

Wells in the Luke Basin used for geologic evaluation of CO2 storage

Well Type	Well ID	Other ID	Year Completed	Cadastral Location	Basin	Elevation (ft)	Elevation (m)	Well Depth (ft)	Well Depth (m)	UTM-E NAD83 12N	UTM-N NAD83 12N	Log Type	Note
OG	912	Copper Eagle Gas 1-12 Kakerlee	2002	B(02-02)12DAD	Luke	1,088	332	8,334	2,540	369,006	3,710,608	D, BHCS,CBL(3),IEL(2),ML, MUD,NFD(2)	Has mud log, but no drillers log. Very low resolution report on formation in OG0911, pg 89.
OG	911	Copper Eagle Gas 1-19 SunCor	2002	B(02-01)19AAB	Luke	1,053	321	8,307	2,532	370,342	3,708,388	D, LATL(2), ML(2), MUD, NFD(2)	Has mud log, but no drillers log. Very low resolution report on formation in OG0911, pg 89.
OG	877	Arrowhead Oil & Gas / 32-23 SunCor	1992	B(02-01)23ACC	Luke	1,032	315	6,650	2,027	376,445	3,707,738	D,CNL, DLL(2), MUD	brief drilling summary on pg 24 of 0877.pdf
OG	909	Copper Eagle Gas 1-24 SunCor	2002	B(02-02)24CCC	Luke	1,064	324	6,053	1,845	367,561	3,707,038	D, BHCS(2), ECS,ELAN(2), FMI,IEL,ML,MUD(2), NFD(2)	More detailed lithologic description in 0909.pdf. (pg 12-16)
OG	908	SunCor 1-2	2001	B(02-01)02CDA	Luke	1,080	329	5,130	1,564	376,125	3,711,858	D,DSI,LATL,NFD	Formation top summary in 0908.pdf (pg. 2)
OG	7-20	Robertson, J.J. 2 Wittmann	1948	B(05-05)33BAA	Luke	1,627	496	4,970	1,515	353,745	3,734,208	D	
OG	803	Tri Oil 78-28 State	1982	B(05-03)28DD	Luke	1,613	492	4,536	1,383	354,419	3,734,388	D,BHCS,CWL,DIFL, NFD	
OG	527	Morton (SW) Salt / 1 Roach-Baker	1969	B(02-01)02CC	Luke	1,085	331	4,503	1,372	375,773	3,711,550	CBL,CCL,CDL, DILL,SNP	No lithology log. Salt encountered at 880 ft
OG	866	Bob James Drilling / 01-19 SunCor	1988	B(02-01)19AAB	Luke	1,051	320	4,000	1,219	370,384	3,708,388	D,BHCS,DLL,MUD,SA MP	
OG	773	Salt R.Basin Fletcher 1 Federal	1981	B(05-03)34BCC	Luke	1,600	488	3,980	1,213	354,820	3,733,558	DIGL, DIGL1, MUD	No drillers log. Log depths and lithology approximated from Rauzi, 1991 (in OG files)
OG	7-01	Peoples Gas & Oil 1 Gardiner	1945	A(01-03)02DDC	Luke	1,118	341	3,500	1,067	405,437	3,702,158	D,SAMP	See section CC' in Reynolds and Bartlett, 2002
OG	548	Morton (SW) Salt / 2 Roach-Baker	1971	B(02-01)02CCB	Luke	1,085	331	3,425	1,044	375,640	3,712,098	D,CBL,CCL,IFS(2),PTN ,TDT	
OG	7-17	Tannehill / 1 Beardsley	1923	B(04-02)25ADB	Luke	1,305	398	3,350	1,021	369,139	3,725,618	D,SAMP(2)	More detailed drill log in report (report used in Borehole wells is condensed report in file)
OG	627	AmeriGas (Cal-Gas) / 2 Roach-Baker	1974	B(02-01)02BCD	Luke	1,087	331	3,210	978	375,658	3,712,438	D, CAL(3), CBL,CDL(2), GRN,IFS(2), TL(2), VRT(2)	
OG	617	AmeriGas (Cal-Gas) / 1 Roach-Baker	1973	B(02-01)02BCD	Luke	1,087	331	3,200	975	375,800	3,712,438	D,CAL(2),CBL,CDL,CN L,GR,VEL,VRT	
OG	670	AmeriGas (Cal-Gas) / 3 Roach-Baker	1977	B(02-01)02BCC	Luke	1,086	331	3,200	975	375,526	3,712,438	D,CAL(2), CBL,DL, IFS(3), MET,NFD,PAL, TL(3)	
55	522623	--	1989	A(03-03)17BAA	Luke	1,342	409	3,000	914	400,257	3,719,458	D	
OG	7-05	Tutweiler, L.D. 1 Camelback	1907	A(02-04)30ABC	Luke	1,215	370	2,818	859	408,282	3,706,528	SAMP	
OG	865	AmeriGas (Cal-Gas) / 1A Roach-Baker	1989	B(02-01)02BCD	Luke	1,087	331	2,800	853	375,800	3,712,438	D,CAL,CBL,CDL,IFS,MI T,TL,UI(2),VRT	
35	9057	Goodyear Farms #19-E	1953	B(02-01)19BAA	Luke	1,057	322	2,784	849	369,846	3,708,205	D	"Usable depth 1220 ft.; Well plugged with cement below 1282 ft because of high salt content in water"
35	1612	--	1955	A(03002)13BDC	Luke	1,280	390	2,660	811	396,963	3,718,675	D	
35	9748	--	1964	B(03-02)25BBB	Luke	1,207	368	2,567	782	367,741	3,716,285	DG	
55	210828	--	2006	B(04-02)02DBC	Luke	1,424	434	2,530	771	367,118	3,731,536	D	
35	1613	--	1950	A(03-02)13BDD	Luke	1,283	391	2,525	770	397,160	3,718,675	D	Well deepened May 30,1959 from 903' to 2525'. Casing added from 761' to 866'. "Cleaned out existing well from 770' to 840 feet. Conglomerate from 840' to 905 feet."
35	9736	--	1962	B(03-02)15DBB	Luke	1,292	394	2,425	739	365,366	3,718,710	D, G	
35	2048	--	1956	A(04-01)13DBA	Luke	1,307	399	2,321	707	388,055	3,728,031	D	

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35	1577	--	1956	A(03-02)06AAD	Luke	1,249	381	2,233	681	389,959	3,722,258	D	
35	9127	--	1964	B(02-01)31BBA	Luke	1,028	313	2,100	640	369,407	3,704,983	D	deepening of Wells35 ID 9126, 1026' pump base
55	504545	--	1984	A(03-02)27BAD	Luke	1,231	375	2,090	637	393,840	3,716,090	D	Well was deepened from 928feet to 2000 feet in April 1966 (Depth to water @ 363).
35	9610	--	1963	B(03-01)20BBB	Luke	1,182	360	2,051	625	370,838	3,717,829	D	
55	625050	--	1954	A(04-01)23DAA	Luke	1,270	387	2,050	625	386,778	3,726,630	D	
35	2077	--	1954	A(04-01)23DAA	Luke	1,267	386	2,050	625	386,841	3,726,432	D	
55	209687	--	2006	B(01-02)01ADA	Luke	1,000	305	2,040	622	368,912	3,703,183	D	
35	2071	--	1967	A(04-01)23ADB	Luke	1,273	388	2,025	617	386,645	3,726,835	D	
35	2188	--	1955	A(04-02)30CDC	Luke	1,255	382	2,017	615	389,007	3,724,371	D	
35	2080	--	1962	A(04-01)24BCC	Luke	1,271	387	2,004	611	387,044	3,726,631	D	
OG	7-15	U.S. Bur. Reclam. / 01 Luke	1966	B(03-01)32DDA	Luke	1,115	340	2,003	611	372,148	3,713,628	D, EL	
55	522622	--	1989	A(03-03)08CBD	Luke	1,335	407	2,000	610	399,859	3,720,064	D	
35	9224	--	1956	B(02-02)25ABB	Luke	1,053	321	2,000	610	368,423	3,706,622	D	
OG	7-16	U.S. Bur. Reclam. / B4-1 CAP	1965	B(04-01)25CCC	Luke	1,208	368	1,991	607	377,256	3,724,598	D	
55	611721	--	1957	B(02-01)21CCB	Luke	1,037	316	1,990	607	372,352	3,707,145	D	
55	616948	--	1975	A(04-01)22DCB	Luke	1,260	384	1,977	603	384,563	3,726,244	D	
55	208421	--	--	B(03-02)14BCC	Luke	1,276	389	1,886	575	366,108	3,719,100	D	
55	210834	--	2006	B(04-02)12BCA	Luke	1,391	424	1,837	560	368,107	3,730,550	D	
55	517584	--	1987	A(03-01)25ABB	Luke	1,162	354	1,805	550	387,666	3,716,320	D	
55	595245	--	2003	A(01-02)09DCC	Luke	1,046	319	1,801	549	392,225	3,700,422	D	
55	206656	--	2005	A(04-01)14ABC	Luke	1,302	397	1,800	549	386,193	3,728,843	D	
55	210832	--	2006	B(04-02)12CDA	Luke	1,376	419	1,800	549	368,496	3,729,730	D	

**Log abbreviations**

BHCS = borehole compensated sonic log	DLL = Dual Laterolog	ML = micro cylindrical focused log
CAL = Caliper Log	ECS = Geoframe Processed Interpretation	MUD = mud log
CBL = cement bond log	EL = Electrical Log	NFD = neutron formation density
CCL = Casing Collar Log	ELAN	PAL = Pipe Analysis Log
CDL = Compensated DensiLog	FMI = Fracture Survey	PTN = Photon Log Gravel Pack Survey
CNL = Compensated Neutron Gamma Ray	G = Geologists log	SAMP = Lithologic Log
CWL = Computer Processed Log	GR = Gamma Ray	SNP = Sidewall Neutron Porosity Log
D = Drillers log	GRN = Gamma Ray Neutron	TDT = Thermal Decay Time Log
DIFL = Dual Induction - SFL	IEL = induction electrolog	TL = Temperature Log
DIGL = Dual Induction Guard Log	IFS = Interface Survey	UI = Ultrasonic Imager
DILL = Dual Induction Electrolog	MET = Electromagnetic Thickness Log	VEL = 3D Velocity Log
DL = Gamma Ray Density Log	MIT = Mechanical Integrity Test	VRT = Vertilog