TAN YEAR	CASCAR MAYINAL GAS CORPORATION RANGEMENT RANGEMENT CAS CORPORATION																						
phones:		WYCHOLT SATES	PARTITION	BURNES STATES	ARTICL TORNE SATISFA	TOTAL SERVICE TIMES NOTICE	MARKET REPRESENTATION	WHEN ME	AMPROPAGE SEES			MARKET LES	THE RESIDENCE THERE SHOWS	OF DESIGNATION NAME AND ADDRESS.	PRINCIPLE PRINCIPLE AND	PROBLEM SERVICE	WAS TRACKS THE	UNIT HER	US SERVICED A SINK	COMPANY OF STREET TO STATE SAFE	NAME AND ADDRESS OF	THE RESIDENCE ASSESSMENT	LAURE WINDS MARKET TO UN
	Anal									NAME OF TAXABLE PARTY.	1000												
Ballat	And															Mile	N. 10.0						
Ballat	Asset															9818	Name .	100					ma.
Bolist	Acut		-								**					9819	No. Alexander	***					ma.
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Ballet No.	And And	N/INDA	-						2.7	10000	1000			100	1807	900	1000	200	100		100	100	- MA
Serie Seri	And	N/10/EB				98.9				NAME OF TAXABLE PARTY.	100						NAME OF TAXABLE PARTY.	9.00	100		***	***	
Serie Seri	And	DOLD.								1000								100				100	
No. No. 1	Asset	NUMBER .	- 10	1676		1000				THE REAL PROPERTY.	rene		F1.80	0.0			THE TOTAL	200	100		1.0	100	100
Min No.	And	Scitional				460				90.00	N. M. M.				181.00		10.00	- 10					
Selection Select	And And	NAME OF THE PARTY	-	1988	-	400.4	100	100	100	NAME AND ADDRESS OF THE PARTY O	1000		THE R. L.	***	180		1000	100			1.0	100	100
Today a box	And .	Police of the Control					7.004	100	NO.	NAME OF TAXABLE PARTY.	NA.		100	170	100	700	5700	700			10	107	170
Colonia Str. Brook State State State State	Asset	TO BUILDING WATER					200	1000	100.00	1000	PRE	-			-	7917		107		470	4.00	1.07	100
Colores Sci. Procedure Services Services	Anne	SOURCE COME.					2.00	100.0	No. or	DARK	MARK T			100	1,000	Mile	NORTH TOTAL	100	100			1.07	
Colores Str. Procedure to Sales Section	And	TO BUILDING WATER	-			100	200	1000	100.00	*****	F1.676	-	100		WWW	100	-	200	***			7.00	100
Colores Sci. Procedure Services Services	And	SOMEON CONTRACTOR					2.00	100.0	No. or	NO. NO.	1.65					1911		100				1.07	100
Constitute the Affront Security Television		NO. But AND WATER WAY					799			No.	NAME					W.C	No. or	W/50	100				
Constructed Million State Clark Code	Anne	NO. Res. Soc. P. Chees					100		100	No.	Mary				40	900	No. o	800	100			1.00	
	Asset	Michael Ann Williams			-		***	100	***	NAME OF TAXABLE PARTY.	ner.		178	178	10.00	wa		9/50	100	100			
Extraction Co.	And	Trond administrations.									NAC AL							100	100		10.00	10.00	
Enth-States ST	Asset	No contraction to a community of the contraction of	-			118	100		100	1000	NO. OF CO.	-	2.0	140	1800	10.0		100		476	10.00	H 75	
Entrance Co.	Anne	Sciedadischebenson								No.	NORTH TOTAL				1804			100			10.00	875	
End-Seatt TV	And	No contraction to a community of the contraction of								NAME OF TAXABLE PARTY.	ALC: U	-	7.00	100	17030	10.0	100.0	100			10.00	H 75	
Martin Schoolschaller, CE Transparer	And	DOMESTIC D					F 565	100.0	No.	NAME OF TAXABLE PARTY.	100				1,000	1000	Name of the last o	100	100		100	4.00	
Flor Yearne	Asset	THE R. LEWIS CO.	-	MAN .		THE				*****	****					80	No. eco.	***		496		***	140
the College College College and Artist State College Co.	And to	A ROAD THE STREET, MICHIGAN PROPERTY AND THE ADDRESS AND THE					100	100	100.00	*****	988679					1000		100			4.00	***	
and the financial property and the party of the contract of th	Anne In	And between Monocotti Administration and Atti					100	MAN	Marie	NAME OF TAXABLE PARTY.	N/N/A		rn.	100	ARCH	1000	95,000		100			1.00	
the College College College and Artist State College Co.		A ROAD THE STREET, MICHIGAN PROPERTY AND THE ADDRESS AND THE					100	900	MACH.		200.0		100	198	140.00	1000		100				***	
SA Place No charles for	And	A SHE AND READ PROPERTY.									PRE					100	Name .	100					
THE PERSON NAMED IN COLUMN TWO	Asset	SAME AND RESIDENCE					1000	867	100		No.		100		160	****		***	***			100	140
modition date to folia	Anne	Production and Production					****	988	100.0	****	PM RO	-	73.6	13.00	and a	100	No. of Contract	107				107	
ROMANDASON.	Anne	ROAD CHINESE WAS DOD.					200	100.0	100.0	No.	1000				100	Mile	100.00	100	100			100	
ROMENO SERVICES	And	Production and Production				200	****	WEST	100	No. or o	NO. THE .	-	ALC: N	H10	2004	100	No. com	100		440.	10	840	140
ROMANDASON.	And	ROAD CHINESE WAS DOD.					200	MALE	100.07	NO. OR AS	No. Alexander		457	AUT.	1967	Mile	N. State	100			1.0	100	
THE RESIDENCE OF THE PURPOSE	Asset	No. 1 No. 6 Teachers (Microsco, PR)	-				1000	97.0	979	100700-0	99794			***	1807	9819	99,000	9100	240			***	
THE PROVINCE WITHOUT PROPERTY.	Anne	Ser 1 Se 5 Transport Street, PRI					200	974	974	95.000					140.00	9819	Name of Street	9100	***			100	
Machine Rodella III Sales	Asset	No. and Published							THE REAL PROPERTY.														
	Asset																						
Machine Service Whether	Anne																						
		With the Colon Col						THE R	100	THEFT	967979		Total		445		Name of Street	900					

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## CASCADE NATURAL GAS CORPORATION

## 2016 INTEGRATED RESOURCE PLAN

## BASECASE - MEDIUM FORECAST - AVERAGE WEATHER

## 45 YEAR RESOURCE SUMMARY COSTS - MELDED COST PER THERM

	YEAR	IRP ANNUAL PORTFOLIO COST PER THERM (PV)*	NOMINAL COST PER THERM	PV OF RESOURCE PORTFOLIO COST/THERM	NON ENERGY BENEFIT	PORTFOLIO COSTS WITH CONSERVATION CREDIT	COST- EFFECTIVENESS LIMIT
2017	1	\$0.50	\$0.53	\$0.53	5%	\$0.5524	\$0.58
2018	2	\$0.48	\$0.53	\$1.05	5%	\$1.1038	\$0.59
2019	3	\$0.46	\$0.52	\$1.58	5%	\$1.6548	\$0.6
2020	4	\$0.44	\$0.52	\$2.10	5%	\$2.2029	\$0.61
2021	5	\$0.43	\$0.54	\$2.63	7.5%	\$2.8317	\$0.64
2022	6	\$0.43	\$0.56	\$3.20	7.5%	\$3.4349	\$0.66
2023	7	\$0.41	\$0.56	\$3.75	7.5%	\$4.0334	\$0.68
2024	8	\$0.41	\$0.58	\$4.33	7.5%	\$4.6584	\$0.7
2025	9	\$0.40	\$0.59	\$4.92	7.5%	\$5.2915	\$0.72
2026	10	\$0.39	\$0.60	\$5.52	10.0%	\$6.0701	\$0.75
2027	11	\$0.38	\$0.61	\$6.13	10%	\$6.7453	\$0.78
2028	12	\$0.38	\$0.64	\$6.77	10%	\$7.4511	\$0.8
2029	13	\$0.37	\$0.65	\$7.42	10%	\$8.1642	\$0.83
2030	14	\$0.37	\$0.68	\$8.10	10%	\$8.9121	\$0.85
2031	15	\$0.37	\$0.71	\$8.81	12.5%	\$9.9081	\$0.9
2032	16	\$0.36	\$0.71	\$9.52	12.5%	\$10.7078	\$0.93
2033	17	\$0.36	\$0.75	\$10.27	12.5%	\$11.5494	\$0.96
2034	18	\$0.35	\$0.76	\$11.02	12.5%	\$12.3993	\$0.99
2035	19	\$0.34	\$0.77	\$11.79	12.5%	\$13.2671	\$1.02
2036	20	\$0.33	\$0.79	\$12.59	12.5%	\$14.1596	\$1.06
2037	21	\$0.32	\$0.80	\$13.39	15%	\$15.3957	\$1.11
2038	22	\$0.31	\$0.81	\$14.20	15%	\$16.3263	\$1.15
2039	23	\$0.30	\$0.82	\$15.01	15%	\$17.2662	\$1.18
2040	24	\$0.29	\$0.83	\$15.84	15%	\$18.2156	\$1.22
2041	25	\$0.28	\$0.83	\$16.67	15%	\$19.1744	\$1.25
2042	26	\$0.27	\$0.84	\$17.52	17.5%	\$20.5807	\$1.31
2043	27	\$0.26	\$0.85	\$18.37	17.5%	\$21.5801	\$1.35
2044	28	\$0.26	\$0.86	\$19.23	17.5%	\$22.5894	\$1.38
2045	29	\$0.25	\$0.87	\$20.09	17.5%	\$23.6089	\$1.42
2046	30	\$0.24	\$0.88	\$20.97	17.5%	\$24.6385	\$1.45
2047	31	\$0.23	\$0.89	\$21.85	20%	\$26.2248	\$1.52
2048	32	\$0.22	\$0.89	\$22.75	20%	\$27.2975	\$1.56
2049	33	\$0.22	\$0.90	\$23.65	20%	\$28.3809	\$1.6
2050	34	\$0.21	\$0.91	\$24.56	20%	\$29.4752	\$1.64
2051	35	\$0.20	\$0.92	\$25.48	20%	\$30.5804	\$1.68
2052	36	\$0.20	\$0.93	\$26.41	20%	\$31.6966	\$1.72
2053	37	\$0.19	\$0.94	\$27.35	20%	\$32.8241	\$1.76
2054	38	\$0.18	\$0.95	\$28.30	20%	\$33.9627	\$1.8
2055	39	\$0.18	\$0.96	\$29.26	20%	\$35.1128	\$1.84
2056	40	\$0.17	\$0.97	\$30.23	20%	\$36.2744	\$1.88
2057	41	\$0.17	\$0.98	\$31.21	20%	\$37.4476	\$1.92
2058	42	\$0.16	\$0.99	\$32.19	20%	\$38.6325	\$1.96

2059	43	\$0.15	\$1.00	\$33.19	20%	\$39.8293	\$2.01
2060	44	\$0.15	\$1.01	\$34.20	20%	\$41.0380	\$2.05
2061	45	\$0.14	\$1.02	\$35.22	20%	\$42.2588	\$2.1

Cascade's Long Term Real Discount Rate:	4.43%	
IRP Discount Rate :	4.43%	
Years 21-45 Escalation:	2.00%	(EIA Inflation Rate)