APPENDIX B COMPRESSOR STATION, METER FACILITY, AND PIPELINE DESIGN DETAILS

Table A-1. Preliminary Compressor Station Equipment List

TAG NO	QTY	DESCRIPTION	Size	PFD DWG. NO.
	-		36" Barrel, 1.25" Wall, 17'-10"	
	1	Pig Launcher/ Receiver	Long	12361-1100-010
	2	Pig Receiver	16" Barrel, 0.938" Wall, 8'-8" Long	12361-1100-010
	1	Plant Flow Meter	20" OD x 72' Long	12361-1100-010
V-100	2	Slug Catcher (2 pieces)	32'-10" x 5'-4" & 29' x 5'-4"	12361-1100-010
V-100	2	ESD Valves	30" 600lb rating	12361-1100-010
	1	Actuated Valves	30" 600lb rating	12361-1100-010
C-300(A,	•	/ totaled valves	- co cools rating	12001 1100 010
B,C, D,		Compressor 9000 hp EMD/Ariel KVB		
E)	5	Frame	Skid 75' x 14'	12361-1100-011
	5	Gas Aftercooler (2 50 hp motor drive fans) Coalescing Filter Separator 1415 psig @ -	15' x 51' - 30mm btu/hr	12361-1100-011
	5	20/150 °F	Size TBD	12361-1100-011
F-300	1	Vortex Separator 1415 psig @ -20/150 °F	Size TBD	12361-1100-011
H-100	1	Heater (TBD)	Size TBD	12361-1100-011
	4	Actuated Valve (Monitor Regulators)	Size TBD	12361-1100-011
	9	Control Valve	16" - 1500lb rating	12361-1100-011
	1	Fixed Position Back Pressure Valve	16" - 1500lb rating	12361-1100-011
F-400 V-400 (A,	11	Filter Coalescer	Size TBD	12361-1100-011
B)	2	Dehydration Regen skid	13' x 40' x 12' H	12361-1100-011
	2	Overhead Cooler Skid	12' x 25' x 12' H	Vendor
	2	TEG Reboiler	72" O.D. x 24'	Vendor
	2	TEG Contactor	78" ID x 28' S/S	Vendor
	2	Stahl Column	20" O.D. x 10'	Vendor
	2	Still/Reflux condenser	30" O.D. x 20'	Vendor
	2	TEG Surge Tank	54" O.D. x 24'	Vendor
	1	Pig Launcher/Receiver Wellhead Flow meter Single Pass 1500lb	16" Barrel, 0.938" Wall, 8'-8" Long	12361-1100-012
V-600	6	rating Wellhead Separator 3540 psig @ -	Size TBD	12361-1100-012
(A,B,C,D)	3	20/150°F	24" O.D. x 96" Long	12361-1100-012
	1	Chemical Injection skid	10' x 10'	12361-1100-012
	1	Corrosion Inhibitor/Methanol Tank	Size TBD	12361-1100-012
	3	Control Valves	6" - 1500lb rating	12361-1100-012
	6	Actuated Valve	10" - 1500lb rating	12361-1100-012
	3	ESD Valve	10" - 1500lb rating	12361-1100-012
			16" Barrel, 0.938" Wall, 8'-8"	
	2	Pig Launcher/Receiver Wellhead Flow meter Single Pass 1500lb	Long	12361-1100-013
	6	rating	Size TBD	12361-1100-013

Table A-1. Preliminary Compressor Station Equipment List

TAG NO	QTY	DESCRIPTION	Size	PFD DWG. NO.
V-700		Wellhead Separator 3540 psig @ -		
(A,B,C)	3	20/150°F	24" O.D. x 96" Long	12361-1100-013
	1	Chemical Injection skid	10' x 10'	12361-1100-013
	1	Corrosion Inhibitor/Methanol Tank	Size TBD	12361-1100-013
	3	Control Valves	6" - 1500lb rating	12361-1100-013
	6	Actuated Valve	10" - 1500lb rating	12361-1100-013
	3	ESD Valve	10" - 1500lb rating	12361-1100-013
			20" Barrel, 0.938" Wall, 9'-7"	
•	2	Pig Launcher/Receiver Wellhead Flow meter Single Pass 1500lb	Long	12361-1100-014
V-800	6	rating Wellhead Separator 3540 psig @ -	Size TBD	12361-1100-014
(A,B,C)	3	20/150°F	24" O.D. x 96" Long	12361-1100-014
	1	Chemical Injection skid	10' x 10'	12361-1100-014
	1	Corrosion Inhibitor/Methanol Tank	Size TBD	12361-1100-014
	3	Control Valves	6" - 1500lb rating	12361-1100-014
	6	Actuated Valve	10" - 1500lb rating	12361-1100-014
	3	ESD Valve	10" - 1500lb rating	12361-1100-014
			20" Barrel, 0.938" Wall, 9'-7"	
•	1	Pig Launcher/Receiver	Long	12361-1100-015
V-800	6	Wellhead Flow meter Single Pass 1500lb rating Wellhead Separator 3540 psig @ -	Size TBD	12361-1100-015
(A,B,C)	3	20/150°F	24" O.D. x 96" Long	12361-1100-015
, ,	1	Chemical Injection skid	10' x 10'	12361-1100-015
	1	Corrosion Inhibitor/Methanol Tank	Size TBD	12361-1100-015
	3	Control Valves	6" - 1500lb rating	12361-1100-015
	6	Actuated Valve	10" - 1500lb rating	12361-1100-015
	3	ESD Valve Produced Water Storage Tank (750 Bbl	10" - 1500lb rating	12361-1100-015
T-500	3	API-12F)	15'-6" O.D. x 24" High	12361-1100-016
P-500	1	Produced Water Disposal Pump TBD	Size TBD	12361-1100-016
				Electrical
	5	VFD's (1400.13kv-6kv 380fla)	10' x 35'	Drawings Electrical
	1	Transformer 1000.115kvD-13.8kvY	12' x 20'	Drawings
	2	MCC (1010.480V 1600aH 800aV 65kal)	10' x 40'	Electrical Drawings
	1	13kv Switch gear	TBD	Electrical Drawings Electrical
	1	Transformer 1001. 13kvD-480vY	12' x 20'	Electrical Drawings Electrical
	3	Manual 115Kv1200a No Load Switch	TBD	Drawings
	3	BusMtd 115Kv74kMCOV Arrestor	TBD	Electrical

Table A-1. Preliminary Compressor Station Equipment List

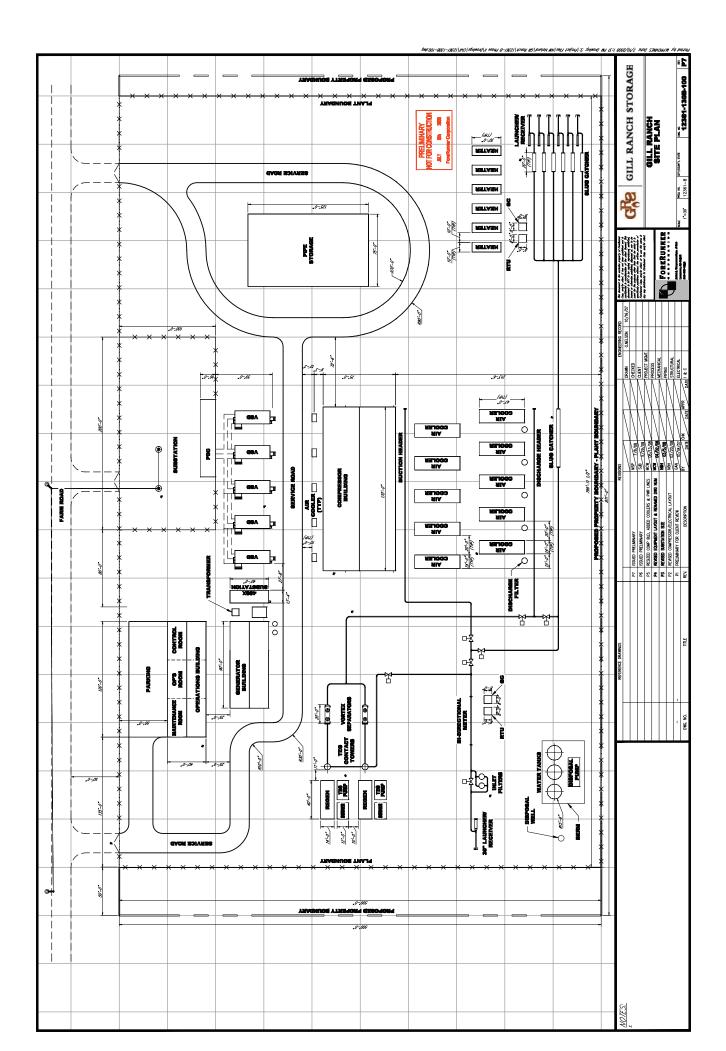
TAG NO	QTY	DESCRIPTION	Size	PFD DWG. NO.
				Drawings
		BusMtd Combo Current Voltage		Electrical
	3	Transformer	TBD	Drawings
				Electrical
	1	Revenue Meter	TBD	Drawings
				Electrical
	1	GFC Switch 115Kv1200a	TBD	Drawings
				Electrical
	2	Communication Tower	Apprx 100'	Drawings

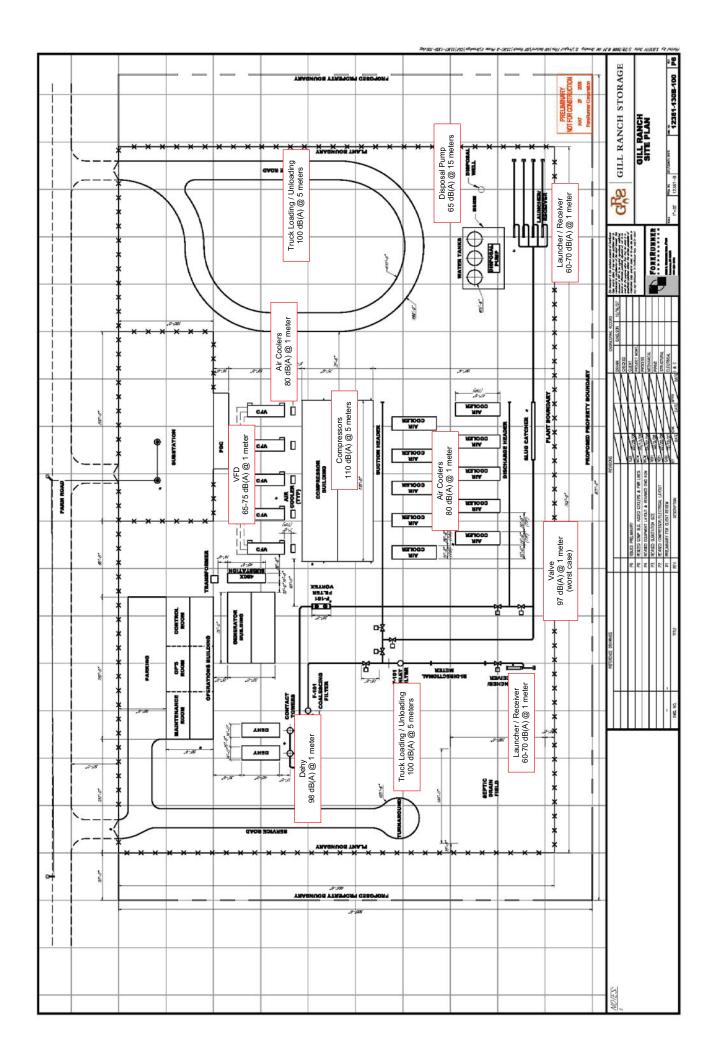
Table A-2. Compressor Station Estimated Surface Area of Impervious Surfaces

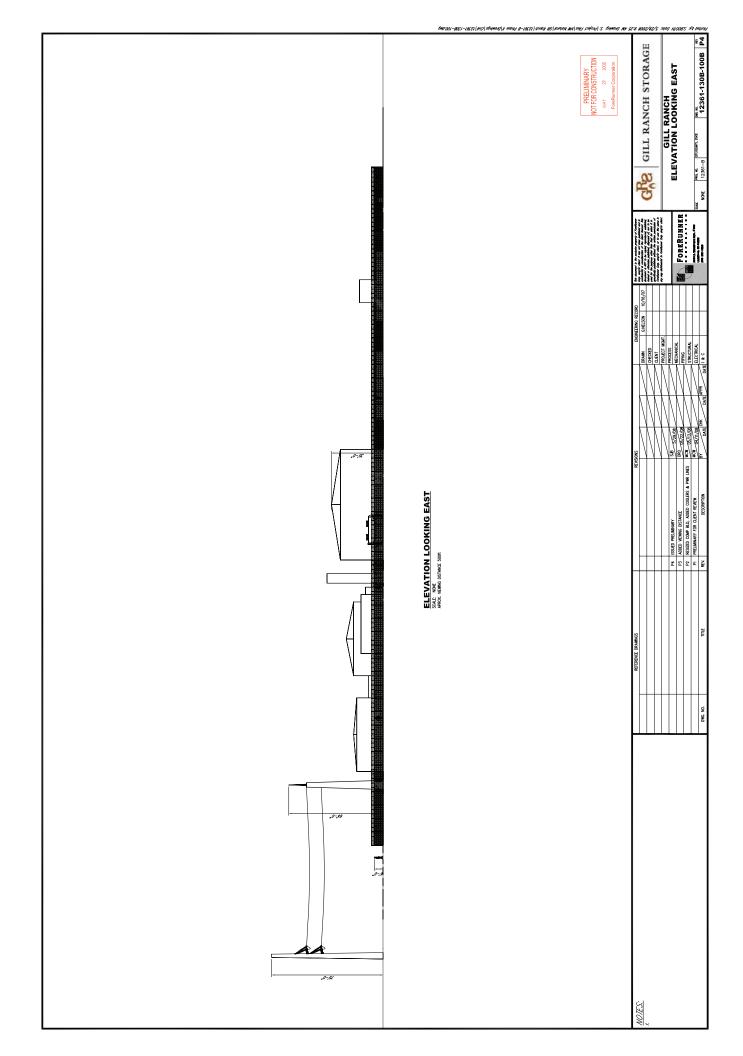
Description	Length	Width	Number	Total SA				
Compressor Bldg	165	65	1	7507.5				
Air Coolers	15	49	5	3675				
Water Tank & Containment	65	50	1	3250				
Main Transformer Pad	12	20	1	240				
Protective Relay Enclosure	8	8	1	64				
PDC	80	16	1	1280				
Generator Bldg	75	50	1	3750				
420V MCC	10	40	1	400				
480V Transformer	10	10	1	100				
Operations Bldg	150	50	1	7500				
Dehy Regen Skids	14	40	2	1120				
Dehy Towers	15	15	2	450				
Compressor VFD's	10	35	5	1750				
Service Road E	1131	20	1	22620				
Service Road W	325	20	1	6500				
Estimate surface area with 20% extra factor 72247.8 sq ft								

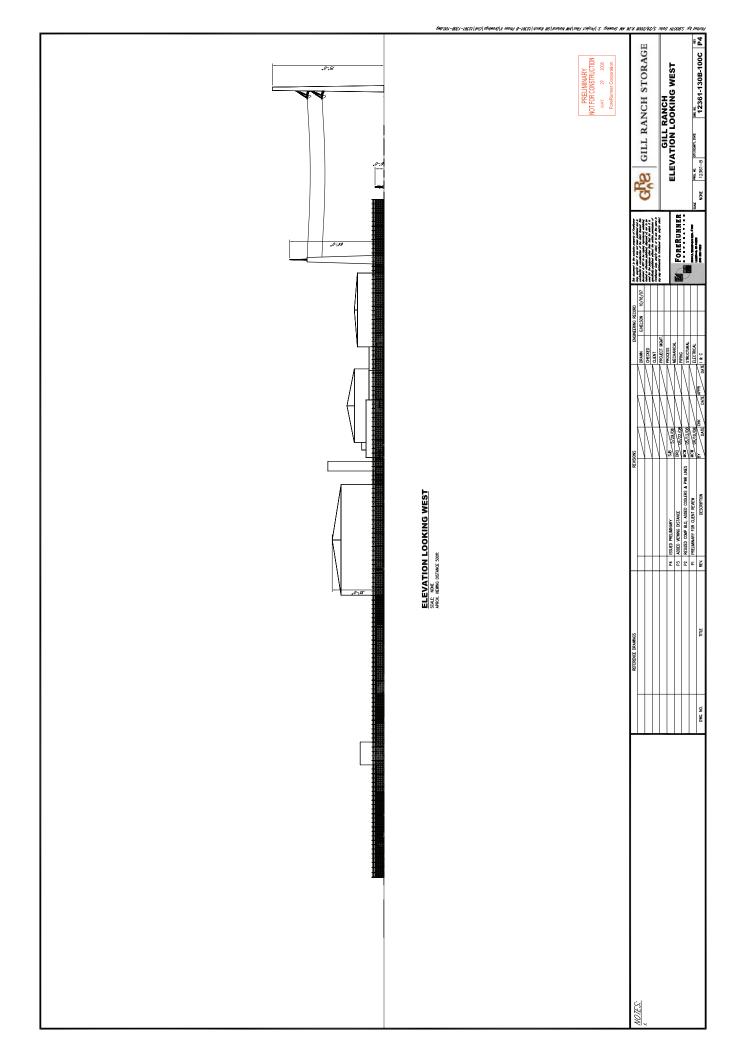
Table A-2. Compressor Station Estimated Surface Area of Impervious Surfaces

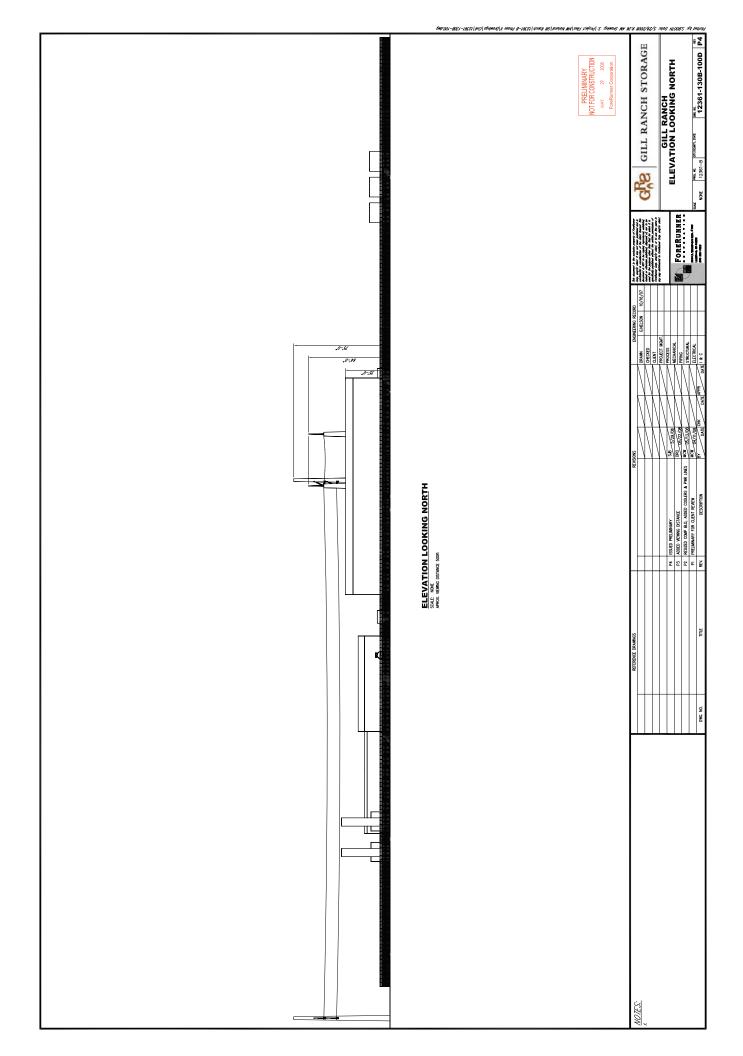
Description	Length	Width	Number	Total SA				
Compressor Bldg	165	65	1	7507.5				
Air Coolers	15	49	5	3675				
Water Tank & Containment	65	50	1	3250				
Main Transformer Pad	12	20	1	240				
Protective Relay Enclosure	8	8	1	64				
PDC	80	16	1	1280				
Generator Bldg	75	50	1	3750				
420V MCC	10	40	1	400				
480V Transformer	10	10	1	100				
Operations Bldg	150	50	1	7500				
Dehy Regen Skids	14	40	2	1120				
Dehy Towers	15	15	2	450				
Compressor VFD's	10	35	5	1750				
Service Road E	1131	20	1	22620				
Service Road W	325	20	1	6500				
Estimate surface area with 20% extra factor 72247.8 sq ft								

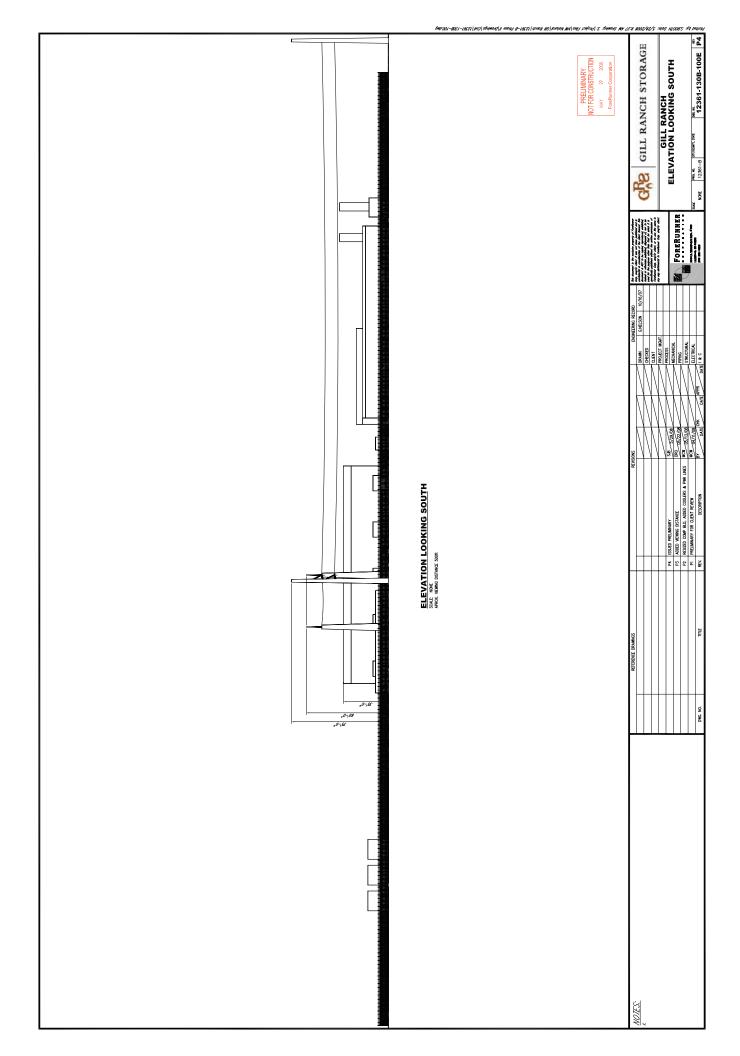


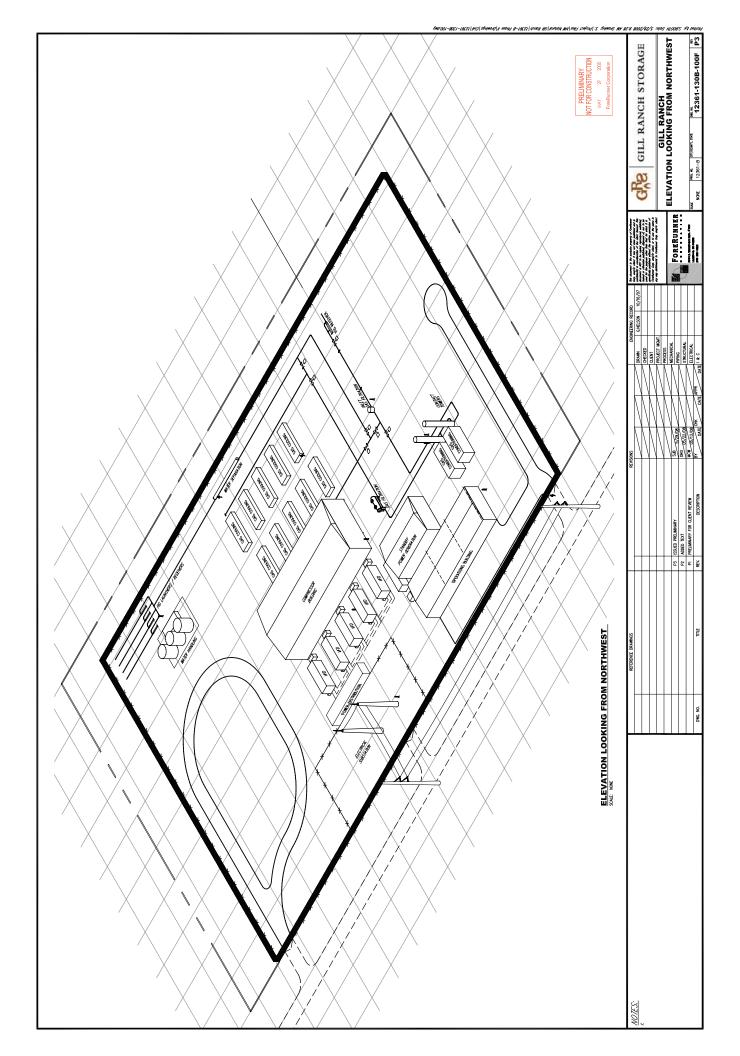


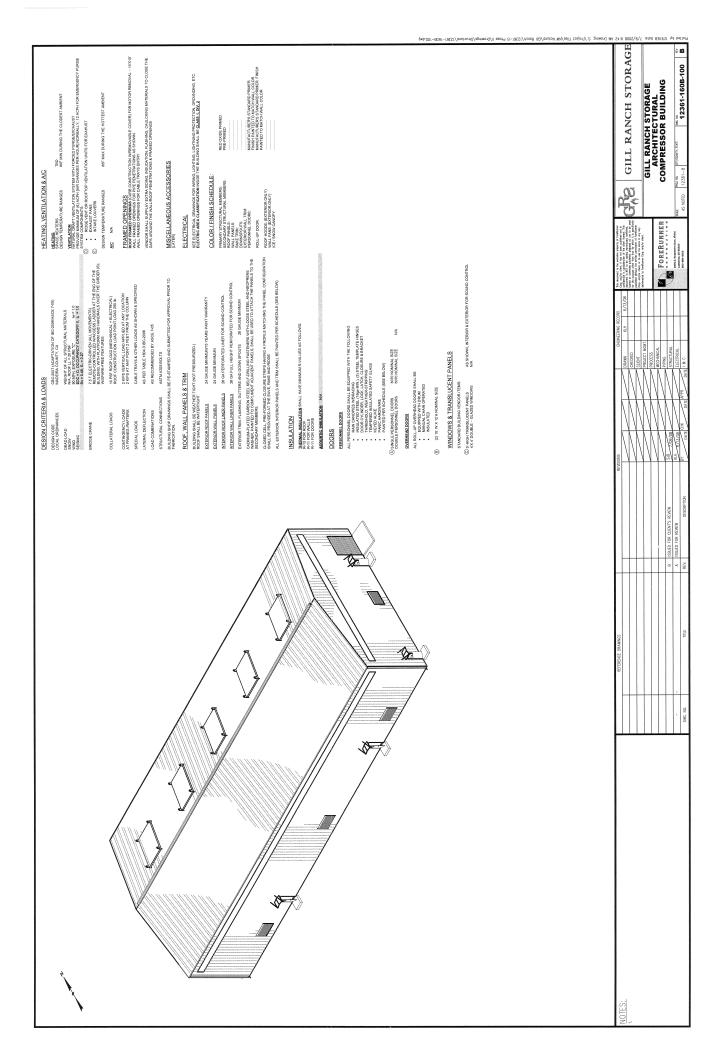












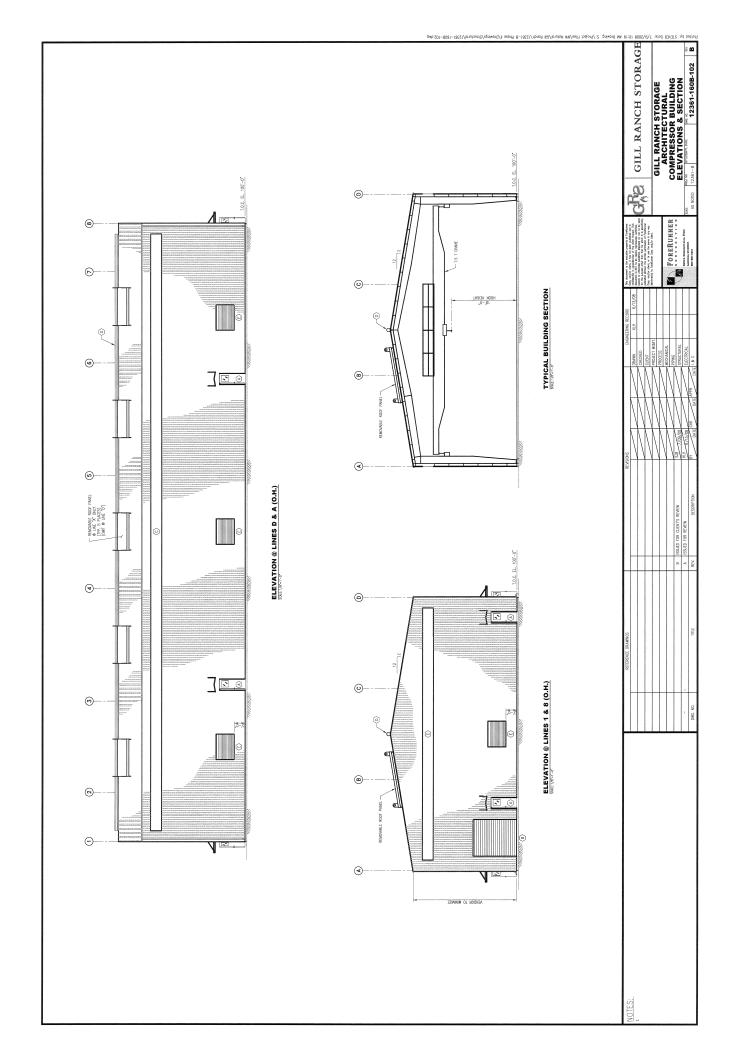
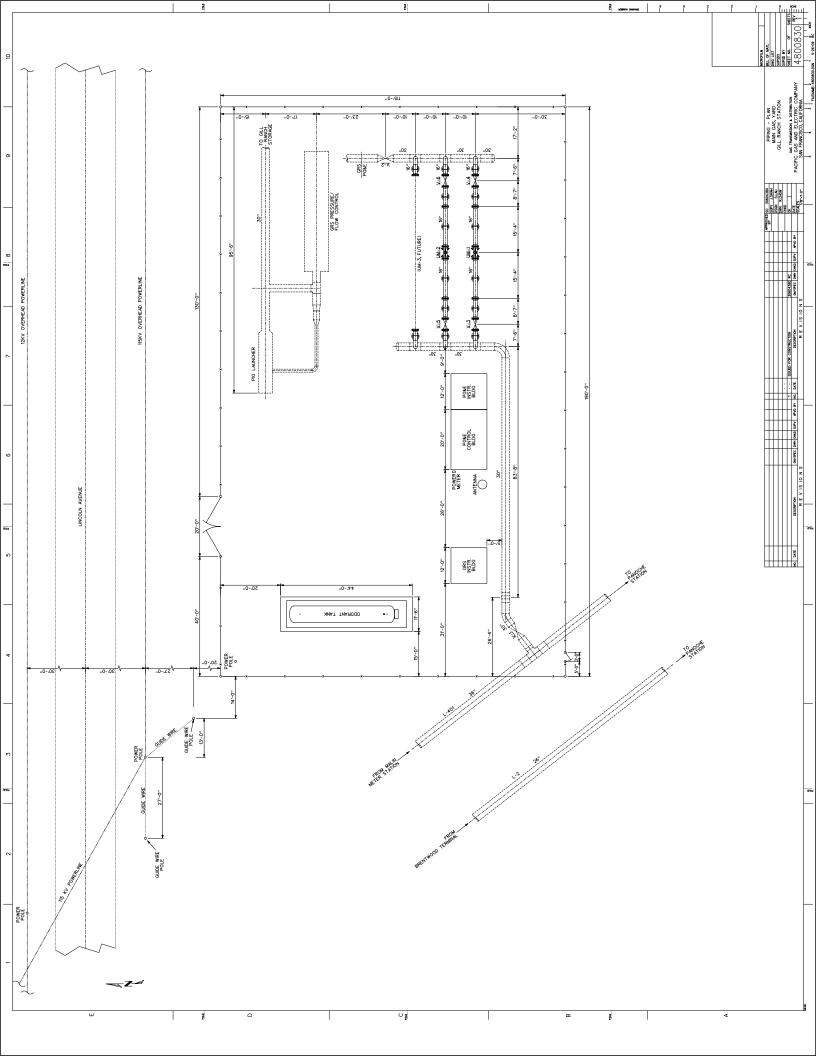


Table A-3. Storage Tap Facility Equipment List

TAG NO	QTY	ForeRunner Equipment	Size	PFD DWG. NO.
			36" Barrel 1.25" Wall	
	1	Pig Launcher	17' -10" Long	TBD
	1	Block Valve	30" –600lb rating	TBD
	2	Blow Down Valve	4" – 600lb rating	TBD
		PLC	TBD	TBD
		Radio Tower	Apprx. 40'-100'	TBD

TAG NO	QTY	QTY PG&E Equipment Size		PFD DWG. NO.
TBD	TBD	Pressure Relief	Size TBD	TBD
TBD	TBD	ESD Valve	Size TBD	TBD
TBD	TBD	All other Equip TBD	Size TBD	TBD



GR GILL RANCH STORAGE 12361-130D-200 P4 GILL RANCH STORAGE TYPICAL WELL PAD SITE LAYOUT FORERUNNER

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Electric and Magnetic Fields

The California Public Utilities Commission (CPUC) and the California Department of Health Services (CDHS) have not concluded that exposure to magnetic fields from utility electric facilities is a health hazard. Many reports have concluded that the potential for health effects associated with electric and magnetic field (EMF) exposure is too speculative to allow the evaluation of impacts or the preparation of mitigation measures.

EMF is a term used to describe electric and magnetic fields that are created by electric voltage (electric field) and electric current (magnetic field). Power frequency EMF is a natural consequence of electrical circuits, and can be either directly measured using the appropriate measuring instruments or calculated using appropriate information.

Electric Fields

Electric fields are present whenever voltage exists on a wire, and are not dependent on current. The magnitude of the electric field is primarily a function of the configuration and operating voltage of the line and decreases with the distance from the source (line). The electric field can be shielded (i.e., the strength can be reduced) by any conducting surface, such as trees, fences, walls, buildings, and most types of structures. The strength of an electric field is measured in volts per meter (V/m) or kilovolts per meter (kV/m).

Magnetic Fields

Magnetic fields are present whenever current flows in a conductor, and are not dependent on the voltage present on the conductor. The strength of these fields also decreases with distance from the source. However, unlike electric fields, most common materials have little shielding effect on magnetic fields.

The magnetic field strength is a function of both the current on the conductor and the design of the system. Magnetic fields are measured in units called Gauss. However, for the low levels normally encountered near power systems, the field strength is expressed in a much smaller unit, the milligauss (mG), which is one thousandth of a Gauss.

Power frequency EMF is present where electricity is used. This includes not only utility transmission lines, distribution lines, and substations, but also the building wiring in homes, offices, and schools, and in the appliances and machinery used in these locations. Typical magnetic fields from these sources can range from below 1 mG to above 1,000 mG (1 Gauss).

Magnetic field strengths diminish with distance. Fields from compact sources (i.e., those containing coils such as small appliances and transformers) decrease in inverse proportion to the distance from the source cubed. For three-phase power lines with balanced currents, the

magnetic field strength drops off inversely proportional to the distance from the line squared. Fields from unbalanced currents, which flow in paths such as neutral or ground conductors, fall off inversely proportional to the distance from the source. Conductor spacing and configuration also affect the rate at which the magnetic field strength decreases.

The magnetic field levels of PG&E's overhead and underground transmission lines will vary depending upon customer power usage. Magnetic field strengths for typical PG&E transmission line loadings at the edge of rights-of-way are approximately 10 to 90 mG. Under peak load conditions, the magnetic fields at the edge of the right-of-way would not likely exceed 150 mG. There are no long-term, health-based state or federal government EMF exposure standards. State regulations for magnetic fields have been developed in New York and Florida (150 mG and 200 mG at the edge of the right-of-way). However, these are based on limiting exposure from new facilities to levels no greater than existing facilities.

The strongest magnetic fields around the outside of a substation come from the power lines entering and leaving the station. The strength of the magnetic fields from transformers and other equipment decreases quickly with distance. Beyond the substation fence, the magnetic fields produced by the equipment within the station are typically indistinguishable from background levels.

Possible Health Effects

The possible effects of EMF on human health have come under scientific scrutiny. Concern about EMF originally focused on electric fields; however, much of the recent research has focused on magnetic fields. Uncertainty exists as to what characteristics of magnetic field exposure need to be considered to assess human exposure effects. Among the characteristics considered are field intensity, transients, harmonics, and changes in intensity over time. These characteristics may vary from power lines to appliances to home wiring, and this may create different types of exposures. The exposure most often considered is intensity or magnitude of the field.

There is a consensus among the medical and scientific communities that there is insufficient evidence to conclude that EMF causes adverse health effects. Neither the medical nor scientific communities have been able to provide any foundation upon which regulatory bodies could establish a standard or level of exposure that is known to be either safe or harmful. Laboratory experiments have shown that magnetic fields can cause biologic changes in living cells, but scientists are not sure whether any risk to human health can be associated with them. Some studies have suggested an association between surrogate measures of magnetic fields and certain cancers while others have not.

California Public Utilities Commission Decision Summary

Background

On January 15, 1991, the CPUC initiated an investigation to consider its role in mitigating the health effects, if any, of electric and magnetic fields from utility facilities and power lines. A working group of interested parties, called the California EMF Consensus Group, was created by the CPUC to advise it on this issue. It consisted of 17 stakeholders representing citizens groups, consumer groups, environmental groups, state agencies, unions, and utilities. The Consensus Group's fact-finding process was open to the public, and its report incorporated concerns expressed by the public. Its recommendations were filed with the Commission in March 1992.

In August 2004 the CPUC began a proceeding known as a "rulemaking" (R.04-08-020) to explore whether changes should be made to existing CPUC policies and rules concerning EMF from electric transmission lines and other utility facilities.

Through a series of hearings and conferences, the Commission evaluated the results of its existing EMF mitigation policies and addressed possible improvements in implementation of these policies. The CPUC also explored whether new policies are warranted in light of recent scientific findings on the possible health effects of EMF exposure.

The CPUC completed the EMF rulemaking in January 2006 and presented these conclusions in Decision D.06-01-042:

- The CPUC affirmed its existing policy of requiring no-cost and low-cost mitigation measures to reduce EMF levels from new utility transmission lines and substation projects.
- The CPUC adopted rules and policies to improve utility design guidelines for reducing EMF, and provides for a utility workshop to implement these policies and standardize design guidelines.
- Despite numerous studies, including one ordered by the Commission and conducted by the California Department of Health Services, the CPUC stated "we are unable to determine whether there is a significant scientifically verifiable relationship between EMF exposure and negative health consequences."
- The CPUC said it will "remain vigilant" regarding new scientific studies on EMF, and if these studies indicate negative EMF health impacts, the Commission will reconsider its EMF policies and open a new rulemaking if necessary.

In response to a situation of scientific uncertainty and public concern, the decision specifically requires PG&E to consider "no-cost" and "low-cost" measures, where feasible, to reduce exposure from new or upgraded utility facilities. It directs that no-cost mitigation measures be undertaken, and that low-cost options, when they meet certain guidelines for field reduction and cost, be adopted through the project certification process. PG&E was directed to develop, submit and follow EMF guidelines to implement the CPUC decision. Four percent of total project budgeted cost is the benchmark in implementing EMF mitigation, and mitigation measures should achieve incremental magnetic field reductions of at least 15%.

Reviews of EMF Studies

Hundreds of EMF studies have been conducted over the last 20 years in the areas of epidemiology, animal research, cellular studies, and exposure assessment. A number of nationally recognized multi-discipline panels have performed comprehensive reviews of the body of scientific knowledge on EMF. These panels' ability to bring experts from a variety of disciplines together to review the research gives their reports recognized credibility. It is standard practice in risk assessment and policymaking to rely on the findings and consensus opinions of these distinguished panels. None of these groups have concluded that EMF causes adverse health effects or that the development of standards were appropriate or would have a scientific basis.

Reports by the National Research Council/National Academy of Sciences, American Medical Association, American Cancer Society, National Institute of Environmental Health Sciences, World Health Organization, International Agency for Research on Cancer, and California Department of Health Services conclude that insufficient scientific evidence exists to warrant the adoption of specific health-based EMF mitigation measures. The potential for adverse health effects associated with EMF exposure is too speculative to allow the evaluation of impacts or the preparation of mitigation measures.

National Institute of Environmental Health Sciences

In June of 1999, the federal government completed a \$60-million EMF research program managed by the National Institute of Environmental Health Sciences (NIEHS) and the Department of Energy (DOE). Known as the EMF RAPID (Research And Public Information Dissemination) Program. In their report to the U.S. Congress, the NIEHS concluded that:

The NIEHS believes that the probability that ELF-EMF exposure is truly a health hazard is currently small. The weak epidemiological associations and lack of any laboratory support for these associations provide only marginal, scientific support that exposure to this agent is causing any degree of harm.

The NIEHS report also included the following conclusions:

The National Toxicology Program routinely examines environmental exposures to determine the degree to which they constitute a human cancer risk and produces the 'Report on Carcinogens' listing agents that are 'known human carcinogens' or 'reasonably anticipated to be human carcinogens.' It is our opinion that based on evidence to date, ELF-EMF exposure would not be listed in the 'Report on Carcinogens' as an agent 'reasonably anticipated to be a human carcinogen.' This is based on the limited epidemiological evidence and the findings from the EMF-RAPID Program that did not indicate an effect of ELF-EMF exposure in experimental animals or a mechanistic basis for carcinogenicity.

The NIEHS agrees that the associations reported for childhood leukemia and adult chronic lymphocytic leukemia cannot be dismissed easily as random or negative findings. The lack of positive findings in animals or in mechanistic studies weakens the belief that this association is actually due to ELF-EMF, but cannot completely discount the finding. The NIEHS also agrees with the conclusion that no other cancers or non-cancer health outcomes provide sufficient evidence of a risk to warrant concern.

Epidemiological studies have serious limitations in their ability to demonstrate a cause and effect relationship whereas laboratory studies, by design, can clearly show that cause and effect are possible. Virtually all of the laboratory evidence in animals and humans and most of the mechanistic work done in cells fail to support a causal relationship between exposure to ELF-EMF at environmental levels and changes in biological function or disease status. The lack of consistent, positive findings in animal or mechanistic studies weakens the belief that this association is actually due to ELF-EMF, but it cannot completely discount the epidemiological findings.

The NIEHS suggests that the level and strength of evidence supporting ELF-EMF exposure as a human health hazard are insufficient to warrant aggressive regulatory actions; thus, we do not recommend actions such as stringent standards on electric appliances and a national program to bury all transmission and distribution lines. Instead, the evidence suggests passive measures such as a continued emphasis on educating both the public and the regulated community on means aimed at reducing exposures. NIEHS suggests that the power industry continue its current practice of siting power lines to reduce exposures and continue to explore ways to reduce the creation of magnetic fields around transmission and distribution lines without creating new hazards. We also encourage technologies that lower exposures from neighborhood distribution lines provided that they do not increase other risks, such as those from accidental electrocution or fire.

U.S. National Research Council/ National Academy of Sciences

In May 1999, the National Research Council/ National Academy of Sciences, an independent scientific agency responsible for advising the federal government on science, technology, and medicine, released its evaluation of the scientific and technical content of research projects conducted under the U.S. EMF RAPID Program, concluding that:

The results of the EMF-RAPID program do not support the contention that the use of electricity poses a major unrecognized public-health danger. Basic research on the effects of power-frequency magnetic fields on cells and animals should continue, but a special research-funding effort is not required. Investigators should compete for funding through traditional research-funding mechanisms. If future research on this subject is funded through such mechanisms, it should be limited to tests of well-defined mechanistic hypotheses or replications of reported positive effects. If carefully performed, such experiments will have value even if their results are negative. Special efforts should be made to communicate the conclusions of this effort to the general public effectively.

The following specific recommendations are made by the committee:

- The committee recommends that no further special research program focused on possible health effects of power-frequency magnetic fields be funded. Basic research on the effects of power-frequency magnetic fields on cells and animals should continue but investigators should compete for funding through traditional research funding mechanisms.
- 2. If, however, Congress determines that another time-limited, focused research program on the health effects of power-frequency magnetic fields is warranted, the committee recommends that emphasis be placed on replications of studies that have yielded scientifically promising claims of effects and that have been reported in peer-reviewed journals. Such a program would benefit from the use of a contract-funding mechanism with a requirement for complete reports and/or peer-reviewed publications at program's end.
- 3. The engineering studies were initiated without the guidance of a clearly established biologic effect. The committee recommends that no further engineering studies be funded unless a biologic effect that can be used to plan the engineering studies has been determined.
- 4. Much of the information from the EMF-RAPID biology program has not been published in peer-reviewed journals. NIEHS should collect all future peer-reviewed information resulting from the EMF-RAPID biology projects and publish a summary report of such information periodically on the NIEHS Web site.
- 5. The communication effort initiated by EMF-RAPID is reasonable. The two booklets and the telephone information line are useful, as is the EMF-RAPID Internet site. There are two limitations to the effort. First, it is largely passive, responding to inquiries and providing information, rather than being active. Second, much of the information

produced is in a scientific format not readily understandable by the public. The committee recommends that further material produced to disseminate information on power-frequency magnetic fields be written for the general public in a clear fashion. The Web site should be made more user-friendly. The booklet *Questions and Answers about EMF* should be updated periodically and made available to the public.

World Health Organization

The World Health Organization (WHO) established the International EMF Project in 1996 to investigate potential health risks associated with exposure to electric and magnetic fields (EMF). A WHO Task Group recently concluded a review of the health implications of extremely low frequency (ELF) EMF.

A Task Group of scientific experts was convened in 2005 to assess any risks to health that might exist from exposure to ELF electric and magnetic fields. Previously in 2002, the International Agency for Research on Cancer (IARC) examined the evidence regarding cancer; this Task Group reviewed evidence for a number of health effects, and updated the evidence regarding cancer. The conclusions and recommendations of the Task Group are presented in a WHO report titled: "Extremely Low Frequency Fields Environmental Health Criteria Monograph No.238" and Factsheet No 322.

"New human, animal and in vitro studies, published since the 2002 IARC monograph, do not change the overall classification of ELF magnetic fields as a possible human carcinogen."

"A number of other diseases have been investigated for possible association with ELF magnetic field exposure. These include cancers in both children and adults, depression, suicide, reproductive dysfunction, developmental disorders, immunological modifications and neurological disease. The scientific evidence supporting a linkage between ELF magnetic fields and any of these diseases is much weaker than for childhood leukaemia and in some cases (for example, for cardiovascular disease or breast cancer) the evidence is sufficient to give confidence that magnetic fields do not cause the disease."

"the epidemiological evidence is weakened by methodological problems, such as potential selection bias. In addition, there are no accepted biophysical mechanisms that would suggest that low-level exposures are involved in cancer development. Thus, if there were any effects from exposures to these low-level fields, it would have to be through a biological mechanism that is as yet unknown. Additionally, animal studies have been largely negative. Thus, on balance, the evidence related to childhood leukaemia is not strong enough to be considered causal."

"Policy-makers should establish an ELF EMF protection programme that includes measurements of fields from all sources to ensure that the exposure limits are not exceeded either for the general public or workers."

"Government and industry should monitor science and promote research programmes to further reduce the uncertainty of the scientific evidence on the health effects of ELF field exposure."

"Policy-makers, community planners and manufacturers should implement very low-cost measures when constructing new facilities and designing new equipment including appliances."

"Changes to engineering practice to reduce ELF exposure from equipment or devices should be considered, provided that they yield other additional benefits, such as greater safety, or little or no cost."

"When changes to existing ELF sources are contemplated, ELF field reduction should be considered alongside safety, reliability and economic aspects."

International Agency for Research on Cancer

In June of 2001, the International Agency for Research on Cancer (IARC), a branch of the World Health Organization (WHO), evaluated the carcinogenic risk to humans of static and extremely low-frequency EMF. In October of 2001, the WHO published a Fact Sheet that summarized the IARC findings. Below is an excerpt from the fact sheet:

In June 2001, an expert scientific working group of IARC reviewed studies related to the carcinogenicity of static and ELF electric and magnetic fields. Using the standard IARC classification that weighs human, animal and laboratory evidence, ELF magnetic fields were classified as possibly carcinogenic to humans based on epidemiological studies of childhood leukaemia. Evidence for all other cancers in children and adults, as well as other types of exposures (i.e. static fields and ELF electric fields) was considered not classifiable either due to insufficient or inconsistent scientific information.

"Possibly carcinogenic to humans" is a classification used to denote an agent for which there is limited evidence of carcinogenicity in humans and less than sufficient evidence for carcinogenicity in experimental animals.

This classification is the weakest of three categories ("is carcinogenic to humans", "probably carcinogenic to humans" and "possibly carcinogenic to humans") used by IARC to classify potential carcinogens based on published scientific evidence. Some examples of well-known agents that have been classified by IARC are listed below:

Classification **Examples of Agents** Carcinogenic to humans Asbestos (usually based on strong evidence of Mustard gas Tobacco (smoked and smokeless) carcinogenicity in humans) Gamma radiation Probably carcinogenic to humans Diesel engine exhaust (usually based on strong evidence of Sun lamps carcinogenicity in animals) UV radiation Formaldehyde Possibly carcinogenic to humans Coffee (usually based on evidence in humans Styrene which is considered credible, but for Gasoline engine exhaust which other explanations could not be Pickled Vegetables ruled out) ELF magnetic fields

DO ELF FIELDS CAUSE CANCER?

ELF fields are known to interact with tissues by inducing electric fields and currents in them. This is the only established mechanism of action of these fields. However, the electric currents induced by ELF fields commonly found in our environment are normally much lower than the strongest electric currents naturally occurring in the body such as those that control the beating of the heart.

Since 1979 when epidemiological studies first raised a concern about exposures to power line frequency magnetic fields and childhood cancer, a large number of studies have been conducted to determine if measured ELF exposure can influence cancer development, especially leukaemia in children.

There is no consistent evidence that exposure to ELF fields experienced in our living environment causes direct damage to biological molecules, including DNA. Since it seems unlikely that ELF fields could initiate cancer, a large number of investigations have been conducted to determine if ELF exposure can influence cancer promotion or co-promotion. Results from animal studies conducted so far suggest that ELF fields do not initiate or promote cancer.

However, two recent pooled analyses of epidemiological studies provide insight into the epidemiological evidence that played a pivotal role in the IARC evaluation. These studies suggest that, in a population exposed to average magnetic fields in excess of 0.3 to 0.4 μ T, twice as many children might develop leukaemia compared to a population with lower exposures. In spite of the large number data base, some uncertainty remains as to whether magnetic field exposure or some other factor(s) might have accounted for the increased leukaemia incidence.

Childhood leukaemia is a rare disease with 4 out of 100,000 children between the age of 0 to 14 diagnosed every year. Also average magnetic field exposures above 0.3 or

 $0.4~\mu T$ in residences are rare. It can be estimated from the epidemiological study results that less than 1% of populations using 240 volt power supplies are exposed to these levels, although this may be higher in countries using 120 volt supplies.

The IARC review addresses the issue of whether it is feasible that ELF-EMF pose a cancer risk. The next step in the process is to estimate the likelihood of cancers in the general population from the usual exposures and to evaluate evidence for other (non-cancer) diseases. This part of the risk assessment should be finished by WHO in the next 18 months.

American Cancer Society

In the journal, *A Cancer Journal for Clinicians*, the American Cancer Society (ACS) reviewed EMF residential and occupational epidemiologic research in an article written by Dr. Clark W. Heath, Jr., ACS's vice president of epidemiology and surveillance research. Dr. Heath reviews 13 residential epidemiologic studies of adult and childhood cancer. Dr. Heath wrote:

Evidence suggesting that exposure to EMF may or may not promote human carcinogenesis is mostly based on...epidemiologic observations.... While those observations may suggest such a relationship for leukemia and brain cancer in particular, the findings are weak, inconsistent, and inconclusive.... The weakness and inconsistent nature of epidemiologic data, combined with the continued dearth of coherent and reproducible findings from experimental laboratory research, leave one uncertain and rather doubtful that any real biologic link exists between EMF exposure and carcinogenicity.

American Medical Association

The AMA adopted recommendations of its Council on Scientific Affairs (CSA) regarding EMF health effects. The report was prepared as a result of a resolution passed by AMA's membership at its 1993 annual meeting. The following recommendations are based on the CSA's review of EMF epidemiologic and laboratory studies to date, as well as on several major literature reviews:

- Although no scientifically documented health risk has been associated with the
 usually occurring levels of electromagnetic fields, the AMA should continue to
 monitor developments and issues related to the subject.
- The AMA should encourage research efforts sponsored by agencies such as the National Institutes of Health, the U.S. Department of Energy, and the National Science Foundation. Continuing research should include study of exposures to EMF and its effects, average public exposures, occupational exposures, and the effects of field surges and harmonics.
- The AMA should support the meeting of an authoritative, multidisciplinary committee under the auspices of the National Academy of Sciences or the

National Council on Radiation Protection and Measurements to make recommendations about exposure levels of the public and workers to EMF and radiation.

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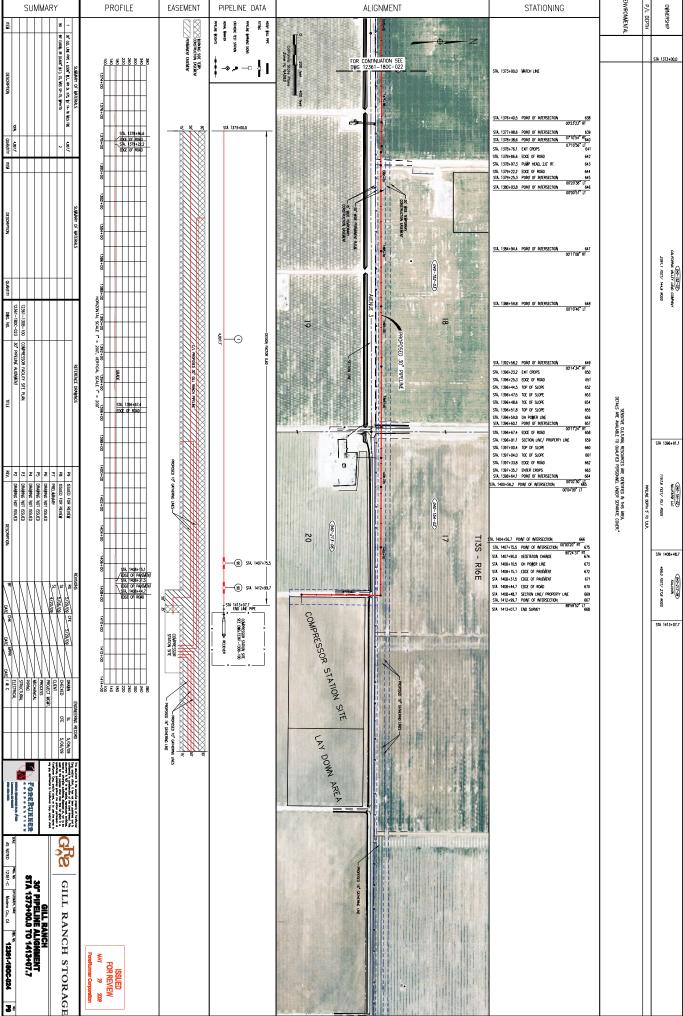
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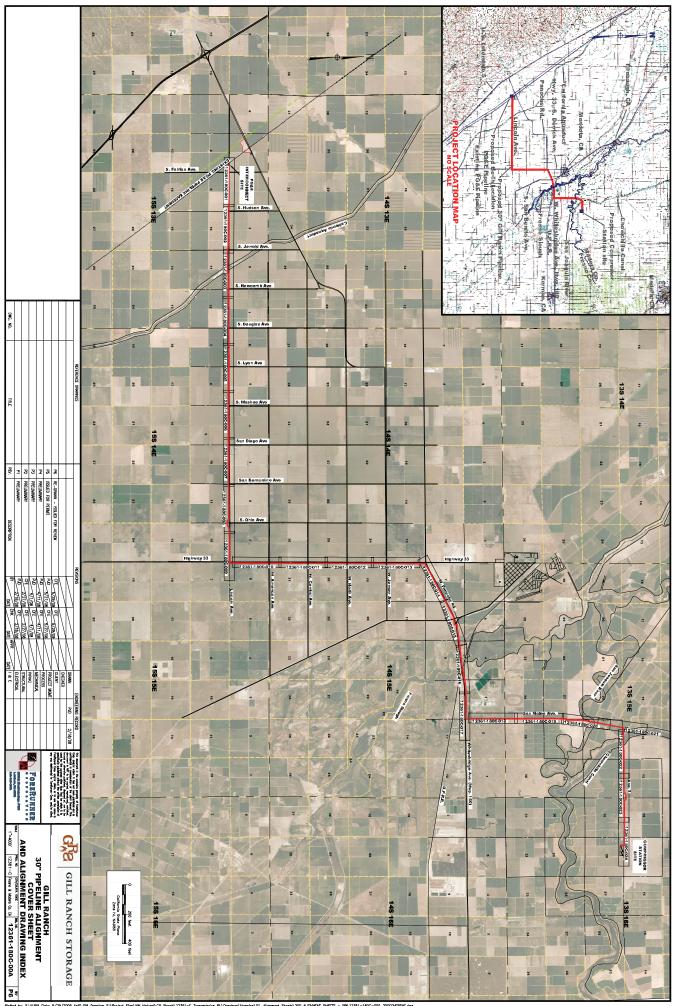
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APPENDIX A.2

GAS PIPELINE ALIGNMENT SHEETS



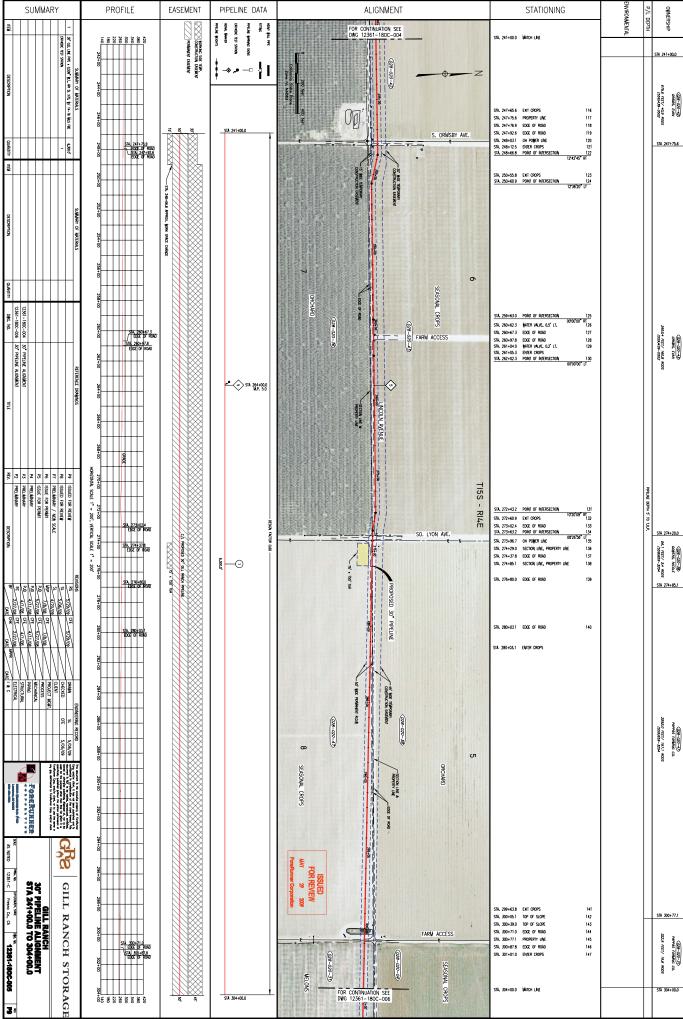


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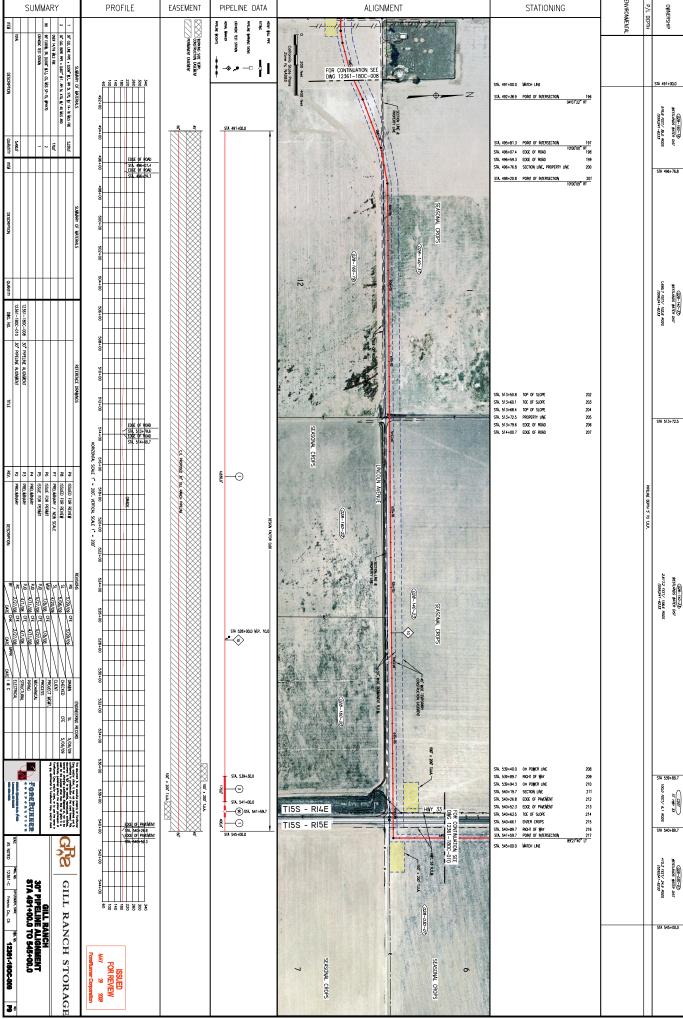
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ORAGE	360 300 300 300 200 200 100 100	Sc. 65.	SIA 491-00.0	FOR COMTRIALATION SET DWG 12361-180C-008-008-000.dwg	\$13.489-88 DECC OF ROLD 191 51.489-08 9 PORF OF RESERVE (MPRODL) 52.489-08 9 PORF OF RESERVE (MPRODL) 53.489-08 9 PORF OF RESERVE (MPRODL) 53.489-08 9 PORF OF RESERVE (MPRODL) 53.489-08 9 PORF OF RESERVE (MPRODL) 53.491-00.0 WARD LIKE		(20)1-180-19) 4551-4025 \$4025 055 4491121-02515 514



SUMMARY	PROFILE	EASEMENT	PIPELINE DATA	ALIGNMENT	STATIONING	P/L DI	OWNER
1 1 1 1 1 1 1 1 1 1	80	E ASE Comprehens usawn E ASE	PIPELINE DATA The state of the	SLOWL Cops SLOWL	STATIONING STA 598-188.2 DOT CRIPS 218 STA 598-188.6 OR PETER INE 219 STA 598-187.7 CPU OF ROTE SECTION 27 STA 598-187.7 CPU OF ROTE SECTION 27 STA 598-187.7 CPU OF ROTE SECTION 27 STA 598-187.7 TOMBOUR SECTION 27 STA 598-180.5 DIGIT CRIPS 222 STA 598-180.5 DIGIT CRIPS 222 STA 598-180.5 DIGIT CRIPS 223	PRECISE SPIN S TO LOSS.	944-863
1236		E C	SM 609+00.0	R14E	53 4 609+000 W4TC+ LME		(717-100-3) (717-100-3)

SUMMARY	PROFILE	EASEMENT	PIPELINE DATA	ALIGNMENT	STATIONING	ENVIRONWENTAL	OWNERSHIP P/L DEPTH
LIEA CHARC	340 300 260 100	FE	RITHO RITHO PPELHE MANAGE SIGNS CANDOC EST STATOL AERIL MANGE PPELHE MOORS	FOR CONTINUATION SEE DWG 12361-1800-010	STA 609+00.0 WATCH LINE	VENTAL	ERSHIP DEPTH
TREATHER OF ALLERY OF ALLE	800-00 812-00 814-00 818-00 818-00 823-00 822-00 824-00 824-00 823-00 824-00 824-00 824-00	Senanc ass (Behr) Senanc case (B	SIA 609+00.0	Table and the Company of the Company	- STA 420+96,3 PROPERTY WILE 224		51. (2010) (2010
Part	1831-100 (1831-100) (1	CL RESCOLL SE CALL MODE REALS.	SA SA SON MAIL WAS THE LIKE SHEET LIKE	A SET THEORY TO A SET THEORY T	STA, 646-86.1 \$\frac{\pmatrix}{\pmatrix}\$ LINE 225 \$TA, 644-86.1 \$\pmatrix\$ MATER LINE 226 \$TA, 647-97.3 \$\pmatrix\$ OF COPES 927 \$TA, 647-97.3 \$\pmatrix\$ OF POPER PLEE, COT LL 226 \$TA, 647-97.3 \$\pmatrix\$ OF LOS OF ROBER (\$\pmatrix\$ COPES PLEE) \$\pmatrix\$ OF COPES PLEE \$TA, 647-96.4 \$\pmatrix\$ SCICIQ (LINE, PROPERTY LINE 2013) \$TA, 647-96.4 \$\pmatrix\$ SCICIQ (LINE, PROPERTY LINE 2013) \$TA, 647-96.0 \$\pmatrix\$ DETER CROPS		### (#################################
Signal and the state of the sta	654-50 638-00 664-50 664-50 668-50 670-50 67-50			TLAS - RIJE THAS	STA 668+00.0 PROPERTY LINE (APPROX.) STA 669+34.3 DRT CROPS 233 STA 662+26.8 PROPERTY LINE (APPROX.) STA 662+26.8 DN POMER LINE 2.54 STA 665+50.6 DNTER CROPS 235		(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)
9 1	380 340 300 300 226 180 180	8	S1A 672+00.0	FCR CONTINUATION SEE DWG 12361-180C-012 meet Sheets\2000 ALIONENT SHEETS - P9\12361-180C-011_200.deg			

SUMMARY	PROFILE	EASEMENT	PIPELINE DATA	ALIGNMENT	STATIONING	environvental	OWNERSHIP
LEA CONTRACT	360 340 270 180 110 672+00	8 85	HEAT \$411 PRE FITTING PRELIAE \$444405 SCAS ARRILLAE \$444405 FRELIAE \$444405 FRELIAE \$444405	FOR CONTINUATION SEE DWG 12361-180C-011	STA, 672+00.0 NATCH LINE	VENTAL	ERSHIP
DESCRIPTION OF MATERIALS 2 CONSTRUCT OF STATES AND A CASE OF CONSTRUCT OF	61-123 611-123 681-123	Traver users	SIA 672490.0	WEST JENSEN AVENUE WEST JENSEN AVENUE TILS - RIAE TILS - RIAE N. WARREN			SIA 672+00.0
SUMMER OF WITEMAS STATE OF WITEMAS 27261-18 27261-18 27261-18 27261-18 27261-18 27261-18	851-90 684-90 686-90 690-90		2 [®] = 2 SSM (889+10.0 (19° 10.0	25 (19-19-2) (19-19-2) (19-19-2) (19-19-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-			SCD-180(S) SCOD 1816 (ONES) SCOD 1816 (ONES)
BETTERKE BOMMOS BETTERKE ALOMADA TO PRETAR ALOMADA BETTERKE BOMMOS BETTERKE BOMMOS	\$		Sh. Too-ekia Marke Ke	DERROY NEVER HIT 33	SN, 700+27.3 Exit CROPS 2.56 SN, 700+04.3 SCICON INDE, PROFESTY LINE 2.57 SN, 700+06.0 C/L OF SNDD (N, NORTH ARE). 2.59 SN, 700+70.0 C/L OF SNDD (N, NORTH ARE). 2.59		SIA 700169.3
20	201-100 100-100-	A1. (1995) 35 - 5. (1996) 19 (1996)	GEORY (CCS) CAS —	To the state of th	SAR, 700+76.0 C/L OF FANDO (My MORTH ARE.) 239 SAR, 700+16.7 MIRTE LINE 239 SAR, 700+96.7 On POMER LINE 240 SAR, 700+96.7 DEEP CHOP'S 241		Petting Share 2, to 107 To
	SYT 1 - 300, 114-00 118-00 118-00 130-100			24. (19-110-1) (19-110-1) (19-110-1) PROPOSED 30 PPELNE			(09-125-3) MCCOURS HOTE OST MCCOURS HOTE OST
The second of th	0 721-00 721-00 722-00				SIA, 727-04.4 ENT CHOPS 242 SIA, 727-27.5 PROFESTY LINE 243 SIA, 727-34.3 EMERE CHOPS 244		SIA 727+27.3
GILL RANCH STORAGE GILL RANCH ST PIPELINE ALIGNMENT STA 672-00.0 TO 726-00.0 TO PIPELINE ALIGNMENT STA 672-00.0 TO 726-00.0 TO PIPELINE ALIGNMENT STA 672-00.0 TO 726-00.0 TO PIPELINE ALIGNMENT STA 672-00.0 TO 726-00.0	730-100 731-10	8, 5,	SIA 756+60.0	FOR CONTINUATION SEE DWG 12361-180C-013	SSA, 7354-00.0 MATCH LINE		(19-19-1) #851/465 #4610 DOT 872.7 172 (4463 #4620) 573.7 756-10 (1997) 574.7 756-10 (1997)

SUMMARY	PROFILE	EASEMENT	PIPELINE DATA	ALIGNMENT	STATIONING	ENVIRONMENTAL	OWNERSHIP
TEV 00 CLUM PRY LOSS FL. PR X 10 CLUM PR X 1	36 5 6 7 20 8 8 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	POSMACO SOE TEMPA POSMACON USERBIT POSMACON USERBIT	HOLE BEE TO SEE THE STATE OF THE SEE STA	FOR CONTINUATION SEE DWG 12361-180C-012	SIA 736+00.0 WATCH LINE	ENIA	STA 736+00.0
MATERIALS SAMPLE OF MATERIAL SAM	700-100 744-100 736-10	, a	SIA 784-100.0	24 @19-10-16 TI45-RI4E TI45-RI4E TI45-RI5E			(ESSUME STATE OFF THE
S RECORDER	51. 55.100 52. 00 53. 55.100 54. 00 55. 55.100 56. 56. 56. 56. 56. 56. 56. 56. 56. 56.	er a per tua.		JENSEN ROAD	\$18, 755-03.4 (MISTE UBE 26) \$18, 755-07.9 (DIT GODS) 246 \$18, 755-07.9 (DIT GODS) 246 \$18, 755-08.7 (GODS) GODS (RODE) (RODE) \$18, 755-08.7 (GODS) GODS (RODE) (RODE) \$18, 755-08.2 (GODS) (RODE) (RODE) (RODE) \$18, 755-08.2 (GODS) (RODE) (RODE) \$18, 755-08.2 (GODS) (RODE) (RODE) \$20, 755-08.3 (GODS) (RODE) \$20, 755-08.3 (GODS) (RODE) \$21, 754-20.0 (GODS) (RODE) \$22, 754-20.0 (GODS) (RODE) \$24, 754-20.0 (GODS) (RODE) \$25, 754-20.0 (GODS) (RODE) \$26, 754-20.0 (GODS) (RODE) \$27, 754-20.0 (GODS) (RODE) \$27, 754-20.0 (GODS) (RODE) \$28, 754-20.0 (GODS) (RODE) \$28, 754-20.0 (GODS) (RODE) \$26, 754-20.0 (GODS) \$26, 754-20.0 (GODS) (RODE) \$26, 754-2		STA 755+85.2
101E 86V. 23 23 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	55-12 150-10 782-10 164	8° - 100° 110.	_@ 513, 702+10.8 ₩ATTR LINE	SQUITE DEPROCK MENUE HIM,	SIA, 788+164 C/I, WARLENE VALVE SET 252 SIA, 782+108 WHITE UNE 253	DENYS WE AWAYNE	NASHW 2111-200(05) 8200-20112 (7MEZ MAZG) 820
MOLAGOSSO (1959) A POLAGOSSO (1959) A PARAGO (100 784-10 784-10 770-1	Filtras come To C Goodes 193	-basel vacus reces reso	BACPOSED BACPOSED	SIA, 707+144 PROPERTY UNE 254		# (2019-12) (11) (11) (11) (11) (11) (11) (11) (
15/19/19 10/19 1	514. 7/3+10.5 	66 - 100 TUA. 50 - 95 TUA.	P 53A, 773-68LS B ATE URE	OF PPELNE	SIJ. 773-188.3 WHTER UNE 255 SIJ. 789-14.4 DIST CROPS 246 SIJ. 789-14.3 PROPERTY UNE 267 SIJ. 789-14.3 PROPERTY UNE 267		19-120-1) NOS MICES MICES DEST 11-120-10-10-10-10-10-10-10-10-10-10-10-10-10
The COOK of the County of the	782-00 784-00 788-00 78	war aw i aw	"® 531, 787+70.5 ₩47EP LINE	STATE	SIA, 7891-20.5 WHERE UNE 262 SIA, 7891-20.5 WHERE UNE 262 SIA, 7891-20.5 WHERE UNE 262		#53.405 #415 65 #53.405 (415 65 65) #53.405 (415 65 65)
GRAD GILL RANCH 30° PIPELINE ALIGNMIN STA 738-00.0 TO 799+ MANUEL PROMINION OF THE PROMINIO	0 700:00	VT 1.00.1 TW 1.0	534 702+00.0 N.P. (5.0 (2) (2) (3) (4) (4) (5) (4) (7) (4) (7) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	FARM ACCESS ROAD	SUL 784-77.5 PROPERTY UNE 265 SUL 794-45.0 (MITER UNE 264		29 HETUNGS HIERO OST 12 HETUNGS HIERO OST 13 CROSSES-1112 (AMES HIERO)
ORAGE	380 340 300 280 270 270 180 180	E, č.	SIA 799+100.0	FOR CONTINUATION SEE DWG 12361-180C-014	SIA 799+400,0 VÁNCH LÍNE		STA 799+00.0

SUMMARY	PROFILE	EASEMENT	PIPELINE DATA	ALIGNMENT	STATIONING	ENVIRONMENTAL	OWNERSHIP
100 100	500 500 500 500 500 500 500 500 500 500	Security of the Control of the Contr	For the pix and th	The community set of the commu	SSI, 799-00.0 Millori UNE SSI, 805-456.2 PROPERTY UNE SSI, 806-452.2 OF ORDES SSI, 806-452.3 PROPE CHOPS SSI, 806-453.5 SCICIOLI UNE, PROPERTY UNE 270 SSI, 807-453.1 OF PORTEY UNE 270	MENTA.	(2012-19-1) (2012-1) (2012-19-1) (2012-19-1) (2012-19-1) (2012-19-1) (2012-19
MARKY OF WILEMASS DEVINED ON THE STATE OF TH	872-00 884-00 886+00 820-00 823-100 834-00	30 % - 8 tus		TEST PANCONE ROUD	SIA, 814-08-9 PONIT OF INTERSCHOOL 221		(ASSE) - 117 - 200
100 100	ESH-00 6284-00 (487-0)	C. Protests St. Ca. Mode Printer.	- CORN FACTO BASE	PROPOSED 30" PIFELINE	\$13, 854+85.8 PROPERTY LINE 272 \$13, 838+85.4 PRINT OF INTERSECTION 273 FT	PRIME ROPE Y DI COX. SUSTINE COLLEGE RECOMENTS ME RENIFED IN THE MEX. DEMAS ME ANAMAL TO COMMENT PRESIMEN UNDER SCHWART COVER.*	SIA 834+85.8
COMMING CONTINUE CO	501-00 844-00 844-00 850-00 855-00 855-00		2	So the relative or reper use the proper use the proper use of the relative or relative to the proper use the pr			(0.00 m / 1.00 m / 1.
GILL RANCH STORAGE GILL RANCH 30° PIPELINE ALIGNMENT STA 799-90.0 10 862-90.0 STA 799-90.0 1874 1218-1 France St. Co. 1874 1218-1 1789-1218-1 1874 1218-1 1789-1 1874 1218-	864-00 864-00 860-00 861-00	a de	SIA 862+10.0.	FOR CONTINUATION SEE DING 12361-180C-015 Signment Sheets\200 AudWkNr SHEFS - P9\12361-180C-014_200.deg	533, 862+000 WATCH LME		STA 862+00.0

SUMMARY	PROFILE	EASEMENT	PIPELINE DATA	ALIGNMENT	STATIONING	P/L DEPTH	OWNERSHIP
1	50 50 50 50 50 50 50 50 50 50 50 50 50 5	Second set file (C) reduces custon:	However the second of the seco	FOR CONTINUATION SEE DING 12.561-180C-014	51A 862+00.0 WATCH LIME 51A 864+51.0 TOP OF BANK 274 51A 864+63.1 TOC OF SOPE 275 51A 864+63.1 TOC OF SOPE 275 51A 864+63.2 SCICION LINE 277 51A 864+63.2 SCICION LINE 277 51A 864+63.1 SCICION LINE 277 51A 864+63.1 SCICION LINE 277 51A 864+63.1 SCICION LINE 277 51A 864-61.1 DITER ORIGINARY 00707/28 1 280	MENTA.	(514-96) (517-911-9) (517-911-9) (518-96) (517-911-9) (518-96) (51
SAMARIN OF INICIDALS 12361-1802-014 12361-1802-014 12361-1802-014	93-48 94-48 94-48 98-48	u. C	1,000.07	Consecution and the control of the c			(ARSHIP) 511-786(60) 508-61/111/786(7) 508-11/1800 6 <u>8-18-10</u>
### 1000 MILES BONNINGS ### 10	00-190	1. (a) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	\$ 514, 888+80.8 \$ 514, 888+80.0 \$ 6 \$ 6 \$ 6 \$ 6 \$ 7 \$ 14, 882+40.0	BOD OF PAPER OF THE SAN LUS DRAM S. SAN BENTO AFE	SA 889-272 TO FO SUPF 294 SA 889-14-5 TO PS SUPF 295 SA 889-14-5 TO PS SUPF 295 SA 891-15-14 TOP BMN OF CHAN4 295 SA 891-15-10 TO SUPF 296 SA 891-15-12 TO PS SUPF 299 SA 891-14-12 TOP SUPF 299 SA 891-14-12 TOP OF SUPF 299 SA 891-8-14-12 TOP OF SUPF 299 SA 891-8-14-12 TOP OF SUPF 299 SA 891-8-14-12 TOP OF SUPF 290 SA 891-8-14-12 TOP OF SUPF 290 SA 891-6-14-12 TOP OF OF SUPF 291 SA 892-14-12 TOP OF SUPF 291 SA 892-14-12 TOP OF SUPF 291 SA 892-14-12 TOP OF SUPF 291 SA 892-14-14 SA 892-14-14 SA 892-14-14 SA	TO TOWNS CALL COLLINIOR OL THOMP THE STATES HALLOS THE STAHIOS THE PROPERTY SHERING THE STAHIOS THE PROPERTY SHERING THE STAHIOS THE PROPERTY SHERING THE STAHIOS THE STAHIOS THE STAHIOS THE STAHIOS THE STAHIOS THE STAHIOS THE STAHIOS THE STAHIOS THE STAHIOS THE STAHIOS THE ST	The state of the s
MOLAGOSS MOLAGO	200, Visitory 200, 500, 500, 500, 500, 500, 500, 500,	A FATTER OF THE ACT	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	20, 100.1 (20). (2	S.A. 884-2.5.1 SCICION INEE 0702/27 134 SA. 889-71.6 TRICE 8972/27 134 SA. 889-71.6 TRICE 8972/27 136 SA. 889-84.7 TOP OF SUPE 297 SA. 889-84.7 TOP OF SUPE 299 SA. 899-84.7 TOP OF SUPE 299 SA. 899-84.7 TOP OF SUPE 300 SA. 890-84.2 TOP SHAP OF CHAIL 288 SA. 890-17.1 TOP SHAP OF CHAIL 301 SA. 890-18.2 TOP SHAP OF CHAIL 301 SA. 890-18.2 TOP SHAP OF CHAIL 302 SA. 890-18.2 TOP SHAP OF CHAIL 302 SA. 890-18.2 TOP SHAP OF CHAIL 302 SA. 890-19.2 TOP SHAP OF CHAIL 305 SA. 890-19.2 TOP SHAP TOP SHAP 306 SA. 890-19.2 TOP SHAP 307 SA. 890-19.2 TOP SHAP 308 SA. 890-11.6 TOP OF SUPE 311 SA. 891-11.6 TOP OF SUPE 315	DATE GENERAL WER STAME CHES. BETHER BETHER WIRE STAME CHES.	CHI
CONCRETE GEORGIA CONTRACTOR CONTR	00-100 90-100 00-100 90	#159E 23	2,500.07	ARE CONTRACTED TO DOUBLE OF THE STATE OF THE	STA 912+68.5 POINT OF INTESSECTION 871500" RS 317 318 318 319 319 319 319 319 318 319 319 319 318 319		22.04.07.25. (200.225-122.5) 1.05.05.25. (200.225-122.5) 2.21.04.07.25. (200.225-122.5)
GILL RANCH STORAGE GILL RANCH 30" PIPELINE ALIGNMENT 5TA 562+00.0 TO 923+00.0 12361-0	50 6 8 22 20 80 45 SP Monarior: \$1 Project Charles Williams	gi Banch (236 - C Tropan	SIA 928+00.D	FOR CONTINUATION SEE DING 12:361–180C–015.200.seg	574. 921+10.7 DD \$CLAND 321 STA 921+52.0 PONT OF NUTUSCHON 323 STA 924+27.3 SCCION LNE / PROPERTY LNE 34 STA 924+27.3 FONT OF NUTUSCHON 35 STA 924+36.1 FÜRSC. 35 STA 924+36.7 PONT OF NUTUSCHON 275.3 (8° NT		51A 928+400.0

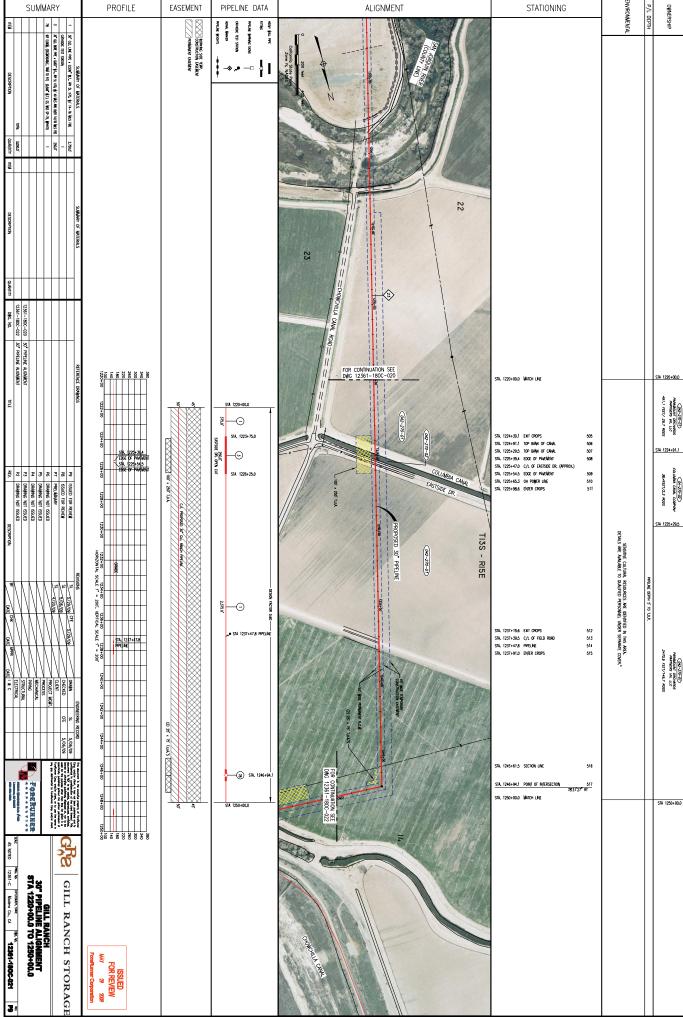
SUMMARY	PROFILE	EASEMENT	PIPELINE DATA	ALIGNMENT	STATIONING	ENVIRON	OWNER
2 SECULT PROF. CASE FL. PR. A. D. P. J.	200 200 200 200 200 200 200 200 200 200	Seema se tith Community totaley Paleon totaley of	one to see the see of	FOR CONTINUATION SEE DISC 2261-150C-015 SATE THIS, 120 SO MR 200	SIA 828+000 MAIO+ UNS	WIRONENIAL	O(MERSHP P/L DEPIH
1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	100 934-00 938-00 940-00 940-00 941-0	107 - 107 11.00	SA 98-1000 SA 941-850	CON-OST-AD PROPOSION AND PROPO	200, 054-04-00 200		(2)1-2(1-2)
1281-1802-015 ST PREME ALGORATY 1281-1802-017 ST PREME ALGORATY	\$	00 to large let 9 to 000 deau	2 € 574 850+450 22 € 574 850+450 22 € 574 850+450 22 € 574 850+450 22 € 574 850 850 850 850 850 850 850 850 850 850	The state of the s	SSA, \$441-923 TOP BBM OF SCILOP1 955 **RECEITH LINE (APPRICAL) SSA, \$441-923 TOP BBM OF SCILOP1 954 **SA \$541-923 TOP BBM OF SCILOP1 955 **SA		
# 3 (5500 108 RNR) # 3 (5500 108 RNR) # 4 (5500 108 RNR) # 5 (5840 108 RNR) # 5 (5	00000 00000 00000 00000 00000 00000 0000		CSS PLT S CONTROL CONT	TILS - RISE TILS	\$14, 960-508 MALENDO ROUT OF \$6Y \$56 \$50, 861-604 TO OF SLOPE \$57 \$50, 961-500 TO OF SLOPE \$50, 961-50, 961-500 TO OF SLOPE \$50, 961-5	STRING COLIEM RESOURCE HE EDWIFD IN THE JRY. SENSING COLIEM RESOURCE HE EDWIFD IN THE JRY.	17.29 18.20 18.2
100 100	96-10 96-10 97-10 97-10	essue un	STANON EDIATION STA 966-9680 9900 = STA 966-1013 9440 = STA 966-1013 9440 =	The Court Law of the Court of t	SM 98-403 992 SM 98-403 992 - SM 98-401 9400		LEGAL STATE OF STATE
GILL GRANT CONTROL OF THE PROPERTY OF THE PRO	971-00 975-00 991-00 991-00			(0)-000-60	\$30, 979+61.4 SCCION LINE, PROPERTY LINE \$60 \$50, 979+61.4 SCCION LINE \$51 \$51, 979+61.4 SCCION LINE \$51 \$51, 969+62.1 FORC \$575 \$53, 969+62.1 FORC \$575 \$5		(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)
RANCH STORAGE LIL RANCH LIL RALIGNMENT 100.0 10 990-00.0	981-10	8 6	SiA 990+00.0	FOR CONTINUATION SEE DWG 12361-180C-017	SJA 989+06 PORT OF REESCOOK SJR		578, 990+00.0

SUMMARY	PROFILE	EASEMENT	PIPELINE DATA	ALIGNMENT	STATIONING	ENVIRON	OWNERSHIP
1 30° c 2 30° c 91 97 E 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R 85	HEAT \$11. PPE FITTING PHYLINE \$44000 SCHOOL TEST SANDAL JESTAL \$100.0TS	FOR CONTINUATION SEE DWG 12361-1800-016		NVIRONNENTAL	ERSHIP
TOTAL CONTROL OF THE PROPERTY	850 851 850 851 851 851 851 851 851 851 851 851 851	State of the control	SIA 990+00,0	DMG 12.56 -1 50 -1 0 5	SIL 999+000 WITCH LIME		STA 990+00.0
SYMMOLO OL MULTURE OL	999-00			To The order of the contract o			
NEBALS 12361-11 0.04NTD 086.	1001-00	No. 100, 100, 100, 100, 100, 100, 100, 100	531 (903+20.0 MP, 19.0)		\$53, 1004-122.4 OH PORRET LINE 370 \$534, 1004-1329 PORRET OF ARTESCETION 975 \$534, 1001-141.5 PORRET OF ARTESCETION 175 79500° RF \$534, 1001-141.5 PORRET OF ARTESCETION 175 79500° RF	SENSIVE C DETALS ARE AVAILA	
100 AND SATISFA OF STATES	100 - 100 -	C) respector of the selection of	STATION COUNTDN STA. 1012+48.8 BHCs. STA. 1012+49.0 M-EAU STA. 1012+00.0 M-EAU STA. 1012+00.0 M-EAU	WANT ACCESS ROLD	SN, 1009+16, 1 C/L OF FIDET 976 SN, 1009+76, 1 C/L OF FIDET 976 SN, 1009+73 INFO SUPE 977 SN, 1009+73 INFO SUPE 977 SN, 1009+73 INFO SUPE 977 SN, 1009+54 INFO SUPE 977 SN, 1009+54 INFO SUPE 972 SN, 1009+64 INFO SUPE 972 SN, 1009+64 INFO SUPE 972 SN, 1009+64 INFO SUPE 973 SN, 1009-64 INFO SUPE 973 SN, 10	stistike cotnem besonket me benerb n ihr nem Stats me manare 10 omred) besonket nobe semane coken.	OTTO TO THE STATE OF THE STATE
Pa South Park South Pa	101-175 TOUR 2011 - 300 TOUR 2011 TO	see - see us.	(i)	TI4S - RISE WEST TO NOT PRETINE WEST TO NOT THE THE THE THE THE THE THE THE THE TH	\$34, 1018-1932 PONT OF NEESCHOON \$514, 1019-123 FOR OF SUPE \$514, 1019-123 FOR OF SUPE \$514, 1019-123 FOR OF SUPE \$514, 1019-124	66.	
	00-100 00-	N	SIA 1029-1572 MALV. ST SSA 1039-154.4 SSA 1037-100.0	THE HIGHWAY 180	SSA, 1004-872 WLAX SST 401 SSA, 1008-96A PORT OF MIDRISCHON 402 SSA, 1008-96A PORT OF MIDRISCHON 9714'9" 1 003 SSA, 1007-1000 WRICH LINE		SIA 1037+00.0
CONTINUES COURSE COURSE COURSE COURSE COURSE COURSE COURSE COURSE COURSE COURSE COURSE C	0 (0.00 + 0.7) (0.			SAI MATEO AICNUE			
GILL RA GILL RA 30° PIPELINE STA 990-90.0 1251-C Free Ca. Ca. Ca.	ISSUED FOR REVIEW MAY 29 209 Foundamen Corporation						
ORAGE				meri Sreth/200 AUAWKNI 94ETS - P9/1281-180C-017,200.dag			

SUMMARY	PROFILE	EASEMENT	PIPELINE DATA	ALIGNMENT	STATIONING	OWNERSHIP P/L DEPIH ENVIRONMENTAL
10 10 10 10 10 10 10 10	250 100-100	Commission of table		FOR CONTINUATION SEE DWG 12361-180C-017 CONTINUATION SEE DWG 12361-180C-017 SW WITTO ANERUCE COMMENT	STA 1004-17.9 TENCE 455 N. 1004-17.9 TENCE 455 N. 1004-17.9 TENCE 455 N. 1004-17.9 TENCE 455 N. 1004-18.9 TENCE 07 PROBLEM 575 N. 1004-19.1 PROB	MENTAL 518 1007+0000
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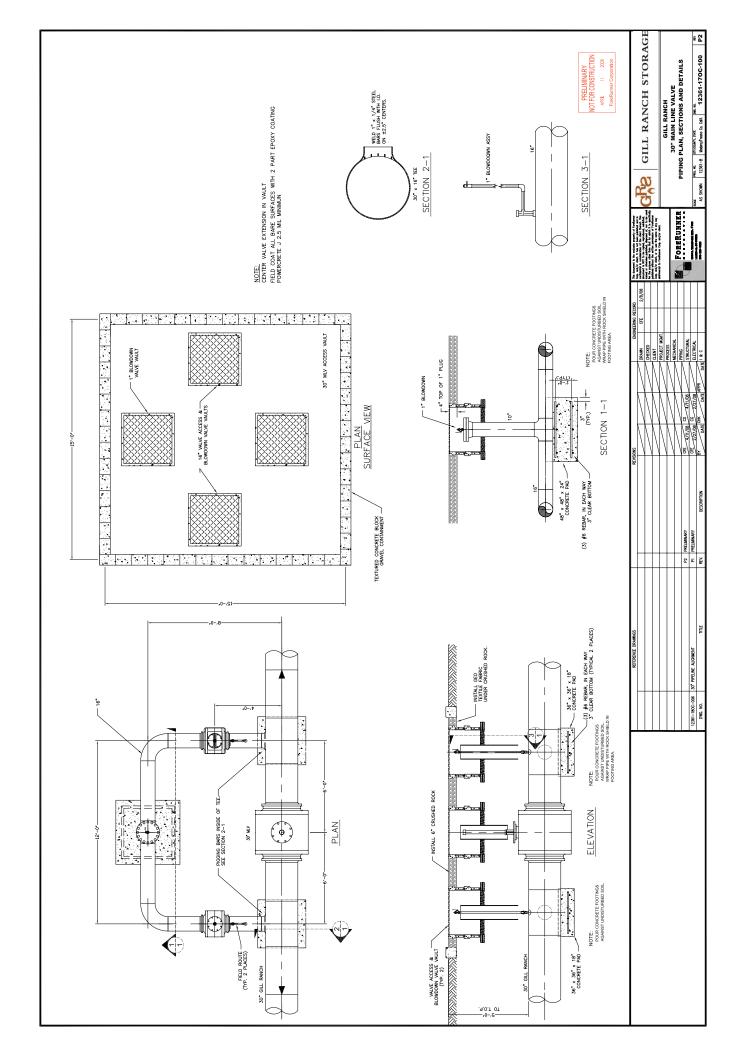
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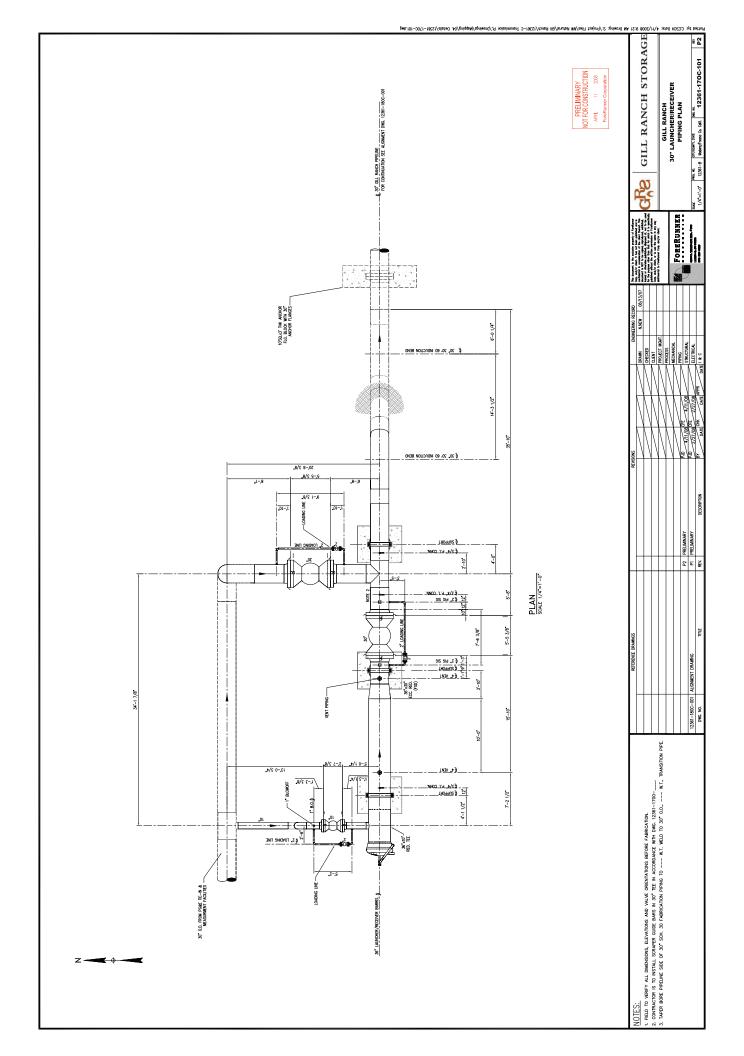


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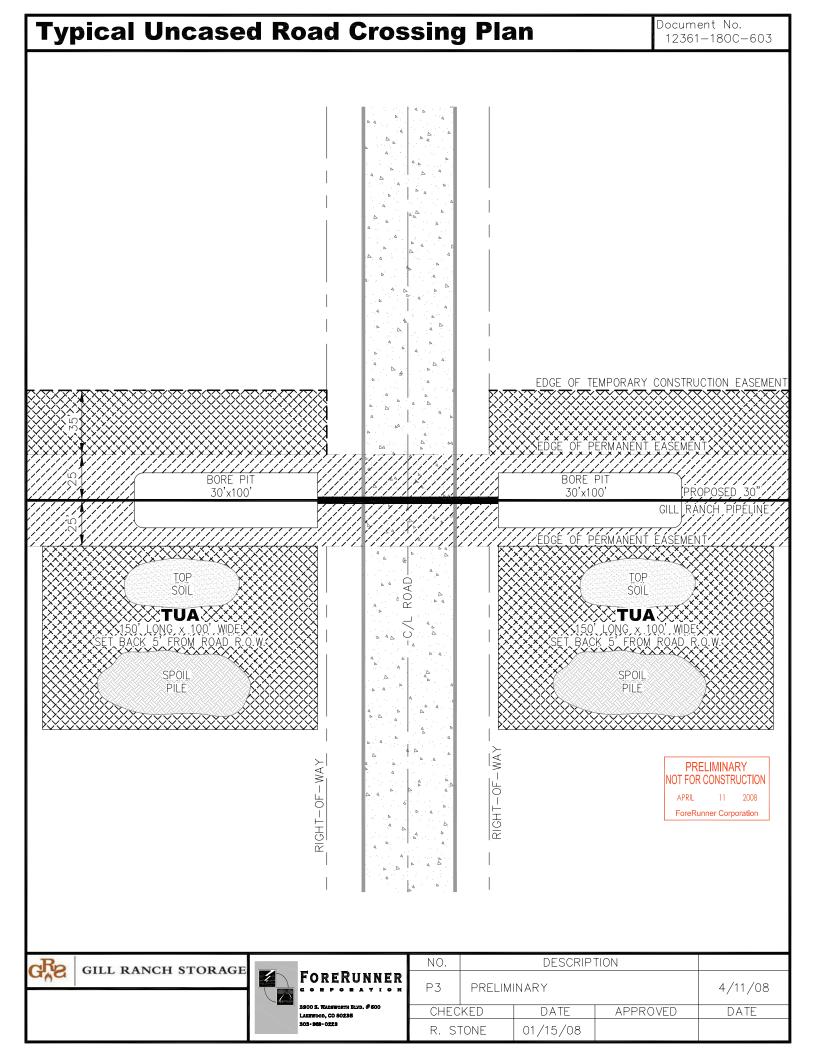
APPENDIX A.3 GAS PIPELINE SURFACE FACILITY DETAILS

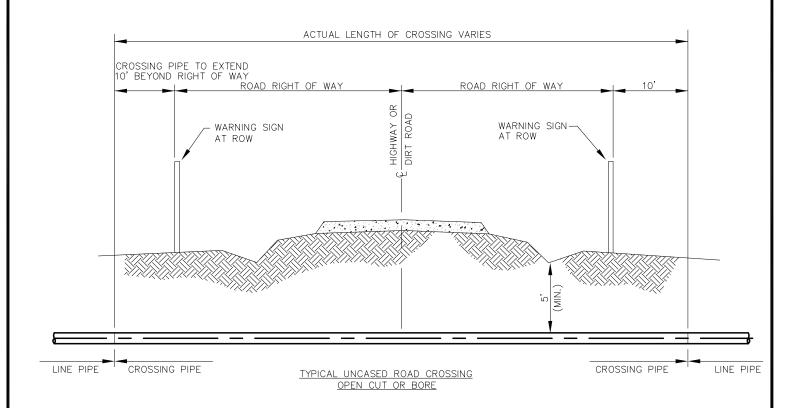




APPENDIX A.4

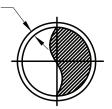
GAS PIPELINE TYPICAL SPECIFICATIONS





- 1. CROSSING SHALL BE IN ACCORDANCE WITH APPLICABLE PERMIT.
- 2. ROAD CROSSING PIPE SHALL EXTEND TO A MINIMUM OF RIGHT OF WAY LINE PLUS 10' EACH SIDE.
- 3. THE TYPE AND MINIMUM REQUIRED LENGTH OF PIPE FOR CROSSING OF PUBLIC
- ALL BORED CROSSING PIPE SHALL HAVE 40 MILS OF POWERCRETE J PROTECTION DURING INSERTION. PIPE FOR OPEN CUT CROSSING DOES NOT REQUIRE EXTRA
- CROSSING SHALL BE A MINIMUM OF 5' BELOW PAVED SURFACE FOR ALL STATE AND US HIGHWAYS.
- 6. OPPOSITE HAND ORIENTATION MAY BE VALID FOR A GIVEN CROSSING.

BORE ANNULUS TO BE NO LARGER THAN 1" GREATER THAN COATED LINE PIPE



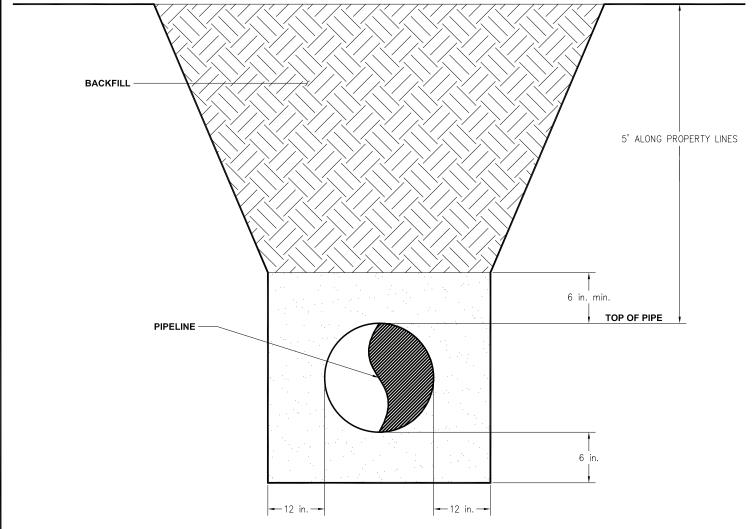
PRELIMINARY NOT FOR CONSTRUCTION

11 2008 ForeRunner Corporation





NO.				
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CHECKED		DATE	APPROVED	DATE
R. STONE		01-15-08		



TYPICAL CROSS SECTION

NOTE:

ALL FILL TO BE NATIVE SOIL UNLESS NATIVE SOIL IS NOT ACCEPTABLE FOR THE PORTION AROUND THE PIPE. IF NATIVE SOIL IS FOUND NOT SUITABLE, SAND PADDING OR SELECTED FILL TO BE USED AS REQUIRED BY CODE.

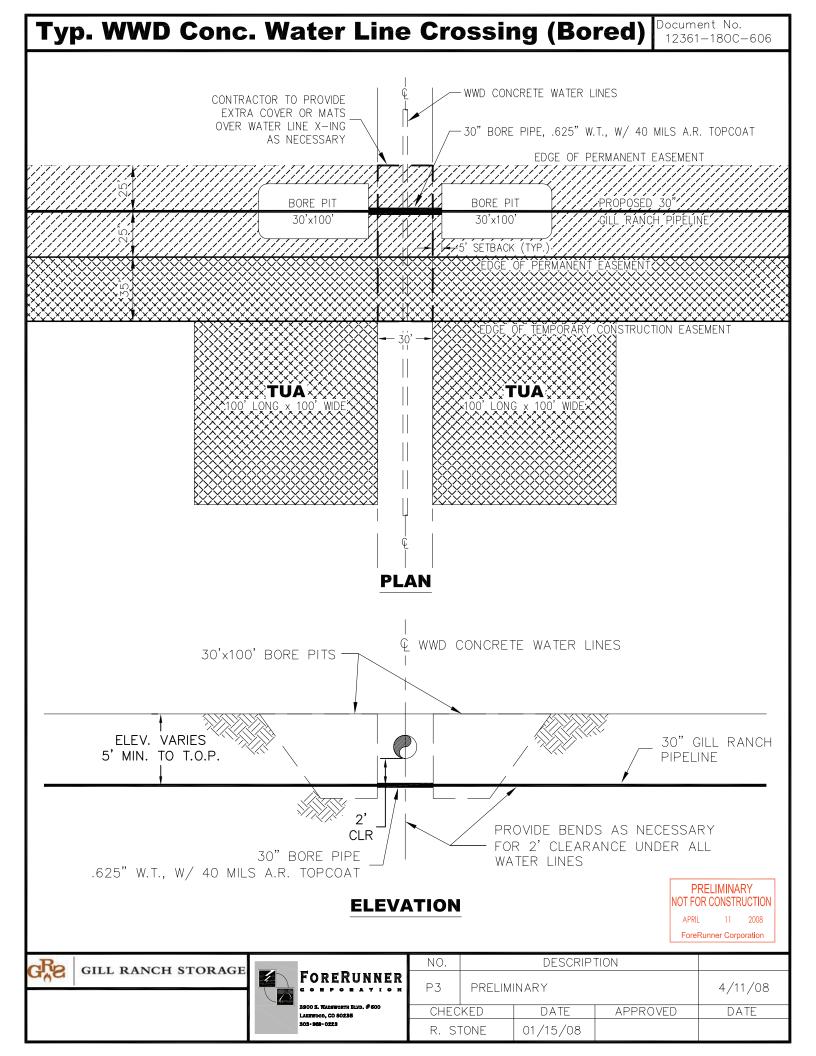
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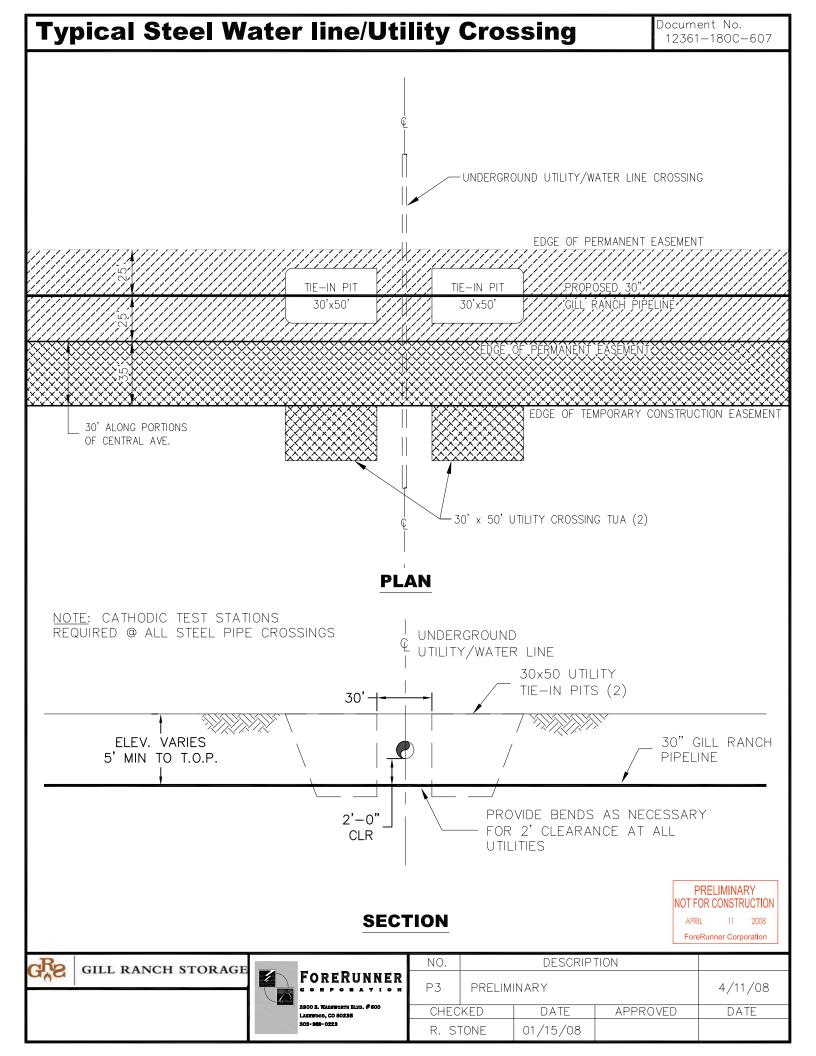
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APRIL 11 2008

ForeRunner Corporation

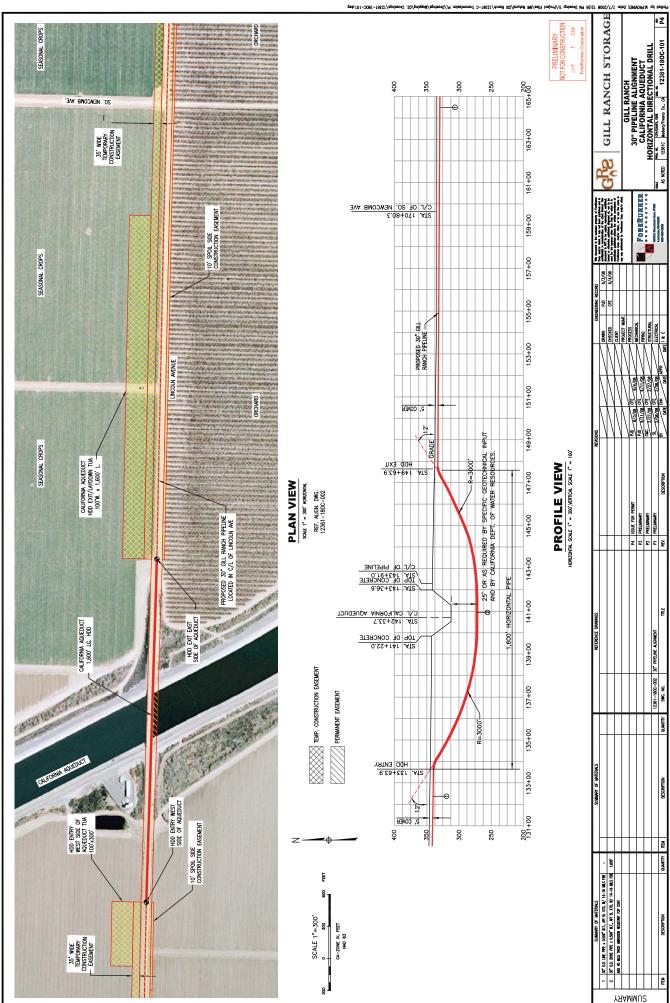
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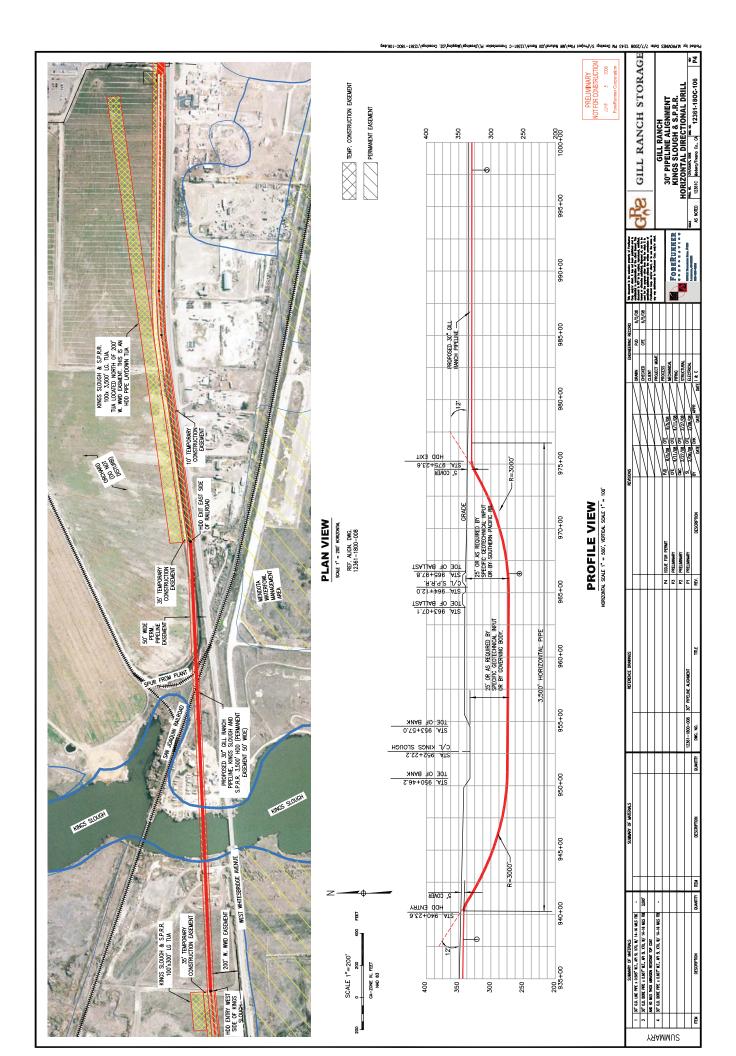


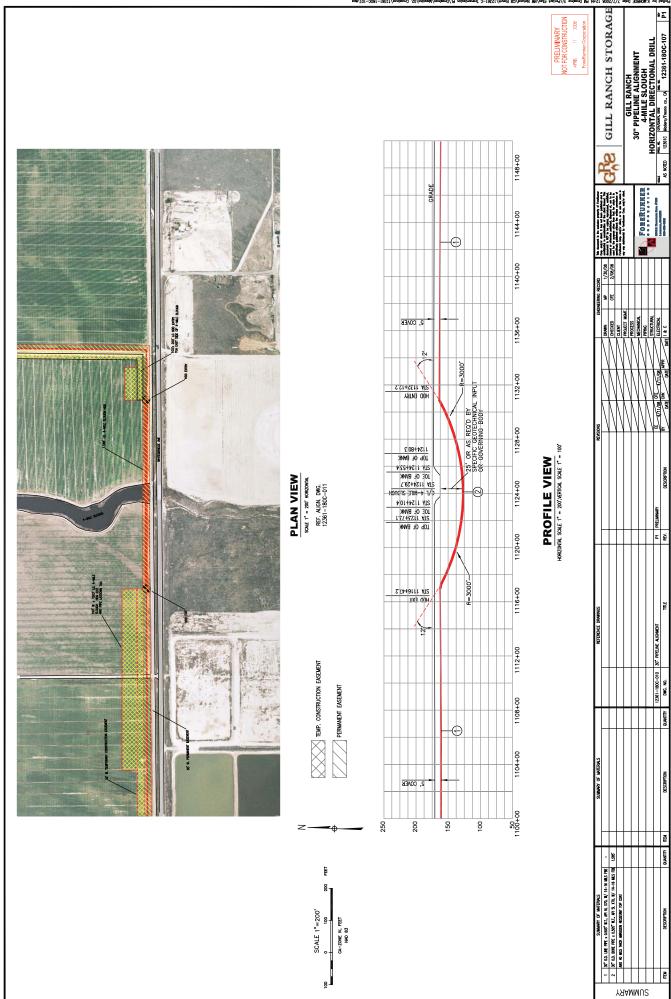
APPENDIX A.5

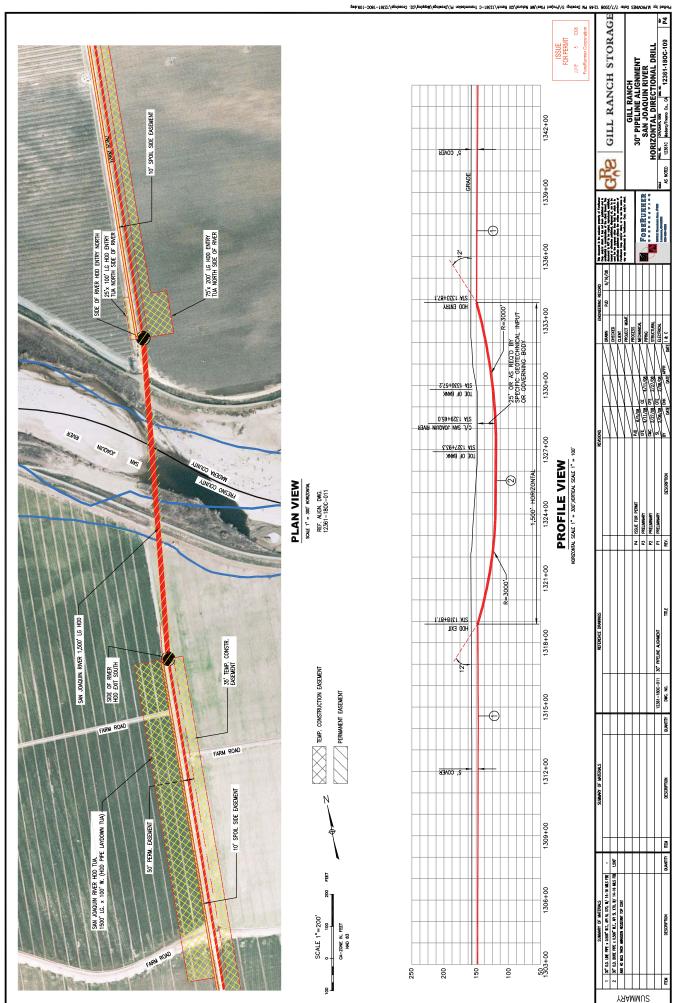
GAS PIPELINE CROSSING DETAILS



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APPENDIX A.6 WELL DRILLING DETAILS

Gill Ranch Gas Storage Project Preliminary Well Drilling Plan

Preliminary Drilling Plan

Well drilling for the proposed IW and OM wells requires specialized equipment and procedures. The following information provides preliminary specifications for the well drilling, including a description of the drilling work sequence and equipment layout; rig scheduling and staffing; onsite materials and storage / handling procedures; and drilling rig specifications for a typical rig that will be employed for this work. This drilling plan will be updated after the rig is selected and prior to drilling.

Rig Work Sequence, Specifications, and Equipment Layout. Drilling equipment includes a drill rig, a rotary table, mud motors, drill pipe, rock bits and shale shakers.

The drilling and completion process of an IW well includes the following steps:

- Rig up and set surface casing at a minimum depth of 1,100'.
- Drill conventionally for a vertical well or with directional tools in a deviated to horizontal well, to ~6,400′ TVD (true vertical depth).
- Run and set an intermediate casing and cement in place.
- Drill a vertical or deviated hole to a total vertical depth around ~6,500′.
- Run and gravel pack a liner from 100′ above the shoe of the intermediate casing to total depth of the well.
- Using a drilling rig or a workover rig run production casing in hole to around 6,400′. Install production tree. Swab well in and clean well. At this time the well is ready for gas injection.

The drilling and completion process of a salt water disposal well entails the following steps:

- Rig up and set surface casing at a minimum depth of 1,100'.
- Drill a straight hole to top of Santa Margarita Formation around 3,200′- 3,500′.
- Run and set an intermediate casing and cement in place.
- Drill a straight hole up to 100′ into the formation.
- Run and gravel pack a liner from 100′ above the shoe of the intermediate casing to the total depth of the well.

Preliminary Well Drilling Plan

• Using a drilling rig or a workover rig run tubing in hole to top of the liner. Install production tree. Swab well in and clean well.

At this point in the process the well is ready for water injection.

The drilling and completion process of an OM well entails the following steps:

- Rig up and set a surface casing at a minimum depth of 1,100'.
- Drill a straight hole to 6,700'.
- Run casing to bottom and cement the casing.
- Install production tree.
- Perforate well as needed

At this point in the process the well is ready for OM.

Typical drilling rig specifications for these types of wells are attached. The rig will be approximately 174 feet tall. The rig will be onsite for approximately 20 days per well. This unit will be leased on a long-term day rate based contract. At the end of the drilling process it will be removed from the job site.

The rig will be delivered to the site on tractor trailers; approximately 40 truck loads would arrive at the time of set up, with approximately 3-5 additional daily loads to deliver fuel, water, downhole equipment, mud, and supplies. All of this equipment will be removed at the end of the drilling program.

The attached rig specifications describe a typical drilling rig that will be employed for this Project.

Equipment that will be used during the drilling process includes:

- 142′ Mast
- 30′ substructure
- 2 Mud pumps, mud tank and shale shaker
- Cat walk and Pipe racks
- 4 Baker Tanks and 6 cuttings bins
- 15,000' drill pipe,15,000' casing

Preliminary Well Drilling Plan

- 3 Generators and SCR house
- Logging truck
- Four pick-up trucks
- Vacuum truck
- Fuel and water tanks
- Well control equipment
- Parts House and pipe bins
- 4 Support trailers
- Assorted tools and downhole equipment

Drilling mud materials (in dry form) will to be transported to the well locations. During the drilling operation the drilling materials will be mixed in the designated mud tanks (part of the drilling rig) and used in the well for the purpose of removing the drilling cuttings during rotary drilling and containing the formation pressure. The well control equipment is used to contain any gas pressure that may migrate up through the mud column from the formation.

Use of the drill rig will require minor trenching to install lines for the safety and control equipment. In addition an earthen pit will be dug to store the drilling cuttings and used drilling mud.

Rig Schedule. The use of the rig will commence after GRS receives a CPCN from the CPUC and any other necessary authorizations. Actual time expected on each well is approximately 20 days. The entire drilling project is expected to take approximately six months.

Hours of Drilling Operation and Personnel. The drilling rig will operate 24 hours per day, seven days per week for the duration of drilling. A crew of 13 workers will be onsite. Of the 13, the rig crew (five people) will rotate on 8-hour shifts.

Water Demand and Source. Daily water demand during drilling operations is an estimated 16,000 gallons per day (gpd). Water for drilling will be obtained from an agricultural water well owned by an adjacent agricultural operator. Water will be trucked or temporarily piped and stored in a temporary water tank at the drill site. Bottled drinking water will be provided by the drilling contractor.

Preliminary Well Drilling Plan

Onsite Sanitary Facilities. Portable onsite sanitary facilities will be provided by the drilling contractor. These facilities will be removed at the completion of the drilling.

Onsite Hazardous Materials. Onsite hazardous materials during drilling activities will include:

- 12,300 gallons diesel fuel stored in a temporary tank
- 500 gallons lube oil.

Drilling Waste Handling and Disposal. Drilling waste will consist primarily of drilling cuttings and used mud. The used drilling mud and the drilling cuttings will be collected in an earthen pit next to the drilling rig and will be transported by truck after the drilling operations are completed, to a county permitted disposal site. There are no hazardous chemicals in the proposed drilling mud.

Other Wastes. Other wastes will be generated and hauled off site for disposal or recycling during drilling, including:

- Minor amounts of waste lube oil
- 100 bbl unused or contaminated Sodium Chloride brine
- 50 bbl cement or cement contaminated mud
- Miscellaneous trash, pails, sacks and pallets

Spill Contingency and Emergency Response. GRS will develop a spill and emergency response contingency plan for the Project. The contingency plan will address well upsets (e.g., blowouts).

A separate and parallel spill prevention and countermeasure control plan (SPCC Plan) associated with the drilling program will be included in the final drilling plan. The SPCC Plan will include specific protection measures to contain any spilled fluids onsite. These measures may include sand bag barriers, silt fencing, construction fencing, and restriction of work to pre-developed areas. Equipment staging and maintenance would be performed in a designated location away from vegetated areas or drainages.

Noise and Vibration. Engine/pump noise from the drilling rig is estimated as follows:

- Rig floor: approx. 93 dBa
- At 50-feet elevation: approx. 85 dBa
- At 150 feet elevation: approx. 78 dBa

Gill Ranch Gas Storage Project Preliminary Well Drilling Plan

• Permissible exposure over 8 hours = 85 dBa.

Vibration levels are anticipated to be imperceptible on surrounding properties due to the absorptive characteristics of the sandy loam soils underlying the drill site.

Light and Glare. Night operations will require lighting on the rig floor and certain sections of the rig mast. Lights will be shielded and focused inward on the work location to avoid offsite glare.

Drilling and Production Emissions. The drilling rig prime mover and auxiliary equipment will be powered by portable onsite diesel generators. This portable equipment will be appropriately registered with the California Air Resources Board (CARB) Portable Equipment Registration Program (PERP).

Fire Protection. The drilling rig package will include water storage and fire suppression equipment. A safety manual which addresses fire safety and suppression will be on site.

Site Security. The well drilling is a 24/7 operation. The onsite personnel and supervision will provide security vigilance.

Preliminary Well Drilling Plan

Typical Drill Rig Specifications

<u>Drilling Range:</u> 20,000' with 5" Drillpipe.

<u>Drawworks:</u> National 1320 UE 2,000 H.P. Driven by (2)-1,000 H.P. General

Electric 752 DC Traction Motors With a Baylor 7838 Electric

Brake and Electrical Control Panel.

Mast: DSI 142' High, Rated at 1,200,000# GNC and 1,300,000# Static

Hook Capacity.

Substructure: DSI 30' High With 1,800,000# Capacity.

Mud Pump #1: National 12-P-160, 6-1/2"x10", 1,600 H.P., Powered by (2)-

1,000 H.P. General Electric 752 Traction Motors Charged by

(1)6x8 Centrifugal Pump.

Mud Pump #2: National 12-P-160, 6-1/2"x10", 1,600 H.P., Powered by (2)-

1,000 H.P. General Electric 752 Traction Motors Charged by

(1)-6x8 Centrifugal Pump.

Rotary Table: Oilwell 27-½" Independently Powered by (1)-1,000 H.P. General

Electric 752 Traction Motor

<u>Traveling System:</u> Continental Emsco 7 Sheave, 750 Ton Block/BJ Dynaplex 750

ton Hook and Oilwell PC 650 Swivel.

SCR/Power System: (3)-Detroit Diesel, 16V2000 (1,495 BHP Each) Diesel Engines

Driving (3)-Marathon 1,357 KW Generators Ross Hill Electric 3

Bridge SCR Unit and G.E. Electrical Control Unit.

Mud System: (3)-Pit System, 1,400 Total Barrels, With Shaker, Volume, Mud

Cleaning, Suction and Pill Mixing Compartments, (6)-Mud

Agitators, and (2)-5x6 Centrifugal Pumps.

Blow Out Prevention Equipment:Hydril GK 13-5/8", 5,000# Annular, Shaffer 13-5/8", 5,000# D-

Ram, Koomey 160 Gallon Accumulator and 5,000# Choke

Manifold.

Water/Fuel Storage: 400 BBLS / 21,000 Gallons.

Auxiliary Equipment: (2)-Air Winches, Wireline Unit (.092"), (2)-Air compressors,

Upper &