

ImPetro Operating

300 E. Sonterra Blvd. Suite 1220 San Antonio, Tx. 78258

Wild Hog BWX State #2H

Eddy County, New Mexico

Cement 10 3/4" Plug

HOBBS OCD MAR 1 6 2018

RECEIVED

Prepared for: ImPetro Operating

Prepared by: Triston Hudgins
Technical Advisor
Universal Pressure Pumping Inc.
(432) 978-3642

Service Point: Midland, Texas Contact: Dylan Perrie Cement Operations Manager Cell: (325) 977-1987 Office: (432) 699-3271

On Call Cement Service Coordinator: (432) 556-0294



Customer Name		Customer N	0.		Job No. 111500670		Job Start Date		
imPetro Operation Address		Credit No.	it No. AFE or P.O. No.			(Job End Date		
300 E. Burssma B	Ino Subv 1220								
City, State, Zip		Job Type			# of Stages	Water Volume			
Gen Antonio Ta		Well Type			Formation(s)	70	Water Mass (lbs)		
District	Crew Name	wen type			or ormation(s)		Trace mass (ms)		
MeS Name and I Wed Hing SWK S	No.	Well API Nur	mber	County		State			
Wild Hing BWX 0	Toda #2H	A Committee	de la constante		Eddy		New Mexic	CONTRACTOR OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.	
Product						Item		Net Amount	
Code		Measure	150	Price Unit \$36.50	Amount \$5,475.00	Discount 55.00%	Tax	\$2,463.75	
879050	Premium Plus Cement, Area 1	Seck Lb	141			55.00%		\$115.48	
873010 873600	Catcium Chloride (Cement Additive) Sugar	Lb	300			55.00%		\$405.00	
873810	CDF-1L, Defoamer	Gel	1				-	\$39.38	
860050	Cernent Delivery Charge	TM	641	\$3.10		55.00%		\$894.20	
872000	Blending Charge	CUFT	201			55.00%		\$339.19	
860000	Unit Mileage Charge - Trucks and Vans (Except Bulk Units), Per Unit Mile	M	180			55.00%		\$888.50	
860010	Pickup Mileage Charge, Per Unit Mile	Mi	180			55.00%		\$417.15	
862311	Cement Pump Tubing, Area 1, 1,001'-2,000', 1st 4 Hrs	Es	1	\$3,550.00		55.00%		\$1,597.50	
863550	Swedge , 6 5/8" - 13 3/8" with Valve, Each	Job	1	\$385.00	\$385.00	55.00%		\$173.25	
							-		
				Gross	\$15,851.97	Tax / Net Total		\$7,133.39	
		Comme	Rapresentative:						
	ŀ	Committee	THE PERSON NAMED IN		Donellost				
1	Ļ	Universal	Representative:		Vonelle L	me			
1			Ticket Date:		2-6-1	5			
			THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	The state of the s					



				Cement	10 3/4"	Plug					
Company:	ImPetro O	perating				Dat	e:				
Well:	Wild Hog I	BWX Stat	te #2H			Cou	unty:	Eddy			
Rig Name:	Trinidad 1	17				Stat	te:	New	Mexico		
	•			Well I	nformation	on	•				
Depth (TMD)	1900	ft	Tubing/Drill Pipe:							Hole at:	
Vert. Depth (-	ft	Tubing/Drill Pipe	_			Liner Size	:		Perfs at:	
Hole Size:	12 1/	/4 in	Casing Size:		10 3/4 ir	1	Top of Lin	er:		Retainer a	t:
DV Tool at:			Prev. Casing Dep	oth:	1850 ft		Liner Leng	gth:		Plug:	
Additional Inf	0:									Packer at:	
			Planned Pre-F	Flush, Spa	cer, and	Disp	lacement	Fluids	3		
Pre-flush		TBD	Type:								
Displacement	t	TBD	Type:								
				Plann	ed Ceme	nt					
P	lug	Premium	Plus + 1% CaCl2	2							
15	0 sk	Weight:	14.80 ppg	Yield: 1	.34 cuft/sk		Mixing	Water:	6.34 gal/sk		
		Slurry Volu	ıme: 35.67 Bbl	Slurry Mixing	g Water: 22.	64 BЫ					
	*										
				¥							
				T	otals						
1	Total Volume:	35.67 B	bl To	tal Mix Wate	er: 22.64	ВЫ	Tot	tal Displ	acement:		
				Planned	Pump Ra	ates					
N	Max Pressure:			Max Rat	THE RESERVE AND ADDRESS OF THE PARTY OF THE				Min Rate:		

Company Representative Signature

Service Supervisor Signature



Rementing Job Report

	THE RESIDENCE OF THE PROPERTY	STATE OF THE OWNER OF THE OWNER OF THE OWNER, THE OWNER	THE RESIDENCE OF THE PARTY OF T	The second secon	_		
Company:	ImPetro Ope	Service Super	visor:	Do	nald Gregory		
Well:	Wild Hog BWX S	itate #2H	Total Pumping	Time:		.5 hours	
Job Type:	Cement 10 3/	4" Plug	Total Time on	Location:		4 hours	
County:	Eddy		UPP Down Tin	ne:		0 hours	
State:	New Mex	ico	Third Party Do	wn Time:		0	
Salesman:	Mark Ack	lin	Total Down Ti	ne:		0	
Invoice #:	11150087	02	Number of Pe	sonel on Job:		4	
Job Date:			Hours on Job:			4	
	Well	Data			Capa	cities	
Depth (TMD):	1900 ft	Liner Size:		Casing:			
Vertical Depth (TV	/D): 1900 ft	Top of Liner:		Open Hol	e:		
Hole Size:	12 1/4 in	Hole at:		Open Hol	e Annulus:		
Casing Size:	10 3/4 in 45.5 #/ft	Perfs at:		Cased Ho	le Annulus:		
Previous Casing Siz	ze: 13 3/8 in 54.5 #/ft	Retainer at:		Tubing/D	rill Pipe:		
Prev. Casing Depth	h: 1850 ft	Packer at:		Liner:			
DV Tool Depth:		Tubing/Pipe:					
	Pre	Flush, Spacer, an	d Displacement F	luids			
Displacement	TBD Ty	pe:	nent				
Displacement Plug	Premium Plus + 1% C Sacks: 150 sk Weight: 14.80 ppg	Cen	1.34 cuft/sk :: 6.34 gal/sk	Slurry Volui Slurry Mix V			
	Premium Plus + 1% C	Cen aCl2 Yield: Mix Water	1.34 cuft/sk 7: 6.34 gal/sk				
	Premium Plus + 1% C	Cen aCl2 Yield:	1.34 cuft/sk 7: 6.34 gal/sk				
Plug	Premium Plus + 1% C	Cen aCl2 Yield: Mix Water Tot	1.34 cuft/sk r: 6.34 gal/sk als Total Displace	Slurry Mix V	Nater: 22.64		
Plug	Premium Plus + 1% C Sacks: 150 sk Weight: 14.80 ppg tal Cement Pumped: 35.	Cen aCl2 Yield: Mix Water Tot Pumpin	1.34 cuft/sk r: 6.34 gal/sk als Total Displace	Slurry Mix V	Nater: 22.64	ł Bbl	
Plug Total	Premium Plus + 1% C Sacks: 150 sk Weight: 14.80 ppg tal Cement Pumped: 35.	Tot Pumpin ximum Pressure:	als Total Displace B Data 1.34 cuft/sk 7.00 PSI	Slurry Mix V	Nater: 22.64	ł Bbl	
	Premium Plus + 1% C Sacks: 150 sk Weight: 14.80 ppg tal Cement Pumped: 35.	Cen aCl2 Yield: Mix Water Tot Pumpin	als Total Displace B Data 1.34 cuft/sk 7.00 PSI	ment Pumpe	Nater: 22.64	bblbbl	



Rementing Job Report

Personel and Equipment

		Personel	Tra	ctor Number		Trailer Number		
Service Sup	ervisor:	Donald Gregory						
Pump Ope	erator:	John Coonradt				1520	0479	
Opera	tor:	Alexander Delgadillo						
Opera	tor:	Jose Pizzaro				1322	2860	
Opera	tor:							
Opera	tor:							
Opera	tor:							
Opera	tor:							
Opera								
Opera								
Opera	tor:							
		Job Timeline						
Time				Pressure	Rate	Vol.	Weight	
(24:00)		Comments		(psi)	(bpm)	bbl	lb/gal	
1015a		Arrive on Location						
1030a		Pre-Job JSA						
1045a		Rig up						
1145a		JSA						
1205p		Start pumping cement		80	1.5	35.7	14.8	
1236p		Start displacement	80		4.0	25.7	8.3	
1242p		Finish displacement	80		4.0	25.7	8.3	
1242p		Shut down, let plug balance out			0.0	0.0	0.0	
1250p		Turned over to rig to TOOH 500' above plug	0 (0.0	0.0	0.0	
1325p		Broke circulation	80 4.		4.0	6.0	8.3	
1328p		Shut down		0	0.0	0.0	0.0	
1335p		pressure up to 1500psi held for 20 minutes dropped to 1100psi		1500	1.5	2.0	8.3	
1355p		pressure up to 1500psi		1500	0.5	0.5	8.3	
1409p	to 1700p	si and shut in and turned over to rig with instructions to hold pro	essure	1700	0.5	1.5	8.3	
1410p		Bled off pressure job complete		0	0.0	0.0	0.0	
1410p		Rig down and wash up		0	0.0	0.0	0.0	
							-	
		Customer Representative		UPP Represe	entative			





Personel and Equipment

		Personel	Trac	tor Number	r	Trailer	Number
Service Sup	ervisor:	Austin Grantham					
Pump Ope	erator:	Ryan Bland		165665		1520	0441
Operat	tor:	Michael Oshodi		149964		1323	3082
Operat	tor:	Jose Martinez					
Operat	tor:						
Operat	tor:						
Operat	tor:						
Operator:							
Operat	tor:						
Operat							
Operat							
		Job Timeline	***				
Time				Pressure	Rate	Vol.	Weight
(24:00)		Comments	Ì	(psi)	(bpm)	bbl	lb/gal
1200am		arrive on location		11-7	,,,,		
12:10am		spot equipment					
12:15am		rig up equipment					
1:30am		safety meeting with rig crew					
2:00am		injection test		2000	3.0	20.0	
2:30am		pump cement		1450	2.0	88.0	12.0
4:00		displace cement		1800	3.0	30.0	
4:45		stage cement		0	0.0	0.0	
5:14am		squeeze cement		1800	0.5	2.0	
5:20am		pull 5 stands drill pipe		0	0.0	0.0	
5:45am		pump 45 bbl fresh water to clerr drill pipe		360	7.0	45.0	
6:10am		squeeze cement		1200	0.5	1.5	
6:15am		stage cement		630	0.0	0.0	
6:35am		squeeze cement		1060	0.5	1.0	
6:41am		shut in well		1060	0.0	0.0	
0.42011		Side in Well		1000	0.0	0.0	
				1			
			factor 1	4			
-	Cus	tomer Representative	and the	UPP Represe	entative		



Cementing Job Report

Company:		In	nPetro Opera	ting		Service Supervisor	r:	Austin Grantham		
Well:		Wild	Hog BWX Sta	te #2H		Total Pumping Tin	ne:		5	
Job Type:		5	squeeze Ceme	ent		Total Time on Loc	ation:		6	
County:			Eddy			UPP Down Time:			0	
State:			New Mexico)		Third Party Down	Time:	0		
Salesman:			Mark Acklin			Total Down Time:			0	
Invoice #:			1115008697			Number of Person	el on Job:		4	
Job Date:						Hours on Job:			6	
			Well Da	ta				Capa	cities	
Depth (TMD)	:	1900 ft		Liner Size:			Casing:			
Vertical Dept						Open Ho	e:			
Hole Size:	17 1/2 in Hole at:			Hole at:			Open Hol	e Annulus:		
Casing Size:		10 3/4 in	45.5 #/ft	Perfs at:			Cased Ho	le Annulus:		
Previous Casi	ng Size:	13 3/8 in	54.5 #/ft	Retainer at:			Tubing/D	rill Pipe:		
Prev. Casing	Depth:			Packer at:			Liner:			
DV Tool Dept	h:			Tubing/Pipe:						
			Pre-F	ush, Spacer,	, and Di	splacement Flui	ds			
Squeez	e Slurry	Premiur	n Plus 50/50 Pc		Cement 10% Gel +	3# Kol-Seal + 0.1%	CAS-1			
Jqueez	Columy	Sacks:	200 sk	Yield		2.47 cuft/sk	Slurry Volu	ime: 88.0	O Bbl	
		Weight:	11.80 ppg	Mix V	Water:	14.00 gal/sk	Slurry Mix		5 Bbl	
					Totals					
	Total Co	ement Pum	ped: 88	bbl		Total Displaceme	ent Pump	ed: 30	bbl	
Pumping Data										
Cement Circu	ulated: Maximum Pressure:			:	2000 PSI	Maxi	mum Rate:	3.00 BPM		
Minimum STP	:	2000	Oper	ator's Max Pre	essure:	2000 PSI	Mini	mum Rate:	.50 BPM	
ISDP:		1060	Aver	age Pressure:		1500 PSI Average Rate: 2.00 BPM				
	Customer Representative UPP Representative									



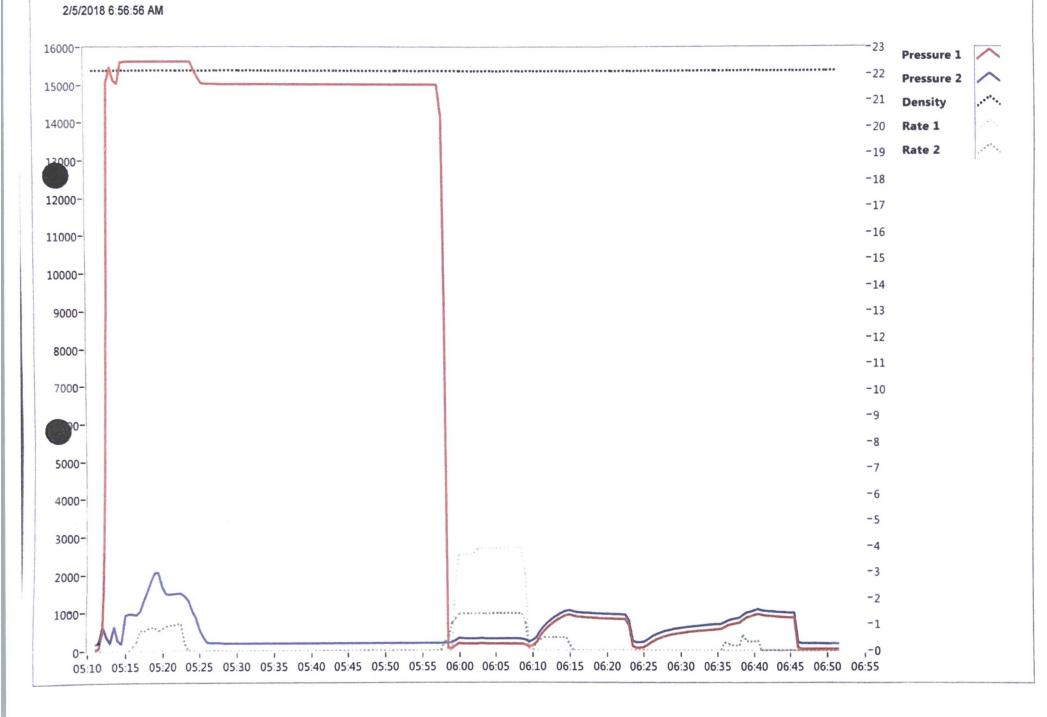
				Sque	eze Ceme	nt					
Company:							e:				
Well:	Wild Hog	BWX Sta	ate #2H			Cou	inty:	Eddy			
Rig Name:	Trinidad	117				Stat	e:	New	Mexico		
	Well Inf					n	•				
Depth (TMD)	190	00 ft	Tubing/Drill Pipe	:						Hole at:	
Vert. Depth (TVD): 1900 ft Tubing/Drill Pipe Length: Liner Size							:		Perfs at:		
Hole Size:	17	1/2 in	Casing Size:		10 3/4 in		Top of Line	er:		Retainer at:	
DV Tool at:			Prev. Casing De	pth:			Liner Leng	th:		Plug:	
Additional Inf	0:									Packer at:	
			Planned Pre-	Flush, Spa	acer, and [Displ	acement	Fluids	3		
						-					
				Planr	ned Cemer	nt					
Squeez	e Slurry	Premiur	n Plus 50/50 Poz	+ 5% Salt +	10% Gel + 3	# Kol	-Seal + 0.1	% CAS	-1		
20	0 sk	Weight:	11.80 ppg	Yield:	2.47 cuft/sk		Mixing	Water:	14.00 gal/s	sk	
		Slurry Vo	lume: 88.00 Bbl	Slurry Mixir	ng Water: 66.6	6 Bbl					
					Totals						
	Total Volume	e: 88.00	ВЫ Т	otal Mix Wat			Tot	tal Disp	lacement:		
				the state of the s	Pump Ra	tes					
	Max Pressure):		Max Ra	ite:				Min Rate:		
	at C	1			80.000 may						
	S	ervice Super	visor Signature	-			Compan	y Repre	sentative Sig	gnature	



Customer Name		Customer No).		Job No.		Job Start Date	
tmPetro Operation	o`				111500869	7		February 5, 2018
Address		Credit No.			AFE or P.O. No.		Job End Date	
300 E. Sonferra I	Styd Suite 1220						February 5, 2018	
City, State, Zip	Job Type # of Stages Water Volume							
Sun Antonio, Tx		W					Water Mass (lbs)	
District	Crew Name	Well Type			Formation(s)		Anates wass (ins)	
Midland Well Name and	Na	Well API Nur	nhar	County		State		
Well Name and		30025		County	Eddy	J. J	New Mexico	y k r
Product	Description	Unit of	Quantity	List	Gross	Item		Net Amount
Code	Description	Measure		Price/Unit	Amount	Discount	Tax	
870850	S0/50 Poz with Premium Plus, Area 1	Sack	200		The second secon	The Contract of the Contract o	A STATE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	\$1,792.00
873020	Salt. 100 mesh sacked		1167	THE OWNER OF TAXABLE PARTY.	\$1,061.97	68.00%		\$339.83
873100	Bertonite	Lb		\$0.91	\$1,001.97	68.00%		\$349.44
CONTRACTOR OF THE PERSON NAMED IN		Lb	1680	THE RESERVE AND PERSONS ASSESSED.	AND RESIDENCE OF THE PARTY OF T	68.00%		\$26.93
873110	CAS-1, Suspension Agent, Sodium Metasilicate	Lb	17	\$4.95		68.00%		\$245.76
873510	Kol-Seal	Lb	600			68.00%		\$288 00
873600	Sugar	Lb	300		THE RESERVE THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.	68.00%		\$28.00
873810	CDF-1L, Defoamer	Gal	1	\$87.50	The state of the s			\$594.00
872000	Blending Charge	CUFT	495		THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I	68.00%		\$994.70
860050	Cernent Delivery Charge	TM	912	NAME AND ADDRESS OF THE OWNER, WHEN PERSONS NAMED IN	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.	68.00%		\$489.60
860000	Unit Mileage Charge - Trucks and Vans (Except Bulk Units), Per Unit Mile	Mi	180		The state of the s	68.00%		NAME AND ADDRESS OF THE OWNER, WHEN PERSONS NAMED IN
880010	Pickup Mileage Charge, Per Unit Mile	Mi	180			68.00%		\$296.64
862311	Cement Pump Tubing, Area 1, 1,001'-2,000', 1st 4 Hrs	Ea	1	\$3,550.00	\$3,550.00			\$1,136.00
				Gross	\$20,284.07	Tax / Net Total		\$6,490.90
				1	1			
		Custom	or Representative:	-				
		Univers	al Representative:	Huth	Mith			
			Ticket Date:	2.5	2018			
	CUSTOMER AUTHORIZED AGENT SIGNATURE				Charles Charle			

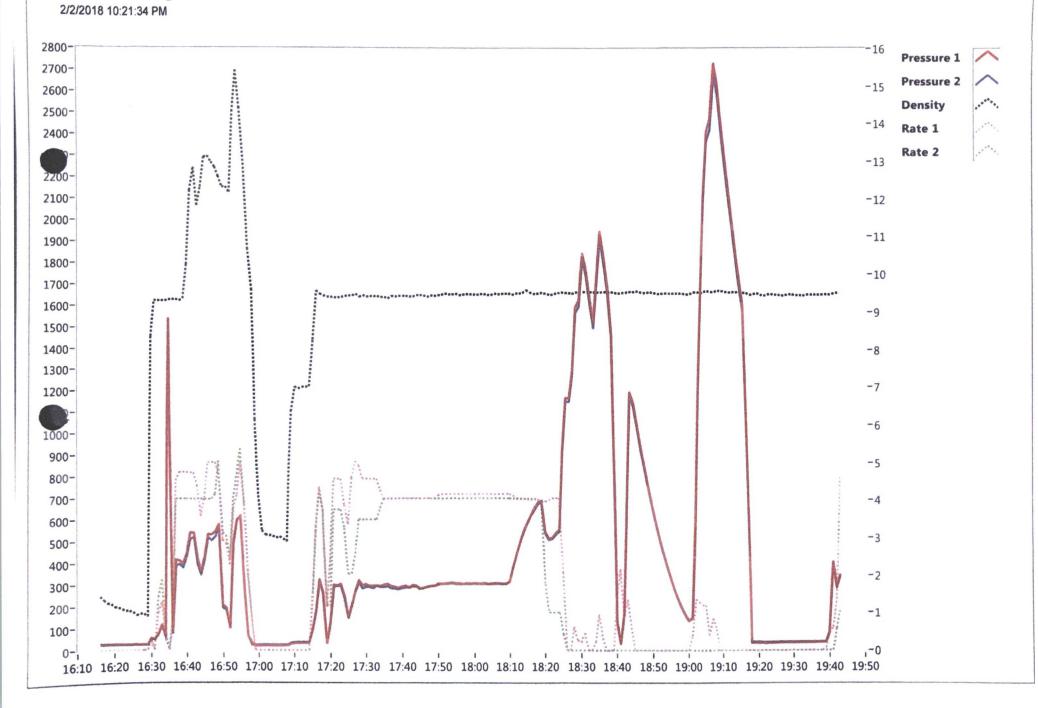
Page 1 of 1

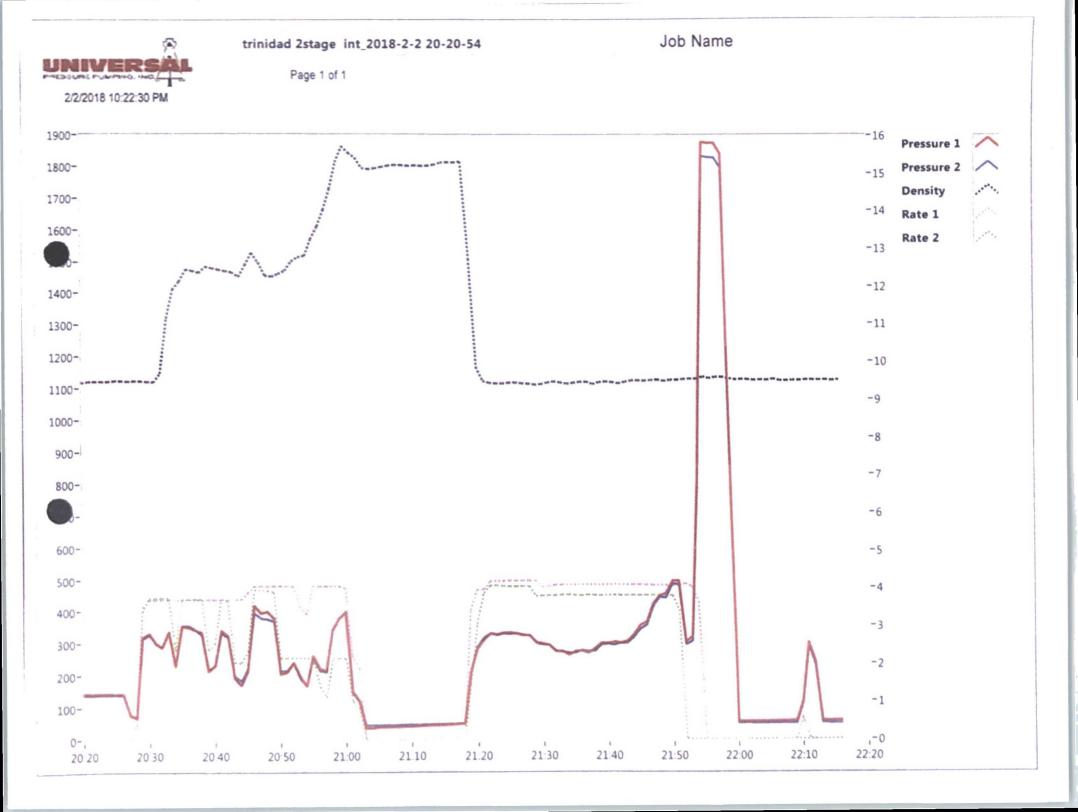




Page 1 of 1









Customer Name		Customer No).		Job No. 111500864	1	Job Start Date		
MiPetro Operating		Credit No.			AFE or P.O. No.	,	Job End Date		
300 E Sonterra 8 City, State, Zip		Job Type			# of Stages	Water Volume			
San Antonio Ts District Midland	Crew Name	Well Type			Formation(s)		Water Mass (lbs)		
Well Name and N		Well API Nun		County	Lea	State	New Mexico		
Wildhag EW1 Sta Product	Description	30-025 Unit of	Quantity	List	Gross	item.	FI FOLK	Net Amount	
Code		Measure		Price/Unit	Amount	Discount 68.00%	Tax	\$2,336.00	
	Premium Plus Cement, Area 1	Sack	200			68.00%		\$4,032.00	
870850 873020	50/50 Poz with Premium Plus, Area 1 Salt, 100 mesh sacked	Sack	450 2637		Name and Address of the Owner, where the Owner, which is the Owner,			\$767.89	
	Sent 100 mean secked	Lb	3780	THE RESERVE OF THE PARTY OF THE		68.00%		\$786.24	
	CAS-1, Suspension Agent, Sodium Metasilicate	Lb	113			68.00%		\$178.99	
873200	CD-1, Cement Dispersant/Friction Reducer	Lb	56	\$9.75		68.00%		\$174.72	
873320	CFL-3, Fluid Loss Additive	Lb	113			68.00%		\$867.84 \$342.43	
873510	Kol-Seal	Lb	836		\$1,070.08	68.00%		\$228.48	
873520	Celloflake	Lb	105			68.00%		\$288.00	
873600	Sugar CR-1, Cement Retarder for Moderate Temp 125 to 220 F	Lb	151	\$8.75		68.00%		\$422.80	
873610 873810	CDF-1L, Defoamer	Gal	3	\$87.50	\$262.50	68.00%		\$84.00	
872000	Blending Charge	CUFT	1396		\$5,235.00	68.00%		\$1,675.20	
860050	Cement Delivery Charge	TM	2898	\$3.10		68.00%		\$2,874.82	
860000	Unit Mileage Charge - Trucks and Vans (Except Bulk Units), Per Unit Mile	Mi	360			68.00%		\$979.20	
860010	Pickup Mileage Charge, Per Unit Mile	Mi	360			68.00%		\$593.28 \$1,680.00	
861351	Cernent Pump Casing, Area 1, 5,001'-6,000', 1st 6 Hrs	Ea	1			68.00%		\$169.60	
863520	Cementing Head with Manifold, 6 5/8*-10 3/4*, Each	Job Job	1		Name and Advanced in column 2 is not the owner of the owner owner of the owner of the owner ow	68.00%		\$123.20	
863550	Swedge , 6 5/8" - 13 3/8" with Valve, Each Bulk Truck, Additional Hours After 4 Hrs, Per Unit/Hr	Hrs	60		NAME AND ADDRESS OF THE OWNER, WHEN PERSON ADDRESS OF THE OWNER, WHEN PERSON AND ADDRESS OF THE OWNER, WHEN	68.00%		\$3,168.00	
863003 861603	Coment Pump Casing, Area 1, Additional Hours, Pump/Hr	Hrs	20			68.00%		\$4,224.00	
	Cement Pump Casing, Area 1, 3,001'-4,000', 1st 4 Hrs	Ea	1			68.00%		\$1,328.00	
-									
				-	80E 300 68	Tax / Net Total		\$27,324.69	
				Gross	\$85,389.65	Tax / Net Total		921,424,63	
		Custome	r Representative						
			d Representative.						
1		Ottovilla							
1			Ticket Date:						



Operator Name:

Cementer Name:

District No.:

Lease Name:

Field Name:

Type of casing:

casing?

Slurry No.

1

2 3 Total

Drilled hole size (in.):

Slurry No.

2 3 Total

Drilled hole size (in.):

Upper:

Slurry No.

Upper:

Size of casing in O.D. (in.):

Tapered string drilled hole size (in.)

Tapered string size of casing in O.D. (in.)

Hrs. waiting on cement before drill-out:

Upper:

Size of casing in O.D. (in.):

Tapered string drilled hole size (in.)

Tapered string size of casing in O.D. (in.)

Hrs. waiting on cement before drill-out:

Drilled hole size (in.):

Size of casing in O.D. (in.):

YES

No. of Sacks

450

200

650

Type of casing: Surface Intermediate

No. of Sacks

Type of casing: Surface Intermediate

No. of Sacks

Hrs. waiting on cement before drill-out:

Well No.:

RAILROAD DMMISSION OF TEXAS

Form W-15

1701 N. Congress P.O. Box 12967 Austin, Texas 78701-2967 CEMENTING REPORT

ImPetro Operating

Universal Pressure Pumping Inc.

Wildhog BWX State Com

Surface

NO If no for surface casing, explain in remarks

Depth of drilled hole (ft.):

Casing weight (lbs/ft) and grade:

Calculated top of cement (ft.):

Depth of drilled hole (ft.):

Casing weight (lbs/ft) and grade:

Production Tapered production

Tapered string casing weight(lbs/ft) and grade

Depth of drilled hole (ft.):

Upper:

Casing weight (lbs/ft) and grade:

Calculated top of cement (ft.):

Calculated top of cement (ft.):

Conductor

Was cement circulated to ground surface (or bottom of cellar) outside

Class

C

C

Lower:

Was cement circulated to ground surface (or bottom of cellar) outside casing?

Lower:

Was cement circulated to ground surface (or bottom of cellar) outside casing?

Class

Lower:

Class

Production Tapered production

Tapered string casing weight(lbs/ft) and grade

Congress			Rev. 08/20		
ox 12967 as 78701-2967		ementer: F	ill in shaded areas.		
NG REPORT			Fill in other items.		
OPERATOR INFORMATION					
Operator P-5 No.:	16 4 7 16 6 7 7 1	878392	12 STEWN 31 3-3-3-7		
Cementer P-5 No.:		0/0332	(1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		
WELLINFORMATION	100				
County:		nkler			
API No.: 42-495-33964	Drilling Perr	nit No.:			
Lease No.:					
Field No.:					
. CASING CEMENT DATA		Att Ellis			
Intermediate Liner	Production	1			
d hole (ft.):		-	or hole enlargement:		
(lbs/ft) and grade:	No. of centr	-	Office and the state of the sta		
	th shoe (ft.):	Top of line			
, explain in remarks			depth liner (ft)		
of cement (ft.):	Cementing of	late:	February 2, 2018		
SLURRY Additives	Volum	len 61	Height (ft.)		
See remarks		(cu. ft.)	5906		
See remarks		30	1506		
	13	88	7412		
d hole (ft.): (lbs/ft) and grade:	Est. % wash-		enlargement:		
Tapered string depth of drilled hole (ft.)					
Upper:	Lower:				
casing weight(lbs/ft) and grade	Tapered stri	ng no. of ce	entralizers used		
Lower:	Upper:	Lov	wer:		
asing? Yes No	Setting dept	h shoe (ft.)	:		
of cement (ft.):	Cementing of	late:			
SLURRY		1. 图集中的	Control of the second		
Additives	Volume	(cu. ft.)	Height (ft.)		
		du control			
CACING CENTENT DATA					
CASING CEMENT DATA	. Ir.		At distance in the state		
Tapered production Multi-stage ce		-	Multiple parallel strings		
hole (ft.):	THE RESERVE AND DESCRIPTION OF THE PERSON NAMED IN	AND RESIDENCE AND PARTY AND PERSONS ASSESSMENT OF THE PARTY AND PARTY.	enlargement:		
lbs/ft) and grade: Tapered string depth of drilled hole (ft.)	No. of centralizers used:				
Upper: casing weight(lbs/ft) and grade	Lower:	ng no. of ce	entralizers used		
Lower:	Upper:		wer:		
ising? Yes No					
of cement (ft.):	Cementing date:				
SLURRY					
Additives	Volume	(cu. ft.)	Height (ft.)		

	MENTING TO SQL	JEEZE, PLUG BA	CK OR PLUG AN	DABA (
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date							
Size of hole or pipe (in.)							
Depth to bottom of tubing or drill pipe (ft.)							
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount of cement on top of CIBP (ft.)							
Sacks of cement used	Sales Andrews				-1		
Slurry volume pumped (cu. ft.)	The state of the	the street of	(1) 10 mm 1 mm 10 mm				
Calculated top of plug (ft.)			Ed Book of		W-2	Karagan a	
Measured top of plug, if tagged (ft.)			;				
Slurry weight (lbs/gal)		A SATURA		Table 1			
Class/type of cement			建 	AND SECOND SECOND			
Perforate and squeeze (YES/NO)				The state of the s	1		

	REMARKS					
Premium Plus + 0.3% CD-1 + 0.6% CFL-3						
Premium Plus 50/50 Poz + 5% Salt + 10% Gel + 2% Kol-Seal + 0.25% Celloflake + 0.3% CAS-1 + 0.4% CR-1						

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

	Supervisor

Universal Pressure Pumping

Name and title of cementer's representative

Cementing Company

4517 W. Industrial Ave.

Address

Midland, Texas, 79703

(432) 699 3271 Tel: Area Code Number 2/2/2018

Date: Month/Day/Year

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

City, State, Zip Code

Typed or printed name of operator's representative	2		Title		Signature	
Address	City.	State.	Zip Code	Tel: Area Code Number	Date: Month/Day/Year	

Instructions for Form W-15, Cementing Report

NOTICE: The Form W-15 must be submitted as an attachment to a Form G-1 (Gas Well Back Pressure Test, Completion or Recompletion Report, and Log), Form W-2 (Oil Well. Potential Test, Completion or Recompletion Report, and Log), Form W-3 (Plugging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a wellbore.

- A. What to file: An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well.

 The cementing of different casing strings on a well by one cementing company may be reported on one form.

 The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.
- B. How to file: An Oil and Gas completion report and Form W-15 may be filed online using the Commission's Online System (https://webapps.rrc.state.tx.us/security/login.do) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).
- C. Surface casing: An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth.

 Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

 To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 (http://info.sos.state.tx.us/pls/pub/readtac\$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14). companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.
- D. Estimated % wash-out: If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.
- E. Multi-stage cement: An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.
- F. Multiple parallel strings: An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. required to submit multiple Form W-15s to show all data for multiple parallel strings.
- G. Slurry Data: If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cement Data box.



Cementing Job Report

Personel and Equipment

		Personel	Tra	ctor Number		Trailer	Number
Service Sup	ervisor:	Donald Gregory					
Pump Ope	erator:	John Coonradt				152	0479
Operat	tor:	Jose Rodregez					
Operat	tor:	Manny Silva					
Operat	-						
Operat	-						
Operat							
Operat							
Operat	tor:						
Operat	_						
Operat	tor:						
		Job Timeline					
Time				Pressure	Rate	Vol.	Weight
(24:00)		Comments		(psi)	(bpm)	bbl	lb/gal
1530p		Arived on loc.					
1545p		prejob Jsa					
		did not move in to rig up waiting on rig to get wire line on loc.					
		to perf csg.					
2022p	wire l	line arived on loc.waiting on rigwill move in to rig up as soon as	43136.0	98.6	11.8		
	got	injection rate whit rig full returns rigging up / rig runnig into 17					
		perfs at 1900 will pump all cement and displace 43.5 bbls fw.					
	will displa	ace drill pipe and 152 ft. vof 10.75 csg will leave 25 ft. of cemer	nt in csg.				
	shu	t in leave valve shut in 4 hrs. rig said will continue normale op	ps				
		after that job complete					
0225a		20 bbls away220 psi			2.2		
0229a	clos	sed back side 30 bbls away 500- 1700 shut down opened back	up				
0234a		43.5 bbls away 500psi close in 6 hrs.					
		cementing psi 50-350 psi					
		mpetro Operating					
Well	Name: _	NO:					
		NO:					
Sign	ture:	<u> </u>				-	
Print	ed Name						
AFE	-			000	1		
				really	nee		
-	C	ustomer Representative		UPP Represe	entative		



Job Type	Customer Name		Customer No	0.		Job No.		Job Start Date			
Job Type	ImPetro Operatio	g					2				
City State County Coun	Address		Credit No.			AFE or P.O. No.		Job End Date			
District Crew Name Wall Type Formation(s) Water Mass (lbs) Water Mass (lbs) Wall Art Michael Crew Name Wall Type Formation(s) Wall Art Michael Crew Name Wall Type State New Michael		Blvd Suite 1220									
District Crew Name Well Type Formation(s) Well Flams (lbs) Well Flams (lbs) Well Flams (lbs) Well Flams (lbs)	City, State, Zip		Job Type			# of Stages	Water Volume				
Content Crew Name Crew N			Well Your			Formulian(e)		Water Mass (lbs)			
Well Name and No. Well API Number State		Crew Name	wen type			Pormation(s)	armation(s)				
New Marking Birk/S State Corn 82H Description Unit of Quantity List Gross Rorm Net Amount		No.	Well API Nur	nber	County		State				
Product Description Unit of Quantity List Gross Price Unit of Code					-	Line Line	1	New Mexico			
R70850 S0/50 Pox with Premium Plus, Area 1 Sack 225 \$28.00 \$8.300.00 68.00% \$2,016.	_				Lie		item		Net Amount		
870850 S050 Paz with Premium Plus, Area 1 Sack 225 \$28.00 \$8,000.00 \$8,000.00 \$8,000.00 \$3,010.000 \$3,	100000000000000000000000000000000000000	Description .					Discount	Tax			
## 873020 Salt, 100 mesh sacked ## Brotolite ## Brotolit	Name and Address of the Owner, where the Party of the Owner, where the Owner, which the Own	50/50 Poz with Premium Plus, Area 1	Sack	225	\$28.00	\$6,300.00	68.00%		\$2,016.00		
873100 Bentonite	THE RESERVE THE PERSON NAMED IN COLUMN 2 IS NOT THE PERSON NAMED I	Salt. 100 mesh sacked	Lb	1316	\$0.91	\$1,197.56	68.00%		\$383.22		
873110 CAS-1, Suspension Agent, Sodium Metasilicate	Committee of the last of the l	Bentonite	Lb	1890	\$0.65	\$1,228.50	68.00%		\$393.12		
873510 Kol-Seal Lb 450 \$1.28 \$576.00 68.00% \$1.28 873800 Sugar Lb 300 \$3.00 \$800.00 68.00% \$2.88 873810 CDF-1L, Defoamer Gal 1 \$87.50 \$87.50 \$87.50 \$8.00% \$2.88 880050 Cement Delivery Charge TM 1018 \$3.10 \$3.149.00 68.00% \$1.007 872000 Blending Charge CU FT 554 \$3.75 \$2.077.50 68.00% \$604 880000 Unit Mileage Charge - Trucks and Varis (Except Bulk Units), Per Unit Mile Mil 180 \$8.50 \$1.330.00 68.00% \$489 880010 Pickup Mileage Charge, Per Unit Mile Mil 180 \$5.15 \$927.00 68.00% \$2.266 880211 Cement Pump Tubing, Area 1, 1,001'-2,000', 1st 4 Hrs Ea 1 \$3.550.00 \$3.350.00 68.00% \$1.130 862593 Cement Pump Tubing, Area 1, Additional Hours, PumpMr Hrs 6 \$680.00 \$3.860.00 68.00% \$3.16 863003 Bulk Truck, Additional Hours After 4 Hrs, Per UnitMr Hrs 6 \$600.00 \$3.860.00 68.00% \$3.860.00 Customer Representative: Universal Repre	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO	CAS-1. Suspension Agent, Sodium Metasilicate	Lb	19	\$4.95	\$94.05	68.00%		\$30.10		
873800 Sugar	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN 2 IS NOT THE PERSON		Lb	450	\$1.28	\$576.00	68.00%		\$184.32		
873810 CDF-1L, Defoamer Gal 1 \$87.50 \$87.50 \$8.00% \$28.	THE RESERVE OF THE PERSON NAMED IN		Lb	300	\$3.00	\$900,00	68,00%		\$288.00		
Section Sect	THE RESERVE AND ADDRESS OF THE PARTY.		Gal	1	\$87.50	\$87.50	68.00%		\$28.00		
872000 Blending Charge CU FT 554 \$3.75 \$2,077.50 68.00% \$9684	THE RESERVE THE PERSON NAMED IN		TM	1016	\$3.10	\$3,149.60	68.00%		\$1,007.87		
860000 Unit Mileage Charge - Trucks and Vans (Except Bulk Units), Per Unit Mile Mil 180 \$8.50 \$1,530.00 68.00% \$459.00	THE RESERVE THE PERSON NAMED IN COLUMN TWO		CUFT	554	\$3.75	\$2,077.50	68.00%		\$664.80		
B80010 Pickup Mileage Charge, Per Unit Mile Mil 180 \$5.15 \$927.00 68.00% \$296.	The Residence of the Party of t	Unit Mileage Charge - Trucks and Vans (Except Bulk Units), Per Unit Mile	M	180	\$8.50	\$1,530.00	68.00%		\$489.60		
862311 Cernent Pump Tubing, Area 1, 1,001'-2,000', 1st 4 Hrs Ea 1 \$3,550.00 \$3,550.00 68.00% \$1,136. 862563 Cernent Pump Tubing, Area 1, Additional Hours, PumpHr Hrs 6 \$660.00 \$3,660.00 68.00% \$3160. 863003 Bulk Truck, Additional Hours After 4 Hrs, Per UnithHr Hrs 6 \$165.00 \$990.00 68.00% \$3160. Gross \$26,567.71 Tax / Net Total \$8,601. Customer Representative:	THE RESERVE AND PERSONS NAMED IN		Mi	180	\$5.15	\$927.00	68.00%		\$296.64		
862593 Cernent Pump Tubing, Area 1, Additional Hours, Pump/Hr Hrs 6 \$660.00 \$3,860.00 68.00% \$1,267.	THE RESERVE OF THE PARTY OF THE		Ea	1	\$3,550.00	\$3,550.00	68.00%		\$1,136.00		
Bulk Truck, Additional Hours After 4 Hrs, Per Unit/Hr	THE RESERVE AND PARTY OF THE PA		Hrs	6	\$660.00	\$3,960.00	68.00%		\$1,267.20		
Continuer Representative: Universal Representative: Universal Representative: Tisted Date: 2 - 4 - 18			Hrs	6	\$165.00				\$316.80		
Universal Representation: Q Deruk Muree Tisted Date: 2-4-18					Gross	\$26,567.71	Tax / Net Total		\$8,501.67		
Universal Representation: Q Deruk Muree Tisted Date: 2-4-18			-								
Ticket Date: 2-4-18					***************************************	N mulil	Luce -	_			
			Univers	al Representative:							
CLISTOMER AUTHORIZED AGENT SIGNATURE				Ticket Date:		2-4-18					
		CUSTOMER AUTHORIZED AGENT SIGNATURE									



			n an an ann an Aireann	Cement	10 3/4	4" Top (Off					
Company:	ImPetro O	perating				Da	Date:					
Well:	Wildhog B	WX State	Com #2H			Co	ounty:	Lea				
Rig Name:	Trinidad 1	17				St	ate:	New I	Mexico			
				Well	Inform	-						
Depth (TMD)	2300) ft	Tubing/Drill Pi	The state of the s						Hole at	t:	
Vert. Depth () ft	Tubing/Drill Pi				Liner Size	e:		Perfs a		
Hole Size:	17 1	/2 in	Casing Size:		10	3/4 in	Top of Lir	ner:		Retaine		
DV Tool at:			Prev. Casing [Depth:			Liner Len	_		Plug:		
Additional Inf	0:									Packer	at:	
			Planned Pr	e-Flush, Sp	acer, a	and Dis	placemen	t Fluids	3			
										unine en e		
				Plan	ned C	ement						
Single	Slurry	Premium	Plus 50/50 Pd	z + 5% Salt +	10% G	el + 2# K	ol-Seal + 0.	1% CAS	-1			
22	5 sk	Weight:	11.80 ppg	Yield:	2.46 cuf	t/sk	Mixin	g Water:	14.03 gal/s	sk		
		Slurry Volu	me: 98.66 Bbl	Slurry Mixi	ing Wate	r. 75.14 B	bl					
	***************************************									nation/positions/stackers-distribute		
									,			
					Totals	3						
•	Total Volume:	98.66 B	bl	Total Mix Wa	iter: 7	5.14 Bbl	To	tal Displ	acement:	24.5		
				Planned	d Pum	p Rates	3					
N	Max Pressure:			Max Ra	ate:				Min Rate:			
	On on	.200	Lou									

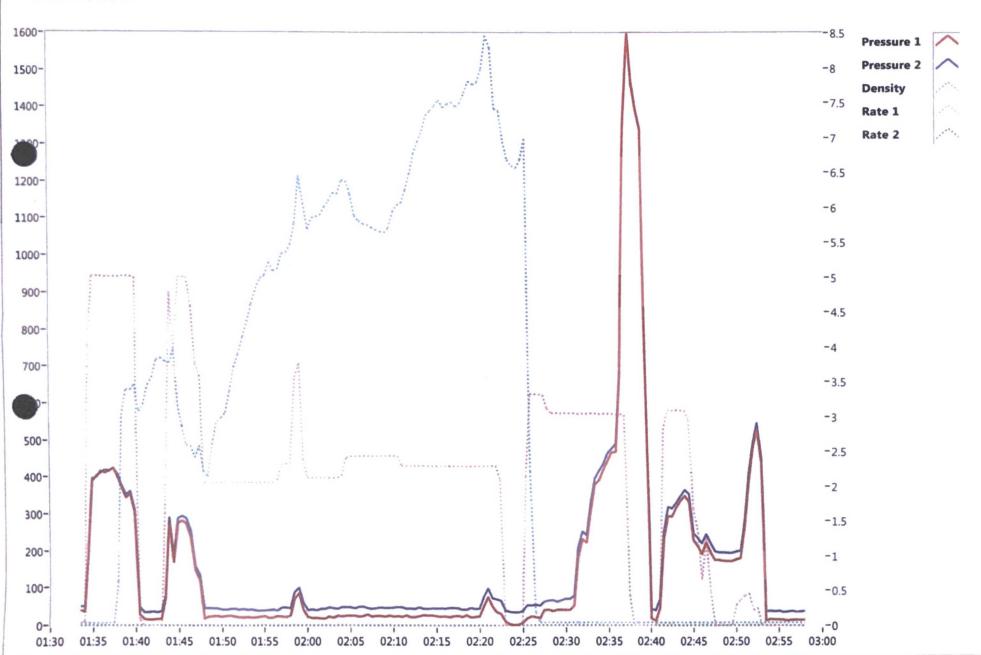
Company Representative Signature

Service Supervisor Signature



2/4/2018 2:59:22 AM

Page 1 of 1





			Cr	ement 10.75"	1st In	termedia	te Casin	g			
Company:	ImPetro O	perating				Da	Date:				
Well:	Wildhog B	WX State	e Com #2			Co	ounty:	Lea			
Rig Name:	Trinidad 1	17				Str	ate:	New	Mexico		
				Wel	I Infor	mation					
Depth (TMD):	5200) ft	Tubing/Drill							Hole at:	
Vert. Depth (T) ft	Tubing/Dril	ill Pipe Length:		Liner Size:		e:		Perfs at:	
Hole Size:	12 1	1/4 in	Casing Size	e:	10	0 3/4 in	Top of Lin	ner:		Retainer at:	
DV Tool at:	2750) ft	Prev. Casir	ng Depth:	18	850 ft	Liner Len	-		Plug:	
Additional Info	0:									Packer at:	
			Planned	Pre-Flush, Sp	pacer,	and Dis	placemer	nt Fluid	s		
Pre-flush		30 Bbls	Type:								
			-								
Displacement	t		757.5 Type:	Displacement	nt Fluid						
				Plar	nned (Cement					
Le	ead	Premiur	n Plus 50/5/	0 Poz + 5% Salt +			Kol-Seal +	0.25% C	elloflake +	0.3% CAS-1	+ 0.4% CR-
20	0 sk		11.80 ppg	Yield:	2.47 cu				14.06 gal/		
		_	olume: 87.96	Bbl Slurry Mi	ixing Wa	ter: 66.94 Bl					
Т	ail	Premiur	n Plus + 0.3	3% CD-1 + 0.6% (
11	0 sk		14.40 ppg	Yield:	1.42 cu	uft/sk	Mixi	ing Water:	6.94 gal/s	k	
		Slurry Vo	olume: 27.77	Bbl Slurry Mi	ixing Wa	ater: 18.17 B	ibi				
Le	ead	Premiur	n Plus 50/5	0 Poz + 5% Salt +	+ 10%	Gel + 2% I	Kol-Seal +	0.25% C	elloflake +	0.3% CAS-1	+ 0.4% CR-
25	60 sk	Weight:	11.80 ppg	Yield:	2.47 ct	uft/sk	Mixi	ing Water.	14.05 gal/	/sk	
		Slurry Vo	olume: 110.10	0 Bbl Slurry Mi	ixing Wa	ater: 83.62 B	bl				
Т	Tail .	Premiur	n Plus + 0.3	3% CD-1 + 0.6%	CFL-3						
90	0 sk	Weight:	14.40 ppg	Yield:	1.42 ct	uft/sk	Mixi	ing Water.	6.94 gal/s	ik	
		Slurry Vo	olume: 22.72	Bbl Slurry Mi	ixing Wa	eter: 14.87 B	ibl				
					Tota	als					
	Total Volume	e: 248.56	6 Bbl	Total Mix W		183.59 Bi		Total Dis	placement	ja ka	
				Plann	ed Pu	ımp Rate	IS				
	Max Pressure	a: 2200		Max	Rate: 8	3			Min Rate	r. 1	
-	S	ervice Supe	ervisor Signatu	ure			Com	pany Repr	resentative S	Signature	



Work Estimate

ImPetro Operating

Wildhog BWX State Com #2

Cement 10.75" 1st Intermediate Casing

County: Lea

State: New Mexico

Date:

2/1/2018

Job Data

Hole Size: 12.25 in

Casing: 10.75 in 45.5 #/ft

Measured Depth (TMD): 5200 ft

Previous Casing: 13.375 in 54.5 #/ft

Vertical Depth (TVD): 5200 ft Stage Tool Depth: 2750 ft

Job Calculation

1st Stage Tail 5200' TMD - 4700' ToC Tail = 500' ft x 0.1882 cuft/ft = 94 cuft

94 cuft + 22 cuft SJ = 116cuft x 25% Excess = 145 cuft / 1.33 Yield = 110 Sacks

1st Stage Lead 4700' ToC Tail - 2750' DV Tool = 1950' x 0.1882 cuft/ft = 367 cuft

367cuft x 25% Excess = 459 cuft / 2.47 yield = 200 sacks

2nd Stage Tail 2750' TMD - 2250' ToC Tail = 500' ft x 0.1882 cuft/ft = 94 cuft

94cuft x 25% Excess = 118 cuft / 1.33 Yield = 90 Sacks

2nd Stage Lead 2250' ToC Tail - 1850 Surface Casing = 400' ft x 0.1882 cuft/ft = 76 cuft x 100%XS = 152cuft

1850' Surface Casing - 0' Surface = 1850' x 0.2377 cuft/ft = 440 cuft

152 cuft + 440 cuft = 592 cuft / 2.47 Yield = 250 Sacks

Pre-flush / Spacer / Displacement

Pre-flush

30 Bbls Fresh Water

Displacement	TBD	Displa	cement Fluid									
				Ce	ment							
Lead	Premium Plus 50/50 Poz + 5% Salt + 10% Gel + 2% Kol-Seal + 0.25% Celloflake + 0.3% CAS-1 + 0.4% C											
	Density:	11.80	opg	Yield:	2.47 cuft/sk	Mix Water:	14.06 gal/sk					
	% Excess:	25%		Sacks:	200 sk	Barrels:	87.96 Bbl					
Tail	Premium Plus + 0.3% CD-1 + 0.6% CFL-3											
	Density:	14.40	14.40 ppg		1.42 cuft/sk	Mix Water:	6.94 gal/sk					
	% Excess:	25%		Sacks:	110 sk	Barrels:	27.77 Bbl					
Lead	Premium Plus 50/50 Poz + 5% Salt + 10% Gel + 2% Kol-Seal + 0.25% Celloflake + 0.3% CAS-1 + 0.4% CR-1											
	Density:	11.80	opg	Yield:	2.47 cuft/sk	Mix Water:	14.05					
	% Excess:	100%		Sacks:	250 sk	Barrels:	110.10 Bbl					
Tail	Premium Plus + 0.3% CD-1 + 0.6% CFL-3											
	Density:	14.40 p	opg	Yield:	1.42 cuft/sk	Mix Water:	6.94					
	% Excess:	25%		Sacks:	90 sk	Barrels:	22.72 Bbl					
				To	otals							
Total Mixi	ng Water:	183.6	Bbl	To	tal Spacer and Dis	placement Water:		Bbl				
Total Slurr	y Volume:	248.6	Bbl		Water Requ	ired for Wash-Up:	40.0	Bbl				