

Appendix 2. Spreadsheet with well names and data for Wasatch Formation, Rulison Field

Well Identification				Production Data - First Sample					Production Data - Second Sample					2nd / 1st Sample	Perforation Data								Location																			
API	Lease Name	Well Number	Operator	Year	Months	Oil Average (bbl/day)	Gas Average (mcf/day)	Water Average (bbl/day)	Year	Months	Oil Average (bbl/day)	Gas Average (mcf/day)	Water Average (bbl/day)	Gas	Top Perforation Depth (ft)	Bottom Perforation Depth (ft)	Number of Perforations	Number of Intervals	Reference Elevation (ft)	Top Perforation Elevation (ft)	Bottom Perforation Elevation (ft)	Perforation Interval (ft)	Section	Township	Range	Latitude	Longitude															
05045062560000	CLOUGH	103	NORTHWEST EXPL CO	1990	JanFebMar	--	74.57	--	1995	JanFebMar	--	68.24	--	0.92	1543	2501	20	1	5679	4136	3178	958	16	6S	94W	39.527429	-107.89634															
05045062050000	CLOUGH	104	NORTHWEST EXPL CO	1990	AprMayJune	--	77.97	--	1995	AprMayJune	--	42.40	--	0.54	2244	2526	19	1	5508	3264	2982	282	16	6S	94W	39.521239	-107.89071															
05045062320000	CLOUGH	108	NORTHWEST EXPL CO	1987	OctNovDec	--	59.99	--	1992	OctNovDec	--	41.08	--	0.68	1719	2032	--	1	5325	3606	3293	313	14	6S	94W	39.522239	-107.849619															
05045062710000	CLOUGH	111	NORTHWEST EXPL CO	1991	JanFebMar	--	112.30	--	1996	JanFebMar	--	60.99	--	0.54	1850	2834	20	1	5296	3446	2462	984	21	6S	94W	39.506329	-107.89731															
05045062300000	CLOUGH	113	NORTHWEST EXPL CO	1988	AugSepOct	--	211.25	--	1993	AugSepOct	--	136.21	--	0.64	995	2154	20	1	5431	4436	3277	1159	21	6S	94W	39.508409	-107.88746															
05045062660000	CLOUGH	114	NORTHWEST EXPL CO	1988	JanFebMar	--	218.25	--	1993	JanFebMar	--	146.03	--	0.67	1622	2019	25	1	5900	4278	3881	397	21	6S	94W	39.515929	-107.89079															
05045062290000	CLOUGH	115	NORTHWEST EXPL CO	1988	SepOctNov	--	88.87	--	1993	SepOctNov	--	59.26	--	0.67	1838	2476	20	1	5699	3861	3223	638	22	6S	94W	39.515159	-107.88024															
05045062580000	CLOUGH	119	NORTHWEST EXPL CO	1987	OctNovDec	--	55.54	--	1992	OctNovDec	--	27.19	--	0.49	1660	2947	20	1	5606	3946	2659	1287	11	6S	94W	39.537039	-107.861399															
05045062700000	CLOUGH	134	NORTHWEST EXPL CO	1988	SepOctNov	--	141.18	--	1993	SepOctNov	--	96.22	--	0.68	1520	2235	15	1	5500	3980	3265	715	20	6S	94W	39.506219	-107.90664															
05045062770000	CLOUGH	136	NORTHWEST EXPL CO	1991	FebMarApr	--	105.54	--	1996	AprMayJune	--	73.73	--	0.70	1126	2206	--	1	5556	4430	3350	1080	20	6S	94W	39.513529	-107.918941															
05045062980000	CLOUGH	139	NORTHWEST EXPL CO	1987	OctNovDec	--	72.35	--	1992	OctNovDec	--	47.39	--	0.65	1289	2215	20	1	5386	4097	3171	926	20	6S	94W	39.505119	-107.915801															
05045066280000	CLOUGH	14-22-W	FINA OIL & MIN CO	1994	JanFebMar	--	57.11	--	1999	JanFebMar	--	28.44	--	0.50	1454	1490	16	1	5264	3810	3774	36	22	6S	94W	39.506639	-107.87861															
05045066390000	CLOUGH	3-28	FINA OIL & MIN CO	1993	FebMarApr	--	168.55	--	1998	MayJuneJuly	--	91.07	--	0.54	1510	1550	29	1	5273	3763	3723	40	28	6S	94W	39.501719	-107.89873															
05045066130000	CLOUGH	RW-3-27	BARRETT ENERGY CO	1992	JulyAugSep	--	120.84	--	1997	JulyAugSep	--	71.53	--	0.59	1351	1578	18	1	5370	4019	3792	227	27	6S	94W	39.491779	-107.88135															
05045066120000	CLOUGH	W-86-29	BARRETT ENERGY CO	1992	JanFebMar	--	284.35	--	1997	JanFebMar	--	130.76	--	0.46	1324	1662	20	1	5235	3911	3573	338	29	6S	94W	39.499169	-107.90775															
05045068800000	COOK	RW-4-28	BARRETT RES CORP	1998	JulyAugSep	--	75.79	--	2003	JulyAugSep	--	45.46	--	0.60	1304	1670	20	1	5409	4105	3739	366	28	6S	94W	39.493839	-107.89684															
05045068840000	COOK	RW-5-29	BARRETT RES CORP	1998	AugSepOct	--	59.24	--	2003	AugSepOct	--	34.63	--	0.58	1635	1670	20	1	5294	3659	3624	35	29	6S	94W	39.494549	-107.90448															
05045067400000	DOE FEDERAL	19-17-W	FINA OIL & MIN CO	1994	MarAprMay	--	33.75	--	1999	MarAprMay	--	25.44	--	0.75	1672	2120	62	2	5499	3827	3379	448	17	6S	94W	39.522499	-107.906031															
05045066330000	DOWNING	24-22	BONNEVILLE FUELS	1993	SepOctNov	--	49.85	--	1998	SepOctNov	--	30.75	--	0.62	1754	2082	57	2	5665	3911	3583	328	24	6S	94W	39.512789	-107.841109															
05045066470000	DOWNING	25-21-A	BONNEVILLE FUELS	1993	AugSepOct	--	28.00	--	1998	AugSepOct	--	21.90	--	0.78	2124	2169	30	1	5931	3807	3762	45	25	6S	94W	39.501114	-107.839268															
05045062550000	FED RULISON	118	NORTHWEST EXPL CO	1987	OctNovDec	--	63.10	--	1992	OctNovDec	--	40.26	--	0.64	2055	2845	20	1	5546	3491	2701	790	11	6S	94W	39.535599	-107.854399															
05045065760000	FEDERAL	W-42-29	BARRETT ENERGY CO	1996	AugSepOct	--	173.35	--	2001	AugSepOct	--	104.68	--	0.60	1769	1819	35	1	5259	3490	3440	50	29	6S	94W	39.500019	-107.917101															
05045065800000	HAYNES-HARRIS	27-43	BONNEVILLE FUELS	1993	SepOctNov	--	36.12	--	1998	SepOctNov	--	29.86	--	0.83	1404	1413	27	1	5281	3877	3868	9	27	6S	94W	39.494439	-107.868909															
05045062220000	LANGSTAFF	109	NORTHWEST EXPL CO	1992	JuneJulyAug	--	96.94	--	1997	JuneJulyAug	--	54.37	--	0.56	1725	2316	20	1	5556	3831	3240	591	16	6S	94W	39.520089	-107.89949															
05045066340000	LOUTHAN	34-32	BONNEVILLE FUELS	1993	AugSepOct	--	70.96	--	1998	AugSepOct	--	45.54	--	0.64	1440	1512	35	1	5410	3970	3898	72	34	6S	94W	39.48301	-107.872589															
05045066380000	MACKLEY	34-12	BONNEVILLE FUELS	1993	OctNovDec	--	84.47	--	1998	OctNovDec	--	43.80	--	0.52	1459	1551	26	1	5360	3901	3809	92	34	6S	94W	39.48402	-107.880859															
05045062540000	MCNARY	107	NORTHWEST EXPL CO	1990	OctNovDec	--	35.84	--	1996	JanFebMar	--	34.22	--	0.95	1748	2611	20	1	5813	4065	3202	863	15	6S	94W	39.527769	-107.88018															
05045065560000	MEAD	23-44	BONNEVILLE FUELS	1992	MarAprMay	--	125.59	--	1997	MarAprMay	--	68.88	--	0.55	1778	1848	30	1	5583	3805	3735	70	23	6S	94W	39.506869	-107.850549															
05045065700000	MEAD	24-14-W	BONNEVILLE FUELS	1992	FebMarApr	--	28.33	--	1997	FebMarApr	--	18.24	--	0.64	2003	2033	--	1	5763	3760	3730	30	24	6S	94W	39.507099	-107.841869															
05045065670000	MOORE	27-42	BONNEVILLE FUELS	1992	AprMayJune	--	90.40	--	1997	AprMayJune	--	57.04	--	0.63	1370	1430	24	1	5264	3894	3834	60	27	6S	94W	39.499339	-107.867169															
05045066570000	DOE	1-W-17	US DEPTMNT OF ENRGY	1993	AugSepOct	--	175.78	--	1998	JulyAugSep	--	125.63	--	0.71	2318	2372	60	1	5766	3448	3394	54	17	6S	94W	39.519359	-107.919101															
05045066580000	DOE	1-W-19	US DEPTMNT OF ENRGY	1996	FebMarApr	--	43.21	--	2001	FebMarApr	--	18.49	--	0.43	2318	2331	28	1	5741	3423	3410	13	19	6S	94W	39.514109	-107.925161															
05045066550000	DOE	1-W-9	US DEPTMNT OF ENRGY	1993	JanFebMar	--	126.75	--	1998	JanFebMar	--	69.74	--	0.55	2370	2448	94	1	5855	3485	3407	78	9	6S	94W	39.534129	-107.900691															
05045065590000	PEARSON	26-12	BONNEVILLE FUELS	1992	MayJuneJuly	--	62.75	--	1997	MayJuneJuly	--	31.59	--	0.50	1410	1475	15	1	5303	3893	3828	65	26	6S	94W	39.498629	-107.863169															
05045060120000	RULISON FEDERAL	35-94	AUSTRAL OIL CO INC	1989	OctNovDec	--	79.56	--	1994	OctNovDec	--	61.22	--	0.77	1528	1560	33	1	5551	4023	3991	32	35	6S	94W	39.48449	-107.862379															
05045062280000	VASSAR HEATH	130	NORTHWEST EXPL CO	1990	MarAprMay	--	96.96	--	1995	MarAprMay	--	71.70	--	0.74	1482	2206	20	1	5298	3816	3092	724	28	6S	94W	39.501489	-107.88918															
05045065610000	YUBERG	23-24	BONNEVILLE FUELS	1992	FebMarApr	--	88.69	--	1997	FebMarApr	--	56.81	--	0.64	1646	1680	30	1	5489	3843	3809	34	23	6S	94W	39.505449	-107.856589															
05045061790000	CLOUGH	1	NORTHWEST EXPL CO	1992	FebMarApr	--	77.26	--	1997	FebMarApr	--	44.59	--	0.58	1159	1903	10	1	5557	4398	3654	744	15	6S	94W	39.519969	-107.867689															
EXPLANATION				STATISTICS																																						
Lease Name, Well Number, Latitude, and Longitude from Colorado Oil and Gas Conservation Commission				minimum					28.00					18.24	0.43								995.00					1413.00	5235.00								3264.00					2462.00
				maximum					284.35					146.03	0.95								2370.00					2947.00	5931.00								4436.00					3991.00
Production data derived from data provided by IHS Energy				median					78.76					50.88	0.63								1628.50					2057.50	5499.50								3869.00					3506.50
Perforation data from IHS Energy				geometric mean					82.15					51.31	0.62								1612.28					1994.91	5502.26								3850.79					3445.92
				arithmetic mean					96.09					59.35	0.63								1645.16					2039.18	5505.82								3860.66					3466.63
				standard deviation					57.56					33.59	0.12								337.37					432.00	201.48								279.39					369.90
				count					38.00					38.00	38.00								38.00					38.00	38.00								38.00					38.00
				minimum					28.00					18.24																												
				1st quartile					59.43					34.32																												
				median					78.76					50.88																												
				3rd quartile					118.71					71.08																												
				maximum					284.35					146.03																												