Ale Partnership Federal W29-9JI

Anadarko Petroleum Corporation

API# 05-123-19856	Wins# H6910		Spud 1/22/2000	
Equipment	**Depth**	**Dia**	**Wgt**	
Surface csg	869	8.625	24	
Prod csg	8008	4.5	11.6	
Liner				

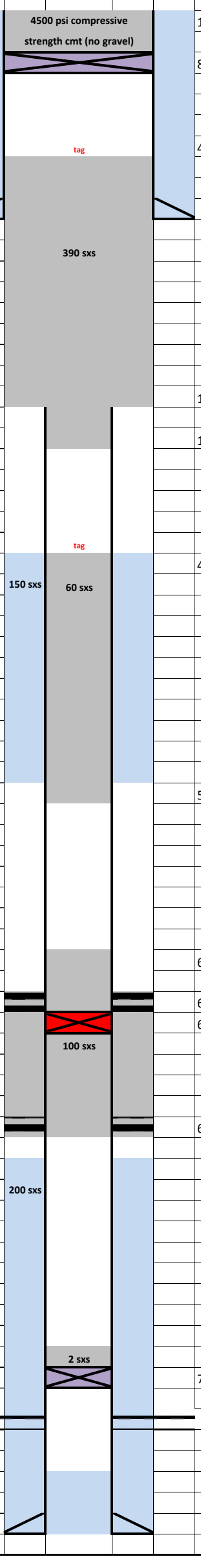
Exist Cmt
New Cmt
SQ'd perfs
CICR
Exist CIBP
New CIBP
Exist RBP
New RBP

Sanjel Cement Recipes

Fox Hills	(1)Type III+0.3% CFL-3+0.3% CFR-2+0.25 lb/sk Polyflake, 14.8 ppg & 1.33 cf/sk.
P&A Plug/SQ	(2)0:1:0 'G'+0.5% CFR-2+0.2% FMC+0.5% LWA+0.25 lb/sk Polyflake, 15.8 ppg & 1.15 cf/sk.
Braidenhead	(3)1:1 'Poz G'+0.6% CFL-2+0.5% CFR+0.6% SMS+0.2% SPC-2+0.4% LTR (***6 hr TT***), 14.6 ppg & 1.12 cf/sk.
P&A SQ	(4)1:1:3 'Poz G Gel'+20% silica+0.4% CFL-3+0.4% CFR-2+0.1% SMS, 13.5 ppg & 1.66 cf/sk.
P&A Plug	(5)Thermal 35 +0.5% CFR-2+0.25% FMC, 15.6 ppg & 1.51 cf/sk.
CIBP	(6)Neat "G" cmt (15.8 ppg and 1.15 cf/sk).

Sussex-Shannon
Surface to 2500'
2500' to 6500'
Sussex-Shannon
> 6500'
> 6500'
Dump Bailer

EXISTING		PROPOSED	
KB	10'	10'	KB
		80'	CIBP
		464'	Fox Hills plug (1)
			390 sxs (519 cf)
estimated Fox Hills sand	773'-522'		**Note: Tagged TOC**
Surface Csg Shoe	869'		**must be ≤ 470'**
			(at least 50' above
			Fox Hills Sand TOP).
Fox Hills MARKER	1353'		
		1460'	cut & extract csg
		1560'	BOC
CBL TOC	4280'	4280'	Sussex plug (2)
Prod within 1 mile ?	yes		60 sxs (69 cf)
Sussex TOP	4508'		
Sussex BASE	4747'		
DV Tool	4969'		
CBL BOC	4980'		
		5070'	cover DV Tool
Shannon BASE	absent		
Prod within 1 mile ?	no		
		6370'	Niobrara SQ (4)
			100 sxs (165 cf)
		6500'	top SQ perfs (2')
		6530'	CICR
		6860'	bot SQ perfs (1')
CBL TOC	6870'		
Niobrara TOP	7151'		
		7850'	CIBP + 2 sxs cmt
J Sand perfs	7902'-7948'		
Shoe	8008'		
MTD	8040'		



Fox Hills — Red Book factors

			Backside	Inside	unsting
cement yield	1.33				
Surf csg dia & wgt	8.625	24		0.3575	
calipered hole dia	9			0.4418	
Prod csg dia & wgt	4.5	11.6	0.3313	0.0872	0.0872
excess	1.4				

Notes: 9" caliper diameter at 4000'.

				plug height	cf	sxs
Plug inside Surface Casing						
plug top	8.625	24	464	405	145	109
plug base	8.625	24	869			
Casing Removal Plug				plug height	cf	sxs
plug top	9		869	591	366	275
plug base	9		1460			
Plug below Cut Casing				plug height	cf	sxs
plug top	4.5	11.6	1460	100	9	7
plug base	4.5	11.6	1560	Total Stub Plug =	519	390

			cmt yield	plug height		cf	sxs
Plug above Squeeze							
plug top			1.33	0	Plug	0	0
plug base			Notes:				

SQUEEZE	excess	unsting	cmt yield	unsting hgt		cf	sxs
calipered hole dia			1.33	0			
9	SQZ Backside	Inside	SQZ height	CR height	Inside Hgt		
perfs			0	0	0		
CR							
perfs			Notes:				

unsting	0	0					
Inside	0	0					
Backside	0	0					
Total	0	0					

			cmt yield	plug height		cf	sxs
Plug below Squeeze							
plug top			1.33	0	Plug	0	0
plug base			Notes:				

Sussex/Shannon

			Backside	Inside	unsting
casing dia & wgt	4.5	11.6	0.3313	0.0872	0.0872

Notes:

			cmt yield	plug height		cf	sxs
Plug above Squeeze							
plug top			1.15	0	Plug	0	0
plug base			Notes:				

SQUEEZE	excess	unsting	cmt yield	unsting hgt		cf	sxs
calipered hole dia			1.15	0			
9	SQZ Backside	Inside	SQZ height	CR height	Inside Hgt		
perfs			0	0	0		
CR							
perfs			Notes: 9" caliper diameter 4000'-5500'.				

unsting	0	0					
Inside	0	0					
Backside	0	0					
Total	0	0					

			cmt yield	plug height		cf	sxs
Plug below Squeeze							
plug top		4280	1.15	790	Plug	69	60
plug base		5070	Notes:				

Niobrara/Codell

			Backside	Inside	unsting
casing dia & wgt	4.5	11.6	0.2836	0.0872	0.0872

Notes:

			cmt yield	plug height		cf	sxs
Plug above Squeeze							
plug top			1.51	0	Plug	0	0
plug base			Notes:				

SQUEEZE	excess	unsting	cmt yield	unsting hgt		cf	sxs
calipered hole dia	1.2	6370	1.66	160			
8.5	SQZ Backside	Inside	SQZ height	CR height	Inside Hgt		
perfs	6500		360	330	490		
CR		6530					
perfs	6860	6860	Notes: 8.5" caliper diameter 6500'-6900'.				

unsting	14	8					
Inside	29	17					
Backside	123	74					
Total	165	100					

			cmt yield	plug height		cf	sxs
Plug below Squeeze							
plug top			1.51	0	Plug	0	0
plug base			Notes:				

collars @	7825	7868	
collars @			