2154 West Eisenhower Boulevard | Loveland, Colorado 80537 | 970-669-7411
info@petersonenergy.com | www.petersonenergy.com
PETERSON ENERGY MANAGEMENT INC.

Daily Completion Report

Date	Company	Well Name & Number	County	State	API Number	GL	KB
10/28/14	Bayswater	Robel 12-28	Weld	CO	05-123-34200	4852	4862

Report Day	TVD	TMD	PBTD	QtrQtr Sec-Twp-Rge	Daily Cost	Cumulative Cost	AFE Amount
8	0'	7,390'	7,365'	NW SW 28-T7N-R64W	$149,294	$317,645	$0

Summary
Frac Nio A

Supervisor
Baldwin / Ferguson

Time Log From	To	Hrs	
0:00	1:06	1:16	Pump 184,842 gals FR water with sand ramping from 0.35 ppg - 1.50 ppg 30/50 White at 5,352 psi and 59.9 bpm
1:06	1:15	0:09	Flush with 4,578 gals of FR water and 500 gal. 15% HCL Acid; SD.
1:15	1:19	0:04	ISDP = 3,443 psi, FG = 0.923 psi/ft, 1 min = 3,367 psi, 4 min = 3,326 psi, Leakoff = 41 psi/3 min
			Avg pressure = 5,239 psi, Max pressure = 5,742 psi, Avg rate = 59.9 bpm, Max rate = 60.7 bpm
			278,418 gals FR Fluid, 184,842 gals SLF, 167,971 lbs. 30/50 White, 6,641 BLTR
1:49	2:40	0:51	Allied Wireline RIH to 6,980' correlate with CBL w/ SJ @ 6,800' - 6,822'
2:40	2:50	0:10	Allied Wireline Set plug @ 6,980' w/LT = 1,065lbs dropping to 1,025lbs
2:50	3:00	0:10	Allied Wireline Perforated from 6,906' - 6,922' 0.42" EHD w/ 4SPF
3:00	3:53	0:53	POOH to surface verified shots fired and plug is set.
4:27	4:47	0:20	HES pressure test to 6,540 psi. KO = 5800 psi. to 5850 psi. MP = 6800 psi.
4:47	4:47		HES Opening WH for Niobrara A formation w/ perforations @ 6,906' - 6,922'.
			SIWP = 2,825 psi, Formation break at 5,142 psi and 33.3 bpm.
4:47	5:01	0:14	Pump 10,167 gals FR pad at 5,272 psi and 52.8 bpm, Reverse step rate, SD
5:01	5:06	0:05	ISIP = 3,477 psi, FG = 0. psi/ft, 1 min = 3497 psi, 4 min = 3314 psi, Leakoff = 183 psi/3 min
			Total Friction = 1809 psi, NWB = 340 psi, Perf = 931 psi, WB = 538 psi, Perfs open = 23 holes
5:06	5:22	0:16	Pump 36,427 gals FR pad at 5384 psi and 55.6 bpm
5:22	5:50	0:28	Pump 14,323 gals FR water with sand ramping from 0.35 ppg - 0.75 ppg 30/50 White at 5,620 psi and 54.3 bpm
			Ran 14,323gal of 0.25ppg dirty sweep due to steady psi increase. Rate @ 52bpm @ 5,600 psi. Saw no relief.
			Flush with 5,327 gals of FR water
			ISDP = 3,677 psi, FG = 0.965 psi/ft, 1 min = 3,594 psi, 4 min = 3,462 psi, Leakoff = 132 psi/3 min
			Avg pressure = 5,287 psi, Max pressure = 5,629 psi, Avg rate = 51.1 bpm, Max rate = 55.7 bpm
			105,040 gals FR Fluid, 53,536 gals SLF, 25,185 lbs. 30/50 White, 2,513 BLTR
			SIWH w/ 3,386 psi. on well.
5:50	9:00	3:10	HES RDMO location
9:00	9:30	0:30	MIRU Flowback
TOTAL HOURS:		8:36	

Perforation Record

Formation	DEPTH From	DEPTH To	PLUGS Frac Plug	PLUGS CIBP
Codell	7183	7197		
CIBP				7140
Nio C	7070	7090		
Nio B	7006	7026	7050	
Nio A	6906	6922	6980	

TUBING DESC. (Top to Bottom)

# Jts.	Desc.	Size	Grade	Thread	Weight	Length	Set @
220	Prod Tbg	2 3/8"	J-55	EUE 8rd	4.7	7143.60'	
2	Subs	2 3/8"	J-55	EUE 8rd	4.7	14'	
1	SN/NC	2 3/8"		EUE 8rd		1.4'	
	KB	4862'/4852'				10'	
							7169' KB

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Report Day	TVD	TMD	PBTD	QtrQtr Sec-Twp-Rge	Daily Cost	Cumulative Cost	AFE Amount
7	0'	7,390'	7,365'	NW SW 28-T7N-R64W	$1,915	$168,351	$0

Summary: Frac Nio C & Nio B

Supervisor: Baldwin / Ferguson

Time Log From	To	Hrs	
4:00	9:15	5:15	Finish MIRU HES iron & wellhead connection, Pressure test Robel 19-28, PJSM
9:15	11:30	2:15	Frac Robel 19-28 Nio C
11:30	13:15	1:45	HES swapping wells. Standby while Peak replaces top valve on 19-28
13:15	13:45	0:30	Pressure test to 6,800 psi, Max is 5,800 psi. KO 5,800 psi. Swapped rubber seal in 4" Iron before proceeding.
13:45	15:30	1:45	SIWP = 193 psi, Formation break at 4,978 psi and 6.7 bpm, Pump 500 gal. 15% HCL Acid
			Pump 15,414 gals FR pad at 4,772 psi and 39.8 bpm, Reverse step rate, SD
			ISIP = 3,439 psi, FG = 0.919 psi/ft, 1 min = 3,346 psi, 4 min = 3,276 psi, Leakoff = 70 psi/3 min
			Total Friction = 1,333 psi, NWB = 284 psi, Perf = 544 psi, WB = 505 psi, Perfs open = 17 holes
			Pump 35,154 gals FR pad at 4,995 psi and 50.1 bpm
			Pump 133,049 gals FR water with sand ramping from 0.35 ppg - 1.5 ppg 30/50 white at 5,540 psi and 55 bpm
			Ran 120bbl 0.25ppg dirty sweep then Cont to ramp due to gradual pressure increase.
			Ran 98bbl 0.50ppg dirty sweep then Cont to ramp again up to 1ppg to complete sand vol.
			Flush with 9,366 gals of FR water and 500 gal. 15% HCL Acid
			ISDP = 3,368 psi, FG = 0.909 psi/ft, 1 min = 3,295 psi, 4 min = 3,237 psi, Leakoff = 58 psi/3 min
			Avg pressure = 5,221 psi, Max pressure = 5,564 psi, Avg rate = 54.8 bpm, Max rate = 60 bpm
			180,841 gals FR Fluid, 127,302 gals SLF, 101,600 lbs 30/50 White, 4,330 BLTR
15:30	19:37	4:07	Down waiting for wind to die down & for wireline to perf Robel 19-28
19:37	20:31	0:54	Allied Wireline RIH to 7050' correlate with CBL w/ SJ @ 6,800' - 6,822'
20:31	20:36	0:05	Allied Wireline Set plug @ 7050' w/LT = 1,075lbs dropping to 1,025lbs
20:36	20:41	0:05	Allied Wireline Perforated from 7006' - 7026' 0.42" EHD w/ 4SPF
20:41	21:02	0:21	POOH to surface verified shots fired and plug is set.
21:02	22:53	1:51	Waiting on HES to finish stimulating Niobrara B on 19-28 Well.
22:53	23:03	0:10	HES pressure test to 6,512 psi. KO = 5800 psi. to 5850 psi. MP = 6800 psi.
23:03	23:03		HES Opening WH for Niobrara B formation w/ perforations @ 7006' - 7026'.
			SIWP = 1900 psi, Formation break at 4,552 psi and 4.5 bpm.
23:03	23:15	0:12	Pump 10,380 gals FR pad at 4937 psi and 53.5 bpm, Reverse step rate, SD
23:15	23:20	0:05	ISIP = 3,396 psi, FG = 0.913 psi/ft, 1 min = 3,292 psi, 4 min = 3,205 psi, Leakoff = 87 psi/3 min
			Total Friction = 1,394 psi, NWB = 91 psi, Perf = 307 psi, WB = 996 psi, Perfs open = 28.3 holes
23:20	23:59	0:39	Pump 65,502 gals FR pad at 5,354 psi and 59.9 bpm
			DCR CONT ON NEXT DAY
TOTAL HOURS:		19:59	

Perforation Record

Formation	DEPTH From	DEPTH To	PLUGS Frac Plug	PLUGS CIBP
Codell	7183	7197		
CIBP				7140
Nio C	7070	7090		
Nio B	7006	7026	7050	
Nio A	6906	6922	6980	

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	KB	4862'/4852'				10'	
							7169' KB

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6	0'	7,390'	7,365'	NW SW 28-T7N-R64W	$9,096	$166,436	$0

Summary

Supervisor: S. Anderson

Time Log From	To	Hrs	
14:05	15:53	1:48	Swap Allied WL from Robel 19-28 to Robel 12-28
			RIH GR/CCL/CBL, Log from 7140'-0', TOC at 230'.
15:53	17:15	1:22	RIH Set CIBP @ 7140'
			Perforate Niobrara C from 7070'-7090', 4 SPF, 56 shots, 0.42" EHD, 19 gr, 35.6" penetration, 120° phasing, slick gun
TOTAL HOURS:		3:10	

Perforation Record

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Codell	7183	7197		
CIBP				7140
Nio C	7070	7090		

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1	SN/NC	2 3/8"		EUE 8rd		1.4'	
	KB	4862'/4852'				10'	
							7169' KB