MARKUS PRODUCTION, INC.

Daily Completion Report

Date	Company	Well Name & Number	County	State	API Number	GL	KB
10/30/15	Markus Production, Inc.	Kettler #1-18	Weld	CO	05-123-11745	4886	4897

Report Day	TVD	TMD	PBTD	QtrQtr Sec-Twp-Rge	Daily Cost	Cumulative Cost	AFE Amount
1	7,535'	7,535'	7,447'	SWNW Sec 18-5N-66W	$3,300	$3,300	

Directions to Location
US 34 Bypass & 95th Ave. (a/k/a CR 25), 0.3 miles South, East into

Supervisor
Brad Bivens

Actual Operations Current 24 Hours
Move in Rig up

Proposed Operations Next 24 Hours

Time Log From	To	Hrs	Enter well info on this sheet, it will carry over to the remaining
12:00	15:00	0:00	Move in rig up RCWS rig #2, hook up pump and tank, Foster's delivered 130 bbls treated water
		TOTAL HOURS:	0:00

Perforation Record

Formation	DEPTH From	DEPTH To	PLUGS Frac Plug	PLUGS CIBP
CODL	7386	7396		

TUBING DESC. (Top to Bottom)

# Jts.	Desc.	Size	Grade	Thread	Weight	Length	Set @

MARKUS PRODUCTION, INC.

Daily Completion Report

Date	Company	Well Name & Number	County	State	API Number	GL	KB
11/2/15	Markus Production, Inc.	Kettler #1-18	Weld	CO	05-123-11745	4886	4897

Report Day	TVD	TMD	PBTD	QtrQtr Sec-Twp-Rge	Daily Cost	Cumulative Cost	AFE Amount
2	7,535'	7,535'	7,447'	SWNW Sec 18-5N-66W	$13,685	$16,985	

Directions to Location

US 34 Bypass & 95th Ave. (a/k/a CR 25), 0.3 miles South, East into

Supervisor

Brad Bivens

Actual Operations Current 24 Hours

Control well, release packer, POOH with prod tbg, change out tbg head, Hydrotest into hole with bit,scaper and tbg

Proposed Operations Next 24 Hours

Time Log From	To	Hrs	
7:00	7:30	0:30	Warm up rig, PJSM , well pressure TP 800 psi / CP 400 psi
7:30	8:30	1:00	RU pump and tank lines, blow down well to rig tank, control well with 20 bbls of treated water
8:30	9:00	0:30	Unflange tbg head, function test BOP, NU BOP
9:00	9:30	0:30	Release Arrowset packer, KB Oiltools on location to release packer
9:30	12:00	2:30	POOH with 234 jts of 2 3/8" tbg, Measuring 7349.15'SNNC and Arrowset packer , SNNC @ 7361.25' KB, EOT 7367.25
12:00	13:00	1:00	ND BOP, change out well head, install 5m well head, NU BOP
13:00	16:30	3:30	MIRU HS testers, RIH with 3 7/8" bit and scraper, Hydrotest tubing into hole to 6000 psi above slips, tested 158 jts, found
			hole @ Jt169, second hole @ jt 113
16:30	17:00	0:30	Secure well, SDFN
	TOTAL HOURS:	9:30	

Perforation Record

Formation	DEPTH From	DEPTH To	PLUGS Frac Plug	PLUGS CIBP
CODL	7386	7396		

TUBING DESC. (Top to Bottom)

# Jts.	Desc.	Size	Grade	Thread	Weight	Length	Set @

MARKUS PRODUCTION, INC.

Daily Completion Report

Date	Company	Well Name & Number	County	State	API Number	GL	KB
11/3/15	Markus Production, Inc.	Kettler #1-18	Weld	CO	05-123-11745	4886	4897

Report Day	TVD	TMD	PBTD	QtrQtr Sec-Twp-Rge	Daily Cost	Cumulative Cost	AFE Amount
3	7,535'	7,535'	7,447'	SWNW Sec 18-5N-66W	$9,761	$26,746	

Directions to Location
US 34 Bypass & 95th Ave. (a/k/a CR 25), 0.3 miles South, East into

Supervisor
Brad Bivens

Actual Operations Current 24 Hours
Finish hydrotesting tbg,

Proposed Operations Next 24 Hours

Time Log From	To	Hrs	
6:30	7:00	0:30	Warm up rig, PJSM, CP 0, TP 0
7:00	9:30	2:30	Finish Hydrotesting tbg into hole, found total of 2 holes and 3 crimped jts, replaced 5 jts of bad tbg meas - 157.06 with
			5 jts of good used tested tbg meas - 160.60
9:30	13:00	3:30	RIH with 235 jts of tbg, bit and scraper - meas - 4.65', tag fill @ 7379' KB, RU tbg swivel, use tongs to drill out fill, made
			approx 4', couldn't make anymore hole, call for power swivel, RU power swivel circulate down total of 238 jts of tbg to
			PBTD of 7447' KB, circulate 2x bottoms up, RD Power Swivel
13:00	15:00	2:00	LD 4 jts of tbg, POOH with 234 jts of 2 3/8" tbg, bit and scraper
15:00	17:00	2:00	RIH with 234 jts of 2 3/8" tbg and Model R compression packer, set @ 7355' KB, Load 4 1/2" annular, test 4 1/2" csg to
			1200 psi, braiden head pressure built to 600 psi, pressure dropped to 700 psi on 4 1/2" annular, tried to pressure up
			several time, hole took fluid @ 1200 psi @ 1/2 bbl/min , packer holding, no pressure on tbg, release pressure to rig tank
17:00	17:30	0:30	Release packer, Secure well, SDFN
	TOTAL HOURS:	11:00	

Perforation Record

Formation	DEPTH From	DEPTH To	PLUGS Frac Plug	PLUGS CIBP
Codell	7386	7396		

TUBING DESC. (Top to Bottom)

# Jts.	Desc.	Size	Grade	Thread	Weight	Length	Set @

MARKUS PRODUCTION, INC.

Daily Completion Report

Date	Company	Well Name & Number	County	State	API Number	GL	KB
11/4/15	Markus Production, Inc.	Kettler #1-18	Weld	CO	05-123-11745	4886	4897

Report Day	TVD	TMD	PBTD	QtrQtr Sec-Twp-Rge	Daily Cost	Cumulative Cost	AFE Amount
4	7,535'	7,535'	7,447'	SWNW Sec 18-5N-66W	$6,400	$33,146	

Directions to Location
US 34 Bypass & 95th Ave. (a/k/a CR 25), 0.3 miles South, East into

Supervisor
Brad Bivens

Actual Operations Current 24 Hours
Hunt for csg leak, isolate hole, establish rate, RIH with RBP and Packer to prep for squeeze

Proposed Operations Next 24 Hours

Time Log From	To	Hrs	
6:30	7:00	0:30	Warm up rig, PJSM, CP 0, TP 0
7:00	9:30	2:30	POOH with Model R packer and tbg to 3044' KB, set packer, pressure test annulus to 1200 psi, test failed, POOH with
			Model R packer and tbg to 2040' KB, set packer @ 2040' KB, pressure test annulus to 1200 psi, good test, continued to
			test annulus with packer between 2040' KB and 3044' KB, isolated hole to be between 2794' KB and 2857' KB, POOH with
			model R packer and tbg, established injection rate of 1 bbl/min @ 500 psi, with good returns to rig tank
9:30	14:00	4:30	RIH with 167 jts of tbg set RBP, set @ 5250' KB, POOH with 20 jts of tbg, dump 2 sx cement on RBP, Finish POOH with
			147 jts of tbg and retrieving head
14:00	15:00	1:00	RIH with Arrowset Model 32A tension packer with unloader and 92 jts of tbg to 2888' KB, set packer, pressure test down
			tbg to 2000 psi for 15 min, good test, release packer, POOH with 13 jts of tbg
15:00	15:30	0:30	Set packer with 79 jts of tbg @ 2480' KB, pressure test annulus to 1200 psi, good test
15:30	16:00	0:30	Secure well, SDFN
	TOTAL HOURS:	9:30	

Perforation Record					TUBING DESC. (Top to Bottom)							
	DEPTH		PLUGS		# Jts.	Desc.	Size	Grade	Thread	Weight	Length	Set @
Formation	From	To	Frac Plug	CIBP								

MARKUS PRODUCTION, INC.

Daily Completion Report

Date	Company	Well Name & Number	County	State	API Number	GL	KB
11/5/15	Markus Production, Inc.	Kettler #1-18	Weld	CO	05-123-11745	4886	4897

Report Day	TVD	TMD	PBTD	QtrQtr Sec-Twp-Rge	Daily Cost	Cumulative Cost	AFE Amount
5	7,535'	7,535'	7,447'	SWNW Sec 18-5N-66W	$15,863	$49,009	

Directions to Location
US 34 Bypass & 95th Ave. (a/k/a CR 25), 0.3 miles South, East into

Supervisor
Brad Bivens

Actual Operations Current 24 Hours
RU Cement Crew, Squeeze csg,

Proposed Operations Next 24 Hours

Time Log From	To	Hrs	
7:00	7:30	0:30	Warm up rig rig, PJSM, CP 0, BHP 0
7:30	13:00	5:30	RU Integrity Well Solutions, PJSM, pressure test lines to 3k psi, perform injection rate, 2 bbls min 500psi, pumped 10 bbls
			to estab circ, pump 300 sx of 15.8# class G cement @ 2 bbls/min, 61.4 bbls slurry, displace with 11.6 bbls of water, max
			pressure 150 psi, avg pressure 150 psi, left 3 bbls of cement in csg, 192', SWI, ISIP 130 psi, pressure held @ 130 for 45 min
			pumped .5 bbl fresh water, pressured up to 230 psi, held 210 psi for 45 min, Pumped .5 bbls fresh water, pressured up to
			800 psi, pressure dropped to 470, Pumped .5 bbls fresh water, pressured to 800 psi, dropped to 717 psi, SWI, RD Integrity
			Well solutions
13:30	14:00	0:30	Secure well, SD until 11/9/15 for cement to cure before drill out
	TOTAL HOURS:	6:30	

Perforation Record

Formation	DEPTH From	DEPTH To	PLUGS Frac Plug	PLUGS CIBP

TUBING DESC. (Top to Bottom)

# Jts.	Desc.	Size	Grade	Thread	Weight	Length	Set @

MARKUS PRODUCTION, INC.

Daily Completion Report

Date	Company	Well Name & Number	County	State	API Number	GL	KB
11/9/15	Markus Production, Inc.	Kettler #1-18	Weld	CO	05-123-11745	4886	4897

Report Day	TVD	TMD	PBTD	QtrQtr Sec-Twp-Rge	Daily Cost	Cumulative Cost	AFE Amount
6	7,535'	7,535'	7,447'	SWNW Sec 18-5N-66W	$6,600	$55,609	

Directions to Location
US 34 Bypass & 95th Ave. (a/k/a CR 25), 0.3 miles South, East into

Supervisor
Brad Bivens

Actual Operations Current 24 Hours
POOH with packer and tbg, RIH with bit and tbg, drill cement, test csg

Proposed Operations Next 24 Hours

Time Log From	To	Hrs	
7:00	7:30	0:30	Warm up rig rig, PJSM, CP 0, BHP 0, TP 0
7:30	9:00	1:30	Release Arrowset packer, POOH with 79 jts of tbg
9:00	10:30	1:30	RIH with 3 7/8" varel bit and 82 jts of tbg, tag fill @ 2571'
10:30	11:30	1:00	RU power swivel, pressure test csg to 500 psi for 15 min, good test
11:00	16:00	5:00	Drill cement from 2571' KB to 2857' KB, Circ 2 x bottoms up, RD Power swivel
16:00	17:00	1:00	Pressure test csg to 1000 psi for 15 min, dropped to 300 psi, BHP 0, didn't bleed pressure of for next test
			Pressure test csg to 1000 psi for 15 min, dropped to 375 psi, BHP 0, didn't bleed pressure of for next test
			Pressure test csg to 1000 psi for 15 min, dropped to 450 psi, BHP 0, bleed pressure off
17:00	17:30	0:30	Lay down 2 jts of tbg, Secure well, SDFN
	TOTAL HOURS:	11:00	

Perforation Record					TUBING DESC. (Top to Bottom)							
	DEPTH		PLUGS		# Jts.	Desc.	Size	Grade	Thread	Weight	Length	Set @
Formation	From	To	Frac Plug	CIBP								

MARKUS PRODUCTION, INC.

Daily Completion Report

Date	Company	Well Name & Number	County	State	API Number	GL	KB
11/10/15	Markus Production, Inc.	Kettler #1-18	Weld	CO	05-123-11745	4886	4897

Report Day	TVD	TMD	PBTD	QtrQtr Sec-Twp-Rge	Daily Cost	Cumulative Cost	AFE Amount
7	7,535'	7,535'	7,447'	SWNW Sec 18-5N-66W	$11,935	$67,544	

Directions to Location
US 34 Bypass & 95th Ave. (a/k/a CR 25), 0.3 miles South, East into

Supervisor
Brad Bivens

Actual Operations Current 24 Hours
Recheck hole in casing's location, move RBP uphole, RIH with tbg to spot resin squeeze

Proposed Operations Next 24 Hours

Time Log From	To	Hrs	
7:00	7:30	0:30	Warm up rig, PJSM, CP 10, TP 10, BHP 0
7:30	8:00	0:30	Pressure test csg to 1000 psi for 15 min, dropped to 280 psi, 30 min dropped to 245 psi, bleed pressure off
8:00	9:00	1:00	POOH with bit and tbg,
9:00	9:30	0:30	RIH with bit, scraper and 100 jts of tbg to 3134' KB
9:30	10:00	0:30	**POOH with bit, scraper and 100 jts of tbg**
10:00	11:00	1:00	RIH with 89 jts of tbg, HD packer , 6' tbg sub and retrieving head, set packer @ 2789' KB
11:00	11:30	0:30	Pressure test annular to 1000 psi for 15 min, good test, lost 20 psi, Pressure test csg down tbg to 1000 psi, dropped to
			300 psi in 5 min, test failed release packer
11:30	12:00	0:30	RIH with 2 more jts of tbg for a total of 91 jts of tbg to 2857' KB and set packer, @2857' KB
12:00	12:30	0:30	Pressure test csg down tbg to 1000 psi for 15 min, pressure dropped 50 psi, good test, pressure test annulus to 1000
			psi, pressure dropped to 300 psi in 5 min, bad test, release packer, Hole in csg between 2789' KB and 2857' KB
12:30	14:30	2:00	RIH with 167 jts of tbg, packer, 6' tbg sub and retrieving head, wash sand off of RBP, release RBP set @ 5250' KB
14:30	16:30	2:00	POOH 69 jts of tbg to 3073' KB, set RBP @ 3073' KB, POOH with 2 jts of tbg, test RBP to 1000 psi for 15 min, lost 300
			psi in 5 min, resett plug and packer 1 jts down, retest to 1000 psi, dropped 300 psi in 5 min, test failed, release packer POOH
			retrieve plug POOH with 99 jts of tbg, packer, sub, retrieving head and RBP
16:30	17:00	0:30	Secure well, SDFN
TOTAL HOURS:		10:00	

Perforation Record

Formation	DEPTH From	DEPTH To	PLUGS Frac Plug	PLUGS CIBP
CODL	7386	7396		

TUBING DESC. (Top to Bottom)

# Jts.	Desc.	Size	Grade	Thread	Weight	Length	Set @

MARKUS PRODUCTION, INC.

Daily Completion Report

Date	Company	Well Name & Number	County	State	API Number	GL	KB
11/11/15	Markus Production, Inc.	Kettler #1-18	Weld	CO	05-123-11745	4886	4897

Report Day	TVD	TMD	PBTD	QtrQtr Sec-Twp-Rge	Daily Cost	Cumulative Cost	AFE Amount
8	7,535'	7,535'	7,447'	SWNW Sec 18-5N-66W	$11,200	$78,744	

Directions to Location
US 34 Bypass & 95th Ave. (a/k/a CR 25), 0.3 miles South, East into

Supervisor
Brad Bivens

Actual Operations Current 24 Hours
RIH with RBP and packer, test RBP, POOH with packer, RIH with tbg, squeeze csg with resin

Proposed Operations Next 24 Hours

Time Log From	To	Hrs	
7:00	7:30	0:00	Warm up rig, PJSM, CP 0, TP 0, BHP 0
7:30	10:30		RIH with 93 jts of tbg, packer, 6' tbg sub and RBP, set RBP @ 2910' KB, LD 1 jt of tbg, pressure test RBP to 1000 psi for
			15 min, good test, no bleed off, POOH with 92 jts of tbg and packer
10:30	11:00		RIH with 89 jts of tbg open ended,EOT @ 2789' KB
11:00	14:00		**RU Integrity Well Solutions, pressure test to 2500 psi, pump 10 bbls of fresh water, pump 1.5 bbls of resin,**
			displace with 9.5 bbls of fresh water, shut in tbg head, squeeze total of 2 bbls of resin into csg leak, final pressure built to
			1000 psi, dropped to 650 psi, SWI, wait 24 hours for resin to fully cure
14:00	14:30		Secure Well, SDFN
TOTAL HOURS:		0:00	

Perforation Record

Formation	DEPTH From	DEPTH To	PLUGS Frac Plug	PLUGS CIBP
CODL	7386	7396		

TUBING DESC. (Top to Bottom)

# Jts.	Desc.	Size	Grade	Thread	Weight	Length	Set @

MARKUS PRODUCTION, INC.

Daily Completion Report

Date	Company	Well Name & Number	County	State	API Number	GL	KB
11/12/15	Markus Production, Inc.	Kettler #1-18	Weld	CO	05-123-11745	4886	4897

Report Day	TVD	TMD	PBTD	QtrQtr Sec-Twp-Rge	Daily Cost	Cumulative Cost	AFE Amount
9	7,535'	7,535'	7,447'	SWNW Sec 18-5N-66W	$9,454	$88,198	

Directions to Location
US 34 Bypass & 95th Ave. (a/k/a CR 25), 0.3 miles South, East into

Supervisor
Brad Bivens

Actual Operations Current 24 Hours
Pressure test csg, squeeze csg with block squeeze

Proposed Operations Next 24 Hours

Time Log From	To	Hrs	
10:30	11:00	0:30	Warm up rig, PJSM, CP 100, TP 100, BHP 0
11:00	11:30	0:30	Pressure test csg to 1000 psi , dropped to 200 psi in 2 min, test failed, bleed pressure off
11:30	12:30		RIH and tag plug with 3 1/2 jts of tbg, LD 1 jts of tbg, Circulate resin out of hole
12:30	15:00		RU Integrity Well Solutions, pressure test to 2500 psi, establish circ with 2 bbls of fresh water, pump 25 sx class G neat
			cement, 5.1 bbls of slurry weighing 15.8 #, dispace with 9.7 bbls, Lay down 12 jts of tbg, RU to reverse circ
			and clean cement out of tbg, squeeze cement, 1/4 bbl to 1000 psi, dropped to 500 psi, squeezed 1/4 bbl to 1234 psi,
			pressure held, pressure dropped to 1212 psi in 30 min, SWI, RD Integrity Well Soulutions
15:00	15:30		Secure Well, SDFN
TOTAL HOURS:		1:00	

Perforation Record

Formation	DEPTH From	DEPTH To	PLUGS Frac Plug	PLUGS CIBP
CODL	7386	7396		

TUBING DESC. (Top to Bottom)

# Jts.	Desc.	Size	Grade	Thread	Weight	Length	Set @

MARKUS PRODUCTION, INC.

Daily Completion Report

Date	Company	Well Name & Number	County	State	API Number	GL	KB
11/15/15	Markus Production, Inc.	Kettler #1-18	Weld	CO	05-123-11745	4886	4897

Report Day	TVD	TMD	PBTD	QtrQtr Sec-Twp-Rge	Daily Cost	Cumulative Cost	AFE Amount
10	7,535'	7,535'	7,447'	SWNW Sec 18-5N-66W	$6,000	$94,198	

Directions to Location
US 34 Bypass & 95th Ave. (a/k/a CR 25), 0.3 miles South, East into

Supervisor
Brad Bivens

Actual Operations Current 24 Hours
Drill out cement, test csg, make bit and scraper run, release RBP

Proposed Operations Next 24 Hours

Time Log From	To	Hrs	
7:00	7:30	0:30	Warm up rig rig, PJSM, CP 600, BHP 0, TP 600, bleed off pressure
7:30	8:30	1:00	POOH with 80 jts of tbg
8:30	9:00	0:30	RIH with 3 7/8" varel bit and 85 jts of tbg, tag fill @ 2665'
9:00	9:30	0:30	RU power swivel, pressure test csg to 1000 psi for 15 min, good test
9:30	13:00	3:30	Drill cement from 2665' KB to 2890' KB, Circ 2 x bottoms up, RD Power swivel
13:00	13:30	0:30	Pressure test csg to 1000 psi for 15 min, good test, no bleed off
13:30	14:30	1:00	POOH with 93 jts of tbg, bit sub and bit
14:30	15:30	1:00	RIH with bit, scraper and 92 jts of tbg, POOH with bit, scraper and 92 jts of tbg
15:30	17:00	1:30	RIH with retrieving head and 93 jts of tbg, circulate sand off of RBP, release RBP, POOH with RBP and 34 jts of tbg
17:00	17:30	0:30	Secure well, SDFN
	TOTAL HOURS:	10:30	

Perforation Record

Formation	DEPTH From	DEPTH To	PLUGS Frac Plug	PLUGS CIBP
CODL	7386	7396		

TUBING DESC. (Top to Bottom)

# Jts.	Desc.	Size	Grade	Thread	Weight	Length	Set @

MARKUS PRODUCTION, INC.

Daily Completion Report

Date	Company	Well Name & Number	County	State	API Number	GL	KB
11/16/15	Markus Production, Inc.	Kettler #1-18	Weld	CO	05-123-11745	4886	4897

Report Day	TVD	TMD	PBTD	QtrQtr Sec-Twp-Rge	Daily Cost	Cumulative Cost	AFE Amount
11	7,535'	7,535'	7,447'	SWNW Sec 18-5N-66W	$4,050	$98,248	

Directions to Location
US 34 Bypass & 95th Ave. (a/k/a CR 25), 0.3 miles South, East into

Supervisor
Brad Bivens

Actual Operations Current 24 Hours
POOH with RBP, RIH with prod tbg, broach tbg, RDMO

Proposed Operations Next 24 Hours

Time Log From	To	Hrs	
7:00	7:30	0:00	Warm up rig, PJSM, CP 0, TP 0
7:30	8:30		POOH with 60 jts of tbg and RBP
8:30	10:00		RIH and land production tbg as follows
			1 - 10' x 2 3/8" tbg sub
			234 jts of 2 3/8" j-55, 4.7# 8rd EUE J-55 tbg measuring 7349.44'
			SNNC, set @ 7371.84' KB, Codell Perfs @ 7386' to 7396' KB
10:00	10:30		ND BOP and flange up tbg head
10:30	11:30		RU 2 3/8" tbg broach, broach tbg to SNNC @ 7371', SWI with master valve
11:30	12:30		Rig down move off location
TOTAL HOURS:		0:00	

Perforation Record

Formation	DEPTH From	DEPTH To	PLUGS Frac Plug	PLUGS CIBP
CODL	7386	7396		

TUBING DESC. (Top to Bottom)

# Jts.	Desc.	Size	Grade	Thread	Weight	Length	Set @
1	tbg sub	2 3/8"x 10'		8 rd	4.7	10.00	21.00
234	tbg	2 3/8"	j-55	8rd	4.7	7349.44	7370.44
1	SNNC	2 3/8"				1.40	7371.84