary of Operations
Daily Contexts
Company Man, Kenneth Wilkerson, 970-218-4399
Contractor Patterson
Rig Number 330

Operations Summary
Wash & ream 13338 to 14222. Circulate sweep around. Pull out of the hole. Pick up tubing make up whip stock and scribe same. Trip in the hole with drill pipe to 14,222'. Rig up Vaughn Energy Services.

Operational Next Report Period
Drilling
Drilling Maroon fm
Drilling Maroon fm
Avg Drill Rate (ft/hr)
Min Drill Rate (ft/hr)

Time Log table with columns: Start Time, End Time, Dur (hr), Code Descr, Unschd Typ, Com

Daily Drilling Costs table with columns: Cost Desc, Code 1, Code 2, Vendor, Field Est (Cost)

Mud Properties table with columns: Supplier, Depth (RFB), Density (lb/gal), Funnel Viscosity (cP), PV Overlap (pp), YP OR (lb/100), Gel 10 sec (lb/100), Gel 10 min (lb/100), SH, Low Gravity Solids (%), Solids (%), Sand (%), Chlorides (mg/L), Filtrate (mL/30min), HTHP Filtrate (mL/30min), Percent Water (%), Percent Oil (%), Electric Stop (V)

Mud Loss to Hole (bbt), Class Mud Loss to Hole (bbt), Mud Lost to Surface (bbl), Cum Mud Lost to Surface (bbl)

Mud Pumps table with columns: Pump Number, Libor Size (in), Volume Per Stroke Overlap (bbl/stk)

Pump Operations table with columns: Pump Number, Model, Slow Speed Check Y, Strokes (rpm), Pressure (psi), Volumetric Efficiency (%)

Gas Flare Tracking table with columns: Actual Prod Or, Produced Mre (Bbl), Prod Method, Flaring, Drig Flare Hi (ft)

Last BOP Test table with columns: Last Certification Date, Description, Nominal ID (in), Pressure Rating (psi), Drig Flare Hi (ft)

Bit Record table with columns: BHA #, Bit Type, Bit Size, Make, Model, Serial Number, Date In, Depth In (ft), ADC Bit Cost, Notches (UOP)

Bottom Hole Assembly table with columns: Item Desc, OD (in), ID (in), Mass/Len (lb/ft), Grade, Len (ft), Jo, Make, Model

Casing Strings table with columns: Csg Desc, Set Depth (RFB), Run Date, OD (in), Wt/Len (lb/ft), Grade

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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: 8/8/2012, Report # 83.0

Well Information

Well Number	WRC ID	Field Name	APC Ord #	Original Field Date
51031193100	1CO081801	White River	32.00	6/17/2012
Quarter 1	Quarter 2	Quarter 3	Quarter 4	Section
NE	SW			33
Township	Range	County	State	Well Completion Type
2 N	97 W	Rio Blanco	CO	Vertical

Survey Information

MD (ft)	Incl (°)	Asm (")	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (ft)	Date
15,657.00	4.70	38.30	15,631.74	782.60	74.57	766.09	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
6/23/2012	Non-Recordable	Injury	Struck By
Severity to Treatment	Lost time?	Cause	Comments
	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 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

Well Name: WRD 23-33-R

Depth Start: 15,923.0
Depth End: 15,923.0
Depth Progress: 0.00
Daily Cost: 90,746.63
Cum Cost: 8,053,697.44

Operations at Report Time: Repair brakes on drawworks
Report Date: 9/9/2012, Report # 84.0

Well Information

Table with well details including API Number (051031193100), Well ID (1C0081801), Field Name (White River), KSI-Cri (ft) (32.00), Original Spud Date (8/17/2012), and AFE Number (12-0598).

Summary of Operations

Table with company and contractor information: Company Man, Kenneth Wilkerson, 970-218-4399; Contractor, Patterson; Rig Number, 330.

Operations Summary

Wireline, Set whip stock, Cement, Circulate, Pull out of the hole, Change out drill line spool. Repair brakes on drawworks

Table with drilling parameters: Avg Drill Gas (%), Max Drill Gas (%), Max Trip Gas (%), all at 100.00.

Time Log

Table with time log entries: Start Time, End Time, Dur (hr), Code Descr, Usecd Typ, Com. Includes activities like Survey, Plug Back, and Rigs Repair.

Daily Drilling Costs

Table with cost breakdown by category and vendor. Categories include Contract Daywork, Consulting Services, Transportation/Hauling, Mud Materials, etc. Vendors include Patterson-UTI Drilling Co LP, Wilkerson Consulting, etc.

Mud Properties

Table with mud properties: Supplier (Newpark), Density (lb/gal) (9.10), Funnel Viscosity (cp) (39), PV Overlay (cp) (12.0), YP OR (lb/100) (11.000), etc.

Mud Pumps

Table with pump details: Pump Number (2), Liner Size (in) (6 1/2), Volume Per Stroke Override (barrels).

Pump Operations

Table with pump operation parameters: Pump Number, Model, Slow Speed Check?, Stroke (spm), Pressure (psi), Volumetric Efficiency (%).

Gas Flare Tracking

Table with gas flare tracking: Actual Prod Oil, Produced Hrs (hr) (0.00), Prod Method (Drilling Flare), Flaring (Yes), Gas Flare Hrs (hr) (0).

Last BOP Test

Table with BOP test details: Last Certification Date, Description, Nominal ID (in) (13 5/8), Pressure Rating (psi) (10,000.0).

Bit Record

Table with bit record details: BHA #, Bit Run, Bit Size, Name, Model, Serial Number, Date In, Depth In (ft) (ft), MDC Bit Out, Muclos (1/32), Start Depth (ft) (ft), End Depth (ft) (ft), Cum Depth Drilled (ft) (ft), Drilling Time (hr) (hr), Cum Drilling Time (hr) (hr), TPA (in/d Post) (in), Weight on Bit (1000lb) (lb), Flow Rate (gpm) (gpm), Interval ROP (ft/hr) (ft/hr), Total ROP (ft/hr) (ft/hr), Surface RPM (rpm) (rpm), Motor RPM (rpm) (rpm), Drilling String Weight (1000lb) (lb), Pick-Up String Weight (1000lb) (lb), Stack-Off String Weight (1000lb) (lb), Drilling Torque (ft-lb) (ft-lb), Off Bottom Torque (ft-lb) (ft-lb), Torque Units (ft-lb) (ft-lb).

Bottom Hole Assembly

Table with bottom hole assembly details: Item Desc, OD (in) (in), ID (in) (in), MassLen (ft) (ft), Grade, Len (ft) (ft), Jts, Make, Model.

Casing Strings

Table with casing string details: Csg Desc, Set Depth (ft) (ft), Run Date, OD (in) (in), WtLen (ft) (ft), Grade. Includes Conductor Pipe, Surface Csg, Intermediate Csg, and Liner 1.



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

Table with well details: Well Number (51031193100), WPC ID (1CO081801), Field Name (White River), RB-Grid (R) (32.00), Original Spud Date (8/17/2012)

Survey Information

Table with survey data: MD (mcs), Ind ('), Azm (°), TVD (ft), NS (ft), EW (ft), VS (ft), DLS (ft/100ft), Date

Incident Information

Table with incident details: 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...)



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: 8,097,668.14

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

Well Information table with columns: API Number, UIC ID, Field Name, R/S-Grid (ft), Original Spud Date, Lot, Quarter 1, Quarter 2, Quarter 3, Quarter 4, Section, Township, Range, Rig #, County, State, Well Configuration Type, AFE Number, Weight Depth (ft), Target Formation, Job Type

Summary of Operations table with columns: Daily Contact, Contractor, Rig Number

Operations Summary table with columns: Repair drawworks, Pick up directional tools & trip in the hole to 9244, Trip in the hole - Side track, Drill ahead 13,883-13,937'

Time Log table with columns: Start Time, End Time, Dur (hr), Code Descr, Unstd Typ, Com

Daily Drilling Costs table with columns: Cost Desc, Code 1, Code 2, Vendor, Field Est (Cost)

Mud Properties table with columns: Supplier, Depth (ft), Density (lb/gal), Fomul Viscosity (cp), PV Overide (cp), VP CR (lb/lb), Gel 10 sec (lb/100lb), Gel 10 min (lb/100lb), pH, Low Gravity Solids (%), Solids (%), Sand (%), CNWides (ppg), Filtrate (mL/30min), RTMP Filtrate (mL/30), Percent Water (%), Percent Oil (%), Electric Solids (V)

Mud Pumps table with columns: Pump Number, Liner Size (in), Volume Per Stroke (bbl/stk)

Pump Operations table with columns: Pump Number, Model, Slow Speed Check?, Strokes (rpm), Pressure (psi), Volumetric Efficiency (%)

Gas Flare Tracking table with columns: Actual Prod Dt, Produced (hrs), Prod Method, Flaring, Dog Flare Ht (ft)

Last BOP Test table with columns: Last Certification Date, Description, Nominal ID (in), Pressure Rating (psi)

BH Record table with columns: BHA #, Bit Run, Bit Size, Make, Model, Serial Number, Date In, Depth In (ft), AADC Bit Ball, Nozzles (1/32"), Start Depth (ft), End Depth (ft), Cum Depth (ft), Drilling Time (hr), Cum Drilling Rate (hr), TFA (incl Noz) (in), Weight on Bit (1000lb), Flow Rate (gpm), Interval ROP (ft/hr), Total ROP (ft/hr), Surface RPM (rpm), Motor RPM (rpm)

Bottom Hole Assembly table with columns: Drilling String Weight (1000lb), Pick-Up String Weight (1000lb), Back-Off String Weight (1000lb), Drilling Torque, CR Bottom Torque, Torque Units

Bottom Hole Assembly table with columns: Item Desc, OD (in), ID (in), Mass/Len (lb/ft), Grade, Len (ft), Jt, Make, Model

Casing Strings table with columns: Csg Desc, Set Depth (ft), Run Date, OD (in), Wt/Len (lb/ft), Grade



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		WRC ID 1CO081801			Well Name White River			R/S-Ord (ft) 32.00	Original Spud Date 6/17/2012	
Q1	Quarter 1 NE	Quarter 2 SW	Quarter 3	Quarter 4	Section 33	Township 2N	Range 07W	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		
15,667.00	4.70	38.30	15,631.74	782.60	74.57	785.00	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.		