

30-015-41587

Casing Cementing

PAR FIVE ENERGY SERVICES LLC

Company: RKI

Well Name: Pinnacle 36 #32H

Field:

County: Eddy

State: New Mexico

Date: 8-15-2013

Well Location:

API Number:

Proposal Code: 1

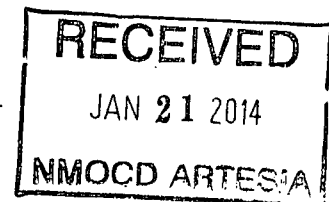
Contact: Mr. Joel Acosta

Made By: Chris S deLeon

Service from District: Artesia, New Mexico

District Phone: 575-748-8610 Ext 2920

Objective: Cement surface casing per co-rep.



Par-Five Energy Services, LLC

Disclaimer Notice

This is a good faith estimate based significantly upon information provided by the client and, from that information, assumptions about the well, reservoir and treatment. The estimate was then prepared with Par-Five's proprietary computer modeling using that information. Unknown, undisclosed, and/or unusual conditions in or of the well may cause Par-Five's final bill to vary substantially from this estimate and, if this estimate is excepted, the client agrees to be fully and totally responsible for Par-Five's final bill based upon the actual work performed regardless of any variation from this estimate. No warranty is given by and Par-Five assumes no liability for advice or recommendations made concerning the use of any product or service. The quality of input data, and hence results, may be improved through the use of certain tests and procedures which Par-Five can assist in selecting if you so request. Freedoms from infringement of patents of Par-Five or others is not to be inferred nor are any such rights granted unless expressly agreed to in a separate writing executed by Par-Five.

PAR FIVE

ENERGY SERVICES LLC

Service Order for Job: J00003238

Call Out Sheet Number: CALL00003460

Date of Job: 15-Aug-2013

District: Artesia

Time Well Ready: 10:07 am

Ready to Pump: 10:07 am

Customer: RKI Exploration & Production LI

DV Tool:

Well TVD: 450

Job Stage Number: 1

Treat Down: Casing

Head & Manifold 13 3/8 Surface

Hole Size: 17 1/2

Well MD: 450

Well TVD: 450

BHST:

BHP:

BHCT:

Max Allowed Pressure:

New Well: New Well

Well #: Pinnacle 36 #32H

County: Eddy

State: New Mexico

Legal Location: 99 999 999

Field:

Description:

API#:

Salesman: Chris DeLeon

Contact Person/Companyman: Mr. Joel Acosta

Contact Number: 1-405-441-4393

Email:

Rig Contractor: Silver Oak

Rig Number: 9

Rig Phone:

Max Allowed Ann Pressure:

Casing/Tubing

String Type	Depth	Size	Weight	Grade	Thread
Casing	450	13 3/8	54.5	J55	8rd

Job Type	Casing	Service Supervisor:	Granados Anthony		
Sks/Gals.	Cement Type/Additives	Tractor	Trailer	Equipment Operators	
475.00 Sack	Class C, per cu. ft. (94lb/cu ft)				
893.00 Pound	PF001 Calcium Chloride, per lb (50lb/cu ft)				

Cement Recipe

475 Sks C + 2% PF1
14.8# Yield 1.34 H2O 6.321

PF903: 94#

PF1: 1.88#

13 3/8 Head ETC

200# Sugar

Description	Quantity	Unit Price	Extended Price	Disc. %	Net Amount
DOT Conformance Charge, per unit*	3.00	\$325.00	\$975.00	50%	\$487.50
Fuel Used On Location*	3.00	\$425.00	\$1,275.00	50%	\$637.50
Mileage Charge, all other equipment, per mile*	90.00	\$6.00	\$540.00	50%	\$270.00
Cars, pickups, monitoring vehicles round trip*	90.00	\$4.00	\$360.00	50%	\$180.00
PF-999 - Sugar*	200.00	\$4.00	\$800.00	50%	\$400.00
Casing - 0000 - 2000*	1.00	\$2,500.00	\$2,500.00	50%	\$1,250.00
Top Plastic Plugs - 13.375*	1.00	\$1,305.00	\$1,305.00	50%	\$652.50
Bulk Unit, per hr on location*	8.00	\$150.00	\$1,200.00	50%	\$600.00
Low Pressure Cement Plug Container*	1.00	\$800.00	\$800.00	50%	\$400.00
Circulation Equipment before job, per job*	1.00	\$1,200.00	\$1,200.00	50%	\$600.00
Delivery Charge - Ton mileage, per ton/mile*	1,029.00	\$1.75	\$1,800.75	50%	\$900.37

PAR FIVE

ENERGY SERVICES LLC

Description	Quantity	Unit Price	Extended Price	Disc. %	Net Amount
Service Charges - Land jobs*	475.00	\$2.00	\$950.00	50%	\$475.00
Laboratory Testing QA/QC Per Job*	1.00	\$500.00	\$500.00	50%	\$250.00
Data Acquisition Recorder*	1.00	\$800.00	\$800.00	50%	\$400.00
Class C, per cu. ft. (94lb/cu.ft)	475.00	\$29.50	\$14,012.50	50%	\$7,006.25
PF001 Calcium Chloride, per lb. (50lb/cu.ft)	893.00	\$1.20	\$1,071.60	50%	\$535.80
Job Total:					\$15,044.92

Service Instructions	Directions
475 Sks C + 2% PF1 14.8# Yield 1.34 H2O 6.321 PF903: 94# PF1: 1.88# 13 3/8 Head ETC 200# Sugar	US285 South to Carlsbad to the New Truck route on the left handside of the road to US62/180 turn Right to US Refinery Rd. Turn Left onto US Refinery Rd and continue towards CR31. Just before CR31 rig is on the Left



Par-Five Energy Services

11279 Lovington Hwy
Artesia, NM 88210

Tel. (575) 748-1288 Fax (575) 748-6898

ART

Test Date: August 14, 2013

Client: RKI Exploration & Producti
Well Name: Pinnacle St 36 #32H
Field:
County:
State: NM
Location/Rig: Silver Oak #9
Job Type: 13 3/8 Surface
String Type:
Stage Number: Lead
String: Surface
Blend Type: Pilot

Deviation: Dev
Hole Size: 17.5
Treat Down: 450
Stage Tool Down: STD
Max Allowed Pressure: 750
Yard Time: YT
Leave Time: LT
Location Time: Loc
Ready To Pump: Ready
Depth: 450
Size: 13.375

Weight: 54.5
Grade: Grade
Thread: Thread
Client Name:
Voice: Voice
Fax: Fax
Email: cdeleon@par-five.com
Title: Title
Company: Par-Five Energy Services
Sales By: Sales

Lead								Tail							
Density	#N/A	Yield	#N/A	MW	#N/A	TF	#N/A	Density	14.80	Yield	1.34	MW	6.321	TF	10.040
MD:	450 ft	TVD:	450 ft	BHST:	88°F	BICT:	81 °F	MD:	450 ft	TVD:	450 ft	BHST:	88	BHST:	81°F
Number of Sacks:		0						Number of Sacks:		475					
0.00 PPG								14.80 PPG, C: 2.00% PF001;							
Material	Composition		lbs		gals			Material	Composition		lbs		gals		
Cmt	#N/A		#N/A					Cmt	94.00		44,650.00				
Poz	#N/A		#N/A					Poz	0		0.00				
0	0.000		0.000		0.000			PF001	1.880		893.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
	0.000		0.000		0.000			0	0.000		0.000		0.000		
	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.00														

PAR FIVE

ENERGY SERVICES LLC

Cement volumes were calculated using 100% excess over open hole volume and in cased hole volume.

475 sks C + 2% PF1

Density 14.8	Yield 1.34	H2O 6.3
--------------	------------	---------

PAR FIVE

ENERGY SERVICES LLC

Service Order for Job: J00003239

Call Out Sheet Number: CALL00003461

Date of Job: 15-Aug-2013

District: Artesia

Time Well Ready: 10:16 am

Ready to Pump: 10:16 am

Customer: RKL Exploration & Production LI

DV Tool:

Well TVD: 4000

Job Stage Number: 1

Treat Down: Casing

Head & Manifold 9 5/8 Intermediate

Hole Size: 12 1/4

Well MD: 4000

Well TVD: 4000

BHST:

BHP:

BHCT:

Max Allowed Pressure:

New Well: New Well

Well #: Pinnacle 36 #32H

County: Eddy

State: New Mexico

Legal Location: 99 999 999

Field:

Description:

API#:

Salesman: Chris DeLeon

Contact Person/Companyman: Mr. Joel Acosta

Contact Number: 1-405-441-4393

Email:

Rig Contractor: Silver Oak

Rig Number: 9

Rig Phone:

Max Allowed Ann Pressure:

Casing/Tubing

String Type	Depth	Size	Weight	Grade	Thread
Casing	4000	9 5/8	40	J55	8rd

Job Type

Casing

Service Supervisor: Granados Anthony

Sks/Gals.

Cement Type/Additives

Tractor

Trailer

Equipment Operators

762.00 Sack	Class C, per cu. ft. (94lb/cu ft)
303.00 Sack	PF132 LITEPOZ, per cu. ft. (79lb/cu ft)
3,589.00 Pound	PF044 Granulated Salt, per lb (70lb/cu ft)
4,606.00 Pound	PF20 Bentonite Extender, per lb (60lb/cu ft)
2,595.00 Pound	PF42 KOL-SEAL-LCA, per lb (50lb/cu ft)
768.00 Pound	PF001 Calcium Chloride, per lb (50lb/cu ft)
38.00 Pound	PF13 Retarder, per lb
346.00 Pound	PF46 Antifoam Agent, per lb
108.00 Pound	PF29 Cellophane Flakes, per lb

Cement Recipe

865 Sks 35/65 Poz/C + 5% (BWOW) PF44 + 6% PF20 + 1% PF1 + .125 pps PF29 + .4 pps PF46 + 3 pps PF42
12.9# Yield 1.92 H2O 9.951

PF903: 61.1#
PF132: 27.65#
PF20: 5.325#
PF1: 888#
PF29: 125#
PF46: 4#
PF42: 3#
PF44: 4.15#

200 Sks C + 2% PF13
14.8# Yield 1.33 H2O 6.32

PF903: 94#
PF13: 188#

9 5/8 Head ETC
200# Sugar



ENERGY SERVICES LLC

Description	Quantity	Unit Price	Extended Price	Disc %	Net/Amount
DOT Conformance Charge, per unit*	3.00	\$325.00	\$975.00	50%	\$487.50
Fuel Used On Location*	3.00	\$425.00	\$1,275.00	50%	\$637.50
Mileage Charge, all other equipment, per mile*	180.00	\$6.00	\$1,080.00	50%	\$540.00
Cars, pickups, monitoring vehicles round trip*	90.00	\$4.00	\$360.00	50%	\$180.00
PF-999 - Sugar*	200.00	\$4.00	\$800.00	50%	\$400.00
Casing - 3001' - 4000'	1.00	\$3,300.00	\$3,300.00	50%	\$1,650.00
Top Plastic Plugs - 9.625'	1.00	\$421.00	\$421.00	50%	\$210.50
Cement Field Bin Set Up Charge*	1.00	\$750.00	\$750.00	50%	\$375.00
Bulk Unit, per hr on location*	4.00	\$150.00	\$600.00	50%	\$300.00
Low Pressure Cement Plug Container*	1.00	\$800.00	\$800.00	50%	\$400.00
Circulation Equipment before job, per job*	1.00	\$1,200.00	\$1,200.00	50%	\$600.00
Delivery Charge - Ton mileage, per ton mile*	2,426.00	\$1.75	\$4,245.50	50%	\$2,122.75
Service Charges - Land jobs*	1,065.00	\$2.00	\$2,130.00	50%	\$1,065.00
Laboratory Testing QA/QC Per Job*	1.00	\$500.00	\$500.00	50%	\$250.00
Data Acquisition Recorder*	1.00	\$800.00	\$800.00	50%	\$400.00
Class C, per cu. ft. (94lb/cu.ft)	762.00	\$29.50	\$22,479.00	50%	\$11,239.50
PF132 LITEPOZ, per cu. ft. (79lb/cu.ft)	303.00	\$12.50	\$3,787.50	50%	\$1,893.75
PF20 Bentonite Extender, per lb (60lb/cu.ft)	4,606.00	\$0.48	\$2,210.88	50%	\$1,105.44
PF-044 Granulated Salt, per lb (70lb/cu.ft)	3,589.00	\$0.48	\$1,722.72	50%	\$861.36
PF001 Calcium Chloride, per lb (50lb/cu.ft)	768.00	\$1.20	\$921.60	50%	\$460.80
PF42 KOL-SEAL-LCA, per lb (50lb/cu.ft)	2,595.00	\$1.14	\$2,958.30	50%	\$1,479.15
PF13 Retarder, per lb	38.00	\$4.75	\$180.50	50%	\$90.25
PF46 Antifoam Agent, per lb	346.00	\$4.50	\$1,557.00	50%	\$778.50
PF29 Cellophane Flakes, per lb	108.00	\$5.25	\$567.00	50%	\$283.50

Job Total: \$27,810.50

Service Instructions

865 Sks 35/65 Poz/C + 5% (BWOW) PF44 + 6% PF20 + 1% PF1 +
125 pps PF29 + 4 pps PF46 + 3 pps PF42
12.9# Yield 1.92 H2O 9.951

PF903: 61.1#
PF132: 27.65#
PF20: 5.325#
PF1: 888#
PF29: 125#
PF46: 4#
PF42: 3#
PF44: 4.15#

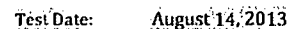
200 Sks C+ 2% PF13
14.8# Yield 1.33 H2O 6.32

PF903: 94#
PF13: 188#

9 5/8 Head ETC
200# Sugar

Directions

US285 South to Carlsbad to the New Truck route on the left handside of the road
to US62/180 turn Right to US Refinery Rd. Turn Left onto US Refinery Rd and
continue towards CR31. Just before CR31 rig is on the Left



Weight:	40
Grade:	Grade
Thread:	Thread
Client Name:	Client Name
Voice:	Voice
Fax:	Fax
Email:	cdeleon@par-five.com
Title:	Title
Company:	Par-Five Energy Services
Sales By:	Sales

This is a Test for Directions:

This is a Note Test

PAR FIVE

ENERGY SERVICES LLC

Cement volumes were calculated using 50% excess over open hole volume and in cased hole volume.

Lead: 865 sks

35/65 Poz/C+5%PF44(BWOW)+6%PF20+3 pps PF42+0.4 pps PF46+0.125 pps PF29+1% PF1

Density 12.9	Yield 1.92	H2O 9.951
--------------	------------	-----------

Tail: 200sks C+0.2%PF13

Density 14.8	Yield 1.33	H2O 6.32
--------------	------------	----------

PAR FIVE

ENERGY SERVICES LLC

Service Order for Job: J00003240

Call Out Sheet Number: CALL00003462

Date of Job: 15-Aug-2013

District: Artesia

Time Well Ready: 10:26 am

Ready to Pump: 10:26 am

Customer: RKL Exploration & Production LI

DV Tool: 5500

Well TVD: 8406

Job Stage Number: 2

Treat Down: Casing

Head & Manifold 7" Deep Intermediate

Hole Size: 8 3/4

Well MD: 8740

Well TVD: 8406

BHST:

BHP:

BHCT:

New Well: New Well

Well #: Pinnacle 36 #32H

County: Eddy

State: New Mexico

Legal Location: 99 999 999

Field:

Description:

API#:

Salesman: Chris DeLeon

Contact Person/Companyman: Mr. Joel Acosta

Contact Number: 1-405-441-4393

Email:

Rig Contractor: Silver Oak

Rig Number: 9

Rig Phone:

Max Allowed Pressure:

Max Allowed Ann Pressure:

Casing/Tubing

String Type	Depth	Size	Weight	Grade	Thread
Casing	8740	7	26	P110	8rd

Job Type

Casing

Service Supervisor: Granados Anthony

Sks/Gals.

Cement Type/Additives

Tractor

Trailer

Equipment Operators

695.00 Sack	PF49 TXI Lightweight (75lb/cu ft)
570.00 Pound	PF-044 Granulated Salt, per lb (70lb/cu ft)
209.00 Pound	PF13 Retarder, per lb
278.00 Pound	PF46 Antifoam Agent, per lb
52.00 Pound	PF153 Antisettling Agent, per lb
261.00 Pound	PF606 Gel Suppressing Agent, per lb

PAR FIVE

ENERGY SERVICES LLC

Cement Recipe

1st Stage

445 Sks PVL + 1.3% (BWOW) PF44 + 5% PF174 + .5% PF606 + .1% PF153 + .4% PF13 + 4 pps PF46
13.0# Yield 1.48 H2O 7.571

PF49: 75#
PF174: 3.75#
PF606: .375#
PF153: .075#
PF13: .3#
PF46: .4#
PF44: .821#

2nd Stage

250 Sks PVL + 1.3% (BWOW) PF44 + 5% PF174 + .5% PF606 + .1% PF153 + .4% PF13 + 4 pps PF46
13.0# Yield 1.48 H2O 7.571

PF49: 75#
PF174: 3.75#
PF606: .375#
PF153: .075#
PF13: .3#
PF46: .4#
PF44: .821#

7" Head ETC
300# Sugar

Description	Quantity	Unit Price	Extended Price	Disc. %	Net Amount
DOT Conformance Charge, per unit*	3.00	\$325.00	\$975.00	50%	\$487.50
Fuel Used On Location*	3.00	\$425.00	\$1,275.00	50%	\$637.50
Mileage Charge, all other equipment, per mile*	180.00	\$6.00	\$1,080.00	50%	\$540.00
Cars, pickups, monitoring vehicles round trip*	90.00	\$4.00	\$360.00	50%	\$180.00
PF-999 - Sugar*	300.00	\$4.00	\$1,200.00	50%	\$600.00
Casing - 8001' - 9000'	1.00	\$7,400.00	\$7,400.00	50%	\$3,700.00
Cement Field Bin Set Up Charge*	1.00	\$750.00	\$750.00	50%	\$375.00
Bulk Unit, per hr. on location*	4.00	\$150.00	\$600.00	50%	\$300.00
Add stages - continuous multi stage cementing device*	1.00	\$3,000.00	\$3,000.00	50%	\$1,500.00
Low Pressure Cement Plug Container*	1.00	\$800.00	\$800.00	50%	\$400.00
Circulation Equipment before job, per job*	1.00	\$1,200.00	\$1,200.00	50%	\$600.00
Delivery Charge - Ton mileage, per ton mile*	1,269.00	\$1.75	\$2,220.75	50%	\$1,110.37
Service Charges - Land jobs*	695.00	\$2.00	\$1,390.00	50%	\$695.00
Laboratory Testing QA/QC Per Job*	1.00	\$500.00	\$500.00	50%	\$250.00
Data Acquisition Recorder*	1.00	\$800.00	\$800.00	50%	\$400.00
PF174 Expanding Cement LT, per lb	2,607.00	\$4.05	\$10,558.35	50%	\$5,279.17
PF49 TXI Lightweight (75lb/cu ft)	695.00	\$37.50	\$26,062.50	50%	\$13,031.25
PF044 Granulated Salt, per lb (70lb/cu ft)	570.00	\$0.48	\$273.60	50%	\$136.80
PF13 Retarder, per lb	209.00	\$4.75	\$992.75	50%	\$496.37
PF46 Antifoam Agent, per lb	278.00	\$4.50	\$1,251.00	50%	\$625.50
PF153 Antisettling Agent, per lb	52.00	\$21.00	\$1,092.00	50%	\$546.00
PF606 Gel Suppressing Agent, per lb	261.00	\$24.25	\$6,329.25	50%	\$3,164.62

Job Total:

\$35,055.10



ENERGY SERVICES LLC

Service Instructions

1st Stage

445 Sks PVL + 1.3% (BWOW) PF44 + 5% PF174 + 5% PF606 +
.1% PF153 + .4% PF13 + .4 pps PF46
13.0# Yield 1.48 H2O 7.571

PF49: 75#
PF174: 3.75#
PF606: .375#
PF153: .075#
PF13: 3#
PF46: 4#
PF44: 821#

2nd Stage

250 Sks PVL + 1.3% (BWOW) PF44 + 5% PF174 + 5% PF606 +
.1% PF153 + .4% PF13 + .4 pps PF46
13.0# Yield 1.48 H2O 7.571

PF49: 75#
PF174: 3.75#
PF606: .375#
PF153: .075#
PF13: 3#
PF46: 4#
PF44: 821#

7" Head ETC
300# Sugar

Directions

US285 South to Carlsbad to the New Truck route on the left handside of the road
to US62/180 turn Right to US Refinery Rd. Turn Left onto US Refinery Rd and
continue towards CR31. Just before CR3 rig is on the Left



Par-Five Energy Services

11279 Lovington Hwy

Artesia, NM 88210

Tel. (575) 748-1288 Fax (575) 748-6898

ART

Test Date: August 14, 2013

Client: RKI	Deviation:	Weight: 26
Well Name: Pinnacle 36 #32H	Hole Size: 8.75	Grade: Grade
Field:	Treat Down: 8740	Thread:
County:	Stage Tool Down: 5500	Client Name:
State: NM	Max Allowed Pressure:	Client Name:
Location/Rig: Silver Oak #9	Yard Time:	Voice:
Job Type: 7 Intermediate 2 Stage	Leave Time:	Fax:
String Type:	Location Time:	Email: cdeleon@par-five.com
Stage Number: 1st Stage	Ready To Pump:	Title:
String: Intermediate	Depth: 8740	Company: Par-Five Energy Services
Blend Type: Pilot	Size: 7	Sales By: Sales

1st Stage								Tail							
Density	#N/A	Yield	#N/A	MW	#N/A	TF	#N/A	Density	13.00	Yield	1.48	MW	7.571	TF	11.066
MD:	8740 ft	TVD:	8406 ft	BHST:	163°F	BHCT:	111°F	MD:	8740 ft	TVD:	8406 ft	BHST:	163	BHST:	111°F
Number of Sacks: 0								Number of Sacks: 445							
0.00 PPG								13.00 PPG, PVL 1.3% PF044 BWOW 5.00% PF174 0.50% PF606A 0.10% PF153 0.40% PF013 0.40 lb/sk PF046							
Material	Composition		lbs		gals			Material	Composition		lbs		gals		
Cmt	#N/A		#N/A					Cmt	75.00		33,375.00				
Poz	#N/A		#N/A					Poz	0		0.00				
	0.000		0.000		0.000			PF174	3.750		1668.750		0.000		
	0.000		0.000		0.000			PF606A	0.375		166.875		0.000		
	0.000		0.000		0.000			PF153	0.075		33.375		0.000		
	0.000		0.000		0.000			PF013	0.300		133.500		0.000		
	0.000		0.000		0.000			PF046	0.400		178.000		0.000		
	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
0	0.000		0.000		0.000			0	0.000		0.000		0.000		
KCL	#N/A		#N/A					KCL	0.000		0.000				
PF044	#N/A		#N/A					PF044	0.821		365.271				
Totals	Dry		#N/A		Liq		0	Totals	Dry		35,920.771		Liq		0

This is a Test for Directions

This is a Note Test



Par-Five Energy Services

11279 Lovington Hwy

Artesia, NM 88210

Tel: (575) 748-1288 Fax (575) 748-6898

ART

Test Date: August 15, 2013

Client: RK1
Well Name: Pinnacle 36 #32H
Field:
County:
State: NM
Location/Rig: Silver Oak #9
Job Type: 7 Intermediate 2 Stage
String Type:
Stage Number: 2nd Stage
String: Intermediate
Blend Type: Pilot

Deviation:
Hole Size: 8.75
Treat Down: 8740
Stage Tool Down: 5500
Max Allowed Pressure:
Yard Time:
Leave Time:
Location Time:
Ready To Pump:
Depth: 8740
Size: 7

Weight: 26
Grade: Grade
Thread:
Client Name:
Voice:
Fax:
Email: cdeleon@par-five.com
Title:
Company: Par-Five Energy Services
Sales By: Sales

2nd Stage								Tail							
Density	#N/A	Yield	#N/A	MW	#N/A	TF	#N/A	Density	13.00	Yield	1.48	MW	7.571	TF	11.066
MD:	8740 ft	TVD:	8406 ft	BHST:	163°F	BHCT:	111°F	MD:	8740 ft	TVD:	8406 ft	BHST:	163	BHCT:	111°F
Number of Sacks:		0						Number of Sacks:		250					
0.00 PPG,								13.00 PPG; PVL 1.3% PF044 BWOW 5.00% PF174 0.50% PF606A 0.10% PF153 0.40% PF013 0.40 lb/sk PF046.							
Material	Composition	lbs						Material	Composition	lbs					
Cmt	#N/A	#N/A						Cmt	75.00	18,750.00					
Poz	#N/A	#N/A						Poz	0	0.00					
	0.000	0.000						PF174	3.750	937.500					
	0.000	0.000						PF606A	0.375	93.750					
	0.000	0.000						PF153	0.075	18.750					
	0.000	0.000						PF013	0.300	75.000					
	0.000	0.000						PF046	0.400	100.000					
	0.000	0.000						0	0.000	0.000					
	0.000	0.000						0	0.000	0.000					
	0.000	0.000						0	0.000	0.000					
	0.000	0.000						0	0.000	0.000					
	0.000	0.000						0	0.000	0.000					
	0.000	0.000						0	0.000	0.000					
	0.000	0.000						0	0.000	0.000					
KCL	#N/A	#N/A						KCL	0.000	0.000					
PF044	#N/A	#N/A						PF044	0.821	205.209					
Totals		Dry	#N/A	Liq	0			Totals		Dry	20,180.209	Liq	0		

Directions

This is a Test for Directions

Notes

This is a Note Test

PAR FIVE

ENERGY SERVICES LLC

Cement volumes were calculated using 35% excess over open hole volume and in cased hole volume.

First Stage:

445 sks PVL+1.3%PF44(BWOW)+5%PF174+0.5%PF606+0.1%PF153+0.4pps PF46+0.4%PF13

Density 13.0	Yield 1.48	H2O 7.57
--------------	------------	----------

Second Stage:

250 sks PVL+1.3%PF44(BWOW)+5%PF174+0.5%PF606+0.1%PF153+0.4pps PF46+0.4%PF13

Density 13.0	Yield 1.48	H2O 7.57
--------------	------------	----------