BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA

Application by Sacramento Natural Gas Storage, LLC for a Certificate of Public Convenience and Necessity for Construction and Operation of Natural Gas Storage Facilities and Requests for Related Determinations	**Application No. 07-04-013 (filed April 9, 2007)**

SUPPLEMENT TO PROPONENT'S ENVIRONMENTAL ASSESSMENT

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Dated: July 16, 2007

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OF THE STATE OF CALIFORNIA

Application by Sacramento Natural Gas Storage, LLC for a Certificate of Public Convenience and Necessity for Construction and Operation of Natural Gas Storage Facilities and Requests for Related Determinations	**Application No. 07-04-013 (filed April 9, 2007)**

SUPPLEMENT TO PROPONENT'S ENVIRONMENTAL ASSESSMENT

Applicant hereby submits, as a supplement to the Proponent's Environmental Assessment ("PEA") filed in this matter on April 9, 2007, the following report prepared by International Gas Consulting **and entitled "**Safety Record Study of Underground Gas Storage In Depleted Gas Reservoirs: A Safe Industry in the Past, Present, and Future" (the "IGC Safety Report").

Applicant commissioned the preparation of the IGC Safety Report in response to requests from affected landowners, including the City of Sacramento, for information on the safety record across the United States of natural gas storage facilities similar in type to the one proposed for development by Applicant.

Please note that Appendix B to the IGC Safety Report consists solely of Chapter 2 ("Project Description") of the PEA as filed with the Commission on April 9, 2007. That duplicate material has been omitted from this filing to facilitate electronic filing and service.

Respectfully submitted,

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Dated: July 16, 2007

CERTIFICATE OF SERVICE

I hereby certify that I have this day served by electronic mail the foregoing Supplement to Proponent's Environmental Assessment on each person, other than the undersigned, named in the official service list attached hereto, pursuant to the Commission's Rules of Practice and Procedure.

Executed on July 16, 2007, at Sacramento, California.

Alfred F. Jahns

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Last Update on 12-JUN-2007 by: LIL
A0704013 NOPOST

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Safety Record Study of Underground Gas Storage In Depleted Gas Reservoirs:

A Safe Industry in the Past, Present, and Future

Study Submitted to:

Sacramento Natural Gas Storage

May 4, 2007

Submitted by:

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Background

This Safety Record Study was performed by International Gas Consulting (IGC) at the request of Sacramento Natural Gas Storage, LLC (SNGS). SNGS is currently proposing to develop an underground natural gas storage facility in a depleted reservoir located within the city limits of Sacramento, California. The Study was developed for SNGS in response to a request for information by the leaders of AGENA, a local neighborhood association that serves the residents in the area of the proposed project. The Study is intended to assist SNGS in reliably demonstrating to the local community that facilities similar to the one proposed by SNGS (Attachment A) have operated safely throughout the United States since the first storage facility was created more than 90 years ago. The SNGS Project Description is provided as an attachment (Attachment B) to this Study to verify for the reader that the SNGS facility is in fact similar to the 360 other depleted reservoir and/or aquifer-type facilities.

IGC limited the study horizon to the most recent thirty (30) years of historical data, i.e., 1976-2006. This period was chosen to enhance the quality of the data, as the quality of the record-keeping and reporting has improved significantly throughout the country in recent years. The study period also reflects histories of facilities constructed and operated under more recent codes, rules and regulations, using current technologies and equipment.

We draw your attention to the quotation from the Federal Energy Regulatory Commission (FERC) on page 2 of the Study, which states … "There are more than 200 jurisdictional underground storage fields generally operating successfully and safely …". In the Study we cited 360 facilities. The reason for the apparent discrepancy is that there are approximately 160 "non-jurisdictional" facilities operating in the United States, i.e., facilities that are not regulated by the FERC.

Introduction

A major concern for a community in discussing the siting of a natural gas storage field is the safety track record of similar facilities. While the historical safety record of this industry shows only a few accidental operational occurrences, communities in the close proximity of storage fields often have a fear of such facilities. Consequently, prudent storage developers and operators employ a variety of procedures and processes to mitigate the risks associated with natural gas storage facilities and thus lessen the anxiety associated with living in the same area as one of these facilities.

Storage Safety Track Record

Underground natural gas storage facilities are designed and constructed to meet stringent industry and regulatory specifications and codes. These facilities have one of the best safety records of all industries, both with respect to employee safety and to the welfare of the general public. The Federal Energy Regulatory Commission (FERC) noted the impressive safety record of the storage industry in a recent ruling:

> There are more than 200 jurisdictional underground storage fields generally operating successfully and safely without major operational problems, despite the variety of difficulties inherent in storage operation…Field operators have achieved broad success through a system of sound engineering practices using appropriate monitoring and testing of storage field performance throughout the entire active operating life of each storage field. The early detection of problems such practices allow has proven effective in assuring the initiation of remedies to minimize adverse effects to the environment and the preservation of the stored natural gas.[1]

There have been relatively few problems associated with the underground storage of natural gas in depleted gas reservoirs (including aquifer drives) during the 90+ year history of gas storage. During the last thirty years, only five minor storage failures or accidents have been reported in the public record. These five storage incidents are described below.

[1] 99 FERC ¶ 61,385 (2002). Docket CP01-427-001, Dominion Transmission, Inc.

Aliso Canyon, Los Angeles County, California

The Aliso Canyon facility was completed in 1973 and provides 80 Bcf of working gas storage in a Depleted Reservoir. Subsidence resulting from the Northridge Earthquake damaged surface piping in January 1994. Neither fire nor injuries were reported at the storage site. The field was immediately shut-in to determine the full extent of the damage and to make appropriate repairs. Repairs were made and the facility continues in operation today.

Eaton Rapids, Eaton County, Michigan

The Eaton Rapids facility was completed in 1990 and provides 7 Bcf of working gas storage in a Depleted Reservoir. In January 1993, storage gas was found to be migrating from shut-in production wells. Upon investigation, it was discovered that there was a leak in the production casing string, but it did not impact the water supply. The only outcome was that some of the gas was produced in neighboring fields. The leak was repaired, and the facility is still in operation.

McDonald Island, San Joaquin County, California

The McDonald Island facility was completed in 1958 and provides 82 Bcf of working gas storage in a Depleted Reservoir. In October 1993, an explosion and fire occurred at the reservoir facility, owned by Pacific Gas and Electric. The accident was reportedly caused by an observation port being left off an in-line heater's firebox which, coupled with an unexplained trip-out of the system's flame, allowed the accumulation of a combustible mixture of gas and air in the box which then ignited. There were no injuries associated with the explosion and fire, although approximately $2 million of damage occurred to the heater and surrounding equipment.

Six Lakes, Mecosta County, Michigan

The Six Lakes facility was completed in 1953 and provides 40 Bcf of working gas storage in a Depleted Reservoir. In August 1974, a blowout and fire occurred during a remedial operation on a plugged storage well. After two deviated control wells were drilled and water and mud were injected, the well was brought under control. Surface

equipment was destroyed. No third party damage to property or personal injury was recorded.

South Romeo Storage, Macomb County, Michigan

An explosion and fire blew out two safety walls of the compressor station building at the South Romeo storage facility, the Washington 28 field in Macomb County, Michigan, in October 1997. The emergency shutdown device ("ESD") immediately closed the station, controlled the loss of gas, and prevented further damage. The failure was determined to be a design flaw in the compressor engine, which released gas into the compressor building, which subsequently exploded when a vent fan switched on. The damage was limited to the compressor building.[2]

Gas Migration

In addition to these reported incidents, there have been occasional problems with storage gas migrating beyond the intended reservoir due to a lack of structural integrity of the geologic reservoir or due to a man-made conduit, such as a poor cementation in the storage well casing strings. Ironically, a major issue for storage operators is gas loss due to nearby production operations. So-called "corner shooters", exploration companies that drill into the corners in lease blocks attempting to capture and produce known reserves, have lead to several regulatory proceedings and litigations by storage operators to condemn the offending wells and acquire the mineral and storage rights in a condemnation hearing. Some examples of this gas migration problem are listed in the table below.

[2] Incident Report # 407995, Submitted by Michigan Consolidated Gas Company (Michcon) to the U.S. Office of Pipeline Safety, October 27, 1997.

Gas Migration Occurrences of Storage Facilities In The U.S.

Company	Facility	Date
National Fuel Gas	Beech Hill	1992/2002/2006
Gulf South Pipeline	Bistineau*	1997
Midwest Gas Storage	Carbon	1994-1995
Northern Natural Gas Co.	Cunningham*	1991, 1995
Louisville Gas & Elec. Company	Doe Run Upper	2005
National Fuel Gas	East Independence	1992/2002/2006
Williams/Southern Star Central	Elk City*	circa 1995
Southern California Gas Co.	Honor Rancho	circa 1996
PNM Gas Services	Los Milpas	
Southern Star Central	Webb	2001
National Fuel Gas	West Independence	1992/2002/2006

* Denotes “corner-shooter” activity

Should such a breach occur, problems may arise, such as the contamination of freshwater zones or loss of gas to a “thief zone” with adjacent producing wells. However, even when gas migration does occur it typically remains a deep subsurface problem and poses no danger to the buildings, vegetation, and people on the land above the migrating gas. As a validation of that statement it should be noted that none of the gas migration incidents listed in the table above resulted in gas being vented into the atmosphere.

Although the migrating gas remains usually remains subsurface, that does not mean that the storage operators do not respond when they discover that gas is migrating out of their

storage fields. If the volume of the migrating gas is large enough it can have a material impact on the storage field's injection and withdrawal abilities and possibly alter the customer's contractual obligations. Additionally, the migrating gas may be able to be recovered from third-party production wells and then sold by those parties. In both of these situations, the storage operator has a strong financial incentive to prevent the gas in their storage facility from migrating or, when it does, in recovering the gas.

As an example of the storage operator's response when they discover that gas is migrating from the reservoir, consider the Beech Hill, East Independence, and West Independence fields listed in the table above. Originally thought to be independent fields, Penn-York, the predecessor to National Fuel Gas, discovered that the Beech Hill field had migrating gas that was communicating with the other fields. In 1990, Penn-York attempted to adjust their rates to cover the cost of the lost gas. In 1992 they then adjusted their base gas and total gas amounts and associated storage configuration in response to the gas migration. Then, in 2002, National Fuel Gas, who had acquired the fields through a 1994 merger, increased the Beech Hill field acreage to extend the storage field's boundary and incorporate the migrated gas within the expanded boundary. Finally, in 2006, National Fuel Gas petitioned the FERC to allow two of the observation wells in this extended boundary to be converted to production wells so that they can reclaim the migrated gas. Thus it can be seen that storage operators will use a variety of methods—financial, regulatory, and engineering—to, first, prevent the gas from migrating and, second, to recover it if it does manage to circumnavigate the barriers that the storage operator initiated. These migration control techniques are discussed in further detail next.

Areas of Risk and Focus of Mitigative Measures

Natural gas storage facilities can be operated safely and with minimal environmental issues. There are several areas that can be addressed to minimize the likelihood of problems with the facility: reservoir integrity; casing integrity, wellheads; surface facilities; and pipelines. Each of these will be discussed in greater detail below.

Reservoir Integrity

Prevention and/or reduction of possible future gas losses and the risks associated with storage can be minimized by careful analysis of all historical data. Additional geological work, such as reservoir simulations and computer modeling, and seismic data may be necessary to clarify closure or faulting. Observation wells on the flanks of the trap should monitor pressure data and fluid composition on an ongoing basis.

The determination of the maximum volume of gas in the reservoir and the maximum pressure for storage operations must consider the spill point of the structural closure and the fracture gradient of the caprock. Furthermore, if stimulation through fracturing of the reservoir is needed to increase productivity of the storage wells, the fracture job must be designed to maintain the integrity of the reservoir and its caprock.

Casing Integrity

Potential problems with well casings can be avoided through prudent well drilling and completion techniques during the development of new storage facilities. Risks are mitigated for wells at existing facilities through the careful and critical review of all well records and production history. Gas leaks from the storage wells can be prevented with proper cementation of the casing in the storage wells and nearby abandoned well bores, and well-designed tubular, casing, and connection programs.

Complete well logs that provide information on the well bore should be run on all new storage wells, and taking core samples from the storage zone and the caprock are recommended. Existing storage wells (if any exist in the area) may need additional logs run to provide more complete diagnostics. Types of logs include vertilogs, neutron, temperature, and noise, which are commonly used to evaluate wellbore integrity. As part of the storage maintenance program, mechanical integrity testing or additional well logging to determine pipe condition should be performed periodically (typically every 5 years). Corrosion protection is also advised.

Annular pressures or other casing readings at the surface should be monitored on an ongoing basis to detect potential problems. An evaluation of inactive or abandoned wells

will determine if they should be re-entered for remedial work, such as re-cementing and/or re-plugging.

Wellheads

Surface well head facilities are designed and selected to provide a very long service life. The surface valves are selected to withstand the expected maximum reservoir pressure and maximum injection pressure expected during the life of the project. Wellhead pressure sensing equipment is installed that will detect leaks in the wellbore tubulars and surface lines or a gas overfill. Automatic emergency shutdown valves are installed at the surface to close in the well if there is a sudden loss of pressure. An additional safety valve can be located downhole, especially if the well flow rates are large or the site is located near a community. These valves should be checked at least twice a year to ensure safe and effective operations. Leak detectors are required on wells in close proximity to populated areas.

Typically, the wellhead site is contained within a fence or other sight barrier. However, the wellhead must still be accessible and have the proper connections so the well can be easily checked (data gathered, tested, sampled) and serviced (logging or workovers such as pulling and replacing tubing).

Surface Facilities

The storage facility site should be fenced, secure, and when possible, unobtrusive to the surroundings. The station may be manned 24 hours a day depending on weather, season, and current level of activity. Proper safety and fire equipment and training are a necessity.

Operations and maintenance practices are key to the safe operation of the surface facilities. A policy and procedural manual on site provides the field employees detailed operation, maintenance, and safety procedures for gas pipelines and related facilities. In addition, an Emergency Plan and Preparedness Manual is to be on site and readily accessible. This contains significant event notification plans, including the requirements

of DOT Emergency Response Procedures, OSHA Emergency Response Requirements, and Environmental Emergency Response Requirements (EPA).

Exposed piping, vessels, measurement, pressure regulating, and compression equipment should be kept painted and in good repair. Cathodic protection and internal and external corrosion control on all aboveground and underground facilities must comply with Federal and State regulations. Gas measurement equipment is maintained and tested regularly. Environmental impact surveillance policies and practices must, at a minimum, meet all statutory and regulatory obligations.

Pipelines

Storage facilities may include a significant number of field pipelines, as well as high-pressure pipes connecting to the transmission or distribution pipelines. Once tested and placed in operation, the most serious threat to natural gas storage pipelines is mechanical failure caused by unintentional impact by third party equipment. Although proper siting, careful design and appropriate buffers make the possibility of such an occurrence remote, ongoing effort is required to mitigate this risk.

National One Call systems provide anyone digging along a pipeline right-of-way the ability to call one number to be sure it is safe to proceed. Pipeline routes are clearly marked to alert the public of the presence of the pipeline, as well as a phone number to call if any unusual activity or abnormal condition is detected.

After completion and throughout the life of the pipeline, operators use various methods to physically monitor the pipeline condition. Periodic inspections, patrols, and surveys are are supplemented by continuous daily surveillance and awareness by company field operating personnel. At least annually, personnel walk the line using leak detectors to inspect the pipeline system. In areas where housing developments are encroaching in proximity of the existing right-of-way, the pipeline route may be observed weekly or even daily to ensure that no construction activity threatens the integrity of the pipe.

Although much effort is made to construct and maintain the pipeline, years of use, varying pressures and temperatures can cause old secure welds to weaken. Some leaks

can be detected by periodic leak detection surveys and the pipeline can then be excavated and repaired. "Pigs" are mechanical devices that are run inside the pipeline to periodically clean the inside of the pipeline and, in some cases, to evaluate the condition of the pipe. "Smart pigs" are electro-magnetic devices that use electronic and x-rays techniques to examine the pipe internally in order to identify any weakness or reduced pipeline thickness.

Frequent tests like those prescribed in the recently implemented Pipeline Safety Improvement Act can provide early detection and avoidance of potential problems. Pipelines are operated consistent with their design, which specifies minimum and maximum operating pressures, connection locations, gas quality, temperature, and receipt and delivery conditions.

Conclusions

The attached report, "U.S. Natural Gas Storage Fields, Active & Inactive Depleted Reservoirs/Aquifers" (Attachment A) has been provided as a reference document. An analysis of the Safety Record of the subject type of storage facility reveals the following.

The analysis period was limited to the most recent thirty (30) years of operational histories of these facilities to enhance the reliability of the reported data. Of the 360 facilities currently operating in the United States, 301 facilities have been operating throughout this 30-year period. Those facilities have accumulated 9,030 operating-years of history during the report period, with five (5) incidents recorded. That operating record reveals a frequency of occurrence of safety incidents this type of storage facility of one incident every 1,806 years. It should be noted that none of these incidents were reported to have resulted in personal injuries or loss of life.

The impressive safety record of underground natural gas storage in depleted reservoirs has contributed to the continued growth in demand for gas storage services throughout North America. Storage operators have a proven track record in providing reliable and safe gas deliveries, which can reduce gas cost to end-users. Storage fields are located throughout much of the U.S, frequently inconspicuous to nearby communities.

The design, construction, operation, and maintenance of storage facilities is focused on safely preventing gas loss incidents. Integrity management programs maintain the safety of the public. Ongoing monitoring and evaluation of surface and subsurface facilities and conditions lead to the timely detection of potential problems and the mitigation of the possible negative consequences. In addition, regulatory oversight ensures high standards of equipment and operations. On balance, storage provides a safe means of helping assure supplies to satisfy the nation's demand for natural gas.

ATTACHMENT "A": U.S. NATURAL GAS STORAGE FIELDS, ACTIVE & INACTIVE DEPLETED RESERVOIRS AND AQUIFERS

Sacramento Natural Gas Storage
U.S. Natural Gas Storage Fields
Active & Inactive Depleted Reservoirs/Aquifers
(Sort Order: State, Field Name, Company Name)

	St	Company	Field	County	Year Activate	Status	Stor Type	Total Working Gas (MMcf)	Max Deliv. (MMcf/d)
1	AL	Northwest Alabama Gas District	East Detroit	Lamar	2001	A	Dep Res	1,440	20
2	AR	SEECO	Adams-Hale	Franklin	1967	I	Dep Res	277	20
3	AR	SEECO	King-Casey	Franklin	1956	I	Dep Res	66	5
4	AR	Arkansas Oklahoma Gas Corp.	Lavaca Deep(a)	Sebastian	1942	I	Dep Res	63	12
5	AR	SEECO	Stockton-Casey-Lone Elm	Franklin	1967	A	Dep Res	4,000	80
6	AR	Arkansas Western Gas Co.	Woolsey-White Oak	Franklin	1958	A	Dep Res	4,000	160
7	CA	Southern California Gas Co.	Aliso Canyon	Los Angeles	1973	A	Dep Res	80,000	1,860
8	CA	Southern California Gas Co.	East Whittier	Los Angeles	1952	I	Dep Res	88	2
9	CA	Southern California Gas Co.	Honor Rancho	Los Angeles	1975	A	Dep Res	20,000	1,000
10	CA	Southern California Gas Co.	LaGoleta	Santa Barbara	1941	A	Dep Res	21,500	420
11	CA	ArcLight	Lodi	San Joaquin	2001	A	Dep Res	12,000	500
12	CA	Pacific Gas & Electric Co.	Los Medanos	Contra Costa	1977	A	Dep Res	17,448	350
13	CA	Pacific Gas & Electric Co.	McDonald Island	San Joaquin	1958	A	Dep Res	82,000	1,340
14	CA	Southern California Gas Co.	Playa del Rey	Los Angeles	1942	A	Dep Res	2,643	450
15	CA	Pacific Gas & Electric Co.	Pleasant Creek	Yolo	1960	A	Dep Res	2,250	70
16	CA	Southern California Gas Co.	West Montebello	Los Angeles	1956	I	Dep Res	11,700	680
17	CA	Wild Goose Storage	Wild Goose	Butte	1999	A	Dep Res	24,000	240
18	CO	Public Service of Colorado, Inc.	Asbury	Mesa	1965	A	Dep Res	2,797	16
19	CO	Colorado Interstate Gas Co.	Flank	Baca	1979	A	Dep Res	7,183	164
20	CO	Colorado Interstate Gas Co.	Fort Morgan	Morgan	1966	A	Dep Res	8,496	450
21	CO	Public Service of Colorado, Inc.	Fruita	Mesa	1971	A	Dep Res	226	2
22	CO	Colorado Interstate Gas Co.	Latigo	Arapahoe	1975	A	Dep Res	9,050	139
23	CO	Public Service of Colorado, Inc.	Roundup	Morgan	1978	A	Dep Res	5,174	50
24	CO	Colorado Interstate Gas Co.	Springdale	Logan	1963	I	Dep Res	2,746	1
25	CO	Wild Horse Energy Partners	Wolf Creek	Pitkin/Mesa	1972	A	Dep Res	4,564	22
26	CO	Colorado Interstate Gas Co.	Young	Morgan	1995	A	Dep Res	5,790	199
27	IA	Natural Gas Pipeline Co. of America	Cairo Galesville	Louisa	1974	A	Aquifer	4,400	60
28	IA	Natural Gas Pipeline Co. of America	Cairo Mt. Simon	Louisa	1970	A	Aquifer	12,200	170
29	IA	Natural Gas Pipeline Co. of America	Cairo St. Peter	Louisa	1962	A	Aquifer	10,450	150
30	IA	Natural Gas Pipeline Co. of America	Columbus City Mt. Simon	Louisa	1971	A	Aquifer	10,400	120
31	IA	Natural Gas Pipeline Co. of America	Columbus City St. Peter	Louisa	1969	A	Aquifer	3,450	50
32	IA	Natural Gas Pipeline Co. of America	Keota	Washington	1963	A	Aquifer	2,750	50
33	IA	Northern Natural Gas Co.	Redfield Mt. Simon	Dallas	1961	A	Aquifer	10,410	200
34	IA	Northern Natural Gas Co.	Redfield St. Peter	Dallas	1959	A	Aquifer	10,682	180
35	IL	Northern Illinois Gas Co.	Ancona-Garfield	Livingston & LaSalle	1963	A	Aquifer	59,100	850
36	IL	Central Illinois Pub. Serv. Co.	Ashmore South	Coles & Clark	1961	A	Dep Res	1,129	20
37	IL	Central Illinois Pub. Serv. Co.	Belle Gent	Williamson	1972	A	Dep Res	184	2
38	IL	Illinois Power Company	Centralia East	Marion	1964	A	Dep Res	143	14
39	IL	Natural Gas Pipeline Co. of America	Cooks Mills	Douglas & Coles	1957	A	Dep Res	4,600	150
40	IL	Central Illinois Pub. Serv. Co.	Corinth-Crab Orchard	Williamson	1972	I	Dep Res	193	2

Sacramento Natural Gas Storage
U.S. Natural Gas Storage Fields
Active & Inactive Depleted Reservoirs/Aquifers
(Sort Order: State, Field Name, Company Name)

	St	Company	Field	County	Year Activate	Status	Stor Type	Total Working Gas (MMcf)	Max Deliv. (MMcf/d)
41	IL	Illinois Power Company	Eden South	Randolph	1970	A	Dep Res	390	8
42	IL	Illinois Power Company	Freeburg	St.Clair	1959	A	Dep Res	1,900	35
43	IL	Illinois Power Company	Gillespie	Macoupin	1958	I	Dep Res	32	5
44	IL	Central Illinois Light Co.	Glasford	Peoria	1964	A	Aquifer	4,014	140
45	IL	Natural Gas Pipeline Co. of America	Herscher	Kankakee	1953	A	Aquifer	10,750	1,100
46	IL	Natural Gas Pipeline Co. of America	Herscher Mt. Simon	Kankakee	1957	A	Aquifer	12,500	240
47	IL	Natural Gas Pipeline Co. of America	Herscher Northwest	Kankakee	1959	A	Aquifer	2,000	65
48	IL	Illinois Power Company	Hillsboro	Montgomery	1973	A	Aquifer	7,600	125
49	IL	Illinois Power Company	Hookdale	Bond	1963	A	Dep Res	715	30
50	IL	Northern Illinois Gas Co.	Hudson	McLean	1970	A	Aquifer	10,700	175
51	IL	Central Illinois Pub. Serv. Co.	Johnston City	Williamson	1991	A	Dep Res	746	10
52	IL	Northern Illinois Gas Co.	Lake Bloomington	McLean	1969	A	Aquifer	7,900	150
53	IL	Northern Illinois Gas Co.	Lexington	McLean	1971	A	Aquifer	7,500	150
54	IL	Central Illinois Light Co.	Lincoln	Logan	1973	A	Aquifer	4,159	75
55	IL	Natural Gas Pipeline Co. of America	Loudon	Fayette	1968	A	Dep Res	40,000	510
56	IL	The People Gas Light and Coke Co.	Manlove	Champaign	1964	A	Aquifer	36,000	800
57	IL	Egyptian Gas Storage Co.	Mills	Gallatin	1975	A	Dep Res	750	6
58	IL	Northern Illinois Gas Co.	Pecatonica	Winnebago	1967	A	Aquifer	1,350	75
59	IL	Northern Illinois Gas Co.	Pontiac	Livingston	1976	A	Aquifer	8,200	200
60	IL	Northern Illinois Gas Co.	Pontiac-Mt. Simon	Livingston	1966	A	Aquifer	5,100	100
61	IL	Central Illinois Pub. Serv. Co.	Richwoods	Crawford	1966	I	Dep Res	103	1
62	IL	Central Illinois Pub. Serv. Co.	Sciota	McDonough	1974	A	Aquifer	945	8
63	IL	Illinois Power Company	Shanghai	Warren & Mercer	1970	A	Aquifer	3,600	80
64	IL	Mississippi River Trans. Corp.	St. Jacob	Madison	1963	A	Dep Res	2,200	30
65	IL	Illinois Power Company	Tilden	St. Clair & Washington	1961	A	Dep Res	870	50
66	IL	Northern Illinois Gas Co.	Troy Grove	LaSalle	1958	A	Aquifer	43,100	1,100
67	IL	Southwest Gas Storage Co. (PEPL)	Waverly	Morgan	1954	A	Aquifer	4,139	70
68	IN	Texas Gas Transmission Corp.	Alford	Pike	1951	A	Dep Res	919	37
69	IN	Indiana Gas	Brookston	White	1994	I	Aquifer	28	5
70	IN	Midwest Gas Storage	Carbon	Clay/Park	1990	A	Aquifer	900	50
71	IN	Citizens Gas & Coke Utility	Dixon	Greene	1966	A	Dep Res	869	38
72	IN	Hoosier Gas (South. Ind. Gas)	Glendale	Daviess	1951	I	Dep Res	57	2
73	IN	Indiana Gas	Greensburg	Decatur	1950	I	Dep Res	479	1
74	IN	Indiana Gas	Hindustan	Monroe	1954	A	Dep Res	800	10
75	IN	Citizens Gas & Coke Utility	Howesville	Greene	1961	A	Dep Res	1,050	38
76	IN	Lawrenceburg Gas (CG&E)	Lawrenceburg Storage	Dearborn	1956	I	Dep Res	18	1
77	IN	Texas Gas Transmission Corp.	Leesville	Lawrence	1962	A	Aquifer	2,531	42
78	IN	Hoosier Gas (South. Ind. Gas)	Loogootee	Daviess	1958	A	Dep Res	97	1
79	IN	Southern Indiana Gas & Electric	Midway	Spencer	1966	A	Aquifer	2,627	50
80	IN	Citizens Gas & Coke Utility	Mineral City	Greene	1972	A	Dep Res	400	13

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(Sort Order: State, Field Name, Company Name)

	St	Company	Field	County	Year Activate	Status	Stor Type	Total Working Gas (MMcf)	Max Deliv. (MMcf/d)
81	IN	Hoosier Gas (South. Ind. Gas)	Monroe City	Knox	1956	A	Dep Res	3,750	33
82	IN	Texas Gas Transmission Corp.	Oaktown	Knox	1944	A	Dep Res	302	10
83	IN	Southern Indiana Gas & Electric	Oliver	Posey	1954	A	Aquifer	2,650	42
84	IN	Northern Indiana Public Service	Royal Center (Mt. Simon)	Fulton	1968	A	Aquifer	2,188	100
85	IN	Northern Indiana Public Service	Royal Center (Trenton)	Cass	1962	A	Aquifer	4,475	120
86	IN	Indiana Gas	Sellersburg	Clark	1968	A	Aquifer	144	7
87	IN	Citizens Gas & Coke Utility	Simpson Chapel	Greene	1973	A	Dep Res	400	12
88	IN	Citizens Gas & Coke Utility	Switz City	Greene	1964	A	Dep Res	857	38
89	IN	Indiana Gas	Unionport North	Randolph	1963	A	Aquifer	123	15
90	IN	Indiana Gas	Unionport South	Randolph	1965	A	Dep Res	62	15
91	IN	Indiana Gas	Unionville (Devonian)	Monroe	1954	A	Dep Res	2,322	50
92	IN	Indiana Gas	Unionville (Trenton)	Monroe	1979	I	Aquifer	63	1
93	IN	Indiana Gas	West Point	Tippecanoe	1957	I	Aquifer	260	5
94	IN	Texas Gas Transmission Corp.	White River	Pike	1967	I	Dep Res	306	7
95	IN	Texas Gas Transmission Corp.	Wilfred	Sullivan	1959	A	Aquifer	1,700	44
96	IN	Indiana Gas	Wolcott (St. Peter)	White	1979	I	Aquifer	396	1
97	IN	Indiana Gas	Wolcott (Trenton)	White	1967	A	Aquifer	1,530	52
98	IN	Citizens Gas & Coke Utility	Worthington	Greene	1961	A	Dep Res	3,516	65
99	KS	KN Energy Co	Adolph	Barton	1960	I	Dep Res	2,078	8
100	KS	Southern Star Central	Alden	Rice	1960	A	Dep Res	4,200	134
101	KS	Colorado Interstate Gas Co.	Boehm	Morton	1973	A	Dep Res	5,229	124
102	KS	Southwest Gas Storage Co. (PEPL)	Borchers North	Meade	1981	A	Dep Res	25,990	350
103	KS	Midcontinent Market Center	Brehm	Pratt	1982	A	Dep Res	2,000	40
104	KS	United Cities Gas Storage Co.	Buffalo	Wilson	1942	A	Dep Res	200	5
105	KS	ARKLA Energy	Collingson	Cowley	1947	I	Dep Res	1,546	10
106	KS	Southern Star Central	Colony	Anderson	1953	A	Dep Res	4,600	149
107	KS	Southern Star Central	Craig	Johnson	1931	I	Dep Res	300	45
108	KS	Northern Natural Gas Co.	Cunningham	Pratt	1978	A	Dep Res	23,500	650
109	KS	Southern Star Central	Elk City	Elk, Chautaugua Montgomer	1958	A	Dep Res	7,800	229
110	KS	United Cities Gas Storage Co.	Fredonia	Wilson	1949	A	Dep Res	200	5
111	KS	United Cities Gas Storage Co.	Liberty North	Montgomery	1952	A	Dep Res	2,800	40
112	KS	United Cities Gas Storage Co.	Liberty South	Montgomery	1948	A	Dep Res	439	5
113	KS	Northern Natural Gas Co.	Lyons	Rice	1975	A	Dep Res	5,800	100
114	KS	Southern Star Central	McLouth	Jefferson, Levenworth	1954	A	Dep Res	2,200	224
115	KS	Southern Star Central	North Welda	Anderson	1934	A	Dep Res	4,400	107
116	KS	Southern Star Central	Piqua	Woodson, Allen	1955	A	Dep Res	300	16
117	KS	Southern Star Central	South Welda	Anderson	1937	A	Dep Res	6,700	156
118	KY	Western Kentucky Gas Co.	Barnsley	Hopkins	1988	A	Dep Res	1,279	30
119	KY	Western Kentucky Gas Co.	Bon Harbor	Daviess	1964	A	Dep Res	779	24
120	KY	Delta Natural Gas Co., Inc	Canada Mountain	Bell	1995	A	Dep Res	4,000	40

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	St	Company	Field	County	Year Activate	Status	Stor Type	Total Working Gas (MMcf)	Max Deliv. (MMcf/d)
121	KY	Louisville Gas & Elec. Company	Center	Metcalfe-Green- Barren	1968	A	Dep Res	2,500	40
122	KY	Western Kentucky Gas Co.	Crofton	Christian	1957	A	Dep Res	54	1
123	KY	Texas Gas Transmission Corp.	Dixie	Henderson	1951	A	Dep Res	2,575	99
124	KY	Louisville Gas & Elec. Company	Doe Run Upper	Meade	1946	A	Aquifer	3,990	55
125	KY	Kentucky Pipeline and Storage	East Diamond	Hopkins	1972	A	Dep Res	2,160	40
126	KY	Alcan Ingot	East Slaughters	Hopkins	1974	A	Aquifer	404	3
127	KY	Texas Gas Transmission Corp.	Graham Lake	Muhlenberg	1963	A	Dep Res	1,184	27
128	KY	Western Kentucky Gas Co.	Grand View	Daviess	1955	A	Dep Res	305	5
129	KY	Texas Gas Transmission Corp.	Hanson	Hopkins	1965	A	Dep Res	3,587	94
130	KY	Western Kentucky Gas Co.	Hickory School	Daviess	1955	A	Dep Res	452	24
131	KY	Delta Natural Gas Co., Inc	Kettle Island	Bell	1971	I	Dep Res	200	1
132	KY	Western Kentucky Gas Co.	Kirkwood Springs	Hopkins	1954	A	Dep Res	222	12
133	KY	Elizabethtown Natural Gas	Laurel	Hardin	1972	A	Aquifer	254	1
134	KY	Elizabethtown Natural Gas	Lego	Hardin	1972	A	Dep Res	1,571	3
135	KY	Louisville Gas & Elec. Company	Magnolia Deep	Hart, Green, Larue	1962	A	Dep Res	2,030	36
136	KY	Louisville Gas & Elec. Company	Magnolia Upper	Hart, Green, Larue	1958	A	Dep Res	2,800	74
137	KY	Texas Gas Transmission Corp.	Midland	Muhlenberg	1970	A	Dep Res	46,746	965
138	KY	Louisville Gas & Elec. Company	Muldraugh	Meade	1931	A	Dep Res	3,150	220
139	KY	Western Kentucky Gas Co.	Owensboro	Daviess	1953	I	Dep Res	20	3
140	KY	Western Kentucky Gas Co.	St. Charles	Hopkins	1970	A	Dep Res	2,685	45
141	KY	Texas Gas Transmission Corp.	West Greenville	Muhlenberg	1961	A	Dep Res	3,350	101
142	LA	Bear Creek Storage Company	Bear Creek/Pettit	Bienville	1981	A	Dep Res	65,000	900
143	LA	Gulf South Pipeline	Bistineau	Bienville Bossier	1966	A	Dep Res	73,800	1,100
144	LA	Mississippi River Trans. Corp.	East Unionville	Lincoln	1973	A	Dep Res	26,600	480
145	LA	Trunkline Gas Co.	Epps	East and West Carroll	1979	A	Dep Res	13,115	150
146	LA	Transcont Gas Pipeline Corp.	Hester	St. James	1971	A	Dep Res	12,000	100
147	LA	Centerpoint Energy Gas Transmission	Ruston	Lincoln	1969	A	Dep Res	3,100	60
148	LA	Transcont Gas Pipeline Corp.	Washington	St. Landry	1976	A	Dep Res	800	75
149	LA	Mississippi River Trans. Corp.	West Unionville	Lincoln	1968	A	Dep Res	10,000	250
150	MD	Texas Eastern Transmission	Accident	Garrett	1966	A	Dep Res	15,301	400
151	MI	ANR Pipeline Co.	Austin	Mecosta	1941	A	Dep Res	7,000	864
152	MI	Michigan Consolidated Gas Co.	Belle River Mills	St. Clair	1965	A	Dep Res	46,944	1,700
153	MI	Blue Lake Gas Storage (ANR/DTE Energy)	Blue Lake	Kalkaska	1993	A	Reef Dep Res	47,086	700
154	MI	ANR Pipeline Co.	Capac	St. Clair & Lapeer	1978	I	Reef Dep Res	13,600	270
155	MI	ANR Pipeline Co.	Central Charlton	Otsego & Montmorency	1982	A	Reef Dep Res	12,400	220
156	MI	ANR Storage Company	Coldsprings 12	Kalkaska	1980	A	Reef Dep Res	25,257	300
							Reef		

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157	MI	ANR Storage Company	Coldsprings 31	Kalkaska	1981	A	Dep Res Reef	4,555	200
158	MI	Mid Michigan	Coldwater	Isabella	1970	I	Dep Res	1,300	33
159	MI	Southeastern Michigan Gas Co.	Collins	St. Clair	1981	A	Dep Res Reef	1,650	25
160	MI	Michigan Consolidated Gas Co.	Columbus	St. Clair	1972	A	Dep Res Reef	15,000	450
161	MI	Bluewater Gas Storage	Columbus III	St. Clair	2004	A	Dep Res Reef	20,000	700
162	MI	Michigan Gas Utilities Co.	Cortright	Calhoun	1976	A	Dep Res	600	30
163	MI	Consumers Power Company	Cranberry Lake	Clare & Missaukee	1948	A	Dep Res	9,700	120
164	MI	Mid Michigan	Croton	Newaygo	1957	I	Dep Res	1,400	37
165	MI	Eaton Rapids Gas Storage (ANR/SEMCO)	Eaton Rapids 36	Ingham & Eaton	1990	A	Dep Res Reef	13,534	160
166	MI	ANR Storage Company	Excelsior 6	Kalkaska	1981	A	Dep Res Reef	10,810	200
167	MI	Consumers Power Company	Four Corners	St. Clair	1972	A	Dep Res Reef	2,390	60
168	MI	ANR Pipeline Co. (Mid-Michigan)	Goodwell	Newaygo	1948	A	Dep Res	19,300	400
169	MI	Consumers Power Company	Hessen	St. Clair	1976	A	Dep Res Reef	10,070	260
170	MI	Southwest Gas Storage Co. (PEPL)	Howell	Livingston	1962	A	Dep Res	17,375	410
171	MI	Consumers Power Company	Ira	St. Clair	1961	A	Dep Res Reef	3,250	360
172	MI	Bluewater Gas Storage	Kimball 27	St. Clair	2001	A	Dep Res	3,000	100
173	MI	Southeastern Michigan Gas Co.	Lee 11 Field	Calhoun	1988	A	Dep Res Reef	650	16
174	MI	Southeastern Michigan Gas Co.	Lee 2 Field	Calhoun	1981	A	Dep Res Reef	680	18
175	MI	Michigan Gas Utilities Co.	Lee 3	Calhoun	1992	A	Dep Res	1,500	30
176	MI	Panhandle Eastern Pipeline	Lee 8	Calhoun	1995	A	Dep Res	2,400	38
177	MI	Consumers Power Company	Lenox	Macomb	1965	A	Dep Res Reef	1,500	160
178	MI	ANR Pipeline Co. (Mid-Michigan)	Lincoln, Freeman	Clare	1950	A	Dep Res	14,000	400
179	MI	ANR Pipeline Co. (Mid-Michigan)	Loreed	Osceola & Lake	1963	A	Dep Res	22,000	860
180	MI	Consumers Power Company	Lyon 29	Oakland	1986	A	Dep Res Reef	1,300	150
181	MI	Consumers Power Company	Lyon 34	Oakland	1992	A	Dep Res Reef	700	150

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	St	Company	Field	County	Year Activate	Status	Stor Type	Total Working Gas (MMcf)	Max Deliv. (MMcf/d)
182	MI	ANR Pipeline Co.	Muttonville	Macomb, Mecasta	1975	A	Dep Res Reef	8,200	400
183	MI	Michigan Consolidated Gas Co.	New Haven	Gratiot	1961	I	Dep Res	6,600	50
184	MI	Mid Michigan	North Hamilton	Clare	1960	I	Dep Res	900	20
185	MI	Consumers Power Company	Northville Reef	Washtenaw	1968	A	Dep Res Reef	700	195
186	MI	Consumers Power Company	Northville-Trenton	Wayne & Washtenaw	1968	I	Dep Res	10,970	25
187	MI	Mid Michigan	Norwich	Newaygo	1951	I	Dep Res	1,200	52
188	MI	Mid Michigan	Orient	Osceola & Clare	1951	I	Dep Res	1,800	48
189	MI	Consumers Power Company	Overisel	Allegan	1960	A	Dep Res	22,000	260
190	MI	Michigan Gas Utilities Co.	Partello/Anderson	Calhoun	1971	A	Dep Res	1,600	25
191	MI	Consumers Power Company	Puttygut	St. Clair	1971	A	Dep Res Reef	7,020	250
192	MI	ANR Storage Company	Rapid River 35	Kalkaska	1980	A	Dep Res Reef	15,051	250
193	MI	Consumers Power Company	Ray	Macomb	1966	A	Dep Res Reef	42,500	1,350
194	MI	ANR Pipeline Co. (Mid-Michigan)	Reed City	Osceola	1947	A	Dep Res	13,200	312
195	MI	Consumers Power Company	Riverside	Missaukee	1952	A	Dep Res	1,500	20
196	MI	Consumers Power Company	Salem	Allegan	1963	A	Dep Res	12,000	130
197	MI	Michigan Consolidated Gas Co.	Six Lakes (formerly Taggert)	Mecosta & Montcalm	1953	A	Dep Res	40,000	500
198	MI	ANR Pipeline Co.	South Chester 15	Otsego	1980	A	Dep Res Reef	12,800	212
199	MI	Consumers Power Company	Swan Creek	St. Clair	1972	A	Dep Res Reef	420	15
200	MI	Michigan Consolidated Gas Co.	W. Columbus	St. Clair	1973	A	Dep Res Reef	22,000	650
201	MI	Washington 10 Storage Co	Washington 10	Macomb	1999	A	Dep Res Reef	42,500	570
202	MI	Michigan Consolidated Gas Co.	Washington 28	Macomb	1990	A	Dep Res Reef	9,725	160
203	MI	ANR Pipeline Co.	Winfield	Montcalm	1951	A	Dep Res	6,800	100
204	MI	Consumers Power Company	Winterfield	Clark & Osceola	1947	A	Dep Res	22,800	260
205	MN	Minnegasco, Inc.	Waterville-Waseca	Waseca, Rice & LaSueur	1968	A	Aquifer	2,000	50
206	MO	Laclede Gas Company	Lange	St. Louis	1955	A	Aquifer	5,000	420
207	MS	Mississippi Valley Gas Co.	Amory	Monroe	1951	A	Dep Res	801	30
208	MS	Mississippi Valley Gas Co.	Goodwin	Monroe & Lee	1993	A	Dep Res	744	18
209	MS	Gulf South Pipeline	Jackson	Hind & Rankin	1955	A	Dep Res	5,076	250
210	MS	Southern Natural Gas	Muldon/Carter-Sanders	Monroe	1972	A	Dep Res	31,000	750
211	MT	Williston Basin Int. P/L Co.	Baker (Cedar Creek)	Fallon	1945	A	Dep Res	22,847	115

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212	MT	Montana Power	Box Elder	Blaine & Hill	1959	A	Dep Res	2,900	10
213	MT	Montana Power	Cut Bank Cobb	Glacier & Toole	1962	A	Dep Res	11,250	160
214	MT	Montana Power	Dry Creek	Carbon	1966	A	Dep Res	17,625	50
215	MT	Montana Power	Shelby	Toole	1959	I	Dep Res	1,034	6
216	NE	KN Energy Co	Big Springs	Deuel	1976	I	Dep Res	34,536	120
217	NE	KN Energy Co	Huntsman	Cheyenne	1963	A	Dep Res	15,974	169
218	NM	Enstor	Grama Ridge	Lea	1973	A	Dep Res	6,000	55
219	NM	PNM Gas Services	Los Milpas	Sandoval	1973	A	Aquifer	1,130	11
220	NM	El Paso Natural Gas	Washington Ranch	Eddy	1982	A	Dep Res	44,038	250
221	NY	ANR/Arlington Storage	Adrian(Steuben)	Steuben (Adrian)	1991	A	Dep Res	6,200	60
222	NY	National Fuel Gas Supply Corp.	Allegheny State Park/Limestone	Cattaraugas	1970	I	Dep Res	8,113	1,113
223	NY	National Fuel Gas Supply Corp.	Beech Hill	Allegany	1980	A	Dep Res	9,900	15
224	NY	National Fuel Gas Supply Corp.	Bennington	Erie, Wyoming	1951	A	Dep Res	1,800	56
225	NY	National Fuel Gas Supply Corp.	Colden	Erie	1952	A	Dep Res	7,550	115
226	NY	National Fuel Gas Supply Corp.	Collins	Erie	1948	A	Dep Res	2,850	42
227	NY	National Fuel Gas Supply Corp.	Derby	Erie	1950	A	Dep Res	250	3
228	NY	Columbia Transmission Corp.	Dundee	Schuyler, Steuben, Yates	1940	A	Dep Res	3,600	61
229	NY	National Fuel Gas Supply Corp.	East Independence	Allegany	1972	A	Dep Res	2,200	7
230	NY	Columbia Transmission Corp.	Greenwood	Steuben	1942	A	Dep Res	147	4
231	NY	National Fuel Gas Supply Corp.	Holland	Erie	1949	A	Dep Res	1,100	30
232	NY	Honeoye Storage Corp.	Honeoye	Ontario	1975	A	Dep Res	6,572	55
233	NY	National Fuel Gas Supply Corp.	Lawtons	Erie	1946	A	Dep Res	970	20
234	NY	National Fuel Gas Supply Corp.	Limestone	Cattaraugas	1970	A	Dep Res	2,000	20
235	NY	National Fuel Gas Supply Corp.	Nashville	Cattaraugus; Chautauqua	1956	A	Dep Res	3,930	71
236	NY	Columbia Transmission Corp.	North Greenwood	Steuben	1971	A	Dep Res	490	3
237	NY	National Fuel Gas Supply Corp.	Perrysburg	Cattaraugus	1961	A	Dep Res	1,850	36
238	NY	National Fuel Gas Supply Corp.	Sheridan	Chautauqua	1937	A	Dep Res	1,100	15
239	NY	Inergy	Stagecoach	Tioga	2001	A	Dep Res	13,600	500
240	NY	National Fuel Gas Supply Corp.	Tuscarora	Steuben	1950	A	Dep Res	3,800	49
241	NY	National Fuel Gas Supply Corp.	West Independence	Allegany	1980	A	Dep Res	7,300	15
242	NY	Dominion	Woodhull	Steuben	1957	A	Dep Res	18,477	357
243	NY	National Fuel Gas Supply Corp.	Zoar	Erie, Cattaraugus	1916	A	Dep Res	600	50
244	OH	Columbia Gas of Ohio	Benton	Hocking, Vinton	1936	A	Dep Res	7,650	128
245	OH	Columbia Gas of Ohio	Brinker	Columbiana	1940	A	Dep Res	2,746	47
246	OH	East Ohio Gas Company	Chippewa	Wayne	1941	A	Dep Res	1,814	546
247	OH	East Ohio Gas Company	Columbiana	Columbiana	1950	A	Dep Res	1,015	30
248	OH	Columbia Gas of Ohio	Crawford	Fairfield, Hocking	1977	A	Dep Res	23,133	189
249	OH	East Ohio Gas Company	Gabor	Wayne	1961	A	Dep Res	306	108
250	OH	Columbia Gas of Ohio	Guernsey	Guernsey, Choton,Mskngm	1954	A	Dep Res	1,667	36

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251	OH	Columbia Gas of Ohio	Holmes	Holmes, Wayne	1954	A	Dep Res	2,586	40
252	OH	Columbia Gas of Ohio	Laurel	Hocking	1950	A	Dep Res	7,847	165
253	OH	Columbia Gas of Ohio	Lorain	Lorian	1948	A	Dep Res	3,354	64
254	OH	Columbia Gas of Ohio	Lucas	Ashland	1936	A	Dep Res	24,325	338
255	OH	Columbia Gas of Ohio	McArthur	Vinton	1957	A	Dep Res	4,904	82
256	OH	Columbia Gas of Ohio	Medina	Medina	1958	A	Dep Res	1,972	73
257	OH	National Gas and Oil Corp.	Muskie	Muskingum	1973	A	Dep Res	350	3
258	OH	Columbia Gas of Ohio	Pavonia	Ashland, Richland	1951	A	Dep Res	24,717	171
259	OH	National Gas and Oil Corp.	Perry	Perry	1956	A	Dep Res	1,081	18
260	OH	East Ohio Gas Company	Stark-Summit	Stark	1941	A	Dep Res	55,727	2,134
261	OH	Columbia Gas of Ohio	Wayne	Ashland, Holmes, Wayne	1953	A	Dep Res	5,395	110
262	OH	Columbia Gas of Ohio	Weaver	Ashland, Knox, Richland	1937	A	Dep Res	19,568	136
263	OH	Columbia Gas of Ohio	Wellington	Lorian, Medina	1947	A	Dep Res	7,551	162
264	OH	National Gas and Oil Corp.	Zane	Muskingum	1954	A	Dep Res	1,155	12
265	OK	Centerpoint Energy Gas Transmission	Ada	Pontotoc	1928	A	Dep Res	12,000	330
266	OK	Salt Plains Gas Storage	Anadarko	Grant	1996	A	Dep Res	15,000	200
267	OK	Centerpoint Energy Gas Transmission	Chiles Dome	Coal	1980	A	Dep Res	12,000	265
268	OK	Oklahoma Natural Gas Co.	Depew	Creek	1950	A	Dep Res	20,150	750
269	OK	ConocoPhillips	Enfisco	Osage	1952	A	Dep Res	802	11
270	OK	Transok Pipeline	Greasy Creek	Hughes	1973	A	Dep Res	18,000	450
271	OK	Oklahoma Natural Gas Co.	Haskell	Muskogee	1944	A	Dep Res	3,580	43
272	OK	Southwest Gas Storage Co. (PEPL)	North Hopeton	Woods	1976	A	Dep Res	9,273	75
273	OK	Energy Power	Okfuskee	Okfuskee	2001	A	Dep Res	30,000	600
274	OK	Oklahoma Natural Gas Co.	Osage	Osage	1943	A	Dep Res	1,490	50
275	OK	Natural Gas Pipeline Co. of America/Oneok	Sayre	Beckham	1953	A	Dep Res	57,100	620
276	OK	Central Oklahoma Oil & Gas	Stuart	Hughes	1995	A	Dep Res	8,000	400
277	OK	Southern Star Central	Webb	Grant	1966	A	Dep Res	12,500	203
278	OK	Oklahoma Natural Gas Co.	West Edmond	Logan Kingfisher	1961	A	Dep Res	17,380	625
279	OK	ZCA Gas Gathering	Woolaroc	Osage	1951	I	Dep Res	115	5
280	OR	Northwest Natural Gas	Calvin Creek-Als	Columbia	1998	A	Dep Res	1,750	100
281	OR	Northwest Natural Gas	Mist	Columbia	1989	A	Dep Res	8,700	210
282	PA	T. W. Phillips Gas & Oil Co.	Alabran	Indiana	1954	A	Dep Res	180	1
283	PA	Columbia Transmission Corp.	Artemas "A"	Bedford	1972	A	Dep Res	8,337	228
284	PA	Columbia Transmission Corp.	Artemas "B"	Bedford, Allegany	1972	A	Dep Res	1,079	44
285	PA	National Fuel Gas Supply Corp.	Belmouth	Elk	1938	A	Dep Res	800	10
286	PA	Columbia of Penn., Inc.	Blackhawk	Beaver	1969	A	Dep Res	955	10
287	PA	National Fuel Gas Supply Corp.	Boone Mt'n	Elk Clearfield	1947	A	Dep Res	930	10
288	PA	Equitrans, Inc.	Bunola	Alleghany	1938	A	Dep Res	3,500	200
289	PA	T. W. Phillips Gas & Oil Co.	Clark	Indiana	1974	A	Dep Res	347	4
290	PA	Peoples Natural Gas Co.	Colvin	Washington	1943	A	Dep Res	510	30

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291	PA	National Fuel Gas Supply Corp.	Corry	Erie	1955	A	Dep Res	200	20
292	PA	National Fuel Gas Supply Corp.	Deerlick	Warren	1950	I	Dep Res	25	5
293	PA	Columbia Transmission Corp.	Donegal	Washington	1940	A	Dep Res	3,972	213
294	PA	National Fuel Gas Supply Corp.	Duhring	Forest	1947	I	Dep Res	9	1
295	PA	National Fuel Gas Supply Corp.	East Branch	Warren, McKean	1948	A	Dep Res	4,500	55
296	PA	Dominion	Ellisburg	Potter	1963	A	Dep Res	55,531	1,046
297	PA	T. W. Phillips Gas & Oil Co.	Fair-Helm	Armstrong	1961	I	Dep Res	17	1
298	PA	Equitrans, Inc.	Finleyville	Washington	1934	A	Dep Res	300	42
299	PA	National Fuel Gas Supply Corp.	Galbraith	Jefferson	1937	A	Dep Res	1,900	25
300	PA	Peoples Natural Gas Co.	Gamble-Hayden	Allegheny	1943	A	Dep Res	1,122	20
301	PA	T. W. Phillips Gas & Oil Co.	Gourley-Miller	Clearfield	1957	I	Dep Res	30	3
302	PA	Dominion	Greenlick	Potter, Clinton	1961	A	Dep Res	28,830	1,050
303	PA	Dominion	Harrison	Potter	1953	A	Dep Res	20,718	455
304	PA	Columbia Transmission Corp.	Heard *	Green, Washington	1943	I	Dep Res	1,038	2
305	PA	National Fuel Gas Supply Corp.	Hebron	Potter	1953	A	Dep Res	17,270	440
306	PA	National Fuel Gas Supply Corp.	Henderson	Mercer, Venango	1934	A	Dep Res	2,500	25
307	PA	Columbia Transmission Corp.	Holbrook	Greene	1950	I	Dep Res	400	8
308	PA	T. W. Phillips Gas & Oil Co.	Hughes	Butler	1955	A	Dep Res	24	5
309	PA	Equitrans, Inc.	Hunters Cave	Greene	1943	A	Dep Res	2,040	35
310	PA	National Fuel Gas Supply Corp.	Keelor	McKean	1946	A	Dep Res	2,400	60
311	PA	T. W. Phillips Gas & Oil Co.	Kinter	Indiana	1947	A	Dep Res	400	12
312	PA	Dominion	Leidy	Potter Clinton & Cameron	1959	A	Dep Res	55,081	1,224
313	PA	Columbia Transmission Corp.	Majorsville Deep *	Marshall, Greene & Washington	1937	I	Dep Res	3,846	47
314	PA	Columbia Transmission Corp.	Majorsville Shallow *	Marshall, Greene & Washington	1937	I	Dep Res	852	1
315	PA	National Fuel Gas Supply Corp.	Markle	Jefferson	1938	A	Dep Res	155	10
316	PA	North Penn Gas Co.	Meeker	Tioga	1943	A	Dep Res	3,700	35
317	PA	Columbia Transmission Corp.	Munderf	Jefferson	1943	I	Dep Res	7	0
318	PA	Peoples Natural Gas Co.	Murrysville	Allegheny	1939	A	Dep Res	1,530	40
319	PA	Dominion	North Summit	Fayette	1991	A	Dep Res	11,500	300
320	PA	Dominion	Oakford	Westmoreland	1951	A	Dep Res	81,400	1,400
321	PA	National Fuel Gas Supply Corp.	Owl's Nest	Elk	1949	A	Dep Res	650	7
322	PA	North Penn Gas Co.	Palmer (Tioga)	Tioga	1938	A	Dep Res	10,000	179
323	PA	Peoples Natural Gas Co.	Patton	Westmoreland	1948	I	Dep Res	63	8
324	PA	T. W. Phillips Gas & Oil Co.	Portman	Butler	1949	A	Dep Res	94	11
325	PA	Equitrans, Inc.	Pratt	Greene	1947	A	Dep Res	2,500	45
326	PA	National Fuel Gas Supply Corp.	Queen	Forest,Warren	1920	A	Dep Res	300	4
327	PA	Peoples Natural Gas Co.	Rager Mtn.	Cambria	1971	A	Dep Res	9,300	180
328	PA	Dominion	Sabinsville	Tioga	1951	A	Dep Res	17,697	418

Sacramento Natural Gas Storage
U.S. Natural Gas Storage Fields
Active & Inactive Depleted Reservoirs/Aquifers
(Sort Order: State, Field Name, Company Name)

	St	Company	Field	County	Year Activate	Status	Stor Type	Total Working Gas (MMcf)	Max Deliv. (MMcf/d)
329	PA	T. W. Phillips Gas & Oil Co.	Schmidt	Indiana	1954	I	Dep Res	NR	NR
330	PA	T. W. Phillips Gas & Oil Co.	Seanor	Westmoreland	1978	A	Dep Res	51	1
331	PA	Dominion	Sharon	Potter	1948	A	Dep Res	2,300	20
332	PA	T. W. Phillips Gas & Oil Co.	Smith-Park	Allegheny	1969	A	Dep Res	36	2
333	PA	Dominion	South Bend	Indiana, Armstrong	1951	A	Dep Res	5,810	200
334	PA	T. W. Phillips Gas & Oil Co.	Sprankle	Jefferson	1954	A	Dep Res	254	5
335	PA	National Fuel Gas Supply Corp.	St. Mary's	Elk	1936	A	Dep Res	220	2
336	PA	National Fuel Gas Supply Corp.	Summit	Erie	1959	A	Dep Res	1,600	55
337	PA	Equitrans, Inc.	Swartz	Greene	1949	A	Dep Res	550	35
338	PA	Equitrans, Inc.	Swartz (West)	Greene	1973	A	Dep Res	875	20
339	PA	National Fuel Gas Supply Corp.	Swede Hill	McKean	1950	A	Dep Res	300	6
340	PA	Dominion	Tamarack	Clinton	1972	A	Dep Res	6,120	60
341	PA	Equitrans, Inc.	Tepe	Allegheny	1936	A	Dep Res	650	45
342	PA	Dominion	Tioga	Tioga	1951	A	Dep Res	24,000	504
343	PA	Peoples Natural Gas Co.	Truittsburg	Clarion	1949	A	Dep Res	2,142	45
344	PA	T. W. Phillips Gas & Oil Co.	Vardy	Butler	1974	A	Dep Res	73	11
345	PA	Peoples Natural Gas Co.	Webster	Westmoreland	1945	A	Dep Res	551	15
346	PA	National Fuel Gas Supply Corp.	Wellendorf	McKean, Elk	1929	A	Dep Res	450	6
347	PA	National Fuel Gas Supply Corp.	Wharton	Potter, Cameron	1963	A	Dep Res	16,000	300
348	TN	Cambridge Resources	Lick Branch	Scott	1996	A	Dep Res	900	15
349	TX	PacifiCorp Power Marketing (prev.Aquila)	Ambassador	Clay	1958	I	Dep Res	872	40
350	TX	Houston Pipeline	Bammel	Harris	1965	A	Dep Res	52,200	1,300
351	TX	Oneok TX Gas Storage LP	Felmac	Gaines	1992	A	Dep Res	2,000	200
352	TX	Lower Colorado River Auth.	Hilbig	Bastrop	1994	A	Dep Res	4,000	60
353	TX	Falcon Gas Storage	Hill-Lake	Eastland	1962	A	Dep Res	10,400	300
354	TX	Terry Bennie	Jannellen	Brown	1960	I	Dep Res	90,605	350
355	TX	Katy Storage & Transportation	Katy	Fort Bend	1993	A	Dep Res	20,700	700
356	TX	Lone Star Pipeline	Lake Dallas	Denton	1966	A	Dep Res	2,960	120
357	TX	Lone Star Pipeline	LaPan	Clay	1978	A	Dep Res	3,425	120
358	TX	The Cumming Co., Inc.	Leeray	Stephens	1950	A	Dep Res	776	20
359	TX	Devon Energy	Lone Camp	Palo Pinto	1969	A	Dep Res	717	28
360	TX	Oneok TX Gas Storage LP	Loop	Gaines	1981	A	Dep Res	8,000	175
361	TX	Lone Star Pipeline	New York City	Clay	1954	A	Dep Res	5,650	120
362	TX	Natural Gas Pipeline Co. of America	North Lansing	Harrison	1975	A	Dep Res	82,200	1,100
363	TX	Lone Star Pipeline	Pecan Station	Tom Green	1965	I	Dep Res	1,310	38
364	TX	Enbridge Pipelines	Pickton	Hopkins	1981	A	Dep Res	6,100	15
365	TX	PacifiCorp Power Marketing (prev Tri-Star Energy/Aquila)	Pottsville South	Hamilton	1967	I	Dep Res	299	21
366	TX	Eastex Gas Storage	Rotherwood	Harris	1989	I	Dep Res	1,000	15
367	TX	Texas Utilities Fuel Co.	South Bryson (Strawn 1700)	Jack & Young	1973	A	Dep Res	6,465	268

Sacramento Natural Gas Storage
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(Sort Order: State, Field Name, Company Name)

	St	Company	Field	County	Year Activate	Status	Stor Type	Total Working Gas (MMcf)	Max Deliv. (MMcf/d)
368	TX	Lone Star Pipeline	Tri-Cities	Henderson	1954	A	Dep Res	1,993	275
369	TX	Lone Star Pipeline	View	Taylor	1953	I	Dep Res	1,058	26
370	TX	Tejas Gas	West Clear Lake	Harris	1970	A	Dep Res	96,000	800
371	TX	Falcon Gas Storage	Worsham-Steed	Jack	1978	A	Dep Res	8,000	100
372	UT	Questar Pipeline	Chalk Creek	Summit	1960	A	Aquifer	256	35
373	UT	Questar Pipeline	Clay Basin	Daggett	1976	A	Dep Res	51,276	736
374	UT	Questar Pipeline	Coalville	Summit	1972	A	Aquifer	692	60
375	VA	Virginia Gas Storage	Early Grove	Scott/Washington	1996	A	Dep Res	1,400	20
376	WA	Avista	Jackson Prairie Zones 2 & 9	Lewis	1964	A	Aquifer	21,125	925
377	WV	Hampshire Gas Co.	Augusta	Hampshire	1971	A	Dep Res	2,564	24
378	WV	Equitable	Bridgeport	Harrison	1937	A	Dep Res	4,182	82
379	WV	Columbia Transmission Corp.	Browns Creek	Kanawha, Putnam	1948	I	Dep Res	600	10
380	WV	Columbia Transmission Corp.	Cleveland	Randolph, Upshur, Webster	1952	I	Dep Res	33	6
381	WV	Columbia Transmission Corp.	Coco "A"	Kanawha	1950	A	Dep Res	21,186	492
382	WV	Columbia Transmission Corp.	Coco "B"	Kanawha	1951	A	Dep Res	3,335	228
383	WV	Columbia Transmission Corp.	Coco "C"	Kanawha	1957	A	Dep Res	7,062	225
384	WV	Equitrans, Inc.	Comet	Taylor	1936	A	Dep Res	2,800	70
385	WV	Columbia Transmission Corp.	Derricks Creek	Kanawha	1951	I	Dep Res	1,800	36
386	WV	Equitable	Fink-Kennedy- Lost Creek	Harrison, Lewis, Gilmer	1947	A	Dep Res	81,432	1,000
387	WV	Columbia Transmission Corp.	Glady	Randolph, Pocahontas	1964	A	Dep Res	12,947	308
388	WV	Columbia Transmission Corp.	Grapevine "A"	Kanawha	1949	I	Dep Res	455	5
389	WV	Columbia Transmission Corp.	Grapevine "B"	Kanawha	1949	I	Dep Res	2	1
390	WV	Hardy Storage	Hardy	Hardy & Hampshire	2007	A	Dep Res	7,000	100
391	WV	Equitrans, Inc.	Hayes	Marion	1956	A	Dep Res	93	8
392	WV	Columbia Transmission Corp.	Hunt	Kanawha	1951	A	Dep Res	883	12
393	WV	Columbia Transmission Corp.	Lake	Putnam	1952	I	Dep Res	650	7
394	WV	Columbia Transmission Corp.	Lanham	Kanawha, Putnam	1950	A	Dep Res	1,177	84
395	WV	Hampshire Gas Co.	Little Capon	Hampshire	1971	A	Dep Res	2,538	24
396	WV	Equitrans, Inc.	Logansport	Marion	1954	A	Dep Res	2,263	45
397	WV	Equitrans, Inc.	Maple Lake	Taylor	1947	A	Dep Res	850	11
398	WV	Equitrans, Inc.	Mobley	Wetzel	1963	A	Dep Res	4,200	85
399	WV	Equitable	Racket- Newberne	Ritchie, Gilmer	1947	A	Dep Res	4,446	80
400	WV	Cabot Corp.	Raleigh	Raleigh	1958	A	Dep Res	978	17
401	WV	Equitrans, Inc.	Rhodes	Lewis	1957	A	Dep Res	4,800	85
402	WV	Columbia Transmission Corp.	Ripley	Jackson	1954	A	Dep Res	10,985	125
403	WV	Columbia Transmission Corp.	Rockport	Jackson, Wood, Wirt	1953	A	Dep Res	3,413	91
404	WV	Equitrans, Inc.	Shirley	Tyler	1975	A	Dep Res	5,500	44
405	WV	Columbia Transmission Corp.	Sissonville	Kanawha	1949	I	Dep Res	250	8
406	WV	Equitrans, Inc.	Skin Creek	Lewis	1936	A	Dep Res	1,000	36
407	WV	Columbia Transmission Corp.	Terra Alta	Preston	1960	A	Dep Res	11,966	205

Sacramento Natural Gas Storage
U.S. Natural Gas Storage Fields
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(Sort Order: State, Field Name, Company Name)

	St	Company	Field	County	Year Activate	Status	Stor Type	Total Working Gas (MMcf)	Max Deliv. (MMcf/d)
408	WV	Columbia Transmission Corp.	Terra Alta South	Preston	1970	A	Dep Res	3,237	74
409	WV	Columbia Transmission Corp.	Victory "A"	Marshall, Wetzell	1953	A	Dep Res	2,600	60
410	WV	Columbia Transmission Corp.	Victory "B"	Marshall, Wetzell	1957	A	Dep Res	8,926	185
411	WV	Cabot Corp.	X-1 Heizer	Putnam	1950	A	Dep Res	3,050	46
412	WY	Williston Basin Int. P/L Co.	Billy Creek	Johnson	1947	A	Dep Res	542	5
413	WY	Northern Gas Co.	Bunker Hill	Carbon	1972	A	Dep Res	1,000	5
414	WY	Clear Creek Storage	Clear Creek	Uinta	1998	A	Dep Res	4,000	50
415	WY	Northern Gas Co.	East Mahoney	Carbon	1972	I	Dep Res	1,044	1
416	WY	Williston Basin Int. P/L Co.	Elk Basin	Park	1949	A	Dep Res	28,379	162
417	WY	Northern Gas Co.	Kirk Ranch	Fremont	1972	A	Dep Res	580	3
418	WY	Questar Pipeline	LeRoy	Uinta	1971	A	Aquifer	836	80
419	WY	Northern Gas Co.	Oil Springs	Carbon	1951	A	Dep Res	6,000	25

Grand Total		**3,649,747**	**75,860**
Total Active Facilities	**360**	**3,440,895**	**72,623**
Total InActive Facilities	**59**	**208,852**	**3,237**

Notes:

1) The Active/Inactive status was based on the facility's status as of 1/1/2007.
2) The Working Gas and Deliverability volumes for inactive storage facilties are zero as of 1/1/2007.
The Working Gas and Deliverability volumes listed for Inactive storage facilties represent the volumes in effect when the facility was last active.

ATTACHMENT "B": SNGS PROJECT DESCRIPTION

[See PEA Chapter 2.0, filed April 9, 2007]