

Well History

Well Name: State 5519 8-43

API 051231992400				Field Name Wattenberg	State CO	Well Configuration Type Vertical
Ground Elevation (ft	4,724.00 Original k	(B Elevation (ft) KB-Ground Distance 4,736.00		113/2000 00:00	Rig Release Date 3/16/2000 00:00	On Production Date 4/10/2000
Job						
Drilling - origing Job Category	nal, 3/13/2000 00:0	OO Primary Job Type	IStart Date	End Date	Objective	
Drilling		Drilling - original	3/13/2000	3/16/2000	Drill a new Codell produce	:F
Daily Operatio	ns		Summary			End Date
Oldit Date	. *		Outilitary			End bate
Initial Complet	ion, 3/16/2000 00:	00		-		
Job Category Completion/Wo	***************************************	Primary Job Type Initial Completion	Start Date 3/16/2000	End Date 4/30/2000	Objective Complete the Codell	
Daily Operatio		Initial Completion	3/10/2000	1 4/30/2000	Complete the Codell	·
Start Date			Summary			End Date
Job Category	ment, 12/8/2010 00	5:00 Primary Job Type	Start Date	End Date	Objective	·
Completion/Wo	kover	Fracture Treatment	12/8/2010	1/25/2011	Annular fill f/TOC-surface complete Niobrara Niobrar	
Daily Operatio Start Date	ns		Summary			End Date
12/8/2010		540 psi, ISCP-0 psi, MI&RU Ensign	WS Rig #301. ND			/H, 12/8/2010
	head and NU BOF	RT. Controll well w/30 bbls down to P. PU tag jts, ran in 129.88' and did Pulled 1-4', 1-6' sub & 218 jts=6,74	not tag fill. Lay dow	n tag jts, TOOH táll	ying 2 3/8" J-55 4.7# eue 8	Brd
12/9/2010	production tubing tw/ tools and KB w/ 10.5# 10 K WLTC psi f/ 10 minutes,	Pick Testers, PU RMOR 3 7/8" blato 6 K psi, blew 2 jts, all other tubin / 224 jts (no sand fill). Lay down 8 RBP, TIH out of derrick, set RBP @good test. Release pressure, pull 10 pump and lines, SI well and secure,	g tested. RD and re tag jts, TOOH to de ② 6,724.89' KB w/ 2 0 stands, dump 2 s	elease tester, PU tag rrick w/ 216 jts, lay 217 jts. Lay down 1	g jts, tagged PBTD @ 6,94 down tools. PU RMOR 4 1/ jt, load casing and test to 1,	2" ,500
					3 jts 0 psi. eeting, 2 11#	
12/13/2010	(Est.original TOC-4 4 1/2" 11.6# WLT break circulation, v	psi, MI&RU Superior Well Services above 3,300'), ran Gamma, V.D.L. C retrieving head, TIH out of derrick wash sand off plug, circulate tubing tration tubing float, lay down tools. ODFN.	, C.B.L. and CCL, f k, tag sand fill @6,7 clean. Release RB	ound good bond thr 09.23 RBP w/ 217 j P, TOOH laying dov	ough out, RD loggers. PU F ts, RU circulating equipmen vn 217 jts 2 3/8" production	nt and n tubing
12/14/2010	cased hole loggs to and 21.12" penetra packer to 8 K psi, leaks, replaced 2 c casing and test pa	RU Superior Well Services. PU 3 1/ o get on depth, perforate Codell f/6, ation, RD and release wireline. MI&I good test. TIH tallying and testing 2 collars, all other tubing tested good. cker to 1,000 psi f/10 minutes, goo and lines, SI well, RD&MO to J&L F	,768'-76' (8') 3spf, RU Pick Testers, P 7/8" N-80 6.5# eue RD tester and relea d test-no comunical	I20 degree phasing, U RMOR 4 1/2" 11. e work string (WS 3 ase, set packer @ 0	, 19 gram shots, .41" entry 6# 10 K AS1 casing packer 03).Tested 203 jts, found 6 6,538.14' KB w/ 203 jts, loa	hole r, test collars id
12/19/2010	below Codell perfs was loaded. ND fra 9 jts 2 7/8", TOOH Owens 4 1/2" 10K 1/8" CCL w/ 3 1/8' 24 shots, Niobrara	si, MI&RU Lightning Wire Line, run), RD and release wire line. MI&RU ac valve and NU BOP, release RM0 I to derrick w/194 jts and lay down t WLS CIBP, set CIBP @6,740' w/ 2 " select fire guns. Correlate open he "A" f/6,507'-6,509' 2 spf 120 degre , RD and release Superior, SI well a	DENSIGN RIG #301, DR 4 1/2" AS1 casi cools. MI&RU Super 2 sks cement on top ole loggs w/ cased le phasing w/ 3 1/8"	RU pump lines to W ng packer. Circulate ior Well Services, N o, pressure test CIBF nole loggs, perforate	/H, load tubing w/11 bbls, c e oil and gas out to RT. Lay U pack off, PU 3 1/8" CCL P to 1,700 psi, good test. PU e Niobrara "B" f/6,602'-6,610	asing down w/ J 3 o' 3spf
	-					



Well History

Well Name: State 5519 8-43

	000 NESE	Legal Location 8 5N 63W			Field Name Wattenberg		Configuration Typ
round Elevation (ft	4,724.00 On	ginal KB Elevation (ft) KB 4,736.00	-Ground Distance (ft)	2.00 Spud Date 2.00 3/1	3/2000 00:00	Rig Release Date On Produ	uction Date 4/10/2000
aily Operation	ons						
Start Date	100.0 141	ADU D'-I T	D 4 4 10 11 4 4 6 11 4 6 11	Summary			End Date
2/20/2010	derrick w/ 2 7 BOP, set pac	7/8" frac string, tested 194 j	is, had 2 collar leak 3' above top Niobrar	s, all other tub a perf) W/ 19	ing tested good, te 3 its, pack tubing h	to 8 K psi, good test. TIH out of st tubing hanger, good test. ND ead off, test packer to 1,500 psi, to SLW Ranch #32-7.	12/20/2010
/24/2011	bbls Claytrea		J BOP, release PKF	R, POOH layir	g down 2 7/8"work	own to FBT, control well w/30 string and tools, PU 3 7/8" cone KB, isolate well, SDFN.	1/24/2011
/25/2011	w/production circulated dov clean, POOH w/18' of tbg s	vn tagging cmt at 6730' KB	o' KB and tools w/21 and tools, drilled up new standard 2 3/ 55 EUE 8rd tbg - sn	4 jts, RU to o cmt and CIB 8" sn/nc, TIH	lean out and drill u P and chased to 6: w/production tbg, f	p cmt/CIBP, broke circulation and 940' KB and tools, rolled hole ND BOP, land tbg at 6751.48' KB	1/25/2011
	tegrity Test, 7	/15/2014 06:00 Primary Job Type	IStart Da	to I	End Date	I Objective	
b Category ompletion/Wo	orkover	Mechanical Integrity T		ite /15/2014	End Date 7/15/2014	Objective Run bit and scraper, set a RBP to	test the casing
aily Operatio	ons						
Start Date // 15/2014	because of sa		k tank, function test	BOP, control	well with 60 BBL, I	spotting in the equipment MIRU Pick testers, POOH 2 3/8 Id 1 hole, SI and secure well, SD.	7/15/2014
716/2014	production pip pipe, set RBF up to 500 psi pipe to the de secure well, S	e at 6487.18 KB with 209 jts recorded the test for 15 mi rrick, LD RBP, PU NC/SN, DD.	D, TOOH to derrick, b, LD 1 jt, circulated n, had a 8 psi gain RIH with production	LD bit and so oil and gas or in 15 minutes pipe from the	raper, PU STS's 4 ut, MIRU pick teste PU 1 jt, release the derrick, ran 90 jts	1/2 TC RBP, RIH with production rs, pressure tested csg and plug e plug, POOH with production in the hole down to 2794, Si and	7/16/2014
717/2014	land the tubin RU swab lubin at 2300 ft, mapsi, RD swab KB Sub 2 3/8 J-5 Sub 2 3/8 J-5 Sub 2 3/8 J-5 Z17 jts 2 3/8 NC/SN Total IFL at 2300 FFL at 2400 Made 64 BB final tbg psi-	g at 6756.02 KB with 217 jt icator, made a broach run (de 11 swab runs, recovered lubricator, close the well, ra 10.00 5 8.00 5 6.00 5 4.00 J-55 6726.42 1.60 6756.02 ft ft L of water small blow	s of 2 3/8 J-55 4.7 1.901") down to sea I 64 BBL, final fluid	1-8',1-6' and 1 at nipple, LD I level at 2400	-4' subs and NC/S broach, PU 2" swat	production pipe from the derrick, N, (11.98 above perfs.) ND BOP, cups, started swabbing, tag fluid tubing small blow and casing 500	7/17/2014
	final csg psi-						
		/31/2015 06:00					1
b Category	tegrity Test, 7		Start Da	te 31/2015	End Date	Objective Test Tubing, Set RBP, chart and te release RBP, install production tubi procedures	
b Category ompletion/Wo aily Operatio	tegrity Test, 7	/31/2015 06:00 Primary Job Type		31/2015	End Date	Test Tubing, Set RBP, chart and te release RBP, install production tubi	ng. MIT
dechanical Into the Category ompletion/Wo maily Operation Start Date /31/2015	rkover STP 1400 psi meeting, RU claytreat/Bioc 6,877.91', Bioc was landed at TIH wyroduc communicatio	/31/2015 06:00 Primary Job Type Mechanical Integrity T	v down through produre tested hard line: OP's, ND WH, NU II tbg to derrick w/ 21 neeting, RU Pick Te all jts tested good, ns of holes, TOOH	Summary duction equipres, blew well de BOP, unlander 7 jts 2 3/8" Jesters, PU ST RD tester, RD standing back	nment, SSCP 0 ps own to rig tank, cor d tubing, PU tag jts -55 EUE 8rd tbg, 1 S bit and scraper d circulation equipm w/ 30 jts tubing to	Test Tubing, Set RBP, chart and te release RBP, install production tubi procedures , MIRU Ensugn 313, held safety atrol well w/60 bbls , TIH w/ 4 jts, no tag @ -4', 1-6' and 1-8' subs, sn/nc, tbg ressed for 4 1/2" 10.5# casing,	



Well History

Well Name: State 5519 8-43

١	API	urface Legal Location			Field Name		State	Well Configuration Type
1	05123199240000	NESE 8 5N 63W			Wattenberg		CO	Vertical
1	Ground Elevation (ft)	Original KB Elevation (ft)	KB-Ground Distance (ft)	Spud Date		Rig Release Date	Or	Production Date
.	4,724	00 4,736.00	1:	2.00 3/13/200	0 00:00	3/16/2000	00:00	4/10/2000

Start Date		Summary		End Date			
/3/2015	SCP 0 psi. STP 0 psi, SSCP 0 psi, held safety m finished POOH w/187 jts of tbg to derrick, LD bit 6,469.55' KB and tools w/209 jts 10' out (37.45' a circulation, rolled hole for 1 hour rolling out all oil good test, released pressure.Si and isolated well, next days operations. Will wait until next day to pr notified of scheduled test. SDFN.	and scraper, PU STS' bove top of Niobrara t and gas, pressure tes shut and locked pipe	s 4 1/2" WLTC RBP, TIH w/production tbg, set ormation), LD 1 jt, RU circulation equipment, bled casing to 500 psi w/ rig pump, held for 15 n rams on BOP's, drained lines and pump, preparations.	RBP at roke nins, ared for			
/4/2015	SCP 0 psi, STP 0 psi, SSCP 0 psi, held safety meeting, open well to rig tank, MIRU Pick Testers, pressured casing to 500 psi, held and charted pressure for 15 mins, 3 psi pressure loss, good test, State Representative was not location to witness test, released presssure, PU 1 jts of tubing, latched onto RBP, released RBP, TOOH standing back to derrrick, LD tools, PU NC/SN, TIH with production tubing,ND BOP, land tog in WH 6,749.31' KB (18.69' above the Codell) w/217 jts plus 1-4', 1-6' and 1-8' subs, NU WH, did not dropped new PCS full port standing valve and broached to seatnipple w/1.901" broach, RU swab equipment.						
	ITP-0 psi ICP-0 psi IFL-1200' FFL-4300' Swabed back 80 bbls water FTP-blow FCP-50 psi Made 19 swab runs						
	isolate well, drained lines and pump, racked pump and tank, RDMOL.						
	Tbg detail: 217 jts 2 3/8" 4.7# J-55 EUE 8rd 1-4' 2 3/8" J" 4.7# J-55 EUE 8rd sub 1-6' 2 3/8" J" 4.7# J-55 EUE 8rd sub 1-8' 2 3/8" J" 4.7# J-55 EUE 8rd sub Seatnipple/notched collar	9.0' adj KB 6720.71' 4.0' 6.0' 8.0' 1.60'	9.0' 6729.71' 6733.71' 6739.71' 6747.71' 6749.31'				

FORM 21

Conditions of Approval, if any:

State of Colorado Oil and Gas Conservation Commission 1120 Lincoln Street, Suite 801, Denver, Coloredo 80203 (303) 894-2100 Env. (303)

FOR OGCC USE ONLY

	CO 1, Callest, Guestaub DUZ	03 1303) 884-210	J tax: (303) 894-21(19 LINGAS	1			
	MECHANICAL I	NTEGRITY T	EST					
Fill out Part II of this form if well tested is a permitted or panding injection well. Send original plus								
Duration of the pressure tos A pressure chart must account For production wells, test pressure chart must, test press For injection wells, test press A minimum 300 pai different Do not use the form if subm OGCC profession result but.	t must be a minimum of 15 min mpany this report if this test wa seame must be at a minimum lures must be at 300 paig or in ial pressure must be maintoine ining under provisions of Rule:	utes. s not witnessed by a C of 300 pag. dornum injection press d between the tubing (326 a. (1) B. or C.	PGCC representative. ture, whichever is great and tubing/ceeing annui	ier. Nuti prodeure,		_		
B. Pecters or bridge plugs, etc	, must be set within 250 feet of	the perforated interve	to be considered a va	lid test.		Com Attachm	plote t	he
OGCC Operator Number Name of Operator: PDC Ene			Contact Name	and Telephone	\neg	AMERIN	Oper Oper	3280 2280
Address: 3801 Carson Ave			Travis Yenne		Pv	cocure Chart	- Upu	OGLL
		90630	Mo: 970-506-9272			most Bend Leg		
	State:CO Zi		Fax: 970-506-9276			ocor Survey Inperatura Survey	-	
API Number: 05-123-10	9924 Field Name:	Vattenberg	Field Nur	nber:	\neg			
Well Name: State		Number:	8-43		- J-			
Location (QtrQtr, Sec, Twp, R	ing, Meridian): <u>NES</u>	E 5N-	632-8		-			
SHUT-IN PI	RODUCTION WEI	L D I	AL IEOGIALIA		=			
	ine Test	ا لسا كاما	NJECTION W	ELL Fa	cility (No.:	*	
5 -Year UIC Tes								
☐ Verification of R		Maintain SI/TA		☐ Reset Pac	ker			
	epairs LI Tubing/F	acker Leak	☐ Casing L	eak 🗆 c	ther (00	scribo)		
Describe Repairs:						Care Charles	·	· · · · · · · · · · · · · · · · · · ·
								· · · · · · · · · · · · · · · · · · ·
					O			
NA - Not Applicable	Wellbore Data at	lime Test		Use	when pa	ig Test riorations or		NA No in
Injection/Producing Zone(s)	Perforated Inte		pen Hole Interval:	ISOL	iled by br	idae alua ec	namont	Blue
Codell Nisbrara	6507-661	6768'-6778	•	Gri		or Cement F	Jug De	pth
			/A		769	. 55		
Tubing Size: T	ubing Depth:	THE R. P. LEWIS CO., LANSING, SALES,	/Annulus Test		NA			
23/8"	op Placer Depth: Multiple P			Multiple Packer	\$?			7
278	6461.78'	n/	A		YES	D NO	•	
		Test	Data		THE TELE			
Test Date Well Status Du	ring Test Date of Last Appr	oved MIT Casing F	ressure Before Test	Initial Tubing P	racquire.	Singl Tuble	- 0	
8/4/15 Shut Starting Casing Test Pressure			10 ,5C, 1	Das		Ø 2	Lines	ure
537 oc.	Casing Pressure - 5 Min.		1	ng Test Pressure	Pressur	e Loss or Ga	in Durin	no Test
	534 psi	534psi		1,251		3 25 /		
YES	y State Representative?	OG	CC Field Represe	ntative:				
				•				
Indicate method used for	re Channel Test cement integrity test,	Complete attach appropri	only if well is or ale records, cha	will be an inject	tion we	II.	hositta	ed.
☐ Tracer Survey	П	CBL or Equiva	alent			THE RESERVE OF THE RE	DITIMUS	u.
Run Date:	land.	Run Date:		☐ Temp	erature Data:	Survey		
hereby certify that the sta	dements made in this	form are to the	hart of	ode de la companya de	WING.			
Print Name: Chad	Sailar	The state of the s	pest of my Kuol	wedge, true, co	orrect, a	ind comple	ete.	
signed:		Title: Wo	rkove Ri	- Sugar	. 0.	A/	1-	
GCC Approval:			tte:	g Juperus		1/1/	13	THE PERSON NAMED OF
			vo.		Date:			

Pick Testers Sterling,CO 80751

Guy Dove 970-520-2769

State Lease 5519 # 43-8

Chad Sailors

M.I.T.

NESE 5N-63W-8

API # 05-123-19924

Interval:	60	Seconds	
DataPoint	LogDate	LogTime	2-P PSI
0		8:18:52 AM	537
1		8:19:52 AM	536
2		8:20:52 AM	536
3		8:21:52 AM	534
4		8:22:52 AM	534
5		8:23:52 AM	534
6		8:24:52 AM	534
7		8:25:52 AM	534
8	8/4/2015	8:26:52 AM	534
9		8:27:52 AM	534
10		8:28:52 AM	534
11		8:29:52 AM	534
12		8:30:52 AM	534
13		8:31:52 AM	534
14		8:32:52 AM	534
15		8:33:52 AM	534

