Form 3160-5 (June 2015)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

OCD-ARTESIA REC'D: 8/17/2020

FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018

# 5. Lease Serial No. NMNM121949

DO not use thi abandoned we	6. If Indian, Allottee or Tribe Name				
SUBMIT IN TRIPLICATE - Other Instructions on page 2				7. If Unit or CA/Agreement, Name and/or No.	
Type of Well	8. Well Name and No.				
☑ Oil Well ☐ Gas Well ☐ Oth	HI BOB FEDERAL	3H			
Name of Operator     MARSHALL & WINSTON INC	Contact: SHERR ORPORÆTÆail: sroberts@mar-win.d	Y L ROBERTS		9. API Well No. 30-005-64347-00-X1	
3a. Address 6 DESTA DRIVE, SUITE 3100 MIDLAND, TX 79705	) Ph: 4:	one No. (include area code) 32-684-6373 2-682-1316		10. Field and Pool or Exploratory Area ROUND TANK-SAN ANDRES	
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description)			11. County or Parish, State	
Sec 8 T15S R29E SESE 400F 33.024567 N Lat, 104.044601				CHAVES COUNTY, NM	
12. CHECK THE AF	PPROPRIATE BOX(ES) TO INI	DICATE NATURE O	F NOTICE,	REPORT, OR OTHI	ER DATA
TYPE OF SUBMISSION		TYPE OF	ACTION		
Notice of Intent	☐ Acidize ☐	<b>D</b> eepen	☐ Producti	on (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	Hydraulic Fracturing	□ Reclama	ıtion	■ Well Integrity
☐ Subsequent Report	☐ Casing Repair	New Construction	□ Recomp	lete	Other
☐ Final Abandonment Notice	☐ Change Plans	Plug and Abandon	□ Temporarily Abandon		Change to Original A PD
	☐ Convert to Injection ☐	] Plug Back	■ Water D	risposal	
determined that the site is ready for fi Marshall & Winston, Inc. respe estimated 3200' and or 55 deg program is included.	ectfully requests to adjust the 7" 2 prees for production purposes. An OCD Accepted for Reco	n updated wellbore dia	igram and c	ement	
14. I hereby certify that the foregoing is	Electronic Submission #525611 v	erified by the BLM Well	I Information	System	
Comi	For MARSHALL & WINSTOR mitted to AFMSS for processing by	N INCPRPORATE, sent	to the Rosw	rell	
Name (Printed/Typed) TODD PA		<b>I</b>	TIONS MAN	` '	
Signature (Electronic S	Submission)	Date 08/14/20	020		
	THIS SPACE FOR FED	ERAL OR STATE	OFFICE US	SE	
Approved By JENNIEER SANCHI	d. Approval of this notice does not warra		UM ENGINE	ER	Date 08/14/2020
certify that the applicant holds legal or equivalent would entitle the applicant to condu	ct operations thereon.	Office Roswell	lue v		
Fitle 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s	U.S.C. Section 1212, make it a crime for statements or representations as to any ma	any person knowingly and atter within its jurisdiction.	willfully to ma	ke to any department or ag	gency of the United

# Revisions to Operator-Submitted EC Data for Sundry Notice #525611

**Operator Submitted** 

**BLM Revised (AFMSS)** 

Sundry Type:

APDCH NOI

NMNM121949

APDCH NOI

NMNM121949

Agreement:

Operator:

Lease:

MARSHALL & WINSTON, INC. P. O. BOX 50880 MIDLAND, TX 79710-0880 Ph: 432-684-6373

SHERRY L ROBERTS Admin Contact:

**OPERATIONS SCRETARY** E-Mail: sroberts@mar-win.com

Ph: 432-684-6373 Fx: 432-682-1316

**Tech Contact:** 

**TODD PASSMORE** 

**OPERATIONS MANAGER** 

E-Mail: tpassmore@mar-win.com Cell: 432-894-0165

Ph: 432-684-6373 Fx: 432-682-1316

Location:

State:

NM

CHAVES County:

Field/Pool:

ROUND TANK; SAN ANDRES

Well/Facility:

HI BOB FEDERAL 3H Sec 8 T15S R29E Mer NMP SESE 517FSL 805FEL 33.022784 N Lat, 104.051061 W Lon

MARSHALL & WINSTON INCORPORATE 6 DESTA DRIVE, SUITE 3100 MIDLAND, TX 79705 Ph: 4326846373

SHERRY L ROBERTS OPERATIONS SCRETARY

E-Mail: sroberts@mar-win.com

Ph: 432-684-6373 Fx: 432-682-1316

TODD PASSMORE OPERATIONS MANAGER

GFRATIONS MANAGER E-Mail: tpassmore@mar-win.com Cell: 432-894-0165 Ph: 432-684-6373 Fx: 432-682-1316

NM CHAVES

**ROUND TANK-SAN ANDRES** 

HI BOB FEDERAL 3H Sec 8 T15S R29E SESE 400FSL 2040FWL 33.024567 N Lat, 104.044601 W Lon

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | Marshall & Winston Inc.

**LEASE NO.: NMNM-121949** 

WELL NAME & NO.: HI BOB FEDERAL 3H SURFACE HOLE FOOTAGE: 0400' FSL & 2040' FWL

BOTTOM HOLE FOOTAGE | 0020' FSL & 2480' FWL Sec. 17, T. 15 S., R 29 E.

LOCATION: | Section 08, T. 15 S., R 29 E., NMPM

COUNTY: | Chaves County, New Mexico

# A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

a. Spudding well (minimum of 24 hours)

b. Setting and/or Cementing of all casing strings (minimum of 4 hours)

c. BOPE tests (minimum of 4 hours)

# Chaves and Roosevelt Counties

Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201. During office hours call (575) 627-0272.

- 1. Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

#### B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

## Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possibility of lost circulation in the Queen and San Andres formations.

- 1. The 13-3/8 inch surface casing shall be set at approximately 225 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered, set casing at least 25 feet above the salt.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

- 2. The minimum required fill of cement behind the 7 X5-1/2 inch production casing is:
  - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- 4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

## C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi. BOP Spec sheet shall be on location for PET review if requested.
  - a. For surface casing only: If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.

- 3. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - b. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer.
  - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
  - d. The results of the test shall be reported to the appropriate BLM office.
  - e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
  - f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

### D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

# E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JAM 08142020

	Thus are a		AFE No. API # 30-005-64347 Permit No. Project No.
7" 26# P110 from end of 3200' to surface XO 3200' - 3206' 7" set at 55'	Drill out of 13.375" w/ 8.75" Bit Kick off @ 2680' +/- Drill to 8.75" to TD	Soud with 17.5" bit. Surface CSG 225" - 13-3/8" 48# H40	Hi Bob Federal 3H Chaves County, NM
to surface 7" 3200' / 5.5" 5500' Land Curve at 3560' MD & 3215' TVD. 5-1/2" P-110 17# BTC Casing To 8700' +/-	Contendency INT String will be reamed out with 12.25" bit	48# H40	SHL: 20' FSL, 2480' FWL Sec 17, T15S, R29E  BHL: 20' FSL, 2480' FWL Sec 17, T15S, R29E



Company: Marshall and Winston Inc.

Well Name: Hi Bob Federal #3H

Field: Round Tank; San Andres

**County: Chaves** 

State: New Mexico

Date: 08-13-2020

Well Location: 17-15S-29E

API Number: 30-005-64347

Proposal Code: 1

Contact: Mr. Todd Passmore

Made By: Stephen Lowde

Service from District: Artesia, New Mexico

District Phone: 575-748-8610 Ext 2911

Objective: Cement casing strings 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 accepted, 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.



# **Executive Summary**

Enclosed are our recommendations for Par Five Energy intervention on the referenced well. The proposal includes well data, design data, materials and resources requirements and cost estimates. The purpose of our services is to perform a Casing Cement treatment.

Par Five Energy Services has established a safety policy to which Par Five personnel must adhere. A pre-job safety meeting will be held with customer representatives and other on location personnel to familiarize everyone with the existing hazards and safety procedures. It is essential to Par Five's ability to conduct a safe operation for there to be close cooperation between your representative and Par Five's representative on all safety matters.

The estimated total cost of services are as follows.

Surface: \$4,369.91

Production: \$34,453.87

All costs are estimates only. Actual costs will be determined by time, material, equipment used during treatment. Taxes are no included. All work will be subject to Par Five then-current General Terms and conditions or to the terms and conditions of a Master Service Agreement if one is in force between Par Five and customer. This quote is valid for a period of thirty (30) days from the date submitted.

Thank you for considering Par Five Energy Services.

Please do not hesitate to contact me with any questions or concerns.

Sincerely,

Stephen Lowde



Cement volumes were calculated using 50% excess in the open hole volume.

Spacer 1: 20 bbls Gelled Water (110 lbs PF424)

Spacer 2: 20 bbls Fresh Water

200 sks C+2%PF001(Calcium Chloride)

Density 14.8 Yield 1.34

H2O 6.295



Service Order for Job: J00014014

Call Out Sheet Number: CALL00012528

Date of Job: 13-Aug-2020

District: Artesia

Time Well Ready: 12:17 pm Ready to Pump: 12:17 pm

Customer: Marshall and Winston

DV Tool: No

Job Stage Number: 1

Treat Down: Casing

Head & Manifold 13.375" 8rd Surfacd

Hole Size: 17.5"

Well MD: 225'

**Well TVD: 225'** 

**BHST: 82°** BHP:

BHCT: 80°F

Max Allowed Pressure: 2000 psi

New Well: New Well

Well #: Hi Bob Federal #3H

County: Chaves

State: New Mexico

Legal Location: 17 15S 29E

Field: Round Tank; SanAndres

Description:

API#: 30-005-64347

Salesman: Stephen Lowde

Contact Person/Companyman: Todd Passmore

**Contact Number:** 

Email:

**Rig Contractor:** 

**Rig Number:** 

Rig Phone:

Max Allowed Ann Pressure:

Casing / Tubing	Ship to be beauty		de la Hopenia de		Parent of the Company of the		
String Type Casing	<b>Depth</b> 225'	Size 17.5"	Weight 48		Grade H40	Thread STC (8rd)	
Job Type	Casing		Service S	upervisor:	Ortega Diego		
Sks/Gals.	Cement Type/Additives		Tractor Trailer		Equipment Operators		
200.00 Sack	Class C, per cu. ft. (	(94lb/cu ft)		<del></del>		•	
376.00 Pound		oride, per lb (50lb/cu ft)					
110.00 Pound	PF424 Water Gellin	g Agent, per lb					
6.00 Pound	PF25 Lost Circulation						

### **Cement Recipe**

225' 13.375 48 ppf H40 8rd

Test Lines: 2000 psi

Spacer 1: 20bbls Gelled Water (110 lbs PF424)

Spacer 2: 20bbls Fresh Water

Tail: 200 sks C + 2% PF001 (Calcium Chloride)

Density: 14.80 ppg Yield: 1.34 CuFt/Sk Mix Water: 6.3 gps

PF903 - 94 PF1 - 1.88

13.375" H/M,8rd&BTC QC/S,TP, 200 lbs sugar, 110 lbs PF424,Take 6 lbs of PF025 Fiber and put in the 1st 100sks cement

Bring back 2 gallons of mix water to tes tthe production job. Label the jugs.

<b>Description</b>	Quantity	Net Amount
Field Support Work*	1.00	\$0.00
Mileage Charge, all other equipment, per mile*	90.00	\$174.63
Cars, pickups, monitoring vehicles round trip*	90.00	\$116.42
PF-999 - Sugar*	200.00	\$258.72
Casing - 0000 - 2000'*	1.00	\$0.00
Top Plastic Plugs - 13.375*	1.00	\$422.03



<b>Description</b>	Quantity	Net Amount
Low Pressure Cement Plug Container*	1.00	\$0.00
Circulation Equipment before job, per job*	1.00	\$0.00
Delivery Charge - Ton mileage, per ton mile* (45 Miles pne way charge)	450.00	\$378.00
Service Charges - Land jobs*	208.00	\$276.64
Class C, per cu. ft. (94lb/cu ft)	200.00	\$2,240.00
PF001 Calcium Chloride, per lb (50lb/cu ft)	376.00	\$165.81
PF25 Lost Circulation Fiber, per lb	6.00	\$35.28
PF424 Water Gelling Agent, per lb	110.00	\$302.37
	Job Total:	\$4,369.90

Servi	ce Ins	truct	ions
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225' 13.375 48 ppf H40 8rd

Test Lines: 2000 psi

Spacer 1: 20bbls Gelled Water (110 lbs PF424)

Spacer 2: 20bbls Fresh Water

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PF903 - 94 PF1 - 1.88

13.375" H/M,8rd&BTC QC/S,TP, 200 lbs sugar, 110 lbs PF424,Take 6 lbs of PF025 Fiber and put in the 1st 100sks cement

Bring back 2 gallons of mix water to tes tithe production job. Label the

jugs.

Directions



Cement volumes were calculated using 30% lead excess and 20% tail excess over open hole volume Top of tail at 2,680' and top of lead at surface.

## 20bbls Chemical Wash

### **20bbls Fresh Water**

Lead: 370sks 50:50:10 Plite:C:PF020 + 5% BWOW PF044 (Salt) + 0.6% PF079 (Chemical Extender) + 0.3% PF013 (Retarder) + 0.125 pps PF029 (Celloflake) + 3 pps PF042 (Kolseal) + 0.4 pps PF045 (Defoamer)

Density 11.5 Yield 2.63 H2O 14.980

Tail: 1400 sks 50:50:2 Plite:C:PF020 + 5% BWOW PF044 (Salt) + 0.5% PF606 (Fluid Loss) + 0.3% PF013 (Retarder) + 3 pps PF042 (Kolseal) + 0.4 pps PF045 (Defoamer)

Density 14.0 Yield 1.31 H2O 5.533



Service Order for Job: J00014016 Call Out Sheet Number: CALL00012530

Date of Job: 13-Aug-2020 New Well: New Well: New Well

District: Artesia Well #: Hi Bob Federal #3H

Time Well Ready: 12:23 pm County: Chaves
Ready to Pump: 12:23 pm State: New Mexico

Customer: Marshall and Winston Legal Location: 17 15S 29E

DV Tool: No Field: Round Tank;SanAndres

Job Stage Number: 1 Description:

Treat Down: Casing API#: 30-005-64347
Head & Manifold 7" Production Casing Salesman: Stephen Lowde

Hole Size: 8.75" Contact Person/Companyman: Todd Passmore

Well MD: 8700' Contact Number:
Well TVD: 3215' Email:

ell TVD: 3215' Email:

BHST: 106° Rig Contractor:

BHP: Rig Number:

BHCT: 106°F Rig Phone:

Max Allowed Pressure: 5000 Max Allowed Ann Pressure:

Casing / Tubing		ing a second and a second	National Control	-V-1-10	State of the state of the	agricultural de la companya de la c	
String Type Casing	<b>Depth</b> 8700'	<b>Size</b> 7"x5.5"	Weight 26/17		<b>Grade</b> P110	Thread BTC	
Job Type	Dasing		Service Sup	pervisor:	Ortega Diego		
Sks/Gals.	Ceme	nt Type/Additives	Tractor	Trailer	Equipment Operators		
581.00 Pound	PF606 Fluid Loss (	Control, per lb					
5.00 Gallon	PF803 Plexaid						

708.00 Pound PF45 Defoamer Antifoam Agent, per lb 885.00 Sack PF57 Perl-Lite Ore, per cu ft (72lb/cu ft) 184.00 Pound PF79 Chemical Extender, per lb (70lb/ft3) 5,395.00 Pound PF20 Bentonite Extender, per lb (60lb/cu ft) 5,535.00 Pound PF-044 Granulated Salt, per lb (70lb/cu ft) 9F42 KOL-SEAL LCA, per lb (50lb/cu ft) PF13 Retarder, per lb

Class C, per cu. ft. (94lb/cu ft)

PFSAPP SAPP

200.00 Pound

885.00 Sack

Ver 2.1.0 Page 1 of 3



### **Cement Recipe**

8700' - 3206' of 5.5" 17 ppf P110 BTC 2516' to Surface 7' 26 ppfg P110 BTC TVD +/- 3215'

Test Lines: 5000 psi

Spacer 1: 20bbls Chemical Wash (200 lbs SAPP and 5 gallons of Plexaid 803)

Spacer 2: 20bbls Fresh Water

Lead: 370sks 50:50:10 PLite:C:PF020 + 5% BWOW PF044 (Salt) + 0.6% PF079 (Chemical Extender) + 0.3%PF13 (Retarder) + 3 pps

PF042 (Kolseal) + 0.4 pps PF045 (Defoamer)

Density: 11.50 ppg Yield: 2.63 CuFt/Sk Mix Water: 14.980 gps

PF903 - 47 PF057 - 36 PF044 - 6.237 PF020 - 8.3 PF079 - 0.498 PF013 - 0.249 PF042 - 3

PF045 - 0.4

Tail: 1400sks 50:50:2 PLite:C:PF020 + 5% BWOW PF044 (Salt) + 0.5% PF606 (Fluid Loss) + 0.3% PF013 (Retarder) + 3 pps PF042

(Kolseal) + 0.4 pps PF045 (Defoamer)

Density: 14.00 ppg Yield: 1.31 CuFt/Sk Mix Water: 5.533 gps

PF903 - 47 PF057 - 36 PF044 - 2.303 PF020 - 1.66 PF606 - 0.415 PF013 - 0.249 PF042 - 3 PF045 - 0.4

7" H/M, 8rd&BTC QC/S, 5.5" 8rd&BTC QC/S, 600 lbs Sugar for wet shoe, 200 lbs SAPP,5 gallons Plexaid 803

<b>Description</b>	Quantity	Net Amount
Field Support Work*	1.00	\$0.00
Mileage Charge, all other equipment, per mile* (Mileage on 2 pumps and 2 field bins)	360.00	\$698.54
Cars, pickups, monitoring vehicles round trip*	90.00	\$116.42
PF-999 - Sugar*	600.00	\$776.16
Casing - 8001' - 12000'*	1.00	\$0.00
Cement Field Bin Set Up Charge*	2.00	\$485.10
Cement Field Bin Set Up Charge*	2.00	\$0.00
Standby Cement Pumper, per 4 hrs or fraction of* (Charge in blocks of 4 hours each)	1.00	\$970.20
Low Pressure Cement Plug Container*	1.00	\$0.00
Circulation Equipment before job, per job*	1.00	\$0.00
Delivery Charge - Ton mileage, per ton mile* (45 Miles one way charge)	3,735.00	\$3,137.40
Service Charges - Land jobs*	2,049.00	\$2,725.17
Class C, per cu. ft. (94lb/cu ft)	885.00	\$9,912.00
PF57 Perl-Lite Ore, per cu ft (72lb/cu ft)	885.00	\$5,005.56
PF20 Bentonite Extender, per lb (60lb/cu ft)	5,395.00	\$840.64
PF-044 Granulated Salt, per lb (70lb/cu ft)	5,535.00	\$862.46
PF42 KOL-SEAL LCA, per lb (50lb/cu ft)	5,310.00	\$1,951.42
PF79 Chemical Extender, per lb (70lb/ft3)	184.00	\$208.26
PF13 Retarder, per lb	441.00	\$678.09
PF45 Defoamer Antifoam Agent, per lb	708.00	\$936.68
PF606 Fluid Loss Control, per lb	581.00	\$4,557.31
PF803 Plexaid	5.00	\$74.97
PFSAPP SAPP	200.00	\$517.44



Job Total:

\$34,453.82

### **ENERGY SERVICES LLC**

Service Instructions Directions 8700' - 3206' of 5.5" 17 ppf P110 BTC 2516' to Surface 7' 26 ppfg P110 BTC TVD +/- 3215' Test Lines: 5000 psi Spacer 1: 20bbls Chemical Wash (200 lbs SAPP and 5 gallons of Plexaid 803) Spacer 2: 20bbls Fresh Water Lead: 370sks 50:50:10 PLite:C:PF020 + 5% BWOW PF044 (Salt) + 0.6% PF079 (Chemical Extender) + 0.3%PF13 (Retarder) + 3 pps PF042 (Kolseal) + 0.4 pps PF045 (Defoamer)

PF903 - 47 PF057 - 36 PF044 - 6.237 PF020 - 8.3 PF079 - 0.498 PF013 - 0.249 PF042 - 3 PF045 - 0.4

Density: 11.50 ppg Yield: 2.63 CuFVSk Mix Water: 14.980 gps

Tail: 1400sks 50:50:2 PLite:C:PF020 + 5% BWOW PF044 (Salt) + 0.5% PF606 (Fluid Loss) + 0.3% PF013 (Retarder) + 3 pps PF042

(Kolseal) + 0.4 pps PF045 (Defoamer)

Density: 14.00 ppg Yield: 1.31 CuFt/Sk Mix Water: 5.533 gps

PF903 - 47 PF057 - 36 PF044 - 2.303 PF020 - 1.66 PF606 - 0.415 PF013 - 0.249 PF042 - 3 PF045 - 0.4

7" H/M, 8rd&BTC QC/S, 5.5" 8rd&BTC QC/S, 600 lbs Sugar for wet shoe, 200 lbs SAPP,5 gallons Plexaid 803

Ver 2.1.0



# PRICING AND TECHNICAL DETAILS and DISCLAMER

A minimum notice of 24 hours prior to job must be given to ensure quoted price.

For depths from Oft to 7000ft, the overtime charges are applicable after the first 6 hours on location.

For depths of 7001ft and deeper, the overtime charge are applicable after the first 8 hours on location.

- Sales price discount quoted is:
  - 72% for primary cementing,
  - 30% for additional hours on primary jobs (Equipment & Personnel)
  - 30% for remedial cementing and additional hours on remedial jobs.
  - 0% for pump rentals and overtime on pump rentals
- Overtime charges on Cement Pump are \$1,097.25 per hour.
- Overtime charges on the Batch Mixer are \$577.70 per hour.
- Standby cement pump unit charge of \$3465.00 is required for every 4 hours block on location. Charges will be made to next full block.
- Charges on Centrifugal Booster Pump are \$500.00 per job.
- There is a derrick charge of \$866.25 if cement head is 10ft above rig floor.
- Bulk Cement Restocking, if applicable and returned to Par Five, will be charges at 25% of original price per CuFt.
- Any Laboratory support, for all remedial or other type of work that is not classified as primary and if it is not followed by the job,
   will be charged as per the Par Five price book in effect when the laboratory support is performed.
  - If extensive laboratory testing is needed, there will be an additional laboratory fee of \$2100.00.
- If oil-based mud used, it is recommended to use MUDPUSH as a spacer. If water-based mud used, chemical wash PF100 and water is recommended ahead of cement.
- If a crew is on location for more than 8 hours, then overtime charges will be applied to the personnel and bulk units on location.

  The charge for Service Supervisor is \$115.50/ hour, for Operators is \$92.40/ hour and for Bulk Units is \$173.25/ hour

This quote is valid, for a period of thirty days from the date submitted. These prices are estimated based on current price structure and will vary somewhat with the materials, equipment, and time actually required at the time of service. The discount shown will be applicable to the most current Par Five price book in effect at the time of service. Not included are the costs of fluid storage, oil, water, (or transportation thereof) except as listed. Par Five does not offer these services.

The cement slurry data presented are from systems previously tested in Par Five laboratories. Thickening time tests should be run when field mix water to be used on this job is available and final temperatures are known. Mud/Cement compatibility tests should be run when final mud systems are in use. Actual conditions could cause quantity variations of the materials recommended, and thereby affecting the price of the job. Such compatibility tests may assist you in better anticipating these variations.

In the interest of safety, a pre-job safety meeting will be held on location with your representative and other on-location personnel to familiarize everyone with existing hazards and safety procedures. During this meeting a designated wash-up area will be assigned for our cementing unit to dispose of our cement slurry and drilling mud displacement fluid. Thank you for considering Par Five Energy Services for this work. Please do not hesitate to call with any questions or concerns.