

WPX Energy Rocky Mountain LLC- EBUS

GM 514-21

Cyclone 17

Post Job Summary

Cement Production Casing

Date Prepared: 12/29/2014
Job Date: 12/22/2014

Submitted by: Evan Russell – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3205595	Quote #:	Sales Order #: 0901960347
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: AL DUNIHO	
Well Name: PUCKETT		Well #: GM 514-21	API/UWI #: 05-045-22191-00
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: 28-6S-96W-1277FNL-1084FWL			
Contractor: CYCLONE		Rig/Platform Name/Num: CYCLONE 17	
Job BOM: 7523			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srvc Supervisor: Thomas Ponder	
Job			

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	7243ft		Job Depth TVD
Water Depth			Wk Ht Above Floor 3ft
Perforation Depth (MD)	From		To

Well Data										
Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Casing		9.625	8.921	36			0	1480		0
Casing		4.5	4	11.6			0	7246		0
Open Hole Section			8.75				1480	7266	0	0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	4.5	1				Top Plug	4.5	1	HES
Float Shoe	4.5	1		7243		Bottom Plug	4.5		
Float Collar	4.5	1		7215.1		SSR plug set	4.5		
Insert Float	4.5	1				Plug Container	4.5	1	HES
Stage Tool	4.5	1				Centralizers	4.5		

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

Fluid Data										
Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Mud Flush III (Powder)	Mud Flush III	20	bbl	8.4			4		
42 gal/bbl		FRESH WATER								

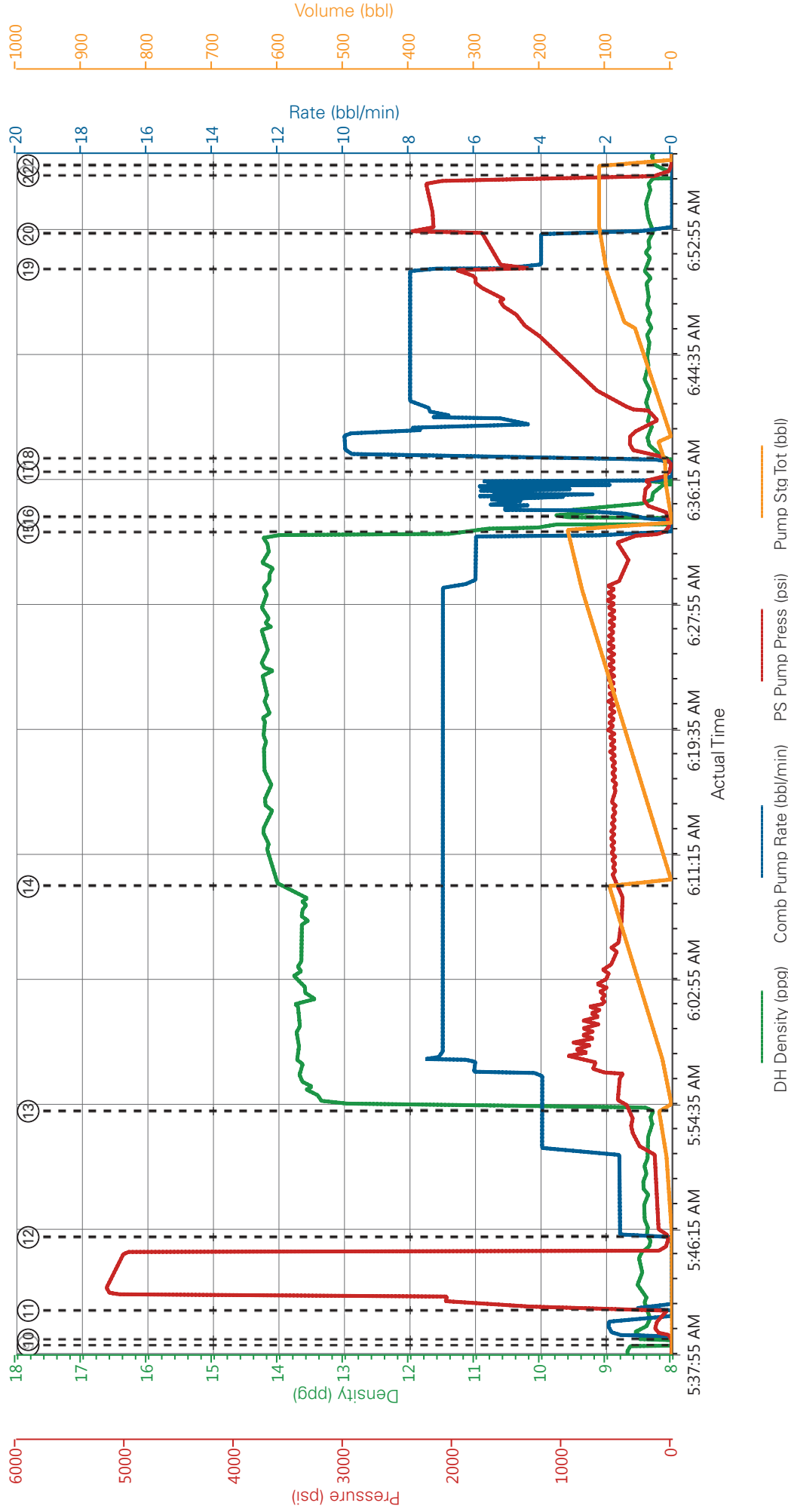
Fluid #	Stage Type	Fluid Name		Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	VariCem GJ3	VARICEM (TM) CEMENT		380	sack	13.7	1.42		7	6.61
6.64 Gal		FRESH WATER								
Fluid #	Stage Type	Fluid Name		Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	VariCem GJ3	VARICEM (TM) CEMENT		705	sack	14.2	1.299		7	5.74
5.74 Gal		FRESH WATER								
Fluid #	Stage Type	Fluid Name		Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Displacement	Displacement		111.9	bbl	8.34			8	
Cement Left In Pipe		Amount	28 ft			Reason		Shoe Joint		
Comment										

1.1 Job Event Log

Type	Seq. No.	Activity	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Sig Tot (bbl)	Comment
Event	1	Call Out	12/22/2014	14:00:00	USER					ON LOCATION TIME @ 1900 12/22/2014
Event	2	Pre-Convoy Safety Meeting	12/22/2014	16:30:00	USER					ALL PERSONNEL INVOLVED WITH THE CONVOY PRESENT FOR THE MEETING
Event	3	Crew Leave Yard	12/22/2014	16:45:00	USER					ALL VEHICLES LEFT YARD AT THE SAME TIME
Event	4	Arrive At Loc	12/22/2014	18:00:00	USER					RIG WAS JUST FINISHING PULLING WEAR BUSHINGS TO START RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	12/23/2014	02:00:00	USER					TD - 7266', TP - 7246', SJ - 27.9', MUD 10.5 PPG, OPEN HOLE - 8 3/4", SURFACE CASING - 9 5/8" 32.3# H-40 SET @ 1480.4', PRODUCTION CASING - 4 1/2" 11.6# I-80 SET @ 7423'
Event	6	Pre-Rig Up Safety Meeting	12/23/2014	02:15:00	USER					JSA PERFORMED WITH ALL HES
Event	7	Rig-Up Equipment	12/23/2014	02:30:00	USER					1 - 550 PICK UP TRUCK, 1 - ELITE PUMPING UNIT, 1 - 660 CUFT BULK TRAILER, 1 - 1200 CUFT STORAGE SILO, 1 - 4 1/2" TOP PLUG, PLUG CONTAINER, AND QUICK LATCH, 2" CIRCULATING IRON, 1 - IRON TRAILER
Event	8	Pre-Job Safety Meeting	12/23/2014	05:30:00	USER					ALL HES PRESENT, RIG CREW PRESENT, RIG STARTED CIRCULATING ON BOTTOM @ 0230
Event	9	Start Job	12/23/2014	05:38:45	COM7					RIGGED UP MANIFOLD ON THE IG FLOOR, HOOKED UP STEEL HOSE TO PLUG CONTAINER AND

MANIFOLD										
Event	10	Prime Pumps	12/23/2014	05:39:08	COM7	8.33	2	155	2	FILL LINES WITH FRESH WATER
Event	11	Test Lines	12/23/2014	05:41:05	COM7		.1	5187	.1	OK PRESSURE TEST NO LEAKS IN THE LINES
Event	12	Pump Spacer 1	12/23/2014	05:45:58	COM7	8.5	4	400	20	MUDFLUSH III, MIXED UP AND WEIGHED FIRST TUB OF CEMENT, RIG STARTED RECIPROCATING THE PIPE WHEN SPACER WAS STARTED
Event	13	Pump Lead Cement	12/23/2014	05:54:23	COM7	13.7	7	915	96.1	380 SKS 13.7 PPG 1.42 FT3/SK 6.61 GAL/SK
Event	14	Pump Tail Cement	12/23/2014	06:09:22	COM7	14.2	7	575	163.2	705 SKS 14.2 PPG 1.3 FT3/SK 5.74 GAL/SK
Event	15	Shutdown	12/23/2014	06:32:59	USER					
Event	16	Clean Lines	12/23/2014	06:34:00	COM7					WASH UP PUMPS AND LINES TO CATCH BIN
Event	17	Drop Top Plug	12/23/2014	06:36:58	USER					PLUG DROP VERIFIED VIA TATTLE TELL BY CO REP
Event	18	Pump Displacement	12/23/2014	06:37:54	COM7	8.5	8	1955	101.9	FRESH WATER, 1 GAL MMCR, 3 LB BE-6, 2% KCL SUPPLIED BY THE RIG
Event	19	Slow Rate	12/23/2014	06:50:31	USER	8.5	4	1547	10	GOOD RETURNS THROUGH OUT THE JOB, STOPPED RECIPROCATING PIPE AT THE START OF TAIL CEMENT
Event	20	Bump Plug	12/23/2014	06:52:52	USER		4	1775	111.9	PLUG BUMPED AT CALCULATED DISPLACEMENT
Event	21	Check Floats	12/23/2014	06:56:46	USER			2260	111.9	FLOATS HELD, 1 BBL BACK TO THE DISPALCEMENT TANKS
Event	22	End Job	12/23/2014	06:57:26	COM7					THANK YOU FOR CHOOSING HALLIBURTON, THOMAS PONDER AND CREW

WPX - PUCKETT GM 514-21 - 4.5 IN PRODUCTION



- ① Call Out
 - ② Pre-Convoy Safety Meeting
 - ③ Crew Leave Yard
 - ④ Arrive At Loc
 - ⑤ Assessment Of Location Safety Meeting
 - ⑥ Pre-Rig Up Safety Meeting
 - ⑦ Rig-Up Equipment
 - ⑧ Pre-Job Safety Meeting
 - ⑨ Start Job
 - ⑩ Prime Pumps
 - ⑪ Test Lines
 - ⑫ Pump Spacer 1
 - ⑬ Pump Lead Cement
 - ⑭ Pump Tail Cement
 - ⑮ Shutdown
 - ⑯ Clean Lines
 - ⑰ Drop Top Plug
 - ⑱ Pump Displacement
 - ⑲ Slow Rate
 - ⑳ Bump Plug
 - ㉑ Check Floats
- 22 End Job

▼ **HALLIBURTON** | iCem® Service

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Edit

Customer : WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date : 12/23/2014 4:07:12 AM

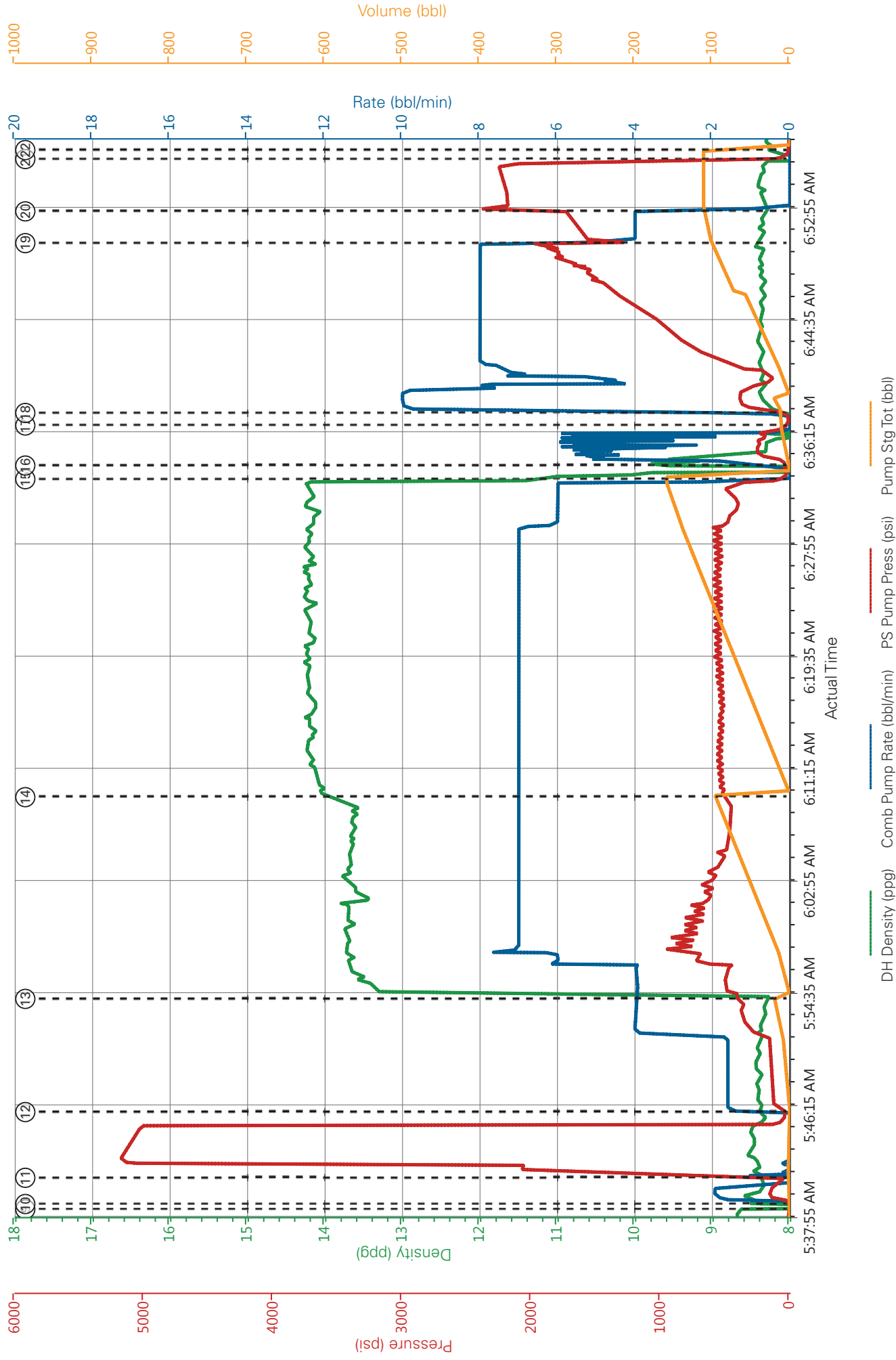
Well : PUCKETT GM 514-21

Representative : AL DUNIHO

Sales Order # : 901960347

ELITE #6 : TRAVIS BROWN / THOMAS PONDER

WPX - PUCKETT GM 514-21 - 4.5 IN PRODUCTION



HALLIBURTON

Company:	<u>WPX</u>	Date:	<u>12/23/2014</u>
Submitted by:	<u>THOMAS PONDER</u>	Date Rec.:	<u>12/23/2014</u>
Attention:	<u>LARRY COOKSEY</u>	S.O.#	<u>901960347</u>
Lease	<u>PUCKETT</u>	Job Type:	<u>PRODUCTION</u>
Well #	<u>GM 514-21</u>		

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>250</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>120</i> Mg / L
Iron (FE2)	<i>300</i>	<i>0</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>0</i> Mg / L
Sulfates (SO ₄)	<i>1500</i>	<i><200</i> Mg / L
Carbonates hardness		
Temp	<i>40-80</i>	<i>65</i> Deg
Total Dissolved Solids		<i>485</i> Mg / L

Respectfully: THOMAS PONDER

Title: CEMENTING SUPERVISOR

Location: GRAND JCT, CO

Sales Order #: 0901960347	Line Item: 10	Survey Conducted Date: 12/23/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT PRODUCTION CASING BOM
Customer Representative: AL DUNIHO		API / UWI: (leave blank if unknown) 05-045-22191-00
Well Name: PUCKETT		Well Number: 0080241847
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

Dear Customer,

We hope that you were satisfied with the service quality of this job performed by Halliburton. It is the aim of our management and service personnel to deliver equipment and service of a standard unmatched in the service sector of the energy industry.

Please take the time to let us know if our performance met with your satisfaction. Please be as critical as possible to ensure we constantly improve our service. Your comments are of great value to us and are intended for the exclusive use of Halliburton.

CUSTOMER SATISFACTION SURVEY

CATEGORY	CUSTOMER SATISFACTION RESPONSE	
Survey Conducted Date	The date the survey was conducted	12/23/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX41187
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	AL DUNIHO
HSE	Was our HSE performance satisfactory? Circle Y or N	Yes
Equipment	Were you satisfied with our Equipment? Circle Y or N	Yes
Personnel	Were you satisfied with our people? Circle Y or N	Yes
Customer Comment	Customer's Comment	GOOD JOB MEN!

CUSTOMER SIGNATURE

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KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	12/23/2014

Cementing KPI Survey	
Type of Job Select the type of job. (Cementing or Non-Cementing)	0
Select the Maximum Deviation range for this Job What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Deviated
Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	4
HSE Incident, Accident, Injury HSE Incident, Accident, Injury. This should be recordable incidents only.	No
Was the job purpose achieved? Was the job delivered correctly as per customer agreed design?	Yes
Operating Hours (Pumping Hours) Total number of hours pumping fluid on this job. Enter in decimal format.	2
Customer Non-Productive Rig Time (hrs) Lost time due to Halliburton in the start, execution, or completion of an ordered service or product, or delays in a follow-on service. Enter in decimal format. 0 if none.	0
Type of Rig Classification Job Was Performed Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
Number Of JSAs Performed Number Of Jsas Performed	6
Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time.	0
Was this a Primary Cement Job (Yes / No)	Yes

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Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs?	Top
Mixing Density of Job Stayed in Designed Density Range (0-100%) Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	99
Was Automated Density Control Used? Was Automated Density Control (ADC) Used ?	Yes
Pump Rate (percent) of Job Stayed At Designed Pump Rate Pump Rate range defined as +/- 1bbl/min. Calculation: Total BBLs of fluid pumped at the designed rate divided by Total BBLs of fluid pumped, multiplied by 100	99
Nbr of Remedial Sqz Jobs Rqd - Competition Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
Nbr of Remedial Plug Jobs Rqd - HES Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
Nbr of Remedial Sqz Jobs Rqd - HES Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0