

January 7, 2011

Husky Oil Operations Ltd.
707-8th Avenue SW
Calgary, AB T2P 3G7

Dear Ms. Jody Spady:

**RE: SITE SPECIFIC LIABILITY ASSESSMENT - REMEDIATION: HUSKY ARMADA SWEET GAS PLANT
(F2226) 01-18-017-18W4M**

INTRODUCTION

TerraLogix Solutions Inc. (TLS) was retained by Husky Oil Operations Ltd. (Husky) to complete a limited Phase I Environmental Site Assessment (Phase I ESA) for the purpose of a site-specific liability assessment of remediation. The limited Phase I ESA was completed for the sweet gas plant located in LSD 01-18-017-18W4M, which is hereafter referred to as 'Plant Site'. The Plant Site is located 43 km southwest of the Town of Brooks, Alberta, within Vulcan County (see Figure 1).

As a requirement of the Energy Resources Conservation Board (ERCB) Directive 006¹, a licensee is required to complete a site-specific liability assessment which includes the costs to suspend, abandon, remediate and reclaim an upstream oil and gas facility. As indicated above, the purpose of this document is to only evaluate the perceived liability associated with remediation of the Plant Site. The site-specific liability assessment was completed in a manner that meets and exceeds the standards set forth in the Alberta Environment publication T/573: Phase I ESA Guideline for Upstream Oil² and Gas Sites as per ERCB Directive 001³.

The scope of the limited Phase I ESA, as determined by Husky, included the following:

- Review of the well file and historical environmental information provided by Husky.
- Review ERCB well and/or facility information: site status, well/facility licence, survey plan, spill and complaint records, pipeline information, and production data.
- Review available historical and current aerial photographs.
- Review current land title or land standing information.
- Review water well records from the Alberta Environment (AENV) Groundwater Information Center.
- Present findings in the AENV Phase I ESA form and this cover letter.

¹ Energy Resources Conservation Board. 2009. Directive 006, Licensee Liability Rating Program and Licence Transfer Process. September 15, 2009.

² Alberta Environment. 2001. Phase I Environmental Site Assessment Guidelines for Upstream Oil and Gas Sites. Environmental Service. Environmental Sciences Division. Edmonton, Alberta. Report #ESD/LM/01-1. Pub.No. T/573.

³ Energy Resources Conservation Board. 2009. Directive 001, Requirements for Site-Specific Liability Assessments in Support of the ERCB's Liability Management Programs. September 20, 2005.

PHASE I ESA SUMMARY

Based on the scope of the limited Phase I ESA TLS gathered and reviewed all available information pertinent to the Plant Site. A summary of the general information with respect to the facility and/or wellsite and the surrounding landscape is presented below in Table 1. This information was utilized in identifying areas of potential environmental concern.

Table 1. General Information

| FACILITY INFORMATION | | | |
|---|---|--|------------------------|
| Facility Status: | Active | | |
| Facility Overview: | The Husky Armada Sweet Gas Plant is comprised of five batteries (2 - licensed to Husky (F2226); 3 - licensed to Penn West Energy Ltd. (F29796), two compressors (1 - licensed to Husky (F29848); 1 - licensed to Penn West Energy Ltd. (F29796), three gas gathering systems (2 - licensed to Husky (F2226); 1 - licensed to Penn West Energy Ltd. (F29796), and one meter station licensed to Nova Gas Transmission Ltd. | | |
| Facility Location: | 01-18-017-18W4M | Design Capacities: | 10 Well Equivalent |
| Facility Name: | Armada Gas Plant | No information available to determine the exact design capacities. | |
| Facility License: | F2226 | | |
| Facility Construction Date: | 1981 | | |
| GENERAL SETTING | | | |
| Private or Crown Land: | Fee Land (Marathon Canada Ltd.) | | |
| Adjacent Land Use: | Cultivated | | |
| Nearest Residence: | > 300 m | | |
| Nearest Water Well: | > 300 m | | |
| Nearest Waterbody: | Dugout west of the lease | | |
| INFRASTRUCTURE INVENTORY | | | |
| Facilities: | | | |
| 5 - Compressors | 1 - Sales Meter Building | 1 - Office Building | 1 - Separator Building |
| 1 - Refrigeration Building | 3 - Pig Receivers | 1 - Flare Stack | |
| AST(s): | | | |
| 1 - LPG Bullet | 1 - Gas Storage (1000 gal) | 1 - Lube Oil AST (100 bbl) | 1 - AST (200 bbl) |
| UST(s): | | | |
| 1 - UST Storage (5 m³) | 1 - Flare Knockout (8000 L) | | |
| Earthen Pit(s): | | | |
| No earthen pits or flare pits were identified in the file review. | | | |
| Pipeline(s): | | | |
| 16927-11 | 16927-20 | 16927-35 | 16928-4 |
| 20426-4 | 20782-3 | 20782-4 | 32118-1 |
| 32119-1 | 40467-4 | 41459-27 | 41521-6 |
| 41521-25 | 41521-31 | 80634-1 | |

| ERCB Spill and Complaint Search | |
|---|--|
| Incident: 19880082 | • Complaint regarding odour (January 14, 1988) |
| Site Visit | |
| A site visit has not been conducted at the Armada Gas Plant. This will be completed by Husky at a later date. | |
| Operator Interview | |
| An operator interview has not been conducted for the Armada Gas Plant. This will be completed by Husky at a later date. | |

Provided on the following page is a summary of the remedial liability for all areas addressed as a part of this assessment. Liability values have been provided for identified or potential environmental liabilities, where applicable. The liability values have been based on TLS's professional judgement, extensive knowledge of the Upstream Oil and Gas activities/contaminants, remedial requirements and associated costs to meet those requirements.

Table 2. Remediation Liability Summary

| AREA(S) OF POTENTIAL ENVIRONMENTAL CONCERN ¹ | INFRASTRUCTURE ON-SITE | POTENTIAL PARAMETERS OF CONCERN ² | COMMENTS | LIABILITY ESTIMATE | TOTAL ESTIMATE |
|--|--|---|---|-----------------------|-------------------|
| Assessment Costs | NA | Phase 2 ESA | General Phase 2 ESA costs which includes the assessment of all areas of concern, third party, analytical and reporting. | \$40,000 | \$40,000 |
| ASTs (<400 bbl) | <ul style="list-style-type: none"> 1 - Gas Storage AST 1 - Lube Oil AST 1 - AST | <ul style="list-style-type: none"> Salinity PHC Metals | Please refer to Appendix A - Figures. | \$3125 | \$9,375 |
| USTs | <ul style="list-style-type: none"> 1 - FKO 1 - UST Storage | <ul style="list-style-type: none"> Salinity PHC Metals | Please refer to Appendix A - Figures. | \$62,500 | \$125,000 |
| Facility Infrastructure - Medium (25 -100m ²) | <ul style="list-style-type: none"> 1 - Sales Meter Building | <ul style="list-style-type: none"> Salinity PHC Metals | Please refer to Appendix A - Figures. | \$12, 500 | \$12,500 |
| Facility Infrastructure - Large (>100m ²) | <ul style="list-style-type: none"> 5 - Compressor Buildings 1 - Separator Building 1 - Refrigeration Building | <ul style="list-style-type: none"> Salinity PHC Metals | Please refer to Appendix A - Figures. | \$25,000 | \$175,000 |
| Flare Stack | <ul style="list-style-type: none"> 1 -Flare Stack | <ul style="list-style-type: none"> Salinity PHC Metals | Please refer to Appendix A - Figures. | \$14,000 | \$14,000 |

Notes: 1. See Figure 2 for approximate locations.

2. Potential parameters of concern as per AENV 2001 Phase I Environmental Site Assessment Guidelines for Upstream Oil and Gas Sites.

CONCLUSIONS

Based on the limited Phase I ESA completed by TLS, sufficient information has been collected to make a summation regarding the remedial status of the Plant Site. It can be concluded that there are identified and potential remedial issues associated with the Plant Site.

The remedial liability for the identified areas of concern has been calculated based on off-site disposal at an approved Class II Landfill. At the time of site remediation some material may be amendable to on-site treatment; however, this can not be determined at this time. Therefore, it is estimated that the remedial liability associated with the Plant Site would be in the order of \$375,875.00.

CLOSURE

We trust that the information contained within this report is sufficient for your present management requirements. Should you have any questions and/or concerns, please do not hesitate to contact us at (403) 217-7787.

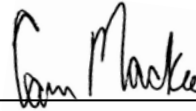
Regards,

Prepared By:

Reviewed By:



Crystal Begin, B.Sc.



Cam Mackee, B.Sc., P.Ag.

Appendix A - Figures

Appendix B - Equipment List

Appendix C - Schedule Two: Phase I ESA Guideline Form and Attachments

Appendix D - Additional Background Information

Appendix E - Methodology

LIMITATION OF LIABILITY

This report has been prepared and the work referred to in this report has been undertaken by TerraLogix Solutions Inc. hereinafter referred to as TerraLogix for the Husky Oil Operations Ltd. It is intended for the sole and exclusive use of Husky Oil Operations Ltd., for the purpose of a site specific liability assessment in accordance with the Energy Resources Conservation Board Liability Management Program. Any use, reliance on or decision made by any person other than the Husky Oil Operations Ltd. based on this report is the sole responsibility of such other person. TerraLogix make no representation or warranty to any other person with regard to this report and the work referred to in this report and they accept no duty or care to any other person or any liability or responsibility whatsoever for any losses, expenses, damages, fines, penalties, or other harm that may be suffered or incurred by any other person as a result of the use of, reliance on, any decision made or any action taken based on this report or the work referred to in this report.

The assessment undertaken by TerraLogix with respect to this report and any conclusions or recommendations made in this report reflect TerraLogix's judgment based on the site conditions observed at the time of the site inspection on the date(s) set out in this report and on information available at the time of preparation of this report. This report has been prepared for specific application to this site and it is based, in part, upon the scope of the assessment. Unless otherwise stated, the findings cannot be extended to previous or future site conditions. Unknown substances may exist in areas of the site as no invasive assessment activities were conducted.

Other than by Husky Oil Operations Ltd., copying or distribution of this report or use of or reliance on the information contained herein, in whole or in part, is not permitted without the expressed written permission of TerraLogix. Nothing in this report is intended to constitute or provide a "legal opinion".

Appendix A Figures

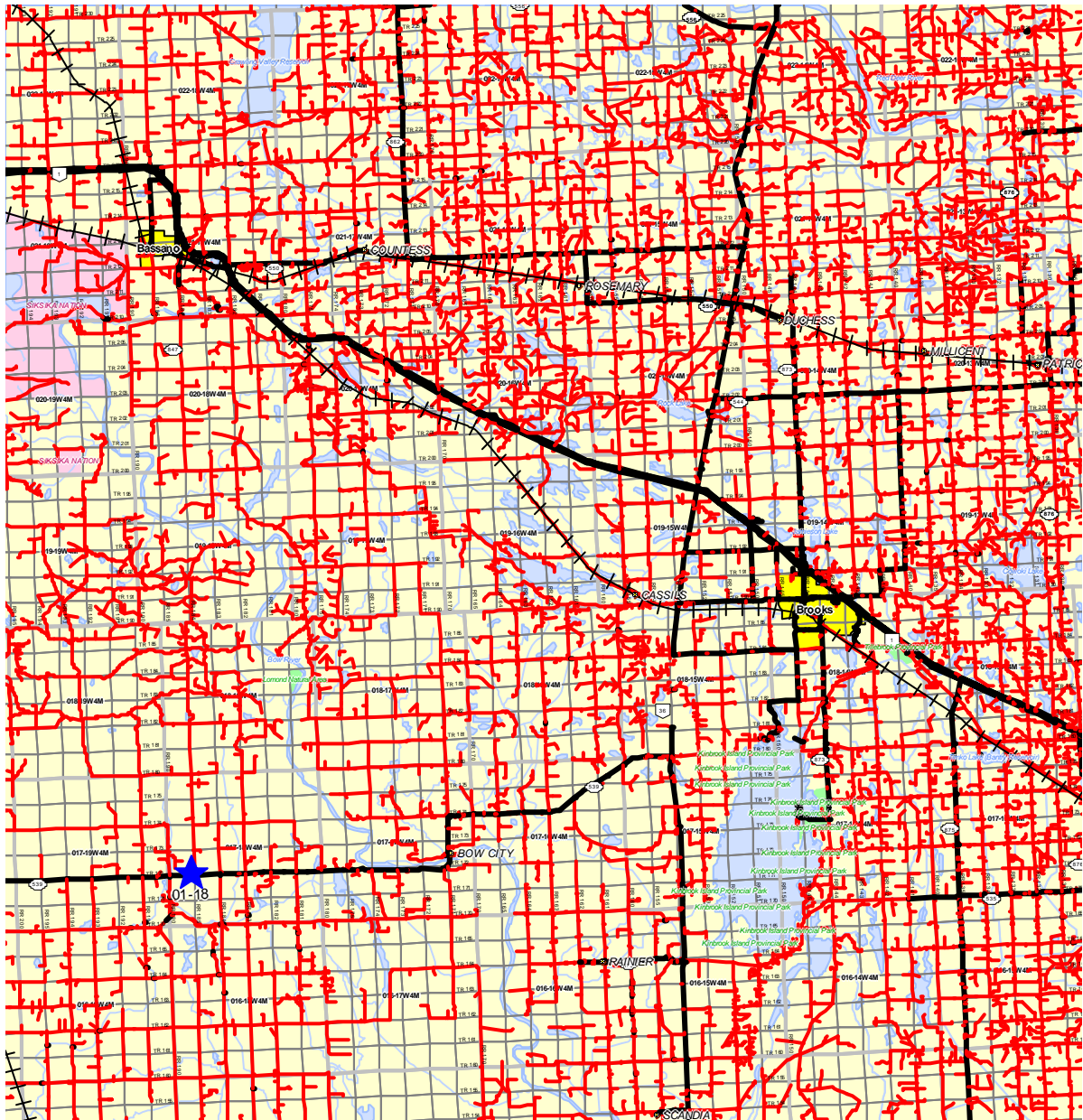
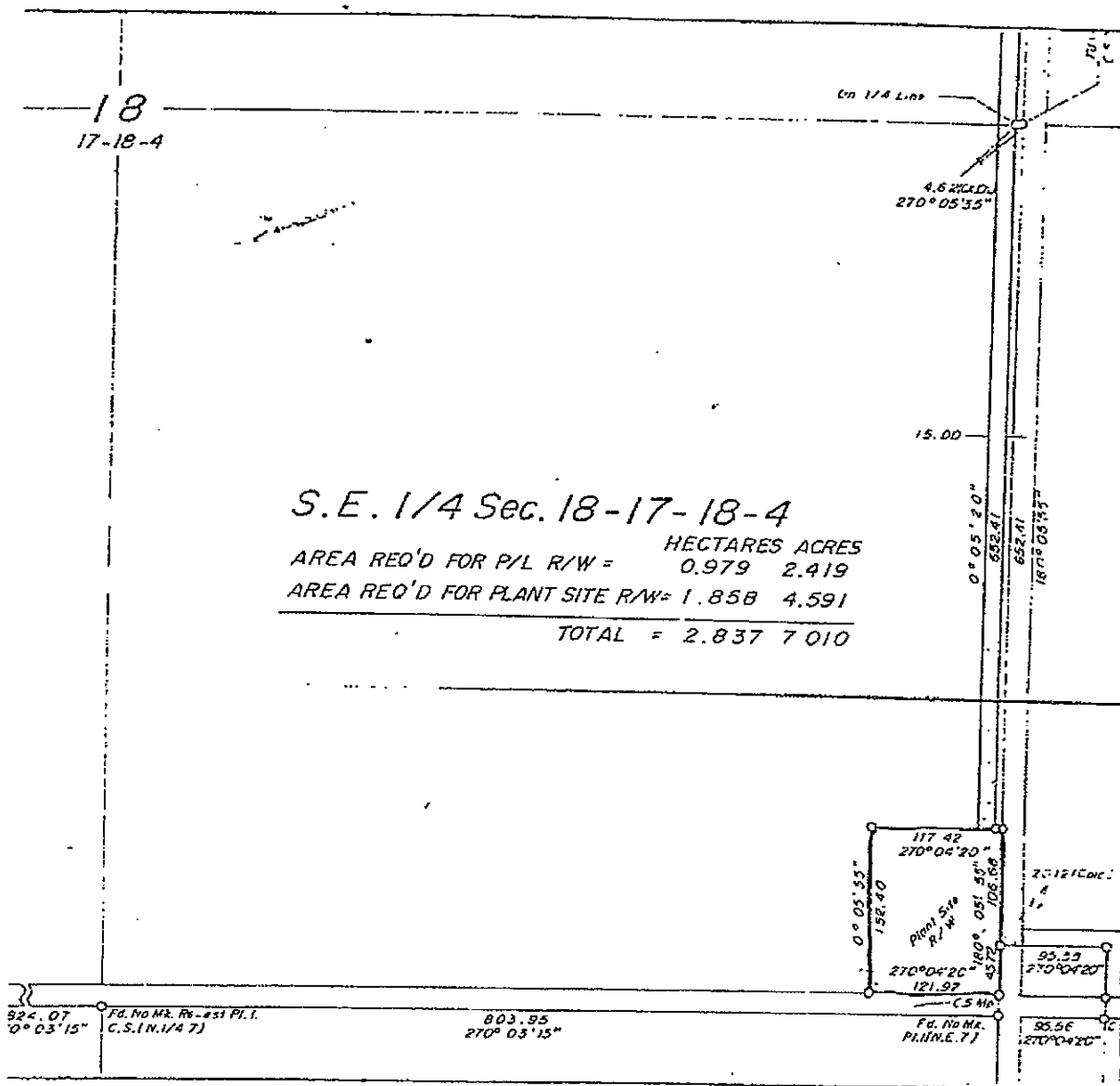


Figure 1. Site Location Map – 01-18-017-18W4M.



CONRANE R. JOES LTD.
INDIVIDUAL OWNERSHIP PLAN
SHOWING PIPE LINE RIGHT-OF-WAY
SCALE: 1:5000



OWNER: Her Majesty The Queen

TITLE NUMBER: 34 X 68

LEGEND

MONUMENT FOUND SHOWN THUS ●
MONUMENT PLANTED SHOWN THUS ○
PORTION REFERRED TO COLORED 'IN RED'
DISTANCES ARE IN METRES AND DECIMALS

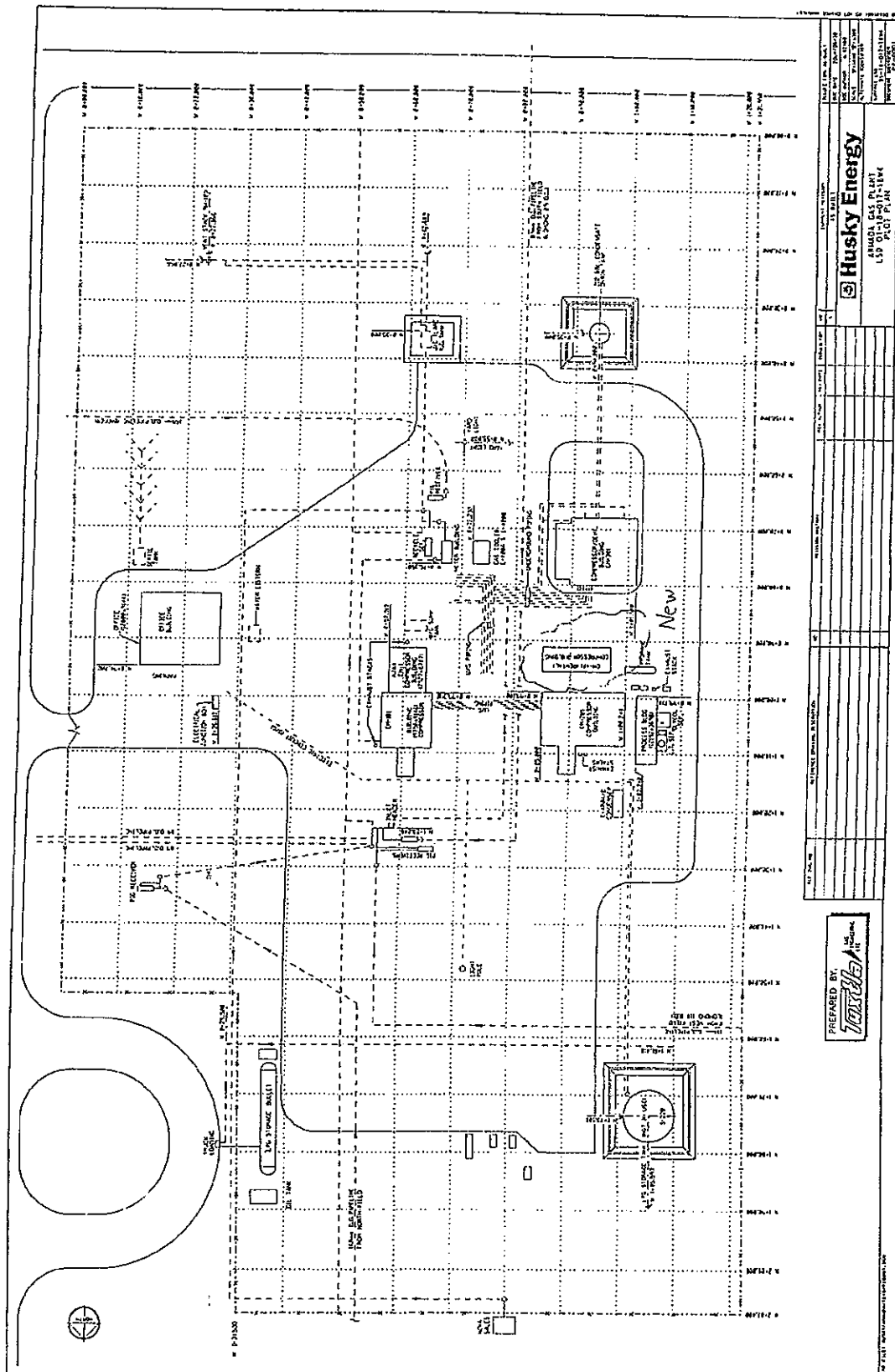
I, Donald N Tomkinson, Alberta Land Surveyor, hereby
certify that the survey represented by this plan is true
and correct to the best of my knowledge and was completed
on the 19th day of July 1979

ALBERTA LAND SURVEYOR

File No. 269-75



CAN-AM SURVEYS LTD.
216-Center Street North,
Calgary, Alberta
Phone 277-7584



R18W4

↑ 41521.6

↓ 41521.6

T17

T17

CS B CS CS
CS CS B 82470
CS B 1480
B CS B

↑ 40462.4

↙ 26782.3

R18W4

STD. PIPELINES LEGEND

Natural Gas

FACILITY LEGEND

CS Compressor station
CS Gas Gathering System
G Gas processing plant

01-18-017-18 W4M

01-18-017-18 W4M

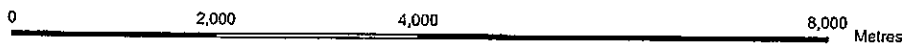
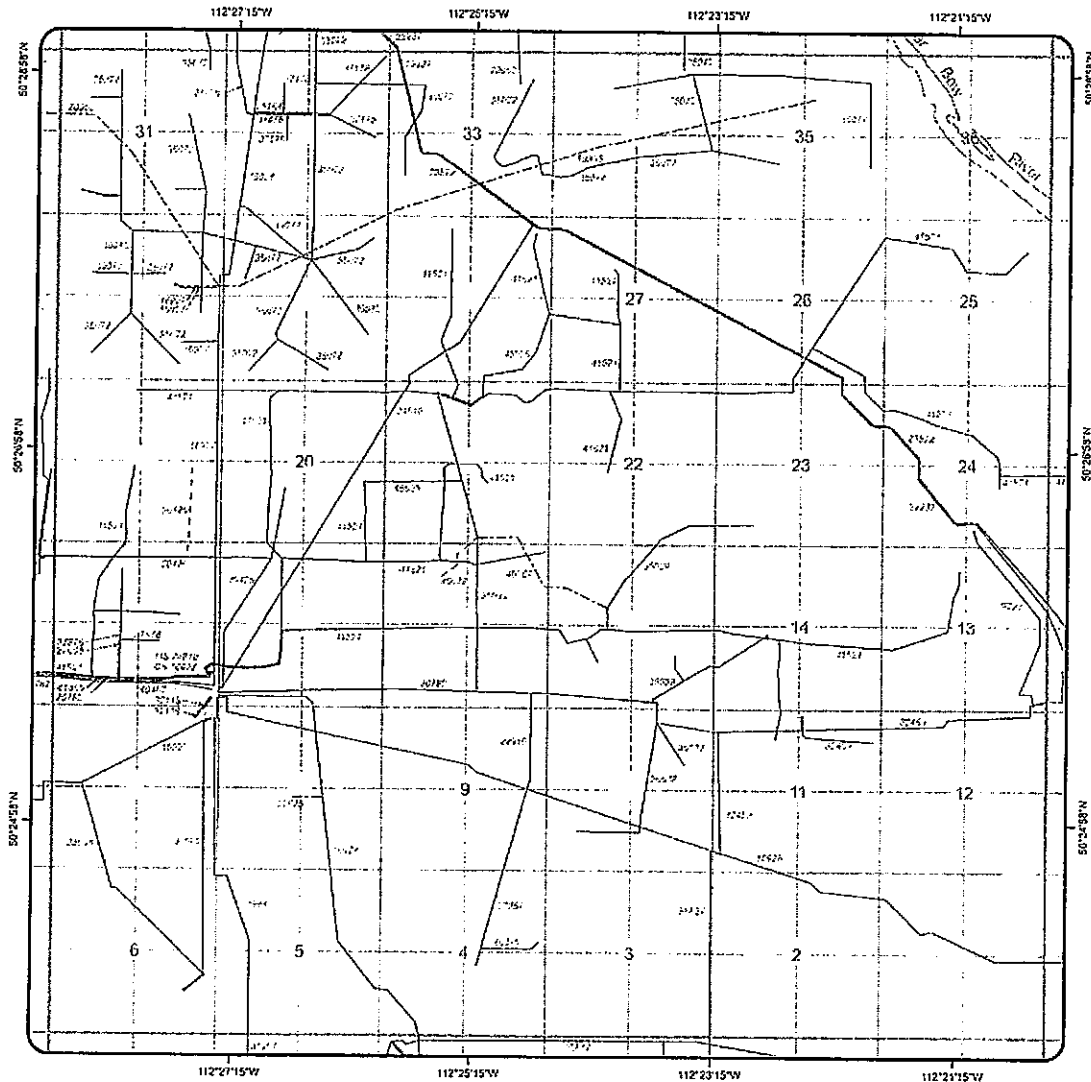
AccuMap

Created in AccuMap
Product of IHS
Datum: NAD83
Vol 12.5a (1 Nov 18 2007)
1181 770.1636

Altitude: None
Date: December 31, 2007
File: None
Scale: 1:740
Projection: Stereographic
Center: NAD 83 42854 W 112 45779

Scale 1:740





Coordinate System: 10TM





ALL PIPELINES IN TWP 017- 18W4


REVISION DATE:
01 August 2007

CAUTION
- THIS PLOT REPRESENTS THE BEST
INFORMATION AVAILABLE TO THE
BOARD AT THIS TIME.
- SPECIFIC PIPELINE LOCATIONS
SHOULD BE OBTAINED FROM SURVEY
PLANS, OWNERS AND FIELD
OBSERVATION BEFORE DIGGING.
- LOW-PRESSURE GAS DISTRIBUTION
LINES ARE NOT SHOWN.
CONTACT THE GAS DISTRIBUTOR
IN THIS AREA FOR LINE LOCATION

LEGEND

PERMITTED: 

LICENSED: 

DISCONTINUED,
ABANDONED,
OR ABANDONED
AND PARTIALLY
REMOVED: 

Appendix B Equipment List

| Description | Tag No | EqType | Class | Location | Manufacturer | Serial | Plant | CC | Superior | Eq Status | Mkt value | Cond | Equip | ABRegNo |
|------------------------------------|--------|----------|--------------------|---------------------------------|------------------------|-------------------|-------|-------|----------|-----------|-----------|------|----------|---------|
| ATV, QUAD POLARIS | | MOB | ATV | ARMADA GAS PLANT 01-18-017-18W4 | POLARIS | 4XACD32A83B112148 | SS01 | 21546 | | ISF | 1.5 | B | 66079582 | 0 |
| BUILDING, COMPRESSOR | | BLDG | BUILDING | ARMADA GAS PLANT 01-18-017-18W4 | ENERFLEX | | SS01 | 21546 | 66082565 | ISF | 1.5 | B | 66082566 | 0 |
| BUILDING, COMPRESSOR | | BLDG | BUILDING | ARMADA GAS PLANT 01-18-017-18W4 | ALMAC METAL INDUSTRIES | | SS01 | 21546 | 66075485 | ISF | 1.5 | B | 66082596 | 0 |
| BUILDING, COMPRESSOR | | BLDG | BUILDING | ARMADA GAS PLANT 01-18-017-18W4 | ARMOR BUILDING SYSTEMS | | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66083389 | 0 |
| BUILDING, COMPRESSOR | | BLDG | BUILDING | ARMADA GAS PLANT 01-18-017-18W4 | ARMOR | | SS01 | 21546 | 66075483 | IDLE | 1.5 | B | 66083755 | 0 |
| BUILDING, COMPRESSOR | | BLDG | BUILDING | ARMADA GAS PLANT 01-18-017-18W4 | WASEA METAL PRODUCTS | | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66083766 | 0 |
| BUILDING, OFFICE | | BLDG | BUILDING | ARMADA GAS PLANT 01-18-017-18W4 | WASEA | | SS01 | 21546 | 66083954 | ISF | 1.5 | B | 66083955 | 0 |
| BUILDING, REFRIDGE | | BLDG | BUILDING | ARMADA GAS PLANT 01-18-017-18W4 | ALMAC | | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66083833 | 0 |
| BUILDING, SALES METER | | BLDG | BUILDING | ARMADA GAS PLANT 01-18-017-18W4 | ALMAC | | SS01 | 21546 | 66083949 | ISF | 1.5 | B | 66083950 | 0 |
| BUILDING, SEPARATOR | | BLDG | BUILDING | ARMADA GAS PLANT 01-18-017-18W4 | LA METALS | | SS01 | 21546 | 66083941 | ISF | 1.5 | B | 66083943 | 0 |
| BULLET, LPG | | PRESSVES | BULLET | ARMADA GAS PLANT 01-18-017-18W4 | WESTERN ROCK BIT | 27635 A | SS01 | 21546 | 66124832 | ISF | 18750 | B | 66080599 | 227158 |
| CATHODIC PROTECTION SYSTEMS, PANEL | | EL | CATH_PROT | ARMADA GAS PLANT 01-18-017-18W4 | | | SS01 | 21546 | 66083954 | IDLE | 1.5 | B | 66079778 | 0 |
| COMP - RECIP, AJAX | | ROT | COMP_RECIP | ARMADA GAS PLANT 01-18-017-18W4 | AJAX | 75775 | SS01 | 21546 | 66075483 | IDLE | 1.5 | B | 66076289 | 0 |
| COMP - RECIP, PROPANE | | ROT | COMP_RECIP | ARMADA GAS PLANT 01-18-017-18W4 | MYCOM | 17554 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66079576 | 0 |
| COMP - RECIP, W.S. MW64 | | ROT | COMP_RECIP | ARMADA GAS PLANT 01-18-017-18W4 | WHITE SUPERIOR | 288810 | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66076352 | 0 |
| COMPRESSOR - RECIPROCATING | | ROT | COMP_RECIP | ARMADA GAS PLANT 01-18-017-18W4 | ARIEL | F-15143 | SS01 | 21546 | 66082565 | ISF | 1.5 | B | 66082569 | 0 |
| COMPRESSOR - RECIPROCATING, JOY | | ROT | COMP_RECIP | ARMADA GAS PLANT 01-18-017-18W4 | JOY | 131681 | SS01 | 21546 | 66075485 | ISF | 1.5 | B | 66076330 | 0 |
| COMPRESSOR - RECIPROCATING, JOY | | ROT | COMP_RECIP | ARMADA GAS PLANT 01-18-017-18W4 | JOY | 362316 | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66076307 | 0 |
| CONTROL PANEL, 101 | | INST | CONTROL_PANEL | ARMADA GAS PLANT 01-18-017-18W4 | SPARTAN CONTROLS | D-909 | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66076306 | 0 |
| CONTROL PANEL, 201 | | INST | CONTROL_PANEL | ARMADA GAS PLANT 01-18-017-18W4 | SPARTAN CONTROLS | D1275 | SS01 | 21546 | 66075485 | ISF | 1.5 | B | 66076329 | 0 |
| CONTROL PANEL, 301 | | INST | CONTROL_PANEL | ARMADA GAS PLANT 01-18-017-18W4 | SPARTAN | | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66076351 | 0 |
| CONTROL PANEL, 401 | | INST | CONTROL_PANEL | ARMADA GAS PLANT 01-18-017-18W4 | ENERFLEX | RC10161 | SS01 | 21546 | 66082565 | ISF | 1.5 | B | 66082570 | 0 |
| CONTROL PANEL, GAS COMPRESSOR | | INST | CONTROL_PANEL | ARMADA GAS PLANT 01-18-017-18W4 | MURPHYMATIC | YK-6133-C-24 | SS01 | 21546 | 66075483 | IDLE | 1.5 | B | 66076288 | 0 |
| CONTROL PANEL, REFRIDGE COMPRESSOR | | INST | CONTROL_PANEL | ARMADA GAS PLANT 01-18-017-18W4 | SRARTAN CONTROLS | D-1291 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66079574 | 0 |
| CONTROL SYSTEM, PLC | | INST | CONTROL_SYSTEM | ARMADA GAS PLANT 01-18-017-18W4 | RAFFIN ELECTRIC | 97-376-1 | SS01 | 21546 | 66083954 | ISF | 1.5 | B | 66079559 | 0 |
| DAMPENER, 1ST STAGE DISCHARGE | | PRESSVES | DAMPENER | ARMADA GAS PLANT 01-18-017-18W4 | ROCKET IND. | 81-R129 | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66076326 | 185314 |
| DAMPENER, 1ST STAGE DISCHARGE | | PRESSVES | DAMPENER | ARMADA GAS PLANT 01-18-017-18W4 | DACRO IND. | 83-062-4 | SS01 | 21546 | 66075485 | ISF | 1.5 | B | 66076347 | 201461 |
| DAMPENER, 1ST STAGE DISCHARGE | | PRESSVES | DAMPENER | ARMADA GAS PLANT 01-18-017-18W4 | BARBER | 07/03/3615 | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66076370 | 174994 |
| DAMPENER, 1ST STAGE DISCHARGE | | PRESSVES | DAMPENER | ARMADA GAS PLANT 01-18-017-18W4 | CARSON MACHINE | 8H13574 | SS01 | 21546 | 66075483 | IDLE | 1.5 | B | 66076301 | 166026 |
| DAMPENER, 1ST STAGE DISCHARGE | | PRESSVES | DAMPENER | ARMADA GAS PLANT 01-18-017-18W4 | ENERFLEX | 2000029-08 | SS01 | 21546 | 66082565 | ISF | 1.5 | B | 66082580 | 497452 |
| DAMPENER, 1ST STAGE SUCTION | | PRESSVES | DAMPENER | ARMADA GAS PLANT 01-18-017-18W4 | DACRO IND. | 83-062-3 | SS01 | 21546 | 66075485 | ISF | 1.5 | B | 66076346 | 201460 |
| DAMPENER, 1ST STAGE SUCTION | | PRESSVES | DAMPENER | ARMADA GAS PLANT 01-18-017-18W4 | ROCKET IND. | 81-R1 30 | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66076325 | 185315 |
| DAMPENER, 1ST STAGE SUCTION | | PRESSVES | DAMPENER | ARMADA GAS PLANT 01-18-017-18W4 | CARSON MACHINE | 8H13573 | SS01 | 21546 | 66075483 | IDLE | 1.5 | B | 66076302 | 166025 |
| DAMPENER, 1ST STAGE SUCTION | | PRESSVES | DAMPENER | ARMADA GAS PLANT 01-18-017-18W4 | ENERFLEX | 2000029-02 | SS01 | 21546 | 66082565 | ISF | 1.5 | B | 66082579 | 497453 |
| DAMPENER, 1ST STAGE SUCTION | | PRESSVES | DAMPENER | ARMADA GAS PLANT 01-18-017-18W4 | BARBER | 06/03/3615 | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66076371 | 174991 |
| DAMPENER, 2ND STAGE DISCHARGE | | PRESSVES | DAMPENER | ARMADA GAS PLANT 01-18-017-18W4 | BIMAC | 4808 | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66076373 | 421913 |
| DAMPENER, 2ND STAGE DISCHARGE | | PRESSVES | DAMPENER | ARMADA GAS PLANT 01-18-017-18W4 | CHERCO COMPRESSORS | CC84073A7F | SS01 | 21546 | 66075485 | ISF | 1.5 | B | 66076350 | 208600 |
| DAMPENER, 2ND STAGE DISCHARGE | | PRESSVES | DAMPENER | ARMADA GAS PLANT 01-18-017-18W4 | RON McCONNEL WELDING | CC84073A7F | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66076328 | 2729192 |
| DAMPENER, 2ND STAGE DISCHARGE | | PRESSVES | DAMPENER | ARMADA GAS PLANT 01-18-017-18W4 | ENERFLEX | 2000029-05 | SS01 | 21546 | 66082565 | ISF | 1.5 | B | 66082585 | 497451 |
| DAMPENER, 2ND STAGE SUCTION | | PRESSVES | DAMPENER | ARMADA GAS PLANT 01-18-017-18W4 | ROCKET INDUSTRIES LTD | 80 R1 167 | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66083494 | 185292 |
| DAMPENER, 2ND STAGE SUCTION | | PRESSVES | DAMPENER | ARMADA GAS PLANT 01-18-017-18W4 | CHERCO COMPRESSORS | CC84073A7E | SS01 | 21546 | 66075485 | ISF | 1.5 | B | 66076349 | 208599 |
| DAMPENER, 2ND STAGE SUCTION | | PRESSVES | DAMPENER | ARMADA GAS PLANT 01-18-017-18W4 | ENERFLEX | 2000029-04 | SS01 | 21546 | 66082565 | ISF | 1.5 | B | 66082584 | 497450 |
| DAMPENER, 2ND STAGE SUCTION | | PRESSVES | DAMPENER | ARMADA GAS PLANT 01-18-017-18W4 | BIMAC | 4807 | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66076372 | 421912 |
| DAMPENER, 3RD STAGE DISCHARGE | | PRESSVES | DAMPENER | ARMADA GAS PLANT 01-18-017-18W4 | BIMAC | 4810 | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66076376 | 421915 |
| DAMPENER, 3RD STAGE SUCTION | | PRESSVES | DAMPENER | ARMADA GAS PLANT 01-18-017-18W4 | BIMAC | 4809 | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66076375 | 421914 |
| DEHYDRATOR, GLYCOL | | PRESSVES | DEHYDRATOR | ARMADA GAS PLANT 01-18-017-18W4 | HYCON | 81-7 | SS01 | 21546 | 66075487 | ISF | 1.5 | B | 66083769 | 183198 |
| DRUM, ODORANT(OFFICE FUEL GAS) | | PRESSVES | DRUM | ARMADA GAS PLANT 01-18-017-18W4 | PEERLESS MFG | 6408-A | SS01 | 21546 | 66083954 | ISF | 1.5 | B | 66083953 | 0 |
| DRUM, PROPANE SURGE | | PRESSVES | DRUM | ARMADA GAS PLANT 01-18-017-18W4 | ALCO | 84C320310 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66076398 | 197574 |
| DUPLICATE OF 66076381 | | PRESSVES | HEAT_EX_SHELL_TUBE | ARMADA GAS PLANT 01-18-017-18W4 | ALCO | 85C333301 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66076380 | 0 |

01-18-017-18W4 Facility equipment

| Description | Tag No | EqType | Class | Location | Manufacturer | Serial | Plant | CC | Superior | Eq Status | Mkt value | Cond | Equip | ABRegNo |
|--|--------|-----------|--------------------|---------------------------------|---------------------------|------------|-------|-------|----------|-----------|-----------|------|----------|---------|
| ENGINE, GAS AJAX DPC230 | | ROT | PM_RECIPROCATING | ARMADA GAS PLANT 01-18-017-18W4 | AJAX | 75775 | SS01 | 21546 | 66075483 | IDLE | 1.5 | B | 66076295 | 0 |
| ENGINE, GAS CAT 3306NA | | ROT | PM_RECIPROCATING | ARMADA GAS PLANT 01-18-017-18W4 | CATERPILLAR | 07Y03328 | SS01 | 21546 | 66075488 | ISF | 20250 | B | 66079575 | 0 |
| ENGINE, GAS CAT 3512 LE | | ROT | PM_RECIPROCATING | ARMADA GAS PLANT 01-18-017-18W4 | CATERPILLAR | 7NJ00667 | SS01 | 21546 | 66082565 | ISF | 1.5 | B | 66082567 | 0 |
| ENGINE, GAS WAUKESHA 7042GU | | ROT | PM_RECIPROCATING | ARMADA GAS PLANT 01-18-017-18W4 | WAUKESHA | 360927 | SS01 | 21546 | 66075485 | ISF | 1.5 | B | 66076336 | 0 |
| ENGINE, GAS WAUKESHA 7042GU | | ROT | PM_RECIPROCATING | ARMADA GAS PLANT 01-18-017-18W4 | WAUKESHA | 362316 | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66076314 | 0 |
| ENGINE, GAS WHITE SUPERIOR 8GTL | | ROT | PM_RECIPROCATING | ARMADA GAS PLANT 01-18-017-18W4 | WHITE SUPERIOR | 825 | SS01 | 21546 | 66075486 | FIDL | 1.5 | B | 66076360 | 0 |
| ESD VALVE, AJAX INLET GAS LINE | | VALPIPFIT | ESD_VALVE | ARMADA GAS PLANT 01-18-017-18W4 | AUTOMAX | | SS01 | 21546 | | ISF | 1.5 | B | 66079569 | 0 |
| ESD VALVE, C101 & C201 COMPRESSOR INLET | | VALPIPFIT | ESD_VALVE | ARMADA GAS PLANT 01-18-017-18W4 | FISHER | CN459816 | SS01 | 21546 | | ISF | 1.5 | B | 66079571 | 0 |
| ESD VALVE, C301 COMPRESSOR INLET GAS LIN | | VALPIPFIT | ESD_VALVE | ARMADA GAS PLANT 01-18-017-18W4 | FISHER | CN280819 | SS01 | 21546 | | ISF | 1.5 | B | 66079570 | 0 |
| ESD VALVE, DISCHARGE | | VALPIPFIT | ESD_VALVE | ARMADA GAS PLANT 01-18-017-18W4 | AUTOMAX | | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66076357 | 0 |
| ESD VALVE, SALES GAS | | VALPIPFIT | ESD_VALVE | ARMADA GAS PLANT 01-18-017-18W4 | FISHER | CN442637 | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66076311 | 0 |
| ESD VALVE, SALES GAS | | VALPIPFIT | ESD_VALVE | ARMADA GAS PLANT 01-18-017-18W4 | FISHER | CN503371 | SS01 | 21546 | 66075485 | ISF | 1.5 | B | 66076334 | 0 |
| ESD VALVE, SALES LINE | | VALPIPFIT | ESD_VALVE | ARMADA GAS PLANT 01-18-017-18W4 | FISHER | 7071670 | SS01 | 21546 | 66075483 | IDLE | 1.5 | B | 66076291 | 0 |
| FILTER, 1ST STAGE INLET | | PRESSVES | FILTER | ARMADA GAS PLANT 01-18-017-18W4 | PETRO EQUIPMENT SALES | 97-3189F-1 | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66076368 | 432766 |
| FILTER, FUEL GAS | | PRESSVES | FILTER | ARMADA GAS PLANT 01-18-017-18W4 | PERRY EQUIPMENT CORP | 81-211-17 | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66076322 | 15137 |
| FILTER, FUEL GAS | | PRESSVES | FILTER | ARMADA GAS PLANT 01-18-017-18W4 | PECO | E-61-E | SS01 | 21546 | 66075483 | ISF | 1.5 | B | 66083758 | 0 |
| FILTER, FUEL GAS | | PRESSVES | FILTER | ARMADA GAS PLANT 01-18-017-18W4 | PECO | 85-0687.2 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66076383 | 225255 |
| FILTER, GLYCOL | | PRESSVES | FILTER | ARMADA GAS PLANT 01-18-017-18W4 | PETRO EQUIPMENT CORP | 95-2653F-5 | SS01 | 21546 | | ISF | 1.5 | B | 66076427 | 0 |
| FILTER, GLYCOL # 1 | | PRESSVES | FILTER | ARMADA GAS PLANT 01-18-017-18W4 | PETRO EQUIPMENT SALES | 97.3117F.4 | SS01 | 21546 | 66075487 | IDLE | 1.5 | B | 66083772 | 0 |
| FILTER, GLYCOL # 2 | | PRESSVES | FILTER | ARMADA GAS PLANT 01-18-017-18W4 | ROSEDALE PRODUCTS LTD | | SS01 | 21546 | 66075487 | IDLE | 1.5 | B | 66083773 | 0 |
| FIRE DETECTION | | FIRE/SAFE | FIRE_DET | ARMADA GAS PLANT 01-18-017-18W4 | GENERAL MONITORS | | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66083816 | 0 |
| FIRE DETECTION | | FIRE/SAFE | FIRE_DET | ARMADA GAS PLANT 01-18-017-18W4 | NET SAFETY MONITORING INC | | SS01 | 21546 | 66082565 | ISF | 1.5 | B | 66082593 | 0 |
| FIRE DETECTION, #1 | | FIRE/SAFE | FIRE_DET | ARMADA GAS PLANT 01-18-017-18W4 | DETRONICS | | SS01 | 21546 | 66075483 | ISF | 1.5 | B | 66079551 | 0 |
| FIRE DETECTION, #1 | | FIRE/SAFE | FIRE_DET | ARMADA GAS PLANT 01-18-017-18W4 | NET SAFETY | | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66079553 | 0 |
| FIRE DETECTION, #1 | | FIRE/SAFE | FIRE_DET | ARMADA GAS PLANT 01-18-017-18W4 | NET SAFETY | | SS01 | 21546 | 66075485 | ISF | 1.5 | B | 66079555 | 0 |
| FIRE DETECTION, #1 | | FIRE/SAFE | FIRE_DET | ARMADA GAS PLANT 01-18-017-18W4 | NET SAFETY | | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66079564 | 0 |
| GAS DETECTION | | FIRE/SAFE | GAS_DET | ARMADA GAS PLANT 01-18-017-18W4 | NET SAFETY MONITORING INC | | SS01 | 21546 | 66082565 | ISF | 1.5 | B | 66082594 | 0 |
| GAS DETECTION | | FIRE/SAFE | GAS_DET | ARMADA GAS PLANT 01-18-017-18W4 | GENERAL MONITORS | 30259-2 | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66083813 | 0 |
| GAS DETECTION, #1 | | FIRE/SAFE | GAS_DET | ARMADA GAS PLANT 01-18-017-18W4 | NET SAFETY | | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66079552 | 0 |
| GAS DETECTION, #1 | | FIRE/SAFE | GAS_DET | ARMADA GAS PLANT 01-18-017-18W4 | GENERAL MONITORS | | SS01 | 21546 | 66075483 | ISF | 1.5 | B | 66079550 | 0 |
| GAS DETECTION, #1 | | FIRE/SAFE | GAS_DET | ARMADA GAS PLANT 01-18-017-18W4 | NET SAFETY | | SS01 | 21546 | 66075485 | ISF | 1.5 | B | 66079554 | 0 |
| GAS DETECTION, #1 | | FIRE/SAFE | GAS_DET | ARMADA GAS PLANT 01-18-017-18W4 | NET SAFETY | | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66079563 | 0 |
| GAS DETECTION, H2S #1 | | FIRE/SAFE | GAS_DET | ARMADA GAS PLANT 01-18-017-18W4 | | | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66079580 | 0 |
| GAS DETECTION, H2S ANALIZER | | FIRE/SAFE | GAS_DET | ARMADA GAS PLANT 01-18-017-18W4 | GAS | 214902259 | SS01 | 21546 | 66075485 | ISF | 0.74 | B | 66121893 | 0 |
| GAS DETECTION, H2S HEADER 1-1 | | FIRE/SAFE | GAS_DET | ARMADA GAS PLANT 01-18-017-18W4 | | | SS01 | 21546 | | ISF | 1.5 | B | 66079581 | 0 |
| HEATER - DIRECT FIRED, (NON CODE) | | FIRED | HEATER_DIR_FIRED | ARMADA GAS PLANT 01-18-017-18W4 | HERMAN NELSON | 45-7814 | SS01 | 21546 | | ISF | 1.5 | B | 66079579 | 0 |
| HEATER - DIRECT FIRED, GAS BUR(NON CODE) | | FIRED | HEATER_DIR_FIRED | ARMADA GAS PLANT 01-18-017-18W4 | | | SS01 | 21546 | 66075487 | ISF | 1.5 | B | 66079000 | 0 |
| HOIST, 3 TON OVERHEAD # 1 | | BLDG | LIFT | ARMADA GAS PLANT 01-18-017-18W4 | GARDON | | SS01 | 21546 | 66075485 | ISF | 1.13 | B | 66102042 | 0 |
| HOIST, 3 TON OVERHEAD # 1 | | BLDG | LIFT | ARMADA GAS PLANT 01-18-017-18W4 | KAVERIT | | SS01 | 21546 | 66075486 | ISF | 1.13 | B | 66102032 | 0 |
| HOIST, 3 TON OVERHEAD # 1 | | BLDG | LIFT | ARMADA GAS PLANT 01-18-017-18W4 | CUSTOM | | SS01 | 21546 | 66075484 | ISF | 1.13 | B | 66102039 | 0 |
| HOIST, 3 TON OVERHEAD # 2 | | BLDG | LIFT | ARMADA GAS PLANT 01-18-017-18W4 | JET | K 2071 | SS01 | 21546 | 66075485 | ISF | 1.13 | B | 66102044 | 0 |
| HOIST, 3 TON OVERHEAD # 2 | | BLDG | LIFT | ARMADA GAS PLANT 01-18-017-18W4 | KITO | | SS01 | 21546 | 66075484 | ISF | 1.13 | B | 66102040 | 0 |
| HOIST, 3 TON OVERHEAD # 2 | | BLDG | LIFT | ARMADA GAS PLANT 01-18-017-18W4 | KITO | 295026 | SS01 | 21546 | 66075486 | ISF | 1.13 | B | 66102033 | 0 |
| HOIST, OVERHEAD BRIDGE | | BLDG | LIFT | ARMADA GAS PLANT 01-18-017-18W4 | KAVERIT | 3843 | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66076359 | 0 |
| HOIST, OVERHEAD BRIDGE | | BLDG | LIFT | ARMADA GAS PLANT 01-18-017-18W4 | | | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66076313 | 0 |
| HT EXCH - AIR COOLED, 1ST STAGE DISCH | | PRESSVES | HEAT_EX_AIR_COOLED | ARMADA GAS PLANT 01-18-017-18W4 | AIR-X-CHANGERS | 828463.2 | SS01 | 21546 | 66075485 | ISF | 1.5 | B | 66076332 | 0 |
| HT EXCH - AIR COOLED, 1ST STAGE DISCH | | PRESSVES | HEAT_EX_AIR_COOLED | ARMADA GAS PLANT 01-18-017-18W4 | AIR-X-CHANGERS | 798517.3 | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66076309 | 0 |

| Description | Tag No | EqType | Class | Location | Manufacturer | Serial | Plant | CC | Superior | Eq Status | Mkt value | Cond | Equip | ABRegNo |
|--|--------|-----------|--------------------|---------------------------------|-----------------------------|--------------------|-------|-------|----------|-----------|-----------|------|----------|---------|
| HT EXCH - AIR COOLED, 1ST STAGE DISCH | | PRESSVES | HEAT_EX_AIR_COOLED | ARMADA GAS PLANT 01-18-017-18W4 | AIR-X-CHANGERS | A964481.A1 | SS01 | 21546 | 66082565 | ISF | 1.5 | B | 66082582 | 0 |
| HT EXCH - AIR COOLED, 2ND STAGE DISCH | | PRESSVES | HEAT_EX_AIR_COOLED | ARMADA GAS PLANT 01-18-017-18W4 | AIR-X-CHANGERS | 828463.3 | SS01 | 21546 | 66075485 | ISF | 1.5 | B | 66076333 | 0 |
| HT EXCH - AIR COOLED, 2ND STAGE DISCH | | PRESSVES | HEAT_EX_AIR_COOLED | ARMADA GAS PLANT 01-18-017-18W4 | AIR-X-CHANGERS | 798517.2 | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66076310 | 0 |
| HT EXCH - AIR COOLED, 2ND STAGE DISCH | | PRESSVES | HEAT_EX_AIR_COOLED | ARMADA GAS PLANT 01-18-017-18W4 | AIR-X-CHANGERS | A964481.A2 | SS01 | 21546 | 66082565 | ISF | 1.5 | B | 66082590 | 0 |
| HT EXCH - AIR COOLED, 2ND STAGE DISCH | | PRESSVES | HEAT_EX_AIR_COOLED | ARMADA GAS PLANT 01-18-017-18W4 | AIR-X-CHANGERS | 808006.3B | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66076356 | 0 |
| HT EXCH - AIR COOLED, 3RD STAGE DISCH | | PRESSVES | HEAT_EX_AIR_COOLED | ARMADA GAS PLANT 01-18-017-18W4 | AIR-X-CHANGERS | 808006.4B | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66076355 | 0 |
| HT EXCH - AIR COOLED, EJW (NON CODE) | | PRESSVES | HEAT_EX_AIR_COOLED | ARMADA GAS PLANT 01-18-017-18W4 | AIR-X-CHANGERS | 828463 | SS01 | 21546 | 66075485 | ISF | 1.5 | B | 66076331 | 0 |
| HT EXCH - AIR COOLED, EJW (NON CODE) | | PRESSVES | HEAT_EX_AIR_COOLED | ARMADA GAS PLANT 01-18-017-18W4 | AIR-X-CHANGERS | 798517 | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66076308 | 0 |
| HT EXCH - AIR COOLED, EJW (NON CODE) | | PRESSVES | HEAT_EX_AIR_COOLED | ARMADA GAS PLANT 01-18-017-18W4 | AIR-X-CHANGERS | 984465.1.2 | SS01 | 21546 | 66082565 | ISF | 1.5 | B | 66082591 | 0 |
| HT EXCH - AIR COOLED, EJW (NON CODE) | | PRESSVES | HEAT_EX_AIR_COOLED | ARMADA GAS PLANT 01-18-017-18W4 | AIR-X-CHANGERS | 808006.B | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66076353 | 0 |
| HT EXCH - AIR COOLED, EJW(NON CODE | | PRESSVES | HEAT_EX_AIR_COOLED | ARMADA GAS PLANT 01-18-017-18W4 | AIR COOLED EXCHANGERS | 78714-1 | SS01 | 21546 | 66075483 | IDLE | 1.5 | B | 66076290 | 0 |
| HT EXCH - AIR COOLED, ENG AUX (NON CODE) | | PRESSVES | HEAT_EX_AIR_COOLED | ARMADA GAS PLANT 01-18-017-18W4 | AIR-X-CHANGERS | 808006.2B | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66076354 | 0 |
| HT EXCH - AIR COOLED, GAS | | PRESSVES | HEAT_EX_AIR_COOLED | ARMADA GAS PLANT 01-18-017-18W4 | ACE | | SS01 | 21546 | 66075483 | IDLE | 1.5 | B | 66083759 | 0 |
| HT EXCH - AIR COOLED, PROPANE CONDENSER | | PRESSVES | HEAT_EX_AIR_COOLED | ARMADA GAS PLANT 01-18-017-18W4 | THERMO-TECH | 952640 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66076382 | 3102297 |
| HT EXCH - AIR COOLED, SALES GAS | | PRESSVES | HEAT_EX_AIR_COOLED | ARMADA GAS PLANT 01-18-017-18W4 | PROCESS ENERGY TECHNOLOGIES | 9730291 C1 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66079565 | 421859 |
| HT EXCH - S&T, 1ST STAGE | | PRESSVES | HEAT_EX_SHELL_TUBE | ARMADA GAS PLANT 01-18-017-18W4 | PROCESS ENERGY TECHNOLOGIES | 973029 C2 | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66080183 | 421860 |
| HT EXCH - S&T, CHILLER | | PRESSVES | HEAT_EX_SHELL_TUBE | ARMADA GAS PLANT 01-18-017-18W4 | ALCO | 85C-3333-01 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66076381 | 199810 |
| HT EXCH - S&T, GAS / GAS | | PRESSVES | HEAT_EX_SHELL_TUBE | ARMADA GAS PLANT 01-18-017-18W4 | ALCO | 84C320302B | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66076379 | 190928 |
| HT EXCH - S&T, HEAT TUBE SIDE | | PRESSVES | HEAT_EX_SHELL_TUBE | ARMADA GAS PLANT 01-18-017-18W4 | ALCO | 84C320302A | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66076378 | 190932 |
| MCC, PANEL | | EL | MCC | ARMADA GAS PLANT 01-18-017-18W4 | ALLAN BRADLEY | 2100PE-D5012984/03 | SS01 | 21546 | 66083954 | ISF | 1.5 | B | 66079562 | 0 |
| METER RUN | | VALPIPFIT | METER_RUN | ARMADA GAS PLANT 01-18-017-18W4 | DANIEL | DC.M.82.449 | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66076312 | 0 |
| METER RUN, CONDENSATE SEPARATOR | | VALPIPFIT | METER_RUN | ARMADA GAS PLANT 01-18-017-18W4 | BARBER | 3880 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66083935 | 0 |
| METER RUN, FUEL GAS | | VALPIPFIT | METER_RUN | ARMADA GAS PLANT 01-18-017-18W4 | CAMCO LTD CANADA | EZ00101 | SS01 | 21546 | 66075483 | IDLE | 1.5 | B | 66076292 | 0 |
| METER RUN, INLET GAS | | VALPIPFIT | METER_RUN | ARMADA GAS PLANT 01-18-017-18W4 | BARBER | 136244 | SS01 | 21546 | 66075485 | ISF | 1.5 | B | 66076335 | 0 |
| METER RUN, SALES | | VALPIPFIT | METER_RUN | ARMADA GAS PLANT 01-18-017-18W4 | BARBER | 8230136 | SS01 | 21546 | 66083949 | ISF | 1.5 | B | 66083951 | 0 |
| METER, DRY FLOW - 101 | | INST | METER | ARMADA GAS PLANT 01-18-017-18W4 | BARTON | 202E-C891356 | SS01 | 21546 | 66075484 | ISF | 0.74 | B | 66137538 | 0 |
| METER, DRY FLOW, 201 | | INST | METER | ARMADA GAS PLANT 01-18-017-18W4 | BARTON | 202E-C891357 | SS01 | 21546 | 66075485 | ISF | 0.74 | B | 66135487 | 0 |
| METER, DRY FLOW, 301 | | INST | METER | ARMADA GAS PLANT 01-18-017-18W4 | BARTON | 202AC-20630 | SS01 | 21546 | 66075486 | ISF | 0.74 | B | 66135490 | 0 |
| METER, DRY FLOW, FUEL GAS | | INST | METER | ARMADA GAS PLANT 01-18-017-18W4 | BARTON | 202A-C36426 | SS01 | 21546 | 66075483 | ISF | 0.74 | B | 66135484 | 0 |
| METER, DRY FLOW, SALES | | INST | METER | ARMADA GAS PLANT 01-18-017-18W4 | BARTON | C-891354 | SS01 | 21546 | 66083949 | ISF | 0.74 | B | 66135489 | 0 |
| METER, INLET GAS | | INST | METER | ARMADA GAS PLANT 01-18-017-18W4 | BARTON | 202AC20931 | SS01 | 21546 | 66075483 | IDLE | 1.5 | B | 66076293 | 0 |
| MOTOR, ELECTRIC | | ROT | PM_ELECTRIC_MOTOR | ARMADA GAS PLANT 01-18-017-18W4 | Teco Westinghouse | FUP6097019033 | SS01 | 21546 | 66075486 | ISF | 850 | A | 66155904 | 0 |
| MOTOR, ELECTRIC, # 1 GLYCOL PUMP | | ROT | PM_ELECTRIC_MOTOR | ARMADA GAS PLANT 01-18-017-18W4 | DOERR | 601166C K823 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66076384 | 0 |
| MOTOR, ELECTRIC, # 2 GLYCOL PUMP SOUTH | | ROT | PM_ELECTRIC_MOTOR | ARMADA GAS PLANT 01-18-017-18W4 | DOERR | T499378 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66083840 | 0 |
| MOTOR, PROPANE CONDESOR NORTH FAN | | ROT | PM_ELECTRIC_MOTOR | ARMADA GAS PLANT 01-18-017-18W4 | WESTINGHOUSE | LR406B438039 | SS01 | 21546 | 66075488 | ISF | 337.5 | B | 66079566 | 0 |
| MOTOR, PROPANE CONDESOR SOUTH FAN | | ROT | PM_ELECTRIC_MOTOR | ARMADA GAS PLANT 01-18-017-18W4 | WESTINGHOUSE | LB4191010092 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66079567 | 0 |

01-18-017-18W4 Facility equipment

| Description | Tag No | EqType | Class | Location | Manufacturer | Serial | Plant | CC | Superior | Eq Status | Mkt value | Cond | Equip | ABRegNo |
|----------------------------------|--------|-----------|-------------------|---------------------------------|-------------------|-----------------|------------|-------|----------|-----------|-----------|------|----------|---------|
| MOTOR, SALES GAS, 1ST STAGE C301 | | ROT | PM_ELECTRIC_MOTOR | ARMADA GAS PLANT 01-18-017-18W4 | TECO WESTINGHOUSE | EQH155417003 | SS01 | 21546 | 66075486 | ISF | 850 | A | 66097827 | 0 |
| PACKAGE, BULLET - LPG | | PACKAGE | PACKAGE | ARMADA GAS PLANT 01-18-017-18W4 | WESTERN ROCK BIT | | SS01 | 21546 | | ISF | 1.13 | B | 66124832 | 0 |
| PACKAGE, COMPRESSOR 401 | | PACKAGE | PACKAGE | ARMADA GAS PLANT 01-18-017-18W4 | ENERFLEX | | SS01 | 21546 | | ISF | 1.5 | B | 66082565 | 0 |
| PACKAGE, COMPRESSOR AJAX | | PACKAGE | PACKAGE | ARMADA GAS PLANT 01-18-017-18W4 | ARMOR | | SS01 | 21546 | | FIDL | 17500 | C | 66075483 | 0 |
| PACKAGE, COMPRESSOR C101 | | PACKAGE | PACKAGE | ARMADA GAS PLANT 01-18-017-18W4 | N/A | CC072 | SS01 | 21546 | | ISF | 1.5 | B | 66075484 | 0 |
| PACKAGE, COMPRESSOR C201 | | PACKAGE | PACKAGE | ARMADA GAS PLANT 01-18-017-18W4 | CHERCO | CC073A | SS01 | 21546 | | ISF | 1.5 | B | 66075485 | 0 |
| PACKAGE, COMPRESSOR C301 | | PACKAGE | PACKAGE | ARMADA GAS PLANT 01-18-017-18W4 | CHERCO | | SS01 | 21546 | | ISF | 1.5 | B | 66075486 | 0 |
| PACKAGE, CYCLONE SEPARATOR | | PACKAGE | PACKAGE | ARMADA GAS PLANT 01-18-017-18W4 | NATCO | 42622-61 | SS01 | 21546 | | ISF | 1.5 | B | 66083941 | 465668 |
| PACKAGE, DEHYDRATION 301 | | PACKAGE | PACKAGE | ARMADA GAS PLANT 01-18-017-18W4 | | | SS01 | 21546 | | ISF | 1.5 | B | 66075487 | 0 |
| PACKAGE, OFFICE / SHOP | | PACKAGE | PACKAGE | ARMADA GAS PLANT 01-18-017-18W4 | WASEA | | SS01 | 21546 | | ISF | 1.5 | B | 66083954 | 0 |
| PACKAGE, REFRIGERATION #1 | | PACKAGE | PACKAGE | ARMADA GAS PLANT 01-18-017-18W4 | ALCO | | SS01 | 21546 | | ISF | 1.5 | B | 66075488 | 0 |
| PACKAGE, REFRIGERATION #2 | | PACKAGE | PACKAGE | ARMADA GAS PLANT 01-18-017-18W4 | | | SS01 | 21546 | | ISF | 1.5 | B | 66075489 | 0 |
| PACKAGE, SALES METER | | PACKAGE | PACKAGE | ARMADA GAS PLANT 01-18-017-18W4 | BARBER | | SS01 | 21546 | | ISF | 1.5 | B | 66083949 | 0 |
| PSV, FUEL GAS SCRUBBER # 1 SOUTH | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | FARRIS | CE-317427-31-KB | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66083770 | 0 |
| PSV, FUEL GAS SCRUBBER # 2 | 3152 | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | FARRIS | CE-318813-3-KD | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66083771 | 0 |
| PSV, PROPANE INLET | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | CONSOLIDATED | 90C3502 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66083820 | 0 |
| PSV, # 1 FUEL GAS SCRUBBER | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | MERCER | 9117D511807E | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66082600 | 0 |
| PSV, # 1 GLYCOL PUMP NORTH | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | CONSOLIDATED | 84C291299 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66083835 | 0 |
| PSV, # 1 GLYCOL PUMP SOUTH | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | CONSOLIDATED | 84C1082 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66085970 | 0 |
| PSV, # 2 FUEL GAS SCRUBBER | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | WELLMARK | | 11308SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66083937 | 0 |
| PSV, # 2 GLYCOL PUMP CENTER | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | CONSOLIDATED | 81C0025 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66083836 | 0 |
| PSV, 1ST STAGE DISCHARGE | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | CONSOLIDATED | 79C5370 | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66076364 | 0 |
| PSV, 1ST STAGE INLET FILTER | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | FARRIS | CE-43585-1-A10 | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66076362 | 0 |
| PSV, 1ST STAGE DISCHARGE | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | FARRIS | CE-022739-10 | SS01 | 21546 | 66075485 | ISF | 1.5 | B | 66076339 | 0 |
| PSV, 1ST STAGE DISCHARGE | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | MERCER | | 100288SS01 | 21546 | 66082565 | ISF | 1.5 | B | 66082581 | 0 |
| PSV, 1ST STAGE DISCHARGE | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | FARRIS | SE 23420-1 | SS01 | 21546 | 66075483 | IDLE | 1.5 | B | 66076298 | 0 |
| PSV, 1ST STAGE DISCHARGE | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | CONSOLIDATED | 90C3504 | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66076318 | 0 |
| PSV, 1ST STAGE SUCTION SCRUBBER | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | FARRIS | SE 23420-2 | SS01 | 21546 | 66075483 | IDLE | 1.5 | B | 66076299 | 0 |
| PSV, 2ND STAGE DISCHARGE | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | FARRIS | CE-22892-A10 | SS01 | 21546 | 66075485 | ISF | 1.5 | B | 66076342 | 0 |
| PSV, 2ND STAGE DISCHARGE | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | CONSOLIDATED | 81C4032 | SS01 | 21546 | 66075484 | ISF | 1.5 | A | 66098897 | 0 |
| PSV, 2ND STAGE DISCHARGE | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | CONSOLIDATED | 811499X-2-1 | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66076365 | 0 |
| PSV, 2ND STAGE SUCTION | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | CONSOLIDATED | 81C4905 | SS01 | 21546 | 66075485 | ISF | 1.5 | B | 66076341 | 0 |
| PSV, 2ND STAGE DISCHARGE | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | MERCER | | 10349SS01 | 21546 | 66082565 | ISF | 1.5 | B | 66082586 | 0 |
| PSV, 2ND STAGE SUCTION SCRUBBER | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | CONSOLIDATED | 90C3503 | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66076319 | 0 |
| PSV, 301 RUN GAS | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | MERCER | | 290315SS01 | 21546 | 66075486 | ISF | 262.5 | B | 66124842 | 0 |
| PSV, 3RD STAGE DISCHARGE | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | CONSOLIDATED | 80C2245 | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66076366 | 0 |
| PSV, BULLET - COMBO JOE | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | FISHER | 250-27018 | SS01 | 21546 | 66124832 | ISF | 337.5 | B | 66124836 | 0 |
| PSV, BULLET - COMBO JOE | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | FISHER | 250-27018 | SS01 | 21546 | 66124832 | ISF | 337.5 | B | 66083940 | 0 |
| PSV, BULLET - COMBO JOE | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | FISHER | 250-27018 | SS01 | 21546 | 66124832 | ISF | 337.5 | B | 66124835 | 0 |
| PSV, BULLET - COMBO JOE | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | FISHER | 250-27018 | SS01 | 21546 | 66124832 | ISF | 337.5 | B | 66124862 | 0 |
| PSV, BULLET - COMBO JOE | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | FISHER | 250-27018 | SS01 | 21546 | 66124832 | ISF | 337.5 | B | 66124833 | 0 |
| PSV, C-1 INLET SEPARATOR | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | TAYLOR | | SS01 | 21546 | 66075483 | IDLE | 1.5 | B | 66076300 | 0 |
| PSV, CONDENSATE STABILIZER | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | CONSOLIDATED | 84C1347 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66076387 | 0 |
| PSV, FUEL GAS | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | MERCER | A79783 | SS01 | 21546 | 66082565 | ISF | 1.5 | B | 66082592 | 0 |
| PSV, FUEL GAS FILTER | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | CONSOLIDATED | 78C7345 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66076386 | 0 |
| PSV, FUEL GAS SCRUBBER | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | TAYLOR | 82A935131 | SS01 | 21546 | 66075483 | IDLE | 1.5 | B | 66076296 | 0 |
| PSV, FUEL GAS SYSTEM | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | CONSOLIDATED | 78C7345 | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66076315 | 0 |
| PSV, GLYCOL FILTER | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | MERCER | | 290312SS01 | 21546 | 66075487 | ISF | 262.5 | B | 66124844 | 0 |
| PSV, GLYCOL SEPARATOR | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | CONSOLIDATED | 89C4216 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66076392 | 0 |
| PSV, INLET SEPARATOR | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | CONSOLIDATED | 82C212 | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66076316 | 0 |
| PSV, INLET SEPARATOR | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | CONSOLIDATED | 1383613 UVL | SS01 | 21546 | 66075485 | ISF | 1.5 | B | 66076340 | 0 |
| PSV, LOW TEMP SEPARATOR | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | CONSOLIDATED | 84C1468 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66076388 | 0 |

| Description | Tag No | EqType | Class | Location | Manufacturer | Serial | Plant | CC | Superior | Eq Status | Mkt value | Cond | Equip | ABRegNo |
|--------------------------------------|--------|-----------|------------------|---------------------------------|--------------------------------|-----------------|-------|-------|----------|-----------|-----------|------|----------|---------|
| PSV, LOW TEMP SEPERATOR | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | MERCER | A63570 | SS01 | 21546 | 66075489 | ISF | 450 | B | 66078747 | 0 |
| PSV, PROPANE CONDENSOR | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | HANSEN | 68 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66076391 | 0 |
| PSV, PROPANE SUCTION SCRUBBER | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | MERCER | 231860 | SS01 | 21546 | 66075488 | ISF | 2 | A | 66106414 | 0 |
| PSV, PROPANE SUCTION SCRUBBER | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | MERCER | 231860 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66076389 | 0 |
| PSV, PROPANE SURGE TANK | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | CONSOLIDATED | 84C0850 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66076390 | 0 |
| PSV, SEPARATOR | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | MERCER | 38876 | SS01 | 21546 | 66083941 | ISF | 1.5 | B | 66083945 | 0 |
| PSV, SEPARATOR FUEL | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | MERCER | 37751 | SS01 | 21546 | 66083941 | ISF | 1.5 | B | 66083946 | 0 |
| PSV, START GAS | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | MERCER | 54699 | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66083753 | 0 |
| PSV, START GAS | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | MERCER | 54699 | SS01 | 21546 | 66075485 | ISF | 1.5 | B | 66076337 | 0 |
| PSV, START GAS | | VALPIPFIT | PSV | ARMADA GAS PLANT 01-18-017-18W4 | FARRIS | CE-318314-39-KD | SS01 | 21546 | 66075486 | ISF | 262.5 | B | 66076361 | 0 |
| PUMP - CONTROLLED VOLUME, # 2 GLYCOL | | ROT | PUMP_CONTROL_VOL | ARMADA GAS PLANT 01-18-017-18W4 | MILTON ROY | 2378838-3 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66083841 | 0 |
| PUMP - CONTROLLED VOLUME, # 1 GLYCOL | | ROT | PUMP_CONTROL_VOL | ARMADA GAS PLANT 01-18-017-18W4 | MILTON ROY | 889371-2 | SS01 | 21546 | 66075488 | ISF | 5714 | A | 66088088 | 0 |
| PUMP - RECIPI, GLYCOL # 1 | | ROT | PUMP_RECIPI | ARMADA GAS PLANT 01-18-017-18W4 | KIMRAY | 1970590143 | SS01 | 21546 | 66075487 | IDLE | 1.5 | B | 66083781 | 0 |
| PUMP - RECIPI, GLYCOL # 2 | | ROT | PUMP_RECIPI | ARMADA GAS PLANT 01-18-017-18W4 | KIMRAY | 1970700192 | SS01 | 21546 | 66075487 | ISF | 1.5 | B | 66083811 | 0 |
| RADIO SYSTEM, RADIO REPEATER | | COMM | RADIO_SYSTEM | ARMADA GAS PLANT 01-18-017-18W4 | | | SS01 | 21546 | | ISF | 1.5 | B | 66079577 | 0 |
| RADIO, CALL OUT UNIT | | COMM | RTU | ARMADA GAS PLANT 01-18-017-18W4 | PROTALK | 70784K | SS01 | 21546 | 66083954 | ISF | 0.74 | B | 66140238 | 0 |
| REGULATOR, TO FLARE | | INST | REGULATOR | ARMADA GAS PLANT 01-18-017-18W4 | FISHER | | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66083704 | 0 |
| SCRUBBER, # 1 FUEL GAS | | PRESSVES | SCRUBBER | ARMADA GAS PLANT 01-18-017-18W4 | OPSCO | FV-6-7-1006-2 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66076394 | 0 |
| SCRUBBER, 1ST STAGE SUCTION | | PRESSVES | SCRUBBER | ARMADA GAS PLANT 01-18-017-18W4 | I.P. CONSTRUCTORS | 82-384 | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66076324 | 195423 |
| SCRUBBER, 1ST STAGE SUCTION | | PRESSVES | SCRUBBER | ARMADA GAS PLANT 01-18-017-18W4 | CARSON MACHINE | 14V13572 | SS01 | 21546 | 66075483 | IDLE | 1.5 | B | 66076303 | 166024 |
| SCRUBBER, 1ST STAGE SUCTION | | PRESSVES | SCRUBBER | ARMADA GAS PLANT 01-18-017-18W4 | DACRO IND. | 83-062-1 | SS01 | 21546 | 66075485 | ISF | 1.5 | B | 66076345 | 201458 |
| SCRUBBER, 1ST STAGE SUCTION | | PRESSVES | SCRUBBER | ARMADA GAS PLANT 01-18-017-18W4 | ENERFLEX | 29698-01 | SS01 | 21546 | 66082565 | ISF | 1.5 | B | 66082571 | 455710 |
| SCRUBBER, 2ND STAGE SUCTION | | PRESSVES | SCRUBBER | ARMADA GAS PLANT 01-18-017-18W4 | I.P. CONSTRUCTORS | 82-383 | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66076327 | 195422 |
| SCRUBBER, 2ND STAGE SUCTION | | PRESSVES | SCRUBBER | ARMADA GAS PLANT 01-18-017-18W4 | DACRO IND. | 83-062-2 | SS01 | 21546 | 66075485 | ISF | 1.5 | B | 66076348 | 201459 |
| SCRUBBER, 3RD STAGE SUCTION | | PRESSVES | SCRUBBER | ARMADA GAS PLANT 01-18-017-18W4 | PEN FABCO | PE4865 | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66076374 | 416399 |
| SCRUBBER, FUEL GAS | | PRESSVES | SCRUBBER | ARMADA GAS PLANT 01-18-017-18W4 | PETRO EQUIP. | 6599-2 | SS01 | 21546 | 66075485 | ISF | 1.5 | B | 66076343 | 0 |
| SCRUBBER, FUEL GAS | | PRESSVES | SCRUBBER | ARMADA GAS PLANT 01-18-017-18W4 | CARSON MACHINE | 24VH13624 | SS01 | 21546 | 66075483 | IDLE | 1.5 | B | 66076305 | 166023 |
| SCRUBBER, FUEL GAS | | PRESSVES | SCRUBBER | ARMADA GAS PLANT 01-18-017-18W4 | PRIORITY PROJECTS | 4867600 | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66076367 | 408942 |
| SCRUBBER, K301 2ND STAGE SUCTION | | PRESSVES | SCRUBBER | ARMADA GAS PLANT 01-18-017-18W4 | BARBER INDUSTRIES | 08/03/3615 | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66083768 | 174987 |
| SCRUBBER, K401 2ND STAGE CYCLONE | | PRESSVES | SCRUBBER | ARMADA GAS PLANT 01-18-017-18W4 | International Vessel Fab. Inc. | 98-802 | SS01 | 21546 | 66082565 | ISF | 1.5 | B | 66082583 | 440491 |
| SCRUBBER, PROPANE SUCTION | | PRESSVES | SCRUBBER | ARMADA GAS PLANT 01-18-017-18W4 | ALCO | 84C320309 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66076397 | 197573 |
| SCRUBBER, Process Fuel Gas | | PRESSVES | SCRUBBER | ARMADA GAS PLANT 01-18-017-18W4 | ALCO | 84C 3202 01A | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66083939 | 0 |
| SCRUBBER, Separator Shack Fuel Gas | | PRESSVES | SCRUBBER | ARMADA GAS PLANT 01-18-017-18W4 | Nusco Pipe Supply | 89N00543 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66083936 | 0 |
| SEPARATOR, 1ST STAGE SUCTION | | PRESSVES | SEPARATOR | ARMADA GAS PLANT 01-18-017-18W4 | ENERFLEX | 030225-01 | SS01 | 21546 | 66082565 | ISF | 1.5 | B | 66082572 | 462668 |
| SEPARATOR, COALESCING | | PRESSVES | SEPARATOR | ARMADA GAS PLANT 01-18-017-18W4 | HENRY TECHNOLOGIES | 0250470A-2 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66080598 | 190929 |
| SEPARATOR, CONDENSATE / GLYCOL | | PRESSVES | SEPARATOR | ARMADA GAS PLANT 01-18-017-18W4 | NUSCO | 83719001 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66076400 | 2612432 |
| SEPARATOR, CYCLONE | | PRESSVES | SEPARATOR | ARMADA GAS PLANT 01-18-017-18W4 | NATCO | 42622-61 | SS01 | 21546 | 66083941 | ISF | 1.5 | B | 66083944 | 0 |
| SEPARATOR, INLET | | PRESSVES | SEPARATOR | ARMADA GAS PLANT 01-18-017-18W4 | OPSCO | FV.7.36.781 | SS01 | 21546 | 66075484 | ISF | 1.5 | B | 66076323 | 179610 |
| SEPARATOR, INLET | | PRESSVES | SEPARATOR | ARMADA GAS PLANT 01-18-017-18W4 | CESSCO | P2799 | SS01 | 21546 | 66075483 | IDLE | 1.5 | B | 66076304 | 146734 |
| SEPARATOR, INLET | | PRESSVES | SEPARATOR | ARMADA GAS PLANT 01-18-017-18W4 | ALCO | 84C-320301 | SS01 | 21546 | 66075485 | ISF | 1.5 | B | 66076344 | 190934 |
| SEPARATOR, INLET | | PRESSVES | SEPARATOR | ARMADA GAS PLANT 01-18-017-18W4 | PENFABCO | PE4866 | SS01 | 21546 | 66075486 | ISF | 1.5 | B | 66076369 | 416400 |
| SEPARATOR, LOW TEMP | | PRESSVES | SEPARATOR | ARMADA GAS PLANT 01-18-017-18W4 | ALCO | 84C-3203-04 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66076395 | 190933 |
| SEPARATOR, LOW TEMP | | PRESSVES | SEPARATOR | ARMADA GAS PLANT 01-18-017-18W4 | ALCO | 2002691801 | SS01 | 21546 | 66075489 | ISF | 1.5 | B | 66078748 | 487468 |
| SEPARATOR, PROPANE DE-OILER | | PRESSVES | SEPARATOR | ARMADA GAS PLANT 01-18-017-18W4 | PLAINS | 516VIII | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66076396 | 2648336 |
| SNOWMOBILE, SKI-DOO | | MOB | SNOWMOBILE | ARMADA GAS PLANT 01-18-017-18W4 | SKI-DOO | 123200686 | SS01 | 21546 | | ISF | 2250 | B | 66158253 | 0 |
| TANK, 1000 GALLON GAS STORAGE | | NONPRVES | TANK | ARMADA GAS PLANT 01-18-017-18W4 | | | SS01 | 21546 | | FIDL | 1.5 | B | 66079578 | 0 |
| TANK, A/G 100 BBL LUBE OIL | | NONPRVES | TANK | ARMADA GAS PLANT 01-18-017-18W4 | | | SS01 | 21546 | | ISF | 0.74 | B | 66121462 | 0 |
| TANK, A/G 200 BBL | | NONPRVES | TANK | ARMADA GAS PLANT 01-18-017-18W4 | | 77-44 | SS01 | 21546 | | ISF | 1.5 | B | 66083952 | 0 |
| TANK, AJAX BLDG U/G STORAGE 5 M3 | | NONPRVES | TANK | ARMADA GAS PLANT 01-18-017-18W4 | | | SS01 | 21546 | | ISF | 1.5 | B | 66083760 | 0 |
| TANK, FKO U/G STORAGE 8000 L | | NONPRVES | TANK | ARMADA GAS PLANT 01-18-017-18W4 | | | SS01 | 21546 | | ISF | 1.5 | B | 66092177 | 0 |

| Description | Tag No | EqType | Class | Location | Manufacturer | Serial | Plant | CC | Superior | Eq Status | Mkt value | Cond | Equip | ABRegNo |
|-------------------------------|--------|----------|-------------|---------------------------------|-------------------|-------------------|-------|-------|----------|-----------|-----------|------|----------|---------|
| TOWER, CONDENSATE STABILIZER | | PRESSVES | TOWER | ARMADA GAS PLANT 01-18-017-18W4 | ALCO | 84C320305 | SS01 | 21546 | 66075488 | ISF | 1.5 | B | 66076399 | 205694 |
| TRAILER, UTILITY | | VEHICLE | TRAILER | ARMADA GAS PLANT 01-18-017-18W4 | KARAVAN | 5KTSS12103F085772 | SS01 | 21546 | | ISF | 9000 | B | 66150846 | 0 |
| TRANSFORMERS, PANEL RECTIFIER | | EL | TRANSFORMER | ARMADA GAS PLANT 01-18-017-18W4 | HAYLEY INDUSTRIES | 5873 | SS01 | 21546 | 66083954 | ISF | 1.5 | B | 66079560 | 0 |
| | | | | | | | | | | | | | | |

Appendix C Schedule Two: Limited Phase I Environmental Site Assessment

HUSKY OIL OPERATIONS LTD.

PHASE 1 ESA

Location: 01-18-017-18 W4M
(Sweet Gas Plant)
Husky Armada

Prepared for:
HUSKY OIL OPERATIONS LTD.
Calgary, AB

Prepared by:



ALLIANCE ENERGY SERVICES LTD.
Environmental Division
Calgary, AB

May 27, 2008



**Location: 01-18-017-18 W4M
Phase 1 ESA**

Prepared for:

**Meridith Ball, P. Ag.
Area Reclamation Coordinator
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Box 6525, Station D
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Prepared by:

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1840, 840 – 7th Avenue SW
Calgary, AB, T2P 0Z9**

A handwritten signature in blue ink, appearing to read "Nora Toth", is written over a horizontal line.

**Nora Toth, B.A.
Environmental Project Coordinator**

A handwritten signature in black ink, appearing to read "Julia Byrkart", is written over a horizontal line.

**Julia Byrkart, B.Sc., P.Biol.
Project Coordinator**

EXECUTIVE SUMMARY

Alliance Energy Services Ltd. (Alliance) was contracted by Meridith Ball of Husky Oil Operations Ltd. to conduct a Phase 1 ESA on the Husky Armada (01-18-017-18 W4M). As part of the Phase 1 ESA, Alliance reviewed the pertinent information available in various sources. This information was utilized to complete sections A through G with the exception of sections C and question 1 of section E of the Phase I Environmental Site Assessment of the attached Alberta Environment's *Wellsite Reclamation Certificate Application* (Alberta Environment, 2007).

The Husky Armada was a sweet gas plant surveyed in 1979 and was built sometime between 1981 and 1982. During the review of the available information the following facilities were noted on-site: a glycol and condensate separator, as well as numerous above and underground tanks. Other facilities were noted on the location and an equipment list was created to summarize all equipment historically and currently on-site. Please refer to Appendix E for the summary of the facilities equipment list and for the facilities schematic flow diagrams.

Based on the information which was reviewed as part of the Phase 1 ESA, Alliance recommends that a Phase 2 ESA be conducted to assess all the facility areas on the Husky Armada location.

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LIST OF APPENDICES

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- Appendix B: Accucard/AbaData Information
- Appendix C: Survey Plan/EUB Pipeline Map
- Appendix D: Air Photos
- Appendix E: Facilities Schematic Flow Diagram and Facilities Equipment List
- Appendix F: Infrastructure Documentation
- Appendix G: Spill Information
- Appendix H: Landowner/Occupant Information

1.0 OBJECTIVES AND SCOPE OF WORK

1.1 OBJECTIVES

The intent of this Phase I ESA was to review all available sources of information in order to complete the following objectives:

- Complete sections A through G with the exception of sections C and question 1 of section E of the Phase I Environmental Site Assessment.
- Compliance Option 1 or 2- Drilling Waste Disposal Assessment Checklist and relevant calculations if a well was drilled on location.
- Determine what infrastructure was associated with the well site and/or facility site under review.
- Determine any area with potential environmental impact.

1.2 SCOPE OF WORK

The scope of work established for this project involved the following:

- Reviewed AccuCard, AccuMap and/or AbaData information.
- Reviewed all available reclamation and well files.
- Reviewed microfiche files when applicable.
- Completed an air photo review for pits, infrastructure and potential impact areas.
- Completed an Energy Resources Conservation Board FIS Release Incident report search.
- Reviewed Wastetrac Systems for available drilling waste disposal documentation when applicable.

2.0 LIMITATIONS

This report was prepared by Alliance Energy Services Ltd. (Alliance) based on its professional judgment and experience and in accordance with generally accepted professional standards of care and skill for the preparation of reports of this nature. All findings and conclusions contained in this report are based on the information and circumstances existing at the time of preparation of this report, including data and information provided by third parties. Unless otherwise indicated in this report, no attempt has been made to verify information provided by third parties.

This report is intended for the sole use of the addressee. The reliance, use or making of decisions by a third party, based on this report, is strictly prohibited. Alliance accepts no responsibility or liability to any third party arising out of the use of, or reliance on, this report by any party other than the addressee.

No warranty, express or implied, is made in respect of this report other than as expressly provided in this Section 2.0.

3.0 REFERENCES

Abacus Datagraphics Ltd. AbaData Version 1.14. (1992). Reviewed on April 17 2008.
<http://www.abacusdatagraphics.com/AbaData/mgMainLogin.asp>

Alberta Environment. Wellsite Reclamation Certificate Application. January 2007.
<http://environment.alberta.ca/1.html>

Husky Oil Operations Ltd. Surface File (S64484). Reviewed on May 2, 2008.



Appendix A

PHASE 1 Environmental Site Assessment**A. Drilling Information**

1. Drilling date: Not applicable
2. Well depth: Not applicable
3. Has this site been previously certified and the certificate cancelled? ☐ Yes ☒ No
 If Yes, provide details of work completed in the Detailed Site Assessment Report.
 If no work has been done, explain why. _____

4. Is this site a re-entry? ☐ Yes ☒ No
 If yes, has this site been previously certified? ☐ Yes ☐ No, If yes, Certificate No. _____
5. Drilling mud (type, volume): Not applicable
 Drilling waste disposal method: Not applicable
 Sump location: ☐ On-Lease ☐ Remote ☐ None
 Remote sump location: Not applicable
 Disposal location (s): Not applicable
6. Drilling Waste Compliance Option used and attached to Schedule 3 : ☐ Option 1 ☐ Option 2 ☐ Option 3
7. Has this site been used for drilling waste disposal more than once? ☐ Yes ☒ No ☐ Unknown
 Details: _____

B. Production/Storage & Environmental Information

1. Infrastructure associated with the location historical and/or current: (tanks, pipeline, process skids, access roads etc.)
For infrastructure associated with the location please refer to the Equipment List attached in Appendix E.
2. Flare pits (drilling, production) ☐ Yes ☒ No ☐ Unknown **Details/Location:** _____
3. Storage tanks (☒ below or ☒ above ground) ☒ Yes ☐ No ☐ Unknown
 Number of tanks: **Numerous tanks were found on-site. Please refer to Appendix E for more details.**
 Location: _____
 Capacity: _____
4. Underground facilities removed (storage tanks, pipelines, etc.)?
☐ Yes ☒ No If No, explain The site is still active. ☐ Not Applicable – No underground facilities at site.
5. How was fluid at producing wells, disposal wells, and/or battery sites shipped to/from the location? ☐ N/A
 Fluid piped ☒ to the site, Fluid piped ☒ from the site.
 Fluid trucked ☐ to the sit Fluid trucked ☐ from the site.
6. Other (waste storage/handling/chemical storage, buried pits, landfills etc.): _____
7. Spills/Releases/Complaints: ☒ Yes ☐ No ☐ Unknown **Date:** January 14, 1988
 Reference or Incident #: 19880082
 Type: **Complaint: odour concerns were documented for the 01-18-017-18 W4M location, however the source of the odour was unknown therefore it was unclear if the filed complaint was related to the Husky Armada sweet gas plant.**
 Product & Volume (Spilled & Recovered): N/A
8. Have there been any previous ESAs conducted? ☐ Yes ☒ No (attach additional sheets as necessary)
 Consultant: _____
 Report Title: _____
 Report Date: _____
 Report Findings: _____

C. Phase 1 Site Visit- To be completed at a later date

1. Date (m/d/y): _____
2. Assessor: _____
3. Surrounding land use:
N: _____ S: _____ E: _____ W: _____
4. Topography: _____
5. Vegetation: _____
6. Proximity to (fill in distance to all that fall within 300 metres of this site):
Residence _____; Water well _____; Surface waterbody (e.g., dugout, stream, river): _____
7. Equipment or tankage present (or visual signs of former facilities): ☐ Yes ☐ No
What was observed?: _____
8. Visual signs of open or potentially buried earthen pits: ☐ Yes ☐ No
What was observed?: _____
9. Evidence of past spills (includes cumulative releases, well centre impacts, salt tolerant vegetation, etc.): ☐ Yes ☐ No
What was observed?: _____
10. Adjacent land affected by operations on the site? ☐ Yes ☐ No
What was observed?: _____
11. Vegetation stress apparent: ☐ Yes ☐ No
Details (location, evidence): _____
12. Does site visit information conflict with specific file or the imagery review Information: ☐ Yes ☐ No
If YES, explain: _____

D. AERIAL/SATELLITE IMAGERY REVIEW

Photographs of the site in aerial, satellite or other media format are required. Scales such as 1:5000 or 1:7500 should be used to show detail.

Producing wells and batteries: one pre-disturbance; one post-disturbance; one photograph for every 2 to 3 year interval while the site was active.

Dry and abandoned wells: one photograph of the active site, if available, is required. If active site photographs are not available, photographs of the pre and post disturbance are required.

Sites with above ground facilities and/or spills: photos of the site before, during (if available), and after the spill cleanup or facility removal are required.

Review date: May 27, 2008

Reviewed by: Nora Toth

Photo ID: Roll: 1054, Print: 42

Year: April 5, 1970 Scale: 1:7,920

Evidence of former infrastructure or areas of potential concern:

Pre-disturbance photograph.

The lease is not visible within the surrounding area.

Photo ID: Roll: AS 3044, Print: 178

Year: October 12, 1977 Scale: 1:5,000

Evidence of former infrastructure or areas of potential concern:

Pre-disturbance photograph.

The lease was not visible within the surrounding area.

Photo ID: Roll: 2437, Print: 250

Year: August 25, 1981 Scale: 1:7,500

Evidence of former infrastructure or areas of potential concern:

The lease was visible within the area. Facilities were noted in the following areas: central to the lease, towards the northwest corner, and towards the southwest.

Photo ID: Roll: 3152, Print: 78

Year: May 16, 1985 Scale: 1:5,000

Evidence of former infrastructure or areas of potential concern:

The lease was visible within the area. Facilities were noted in the following areas: central to the lease, on the south side, in the northwest corner, as well as on the northeast side.

Photo ID: Roll: 4178, Print: 217

Year: August 4, 1991 Scale: 1:7,500

Evidence of former infrastructure or areas of potential concern:

The lease was visible within the area. Facilities were noted in the following areas: central to the lease, on the south side, in the northwest corner, as well as on the northeast side.

Photo ID: Roll: 5008, Print: 243

Year: April 24, 1999 Scale: 1:7,500

Evidence of former infrastructure or areas of potential concern:

The lease was visible within the area. Facilities were noted in the following areas: central to the lease, in the southwest corner, in the northwest corner, as well as on the northeast side.

E. INTERVIEWS- (To be completed at a later date)

1. Private Land: Have you performed a site visit in the presence of the landowner/occupant? ☐ Yes ☐ No

Public Land: Have you performed a site visit in the presence of the occupant? ☐ Yes ☐ No

Public Land: Have all disposition conditions been met? ☐ Yes ☐ No

Date of site visit(s): _____

Interviews- (To be completed at a later date)

Details of Interviewee's Comments (*request information on previous complaints, former facilities, presence and details of spills, pits, waste storage/handling, and vegetation control, etc.*)

2. Landowner Interview: Date: _____ Interviewed By: _____

3. Occupant Interview: Date: _____ Interviewed By: _____

4. Operator Interview: Date: _____ Interviewed By: _____

Position: _____

Additional Notes / Comments / Information

F. CONCLUSIONS AND RECOMMENDATIONS

1. Phase 1 ESA information is sufficient to form a conclusion about contamination? ☒ Yes ☐ No

If YES, go to Question 2

If NO, indicate what follow up actions that will be taken to gain sufficient information (e.g., Phase 2 ESA)

Type of investigation: _____

Did this investigation indicate that contamination was present? ☐ Yes ☐ No

2. Phase 1 ESA showed contamination is likely present? ☒ Yes ☐ No

If YES, indicate what follow-up work will be done on the site (e.g., Phase 2 ESA, remediation work):

Details (type of investigation, date):


The Husky Armada was a sweet gas plant surveyed in 1979 and was built sometime between 1981 and 1982. During the review of the available information the following facilities were noted on-site: a glycol and condensate separator, as well as numerous above and underground tanks. Other facilities were noted on the location and an equipment list was created to summarize all equipment historically and currently on-site. Please refer to Appendix

E for the summary of the facilities equipment list and for the facilities schematic flow diagrams.

Based on the information which was reviewed as part of the Phase 1 ESA, Alliance recommends that a Phase 2 ESA be conducted to assess all the facility areas on the Husky Armada location

G. DECLARATION

I Julia Burkart of Alliance Energy Services Ltd. certify that, to the best of my knowledge, all of the aforementioned information is accurate. This Phase 1 Environmental Site Assessment (ESA) was conducted on behalf of Husky Oil Operations Limited, for the above noted location. All the pertinent information gathered during the Phase 1 ESA has been provided within this report.


NAME (signature)

Reclamation Consultant

POSITION

June 4, 2008

DATE



Appendix B

Gas processing plant [as of November 12, 2007]

Govt code: 1480
 Name: HUSKY ARMADA
 Address: 5810 62 Street
 Taber, AB T1G 1Y7
 Phone: (403) 223-4851
 Operator: HUSKY OIL OPERATIONS LIMITED (0R46)
 Address: 707 - 8 AVENUE SW
 CALGARY, AB T2P 1H5
 Location: 01-18-017-18W4
 Remarks: n/a
 Field: EYREMORE, ARMADA, MAJORVILLE
 Closest Community: Brooks, Lomond
 Co-Owners: HUSKY ENERGY 42.8%, R3 GROUP OF COMPANIES 57.2%
 Manager/Contact: Eric Stang
 Build Date/Cost: 1984, \$1,600,000
 Major Mods: 1997 Added Compression; 2003 Added a Compressor
 Build Contractor: Flint
 Maint. Contractor: Do own
 Licence Requirements: Yes
 Custom Process: Yes
 Emerg. Response Plan: Yes
 Turnaround: 2007, 2004
 Processes Used: Refrigeration
 Spec. Interest Grps: A.E.U.B., Alberta Environment, Area S Oil Spill
 Co-op, Brooks and District Fish and Game
 Association, Ducks Unlimited, Preservation of
 Agriculture and Living Space Society
 Inlet Pressure: 689.0 kPaa to 1654.0 kPaa
 Discharge Pressure: 6481.0 kPaa to 6894.0 kPaa
 Fld Served/Reserves: Anglo 139.0 E6m3; Armada 871.0 E6m3; Eyremore 3760.0
 E6m3; Majorville 2338.0 E6m3
 Rec Stn/Max Press: Stn #1649 Badger North 6895.0 kPaa
 LPG-Mix: 12.9 m3/d

Capacities

| Substance | Licence Capacity | Design Capacity | Avg Dly 09/2007 | Units |
|------------------|---------------------|--------------------|--------------------|--------|
| Butane | 0.00 | 0.00 | 0.00 | m3 |
| Pentane | 0.00 | 0.00 | 0.00 | m3 |
| Sulphur | 0.00 | 0.00 | 0.00 | tonnes |
| Sulphur Emission | 0.00 | 0.00 | 0.00 | tonnes |
| Sulphur Recovery | 0.00 | 0.00 | 0.00 | % |
| Raw Gas | 850.00 | 850.00 | 390.70 | E3m3 |
| Sales Gas | 844.00 | 844.00 | 372.80 | E3m3 |
| Injected | 0.00 | 0.00 | 0.00 | E3m3 |
| Shrinkage | 0.00 | 0.00 | 2.50 | E3m3 |
| Fuel | 0.00 | 0.00 | 6.20 | E3m3 |
| Flared | 0.00 | 0.00 | 0.00 | E3m3 |
| Other | 0.00 | 0.00 | 9.20 | E3m3 |
| Ethane Plus | 0.00 | 0.00 | 0.00 | m3 |
| Ethane | 0.00 | 0.00 | 0.00 | m3 |
| NGL | 0.00 | 0.00 | 0.00 | m3 |
| Propane | 0.00 | 0.00 | 0.00 | m3 |

Average Daily Throughput History

| Date | Butane m3 | Pentane m3 | Sulphur tonnes | Emission tonnes | Recovery % | Raw Gas E3m3 |
|---------|--------------|---------------|-------------------|--------------------|---------------|-----------------|
| 10/2005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 501.50 |
| 11/2005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 497.10 |
| 12/2005 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 466.50 |
| 01/2006 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 517.10 |
| 02/2006 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 511.40 |
| 03/2006 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 501.00 |
| 04/2006 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 478.40 |
| 05/2006 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 487.50 |
| 06/2006 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 482.30 |
| 07/2006 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 494.40 |
| 08/2006 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 465.90 |
| 09/2006 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 452.30 |
| 10/2006 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 453.10 |
| 11/2006 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 463.60 |
| 12/2006 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 448.00 |

| | | | | | | |
|---------|------|------|------|------|------|--------|
| 03/2007 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 396.60 |
| 04/2007 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 398.50 |
| 05/2007 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 411.10 |
| 06/2007 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 415.20 |
| 07/2007 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 404.30 |
| 08/2007 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 391.70 |
| 09/2007 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 390.70 |

| Date | Sales Gas E3m3 | Injected E3m3 | Shrinkage E3m3 | Fuel E3m3 | Flared E3m3 | Other E3m3 |
|---------|-------------------|------------------|-------------------|--------------|----------------|---------------|
| 10/2005 | 483.50 | 0.00 | 2.30 | 7.10 | 0.00 | 8.60 |
| 11/2005 | 498.30 | 0.00 | 2.50 | 7.20 | 0.00 | -10.90 |
| 12/2005 | 488.70 | 0.00 | 2.50 | 7.30 | 0.00 | -32.00 |
| 01/2006 | 511.00 | 0.00 | 2.40 | 7.00 | 0.00 | -3.20 |
| 02/2006 | 506.20 | 0.00 | 2.20 | 6.80 | 0.00 | -3.80 |
| 03/2006 | 486.80 | 0.00 | 2.30 | 6.50 | 0.00 | 5.40 |

| | | | | | | |
|---------|--------|------|------|------|------|-------|
| 04/2006 | 459.40 | 0.00 | 2.50 | 5.90 | 0.00 | 10.60 |
| 05/2006 | 477.10 | 0.00 | 2.10 | 6.80 | 0.00 | 1.50 |
| 06/2006 | 479.10 | 0.00 | 2.20 | 7.00 | 0.00 | -6.00 |
| 07/2006 | 474.10 | 0.00 | 2.10 | 6.40 | 0.00 | 11.80 |
| 08/2006 | 452.70 | 0.00 | 2.30 | 6.40 | 0.00 | 4.60 |
| 09/2006 | 440.60 | 0.00 | 2.10 | 5.00 | 0.00 | 4.60 |
| 10/2006 | 444.30 | 0.00 | 2.30 | 5.40 | 0.00 | 1.10 |
| 11/2006 | 438.70 | 0.00 | 2.60 | 5.60 | 0.00 | 16.60 |
| 12/2006 | 433.10 | 0.00 | 2.70 | 5.60 | 0.00 | 6.70 |
| 01/2007 | 389.50 | 0.00 | 2.30 | 4.50 | 0.00 | 9.60 |
| 02/2007 | 365.70 | 0.00 | 2.20 | 4.00 | 0.00 | 20.70 |
| 03/2007 | 376.90 | 0.00 | 2.20 | 4.40 | 0.00 | 13.10 |
| 04/2007 | 381.70 | 0.00 | 2.40 | 4.40 | 0.00 | 10.10 |
| 05/2007 | 394.40 | 0.00 | 2.70 | 4.70 | 0.00 | 9.40 |
| 06/2007 | 395.70 | 0.00 | 2.30 | 4.60 | 0.00 | 12.70 |
| 07/2007 | 402.60 | 0.00 | 2.20 | 6.70 | 0.00 | -7.10 |
| 08/2007 | 376.00 | 0.00 | 2.50 | 7.10 | 0.00 | 6.10 |
| 09/2007 | 372.80 | 0.00 | 2.50 | 6.20 | 0.00 | 9.20 |

| Date | Ethane+ m3 | Ethane m3 | NGL m3 | Propane m3 |
|---------|---------------|--------------|-----------|---------------|
| 10/2005 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11/2005 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12/2005 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01/2006 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02/2006 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03/2006 | 0.00 | 0.00 | 0.00 | 0.00 |
| 04/2006 | 0.00 | 0.00 | 0.00 | 0.00 |
| 05/2006 | 0.00 | 0.00 | 0.00 | 0.00 |
| 06/2006 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07/2006 | 0.00 | 0.00 | 0.00 | 0.00 |
| 08/2006 | 0.00 | 0.00 | 0.00 | 0.00 |
| 09/2006 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10/2006 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11/2006 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12/2006 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01/2007 | 0.00 | 0.00 | 0.00 | 0.00 |
| 02/2007 | 0.00 | 0.00 | 0.00 | 0.00 |
| 03/2007 | 0.00 | 0.00 | 0.00 | 0.00 |
| 04/2007 | 0.00 | 0.00 | 0.00 | 0.00 |
| 05/2007 | 0.00 | 0.00 | 0.00 | 0.00 |
| 06/2007 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07/2007 | 0.00 | 0.00 | 0.00 | 0.00 |
| 08/2007 | 0.00 | 0.00 | 0.00 | 0.00 |
| 09/2007 | 0.00 | 0.00 | 0.00 | 0.00 |

R18W4

↑ 41521.6

↓ 41521.6

T17

T17

CS

B

GS

GS

GS

GS

B

CS

B

82470

1480

B

B

CS

B

↑ 40462.4

↙ 26782.3

R18W4

STD. PIPELINES LEGEND

Natural Gas

FACILITY LEGEND

CS Compressor station
GS Gas Gathering System
GP Gas processing plant

01-18-017-18 W4M

01-18-017-18 W4M

AccuMap

Created in AccuMap™
Product of IHS
Datum: NAD27
Vol 12 No 11 Nov 16, 2007
(403) 270-1616

Author: Juchee
Date: December 31, 2007
File: None
Scale: 1:740
Projection: Stereographic
Contour: NS042854 W112.45279

Scale 1:740

0 0.02
Kilometers
0 0.02
Miles

**EUB FACILITY INFORMATION
FOR
01-18-017-18 W4M**FACILITY DATA CURRENT TO MARCH 10, 2008
FLARING, VENTING & PRODUCTION DATA CURRENT TO DECEMBER 1, 2007**OPTIONS**[View
Licencee/Operator
Info](#)[Print Screen](#)[Close Screen](#)**BATTERY**

| | | | |
|-----------|--|------------|--------|
| TYPE: | GAS MULTIWELL PRORATION SE ALBERTA BATTERY | | |
| STATUS: | ACTIVE | LICENCE #: | F29796 |
| NAME: | BADGER LAKE LATERAL "A" | | |
| OPERATOR: | ENDEV ENERGY INC. | | |
| LICENCEE: | ENDEV ENERGY INC. | | |

BATTERY

| | | | |
|-----------|--|------------|--------|
| TYPE: | GAS MULTIWELL PRORATION SE ALBERTA BATTERY | | |
| STATUS: | ACTIVE | LICENCE #: | F29796 |
| NAME: | BADGER LAKE LATERAL "B" | | |
| OPERATOR: | ENDEV ENERGY INC. | | |
| LICENCEE: | ENDEV ENERGY INC. | | |

BATTERY

| | | | |
|-----------|--|------------|--------|
| TYPE: | GAS MULTIWELL PRORATION SE ALBERTA BATTERY | | |
| STATUS: | ACTIVE | LICENCE #: | F29796 |
| NAME: | BADGER LAKE LATERAL "C" | | |
| OPERATOR: | ENDEV ENERGY INC. | | |
| LICENCEE: | ENDEV ENERGY INC. | | |

BATTERY

| | | | |
|-----------|------------------------------|------------|-------|
| TYPE: | GAS MULTIWELL GROUP BATTERY | | |
| STATUS: | ACTIVE | LICENCE #: | F2226 |
| NAME: | ARMADA LP MWB | | |
| OPERATOR: | HUSKY OIL OPERATIONS LIMITED | | |
| LICENCEE: | HUSKY OIL OPERATIONS LIMITED | | |

BATTERY

| | | | |
|-----------|------------------------------|------------|-------|
| TYPE: | GAS MULTIWELL GROUP BATTERY | | |
| STATUS: | ACTIVE | LICENCE #: | F2226 |
| NAME: | ARMADA HP MWB | | |
| OPERATOR: | HUSKY OIL OPERATIONS LIMITED | | |
| LICENCEE: | HUSKY OIL OPERATIONS LIMITED | | |

COMPRESSOR STATION

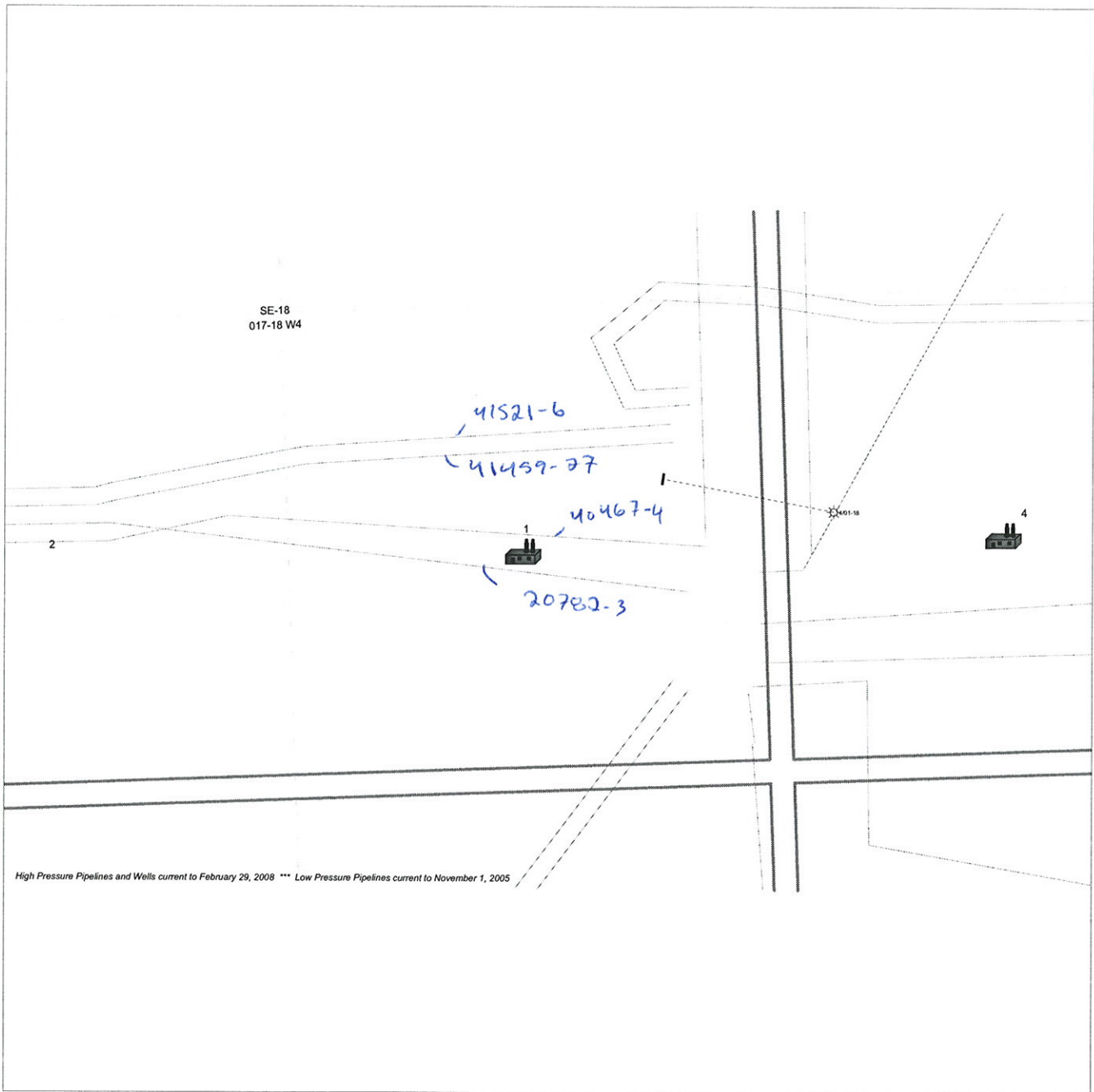
| | | | |
|-----------|--------------------|------------|--------|
| TYPE: | COMPRESSOR STATION | | |
| STATUS: | ACTIVE | LICENCE #: | F29796 |
| NAME: | ENDEV ENERGY INC | | |
| OPERATOR: | ENDEV ENERGY INC. | | |
| LICENCEE: | ENDEV ENERGY INC. | | |

COMPRESSOR STATION

| | | | |
|---------|--------------------|------------|--------|
| TYPE: | COMPRESSOR STATION | | |
| STATUS: | ACTIVE | LICENCE #: | F29848 |

| | | | |
|-----------------------------|-------------------------------|------------|--------|
| NAME: | MARATHON CANADA LIMITED | | |
| OPERATOR: | HUSKY OIL OPERATIONS LIMITED | | |
| LICENCEE: | HUSKY OIL OPERATIONS LIMITED | | |
| GAS GATHERING SYSTEM | | | |
| TYPE: | GAS GATHERING SYSTEM | | |
| STATUS: | ACTIVE | LICENCE #: | F29796 |
| NAME: | BADGER 102/01-18-017-18W4 GGS | | |
| OPERATOR: | ENDEV ENERGY INC. | | |
| LICENCEE: | ENDEV ENERGY INC. | | |
| GAS GATHERING SYSTEM | | | |
| TYPE: | GAS GATHERING SYSTEM | | |
| STATUS: | ACTIVE | LICENCE #: | F2226 |
| NAME: | ARMADA 1-18 LP | | |
| OPERATOR: | HUSKY OIL OPERATIONS LIMITED | | |
| LICENCEE: | HUSKY OIL OPERATIONS LIMITED | | |
| GAS GATHERING SYSTEM | | | |
| TYPE: | GAS GATHERING SYSTEM | | |
| STATUS: | ACTIVE | LICENCE #: | F2226 |
| NAME: | ARMADA 1-18 HP | | |
| OPERATOR: | HUSKY OIL OPERATIONS LIMITED | | |
| LICENCEE: | HUSKY OIL OPERATIONS LIMITED | | |
| * GAS PLANT * | | | |
| TYPE: | GAS PLANT SWEET | | |
| STATUS: | ACTIVE | LICENCE #: | F2226 |
| NAME: | TARRAGON EYREMORE | | |
| OPERATOR: | HUSKY OIL OPERATIONS LIMITED | | |
| LICENCEE: | HUSKY OIL OPERATIONS LIMITED | | |
| METER STATION | | | |
| TYPE: | FIELD METER STATION | | |
| STATUS: | ACTIVE | LICENCE #: | |
| NAME: | BADGER NORTH | | |
| OPERATOR: | NOVA GAS TRANSMISSION LTD. | | |
| LICENCEE: | | | |

01-18-017-18 W4M



Wellheads

- ◆ Abandoned Wellhead
 - ⚡ Suspended Gas Wellhead
 - ⚡ Suspended Oil Wellhead
 - ⚡ Flowing Gas Wellhead
 - Location Wellhead
 - Flowing Oil Wellhead
 - Miscellaneous Wellhead
 - Water Wellhead
 - ⚡ Well Downhole Location
 - Newly Licenced Well
 - ⚡ Newly Spudded Well
- High Pressure Pipelines
- Gas Pipeline
 - Oil Pipeline
 - Water Pipeline
 - LVP/HVP Pipeline
 - Foreign Pipeline
- (Only when a company is specified.)
- Low Pressure Pipelines
- Gas Co-op Pipeline



| EUB DATA | | ATTACHED FILES | | Close Screen | |
|--|------------------------------|----------------|---------------------|--------------|--------|
| EUB PIPELINE INFORMATION CURRENT TO FEBRUARY 29, 2008 | | | | | |
| LICENCE/LINE #: | 20782 - 3 | PERMIT DATE: | | | |
| ABACUS #: | 50002 | LICENCE DATE: | SEPTEMBER 17, 1984 | | |
| COMPANY: | HUSKY OIL OPERATIONS LIMITED | | | | |
| FROM LOCATION: | 16-20-016-19 W4M PL | TO LOCATION: | 01-18-017-18 W4M CS | | |
| LENGTH: | 11.41 kms | 7.09 mi | STATUS: | O | |
| SUBSTANCE: | NG | H2S: | 0 mol/kmol | 0 ppm | |
| OD: | 114.3 mm | 4.50 " | WT: | 2.77 mm | 0.11 " |
| MATERIAL: | S | TYPE: | Z245.3 | | |
| GRADE: | 2902 | MOP: | 7580 kPa | 1099 psi | |
| JOINTS: | Z | INTL COATING: | U | | |
| STRESS LEVEL: | 54 % | ENVIRONMENT: | | | |
| ORIGINAL PERMIT DATE: | | | CONST. DATE: | | |
| ORIGINAL LICENCE/LINE #: | 20782 - 3 | | | | |
| OPTIONS | | | | | |
| View Company Info | | | | | |
| View Installation Info | | | | | |
| View Entire Licence | | | | | |
| View Licence Ticket | | | | | |
| View Spill Incidents | | | | | |
| Highlight Line | | | | | |
| Highlight Entire Licence | | | | | |
| Print Screen | | | | | |

| EUB DATA | | ATTACHED FILES | | Close Screen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|----------------|--|-----------------------------------|--------------------------------------|---------------|---------------------|----------|-----------|-------|---------------|----------------|--|----------|--------------------------------------|--|--|--|----------------|---------------------|--------------|---------------------|--|---------|----------|---------|---------|---|------------|----|------|------------|-------|-----|----------|--------|-----|------|--------|-----------|---|-------|--------|--|--------|------|------|----------|----------|---------|---|---------------|---|--|---------------|------|--------------|--|--|-----------------------|----------------|--------------|--|--|--------------------------|-----------|--|--|--|----------------|
| <div>EUB PIPELINE INFORMATION CURRENT TO FEBRUARY 29, 2008</div> <table border="1"><tr><td>LICENCE/LINE #:</td><td>40467 - 4</td><td>PERMIT DATE:</td><td colspan="2">APRIL 20, 2004</td></tr><tr><td>ABACUS #:</td><td>62812</td><td>LICENCE DATE:</td><td colspan="2">APRIL 20, 2005</td></tr><tr><td>COMPANY:</td><td colspan="4">CRESCENT POINT GENERAL PARTNER CORP.</td></tr><tr><td>FROM LOCATION:</td><td>13-35-016-19 W4M CS</td><td>TO LOCATION:</td><td colspan="2">01-18-017-18 W4M MS</td></tr><tr><td>LENGTH:</td><td>7.41 kms</td><td>4.60 mi</td><td>STATUS:</td><td>O</td></tr><tr><td>SUBSTANCE:</td><td>NG</td><td>H2S:</td><td>0 mol/kmol</td><td>0 ppm</td></tr><tr><td>OD:</td><td>114.3 mm</td><td>4.50 "</td><td>WT:</td><td>4 mm</td><td>0.16 "</td></tr><tr><td>MATERIAL:</td><td>S</td><td>TYPE:</td><td colspan="2">Z245.1</td></tr><tr><td>GRADE:</td><td>3592</td><td>MOP:</td><td>9930 kPa</td><td>1440 psi</td></tr><tr><td>JOINTS:</td><td>W</td><td>INTL COATING:</td><td colspan="2">U</td></tr><tr><td>STRESS LEVEL:</td><td>40 %</td><td>ENVIRONMENT:</td><td colspan="2"></td></tr><tr><td>ORIGINAL PERMIT DATE:</td><td>APRIL 20, 2004</td><td>CONST. DATE:</td><td colspan="2"></td></tr><tr><td>ORIGINAL LICENCE/LINE #:</td><td>40467 - 4</td><td colspan="3"></td></tr></table> | | | | LICENCE/LINE #: | 40467 - 4 | PERMIT DATE: | APRIL 20, 2004 | | ABACUS #: | 62812 | LICENCE DATE: | APRIL 20, 2005 | | COMPANY: | CRESCENT POINT GENERAL PARTNER CORP. | | | | FROM LOCATION: | 13-35-016-19 W4M CS | TO LOCATION: | 01-18-017-18 W4M MS | | LENGTH: | 7.41 kms | 4.60 mi | STATUS: | O | SUBSTANCE: | NG | H2S: | 0 mol/kmol | 0 ppm | OD: | 114.3 mm | 4.50 " | WT: | 4 mm | 0.16 " | MATERIAL: | S | TYPE: | Z245.1 | | GRADE: | 3592 | MOP: | 9930 kPa | 1440 psi | JOINTS: | W | INTL COATING: | U | | STRESS LEVEL: | 40 % | ENVIRONMENT: | | | ORIGINAL PERMIT DATE: | APRIL 20, 2004 | CONST. DATE: | | | ORIGINAL LICENCE/LINE #: | 40467 - 4 | | | | OPTIONS |
| | | | | LICENCE/LINE #: | 40467 - 4 | PERMIT DATE: | APRIL 20, 2004 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | ABACUS #: | 62812 | LICENCE DATE: | APRIL 20, 2005 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | COMPANY: | CRESCENT POINT GENERAL PARTNER CORP. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | FROM LOCATION: | 13-35-016-19 W4M CS | TO LOCATION: | 01-18-017-18 W4M MS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | LENGTH: | 7.41 kms | 4.60 mi | STATUS: | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | SUBSTANCE: | NG | H2S: | 0 mol/kmol | 0 ppm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | OD: | 114.3 mm | 4.50 " | WT: | 4 mm | 0.16 " | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | MATERIAL: | S | TYPE: | Z245.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | GRADE: | 3592 | MOP: | 9930 kPa | 1440 psi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | JOINTS: | W | INTL COATING: | U | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | STRESS LEVEL: | 40 % | ENVIRONMENT: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | ORIGINAL PERMIT DATE: | APRIL 20, 2004 | CONST. DATE: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | ORIGINAL LICENCE/LINE #: | 40467 - 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | View Company Info | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| View Installation Info | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| View Entire Licence | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| View Licence Ticket | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| View Spill Incidents | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Highlight Line | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Highlight Entire Licence | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Print Screen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| EUB DATA | | ATTACHED FILES | | Close Screen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|----------------|--|--------------------------|---------------------|---------------|---------------------|----------|-----------|-------|---------------|------------------|--|----------|-------------------|--|--|--|----------------|---------------------|--------------|---------------------|--|---------|-----------|---------|---------|---|------------|----|------|------------|-------|-----|----------|--------|-----|------|--------|-----------|---|-------|--------|--|--------|------|------|----------|----------|---------|---|---------------|---|--|---------------|------|--------------|--|--|-----------------------|------------------|--------------|--|--|--------------------------|------------|--|--|--|----------------|
| <div>EUB PIPELINE INFORMATION CURRENT TO FEBRUARY 29, 2008</div> <table border="1"><tr><td>LICENCE/LINE #:</td><td>41459 - 27</td><td>PERMIT DATE:</td><td colspan="2">NOVEMBER 3, 2003</td></tr><tr><td>ABACUS #:</td><td>55201</td><td>LICENCE DATE:</td><td colspan="2">NOVEMBER 3, 2004</td></tr><tr><td>COMPANY:</td><td colspan="4">ENDEV ENERGY INC.</td></tr><tr><td>FROM LOCATION:</td><td>14-32-017-19 W4M CS</td><td>TO LOCATION:</td><td colspan="2">01-18-017-18 W4M PL</td></tr><tr><td>LENGTH:</td><td>13.73 kms</td><td>8.53 mi</td><td>STATUS:</td><td>O</td></tr><tr><td>SUBSTANCE:</td><td>NG</td><td>H2S:</td><td>0 mol/kmol</td><td>0 ppm</td></tr><tr><td>OD:</td><td>114.3 mm</td><td>4.50 "</td><td>WT:</td><td>4 mm</td><td>0.16 "</td></tr><tr><td>MATERIAL:</td><td>S</td><td>TYPE:</td><td colspan="2">Z245.1</td></tr><tr><td>GRADE:</td><td>2901</td><td>MOP:</td><td>9930 kPa</td><td>1440 psi</td></tr><tr><td>JOINTS:</td><td>W</td><td>INTL COATING:</td><td colspan="2">U</td></tr><tr><td>STRESS LEVEL:</td><td>49 %</td><td>ENVIRONMENT:</td><td colspan="2"></td></tr><tr><td>ORIGINAL PERMIT DATE:</td><td>NOVEMBER 3, 2003</td><td>CONST. DATE:</td><td colspan="2"></td></tr><tr><td>ORIGINAL LICENCE/LINE #:</td><td>41459 - 27</td><td colspan="3"></td></tr></table> | | | | LICENCE/LINE #: | 41459 - 27 | PERMIT DATE: | NOVEMBER 3, 2003 | | ABACUS #: | 55201 | LICENCE DATE: | NOVEMBER 3, 2004 | | COMPANY: | ENDEV ENERGY INC. | | | | FROM LOCATION: | 14-32-017-19 W4M CS | TO LOCATION: | 01-18-017-18 W4M PL | | LENGTH: | 13.73 kms | 8.53 mi | STATUS: | O | SUBSTANCE: | NG | H2S: | 0 mol/kmol | 0 ppm | OD: | 114.3 mm | 4.50 " | WT: | 4 mm | 0.16 " | MATERIAL: | S | TYPE: | Z245.1 | | GRADE: | 2901 | MOP: | 9930 kPa | 1440 psi | JOINTS: | W | INTL COATING: | U | | STRESS LEVEL: | 49 % | ENVIRONMENT: | | | ORIGINAL PERMIT DATE: | NOVEMBER 3, 2003 | CONST. DATE: | | | ORIGINAL LICENCE/LINE #: | 41459 - 27 | | | | OPTIONS |
| | | | | LICENCE/LINE #: | 41459 - 27 | PERMIT DATE: | NOVEMBER 3, 2003 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | ABACUS #: | 55201 | LICENCE DATE: | NOVEMBER 3, 2004 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | COMPANY: | ENDEV ENERGY INC. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | FROM LOCATION: | 14-32-017-19 W4M CS | TO LOCATION: | 01-18-017-18 W4M PL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | LENGTH: | 13.73 kms | 8.53 mi | STATUS: | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | SUBSTANCE: | NG | H2S: | 0 mol/kmol | 0 ppm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | OD: | 114.3 mm | 4.50 " | WT: | 4 mm | 0.16 " | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | MATERIAL: | S | TYPE: | Z245.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | GRADE: | 2901 | MOP: | 9930 kPa | 1440 psi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | JOINTS: | W | INTL COATING: | U | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | STRESS LEVEL: | 49 % | ENVIRONMENT: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | ORIGINAL PERMIT DATE: | NOVEMBER 3, 2003 | CONST. DATE: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | ORIGINAL LICENCE/LINE #: | 41459 - 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | View Company Info | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| View Installation Info | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| View Entire Licence | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| View Licence Ticket | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| View Spill Incidents | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Highlight Line | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Highlight Entire Licence | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Print Screen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| EUB DATA | | ATTACHED FILES | | Close Screen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|----------------|--|-----------------------------------|---------------------|---------------|---------------------|---------|-----------|-------|---------------|--|--|----------|-------------------|--|--|--|----------------|---------------------|--------------|---------------------|--|---------|----------|---------|---------|---|------------|----|------|------------|-------|-----|----------|--------|-----|--------|--------|-----------|---|-------|--------|--|--------|------|------|----------|---------|---------|---|---------------|---|--|---------------|------|--------------|--|--|-----------------------|--|--------------|--|--|--------------------------|-------|--|--|--|----------------|--|
| <p style="text-align: center;">EUB PIPELINE INFORMATION CURRENT TO FEBRUARY 29, 2008</p> <table border="1"><tr><td>LICENCE/LINE #:</td><td>41521 - 6</td><td>PERMIT DATE:</td><td colspan="2">JULY 25, 2006</td></tr><tr><td>ABACUS #:</td><td>55190</td><td>LICENCE DATE:</td><td colspan="2"></td></tr><tr><td>COMPANY:</td><td colspan="4">ENDEV ENERGY INC.</td></tr><tr><td>FROM LOCATION:</td><td>01-14-017-19 W4M PL</td><td>TO LOCATION:</td><td colspan="2">01-18-017-18 W4M CS</td></tr><tr><td>LENGTH:</td><td>3.28 kms</td><td>2.04 ml</td><td>STATUS:</td><td>O</td></tr><tr><td>SUBSTANCE:</td><td>NG</td><td>H2S:</td><td>0 mol/kmol</td><td>0 ppm</td></tr><tr><td>OD:</td><td>219.1 mm</td><td>8.63 "</td><td>WT:</td><td>4.8 mm</td><td>0.19 "</td></tr><tr><td>MATERIAL:</td><td>S</td><td>TYPE:</td><td colspan="2">Z245.1</td></tr><tr><td>GRADE:</td><td>2901</td><td>MOP:</td><td>4960 kPa</td><td>719 psi</td></tr><tr><td>JOINTS:</td><td>W</td><td>INTL COATING:</td><td colspan="2">U</td></tr><tr><td>STRESS LEVEL:</td><td>39 %</td><td>ENVIRONMENT:</td><td colspan="2"></td></tr><tr><td>ORIGINAL PERMIT DATE:</td><td></td><td>CONST. DATE:</td><td colspan="2"></td></tr><tr><td>ORIGINAL LICENCE/LINE #:</td><td>0 - 0</td><td colspan="3"></td></tr></table> | | | | LICENCE/LINE #: | 41521 - 6 | PERMIT DATE: | JULY 25, 2006 | | ABACUS #: | 55190 | LICENCE DATE: | | | COMPANY: | ENDEV ENERGY INC. | | | | FROM LOCATION: | 01-14-017-19 W4M PL | TO LOCATION: | 01-18-017-18 W4M CS | | LENGTH: | 3.28 kms | 2.04 ml | STATUS: | O | SUBSTANCE: | NG | H2S: | 0 mol/kmol | 0 ppm | OD: | 219.1 mm | 8.63 " | WT: | 4.8 mm | 0.19 " | MATERIAL: | S | TYPE: | Z245.1 | | GRADE: | 2901 | MOP: | 4960 kPa | 719 psi | JOINTS: | W | INTL COATING: | U | | STRESS LEVEL: | 39 % | ENVIRONMENT: | | | ORIGINAL PERMIT DATE: | | CONST. DATE: | | | ORIGINAL LICENCE/LINE #: | 0 - 0 | | | | OPTIONS | |
| | | | | LICENCE/LINE #: | 41521 - 6 | PERMIT DATE: | JULY 25, 2006 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | ABACUS #: | 55190 | LICENCE DATE: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | COMPANY: | ENDEV ENERGY INC. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | FROM LOCATION: | 01-14-017-19 W4M PL | TO LOCATION: | 01-18-017-18 W4M CS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | LENGTH: | 3.28 kms | 2.04 ml | STATUS: | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | SUBSTANCE: | NG | H2S: | 0 mol/kmol | 0 ppm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | OD: | 219.1 mm | 8.63 " | WT: | 4.8 mm | 0.19 " | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | MATERIAL: | S | TYPE: | Z245.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | GRADE: | 2901 | MOP: | 4960 kPa | 719 psi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | JOINTS: | W | INTL COATING: | U | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | STRESS LEVEL: | 39 % | ENVIRONMENT: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | ORIGINAL PERMIT DATE: | | CONST. DATE: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | ORIGINAL LICENCE/LINE #: | 0 - 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | View Company Info | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| View Installation Info | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| View Entire Licence | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| View Licence Ticket | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| View Spill Incidents | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Highlight Line | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Highlight Entire Licence | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Print Screen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1/18 - 17-18-w4

Legend



- Industrial Sites
- Industrial Sites
- Open Pits or Mines
- Open Pits or Mines
- Runways
- Abandoned Runway
- Active Runway
- Heliports
- Active Heliports
- Bridges
- Bridges
- Well Sites - Active
- Active Oil or Gas
- Active Water
- Well Sites - Abandoned
- Abandoned Oil or Gas
- Abandoned Water
- Railways
- Powerlines
- Pipelines
- Cutlines & Trails
- Clearing Trail
- ATV Trail
- ATV Indefinite Trail
- Cutline Trail
- Other Roads
- Unclassified Road
- Unimproved Road
- Winter Road
- Truck Trail
- Ferry Route
- Ford Winter Crossing
- Interchange Ramp
- Gravel Roads
- 1 Lane Road

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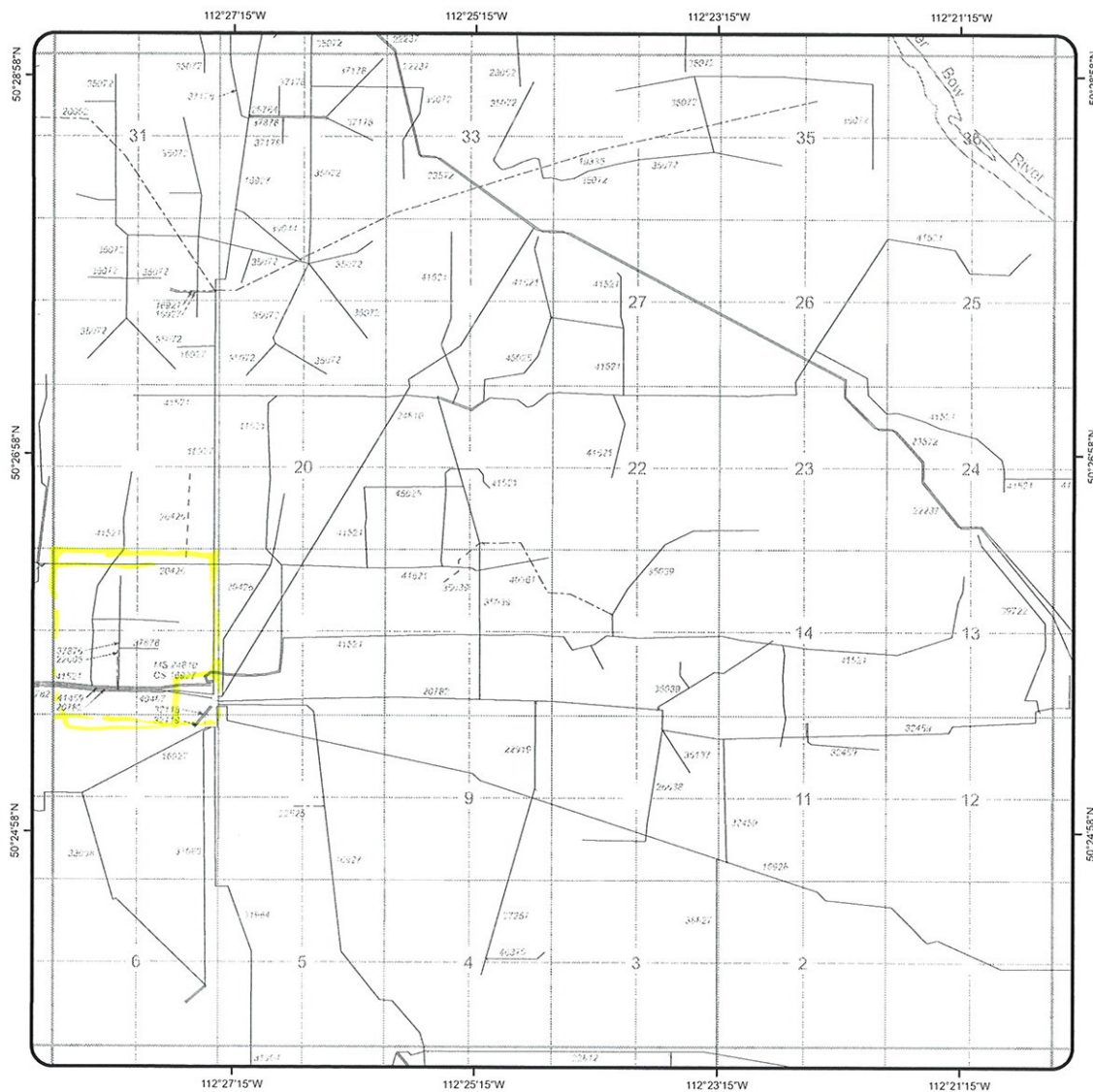
Wellsite and raw pipeline data provided by IHS Energy (Canada) Ltd.

Base data provided by Spatial Data Warehouse Ltd.

Information as depicted is subject to change, therefore the Government of Alberta assumes no responsibility for discrepancies at time of use.

Scale: 1:24,999

© 2006 Government of Alberta



0 2,000 4,000 8,000 Metres



Coordinate System: 10TM






ALL PIPELINES IN TWP 017-18W4

REVISION DATE:
01 August 2007

CAUTION
- THIS PLOT REPRESENTS THE BEST
INFORMATION AVAILABLE TO THE
BOARD AT THIS TIME.
- SPECIFIC PIPELINE LOCATIONS
SHOULD BE OBTAINED FROM SURVEY
PLANS, OWNERS AND FIELD
OBSERVATION BEFORE DIGGING.
- LOW-PRESSURE GAS DISTRIBUTION
LINES ARE NOT SHOWN.
CONTACT THE GAS DISTRIBUTOR
IN THIS AREA FOR LINE LOCATION

LEGEND

PERMITTED: 
LICENSED: 
DISCONTINUED,
ABANDONED,
OR ABANDONED
AND PARTIALLY
REMOVED: 



Appendix C

18
17-18-4

Cm 1/4 Line

4.6 H.A.D.J.
270° 05' 35"

15.00

0° 05' 20"
652.41
652.41
187° 05' 35"

S.E. 1/4 Sec. 18-17-18-4

HECTARES ACRES

AREA REQ'D FOR P/L R/W = 0.979 2.419

AREA REQ'D FOR PLANT SITE R/W = 1.858 4.591

TOTAL = 2.837 7.010

117.42
270° 04' 20"
152.40
180° 05' 58"
105.60
270° 04' 20"
121.97
45.72
C.S. ME.

20' 12" C.C.

95.53
270° 04' 20"

95.56
270° 04' 20"

803.95
270° 03' 15"

824.07
0° 03' 15"

Fd. No M.R. Pk. - 651 Pl. I.
C.S. (N. 1/4 7)

Fd. No M.R.
Pl. II (N.E. 7)

TITLE NUMBER: 34 X 68

MONUMENT FOUND SHOWN THUS ●
MONUMENT PLANTED SHOWN THUS ○
PORTION REFERRED TO COLORED IN RED
DISTANCES ARE IN METRES AND DECIMALS

I, Donald N Tomkinson, Alberta Land Surveyor, hereby
certify that the survey represented by this plan is true
and correct to the best of my knowledge and was completed
on the 19th day of July 1979

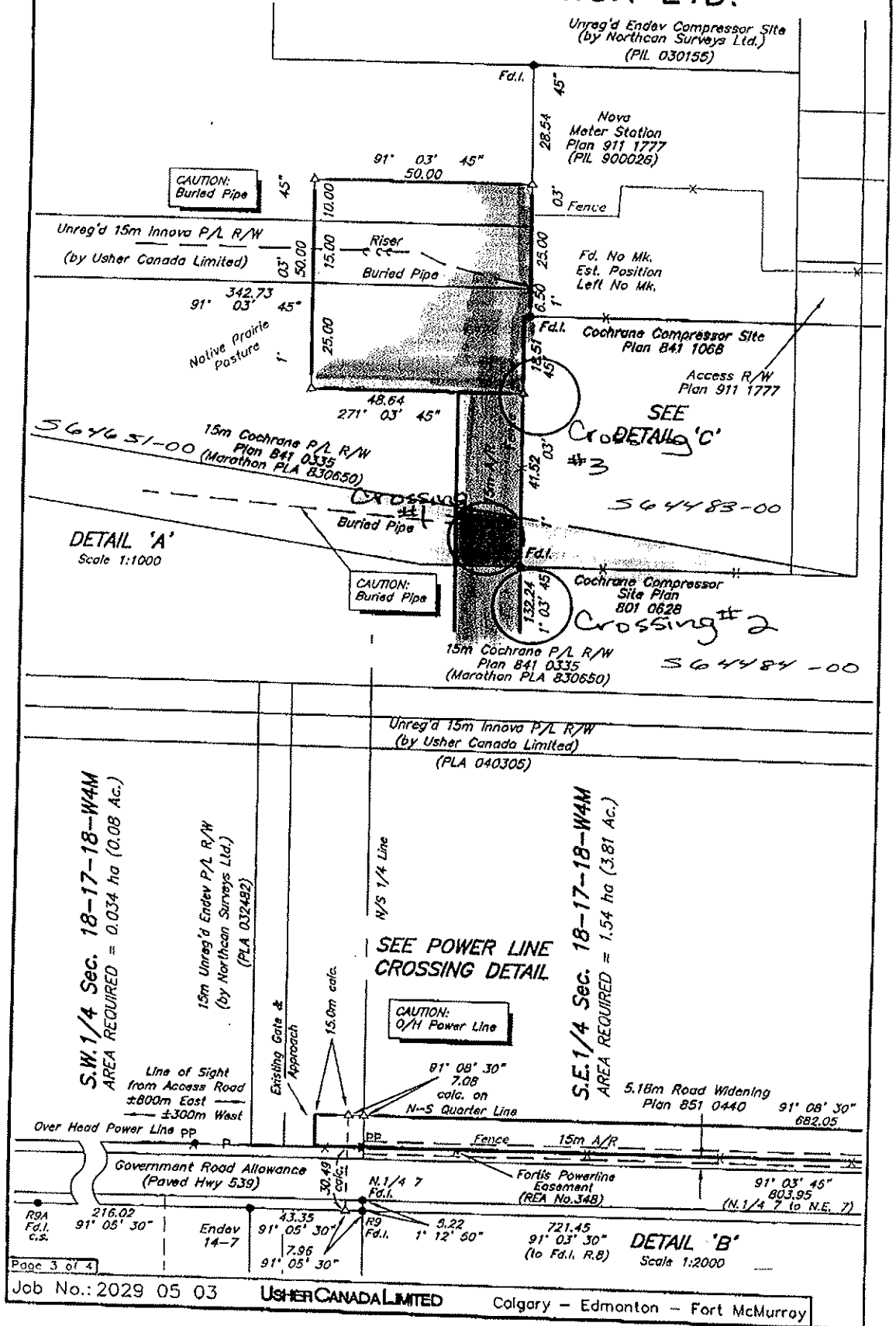
ALBERTA LAND SURVEYOR

File No. LA 269 -79



CAN-AM SURVEYS LTD.
216-Center Street North,
Calgary, Alberta
Phone 277-7584

INNOVA EXPLORATION LTD.





Appendix D


APRS Results of Search By Legal Description

Search is based on section. When ordering, please provide the **required project numbers** and a **more precise location** (i.e. site diagram, quarter section, legal subdivision or street address).

NEW--> Click on the hilited projects to download a zip file containing the photo centres for the project.

Legal Description (Sec. Twp. Rge. W Meridian): 01-18 - 17 - 18 - 4

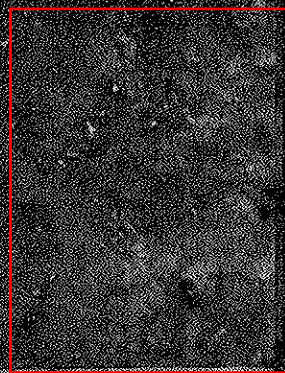
| Project No. | Sub. ID | Coverage (Partial/Complete) | Date | Scale (1:) | Emulsion | Comments |
|-------------|---------|-----------------------------|-----------------------------|------------|---------------|-------------------|
| * 99-032 P3 | 10 | C | 1999-05-06 ^{4 21} | 30000 | B/W Agfa-50 | |
| * 91-191 | 19 | C | 1991-00-00 ^{8 41} | 30000 | B/W PAN-150 | |
| 88-724+ | 1 | C | 1988-10-00 | 10000 | True Colour* | |
| 85-137 | 22 | C | 1985-06-00 | 30000 | B/W PAN-2405 | |
| * E85-002 | 1 | C | 1985-05-16 | 10000 | False Colour* | |
| * 81-065 | 3 | C | 1981-08-09 ²⁵ | 30000 | B/W Pan-2405 | |
| 81-167 82I | 2 | C | 1981-00-00 | 60000 | B/W Pan-2405 | extends into 82J |
| M77-82I08 5 | 1 | C | 1977-10-10 | 10000 | True Colour* | Mach Air Indicies |
| * E77-277 | 18 | C | 1977-00-00 ^{12 10} | 20000 | PAN 2405 | |
| * 70-119 | 15 | C | 1970-05-07 ^{04 05} | 31680 | PAN 2405 | |
| 70-322 82I | 2 | C | 1970-00-00 | 80000 | B/W Pan-2405 | |
| 62-82I | 2 | C | 1962-00-00 | 31680 | B/W | |
| 49-82I | 2 | C | 1949-00-00 | 40000 | B/W Super XX | Years 49-51? |

An aerial photograph showing a landscape with a dark, textured area on the left and a lighter, more uniform area on the right. A red rectangular box is drawn on the dark area, indicating a specific region of interest. The image is divided into four quadrants by a vertical and a horizontal line.

Pre-disturbance photograph-the
lease was not visible within the
surrounding area.

Location: 01-18-017-18 W4M
Date: April 5, 1970
Scale: 1:7,920

Pre-disturbance photograph-the
lease was not visible within the
surrounding area.



2500 12 OCT 77 MA 1204
A15/23 152 993 1-20000

Location: 01-18-017-18 W4M
Date: October 12, 1977
Scale: 1:5,000



Location: 01-18-017-18 W4M
Date: August 25, 1981
Scale: 1:7,500



85-5-16 KN.4 AS3152 78

Location: 01-18-017-18 W4M
Date: May 16, 1985
Scale: 1:5,000



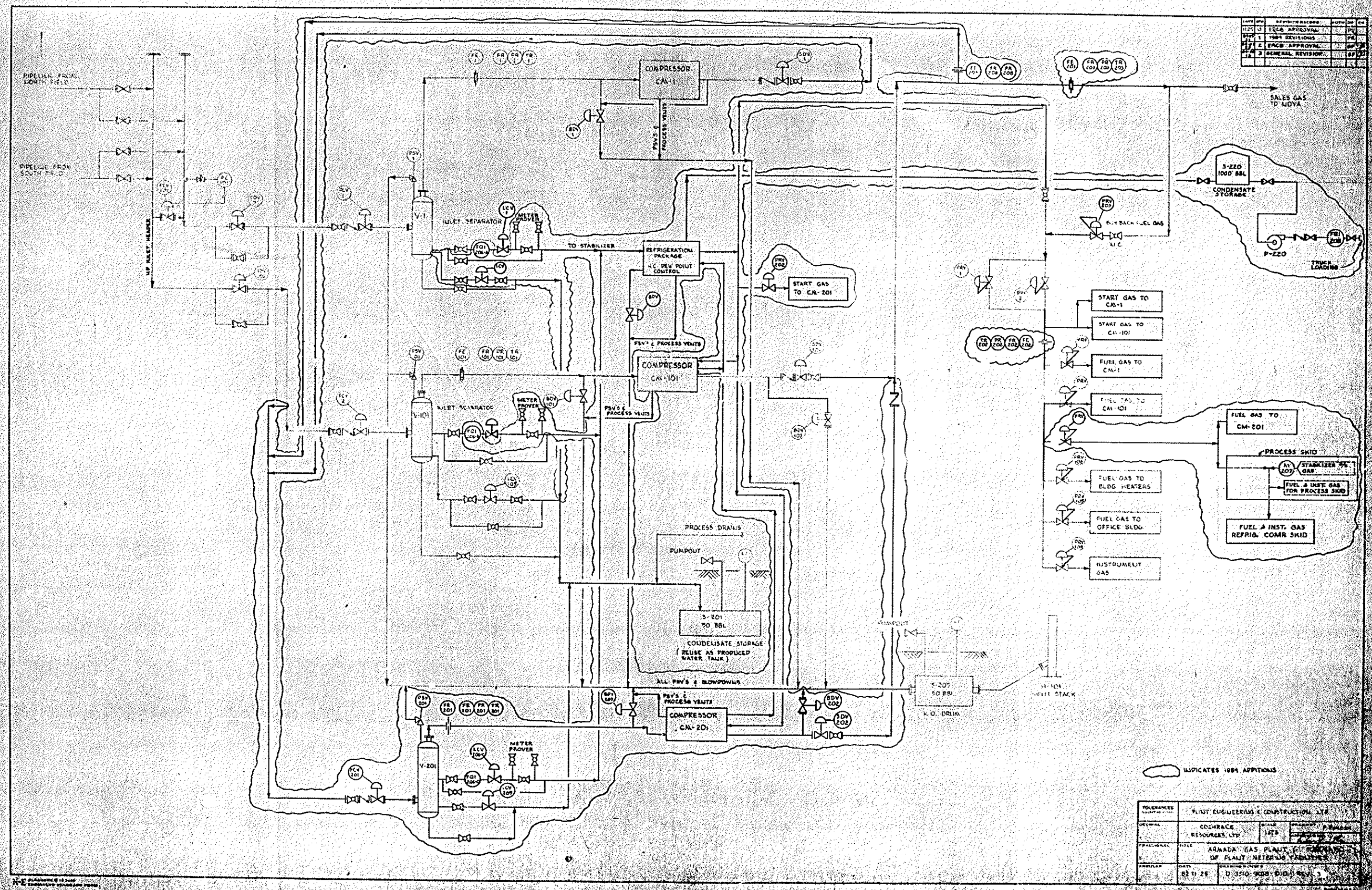
Location: 01-18-017-18 W4M
Date: August 4, 1991
Scale: 1:7,500

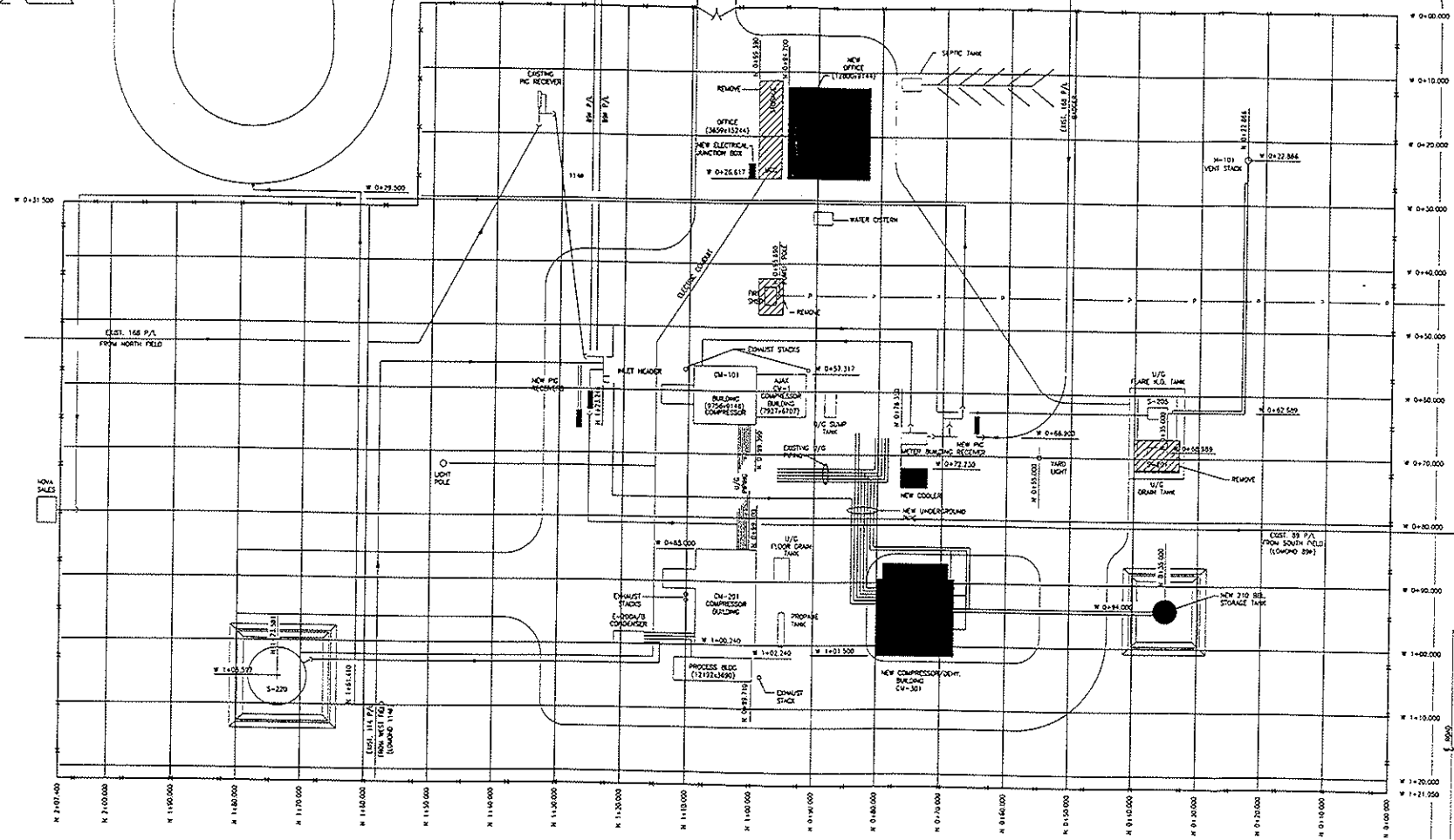


Location: 01-18-017-18 W4M
Date: April 24, 1999
Scale: 1:7,500



Appendix E





| NOTES | | | | | |
|---|------------|----------|------------------------------|-------|-------------|
| | I | 87-02-23 | AS BUILT AS PER FIELD MARKUP | MCH | /7 |
| | D | 87-04-14 | ISSUES FOR CONSTRUCTION | CN | |
| | C | 87-03-34 | GENERAL REVISION | RUC | |
| | B | 87-02-19 | GENERAL REVISION | SL | |
| | A | 87-02-28 | ISSUED FOR APPROVAL | SL | |
| FILE NAME: \\F:\P\2012\2012\DCM\BRI-10017.dwg | PLOT DATE: | 87-02-25 | | | |
| | NO | DATE | REASONS | DRAWN | CHEK. |
| | | | | | APPD. |
| | | | | | PLANT APPD. |



PERMIT TO PRACTICE
DESIGN ENGINEERING LTD.
Signed: *[Signature]*
Date: *Aug 15 / 97*
PERMIT NUMBER: P 3428
The Association of Professional Engineers
Consultants and Geoscientists of Alberta

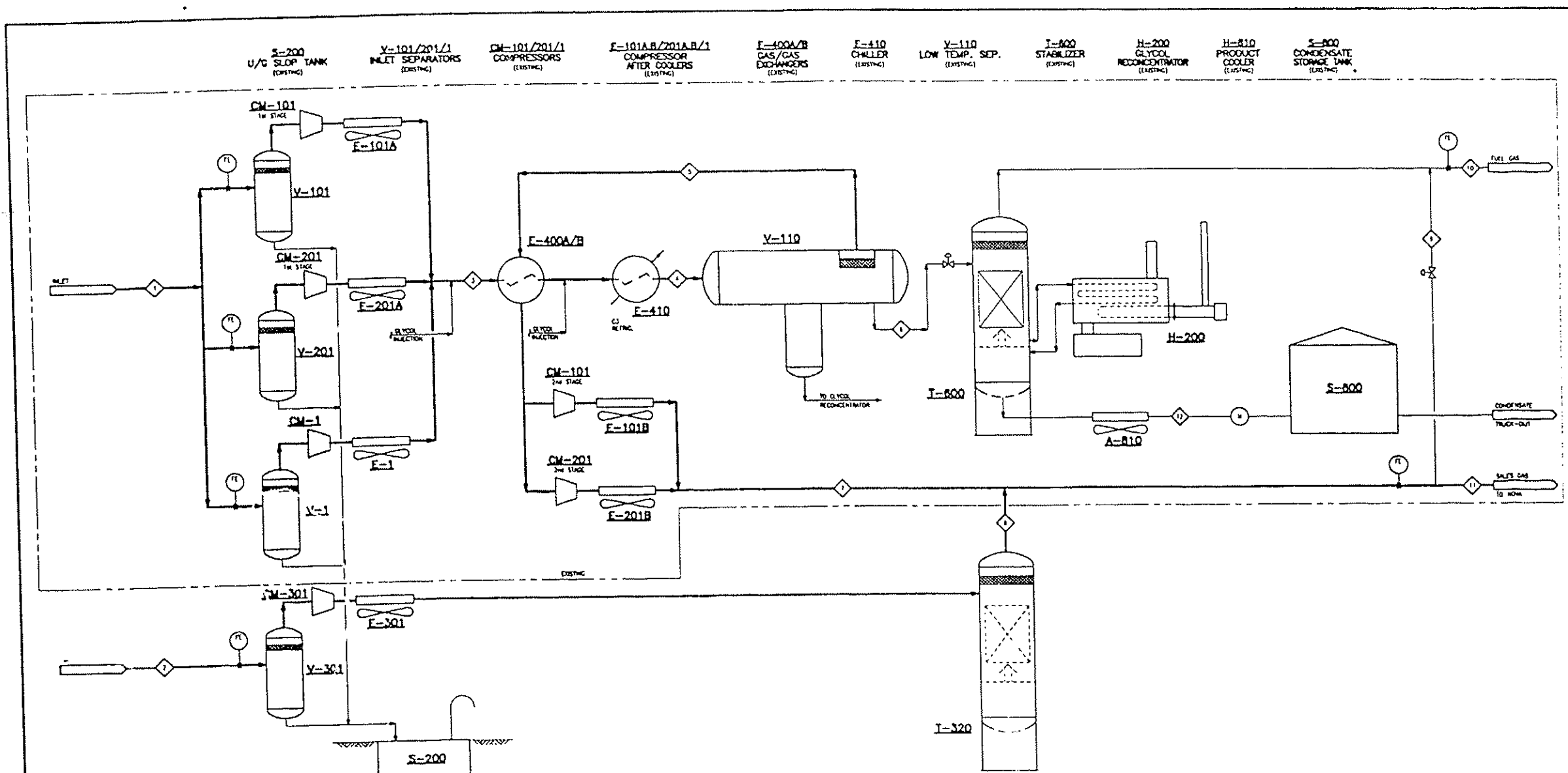
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|--------------------|-------|
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| SL | 97.02 |
| CHECKED: | DATE: |
| <i>[Signature]</i> | 97.0 |
| APPROVED: | |
| CLIENT APPROVAL: | |
| SCALE: | |
| 1:300 | |
| PROJECT NO: | |
| G96-132 | |

**Gemini
Engineering Ltd.**

PROJECT MANAGEMENT - DESIGN
CALGARY, ALBERTA

ARMADA EXPANSION
LSD 01-18-17-18 W41
PLOT PLAN

| | |
|-----------------|-----------------|
| CLIENT Dwg. No: | DESIGN Dwg. No: |
| - | G96-132-PP-001 |



| Stream Name | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Temperature, °F | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Pressure, psia | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Flow, m³/d | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Heat Flow, kW | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Latent Heat, kW | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

V-301 INLET SEPARATOR (PROPOSED)
 CM-301 COMPRESSOR (PROPOSED)
 E-301 COMPRESSOR AFTER COOLER (PROPOSED)
 I-320 DEHYDRATOR (PROPOSED)

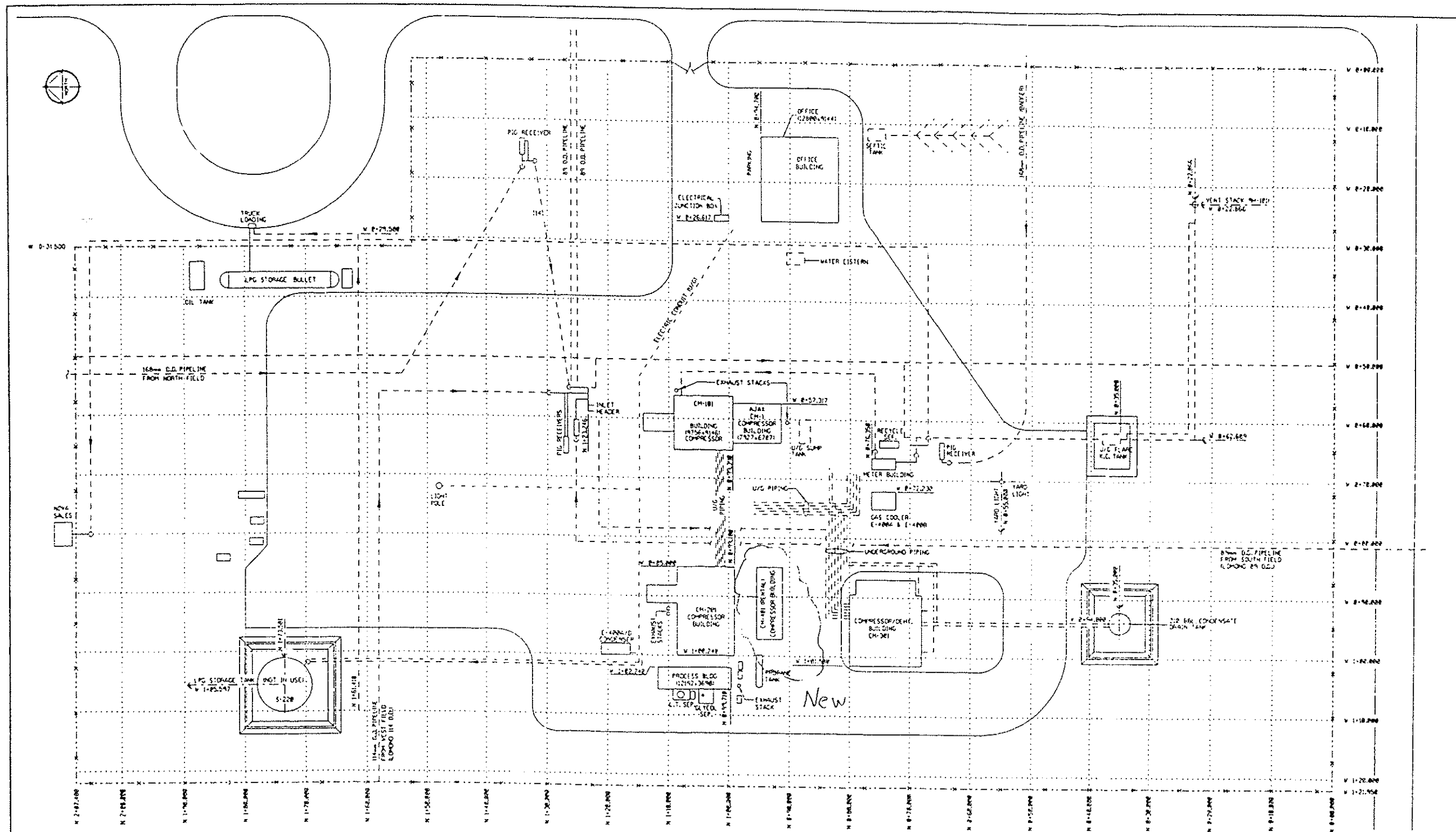
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 CLIENT DRC: []
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 CLIENT DRC: []

Gemini Engineering Ltd.
 PROJECT MANAGEMENT - DESIGN
 CALGARY, ALBERTA

AMINDA GAS PLANT EXPANSION
 LSX 01-18-17-18 WAM
 PROCESS FLOW DIAGRAM

PERMIT TO PRACTICE
 006-132-PTS-001
 REV: A

| NO. | DATE | REVISIONS | DRAWN | CHK. | APP. | CLIENT |
|-----|----------|-----------------------|-------|------|------|--------|
| 1 | 14-12-10 | ISSUED FOR EIR REVIEW | | | | |
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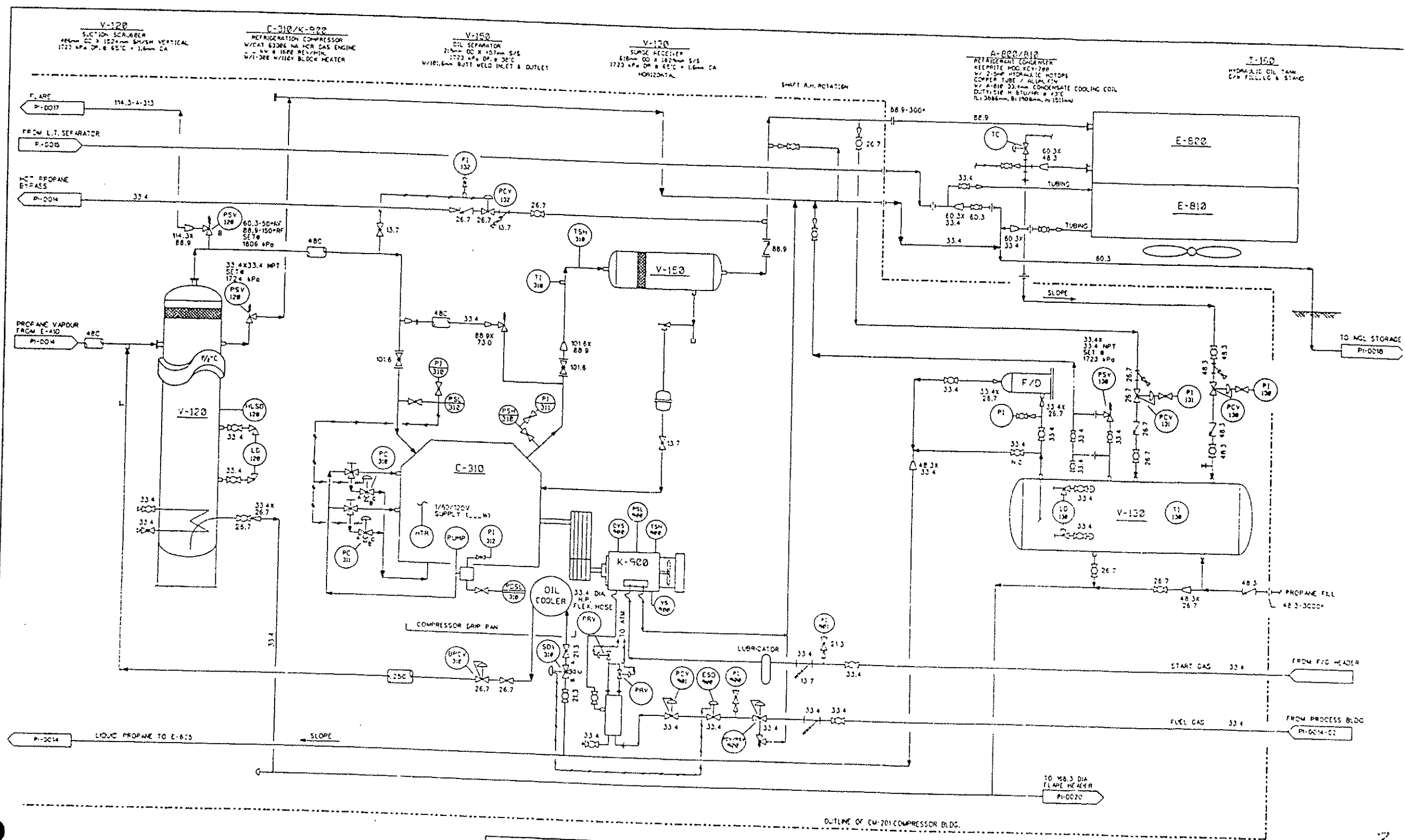


PREPARED BY:
Taxila GAS ENGINEERING LTD

| REF. NO. | REFERENCE DRAWING DESCRIPTION | REV. | REVISION HISTORY | REV. | DATE | ISSUED FOR | NO. | CURRENT REVISION | ISSUED FOR |
|----------|-------------------------------|------|------------------|------|------|------------|-----|---------------------|----------------|
| | | | | | | | | AS BUILT | 20/04/06-30 |
| | | | | | | | | SCALE: 1/8" = 1'-0" | 20/04/06-30 |
| | | | | | | | | ALTERNATE REVISION | |
| | | | | | | | | SURFACE 150 | 01-18-017-18W4 |
| | | | | | | | | DOCUMENT IDENTIFIER | PP-0001 |

Husky Energy

ARMADA GAS PLANT
 LSD 01-18-017-18W4
 PLOT PLAN



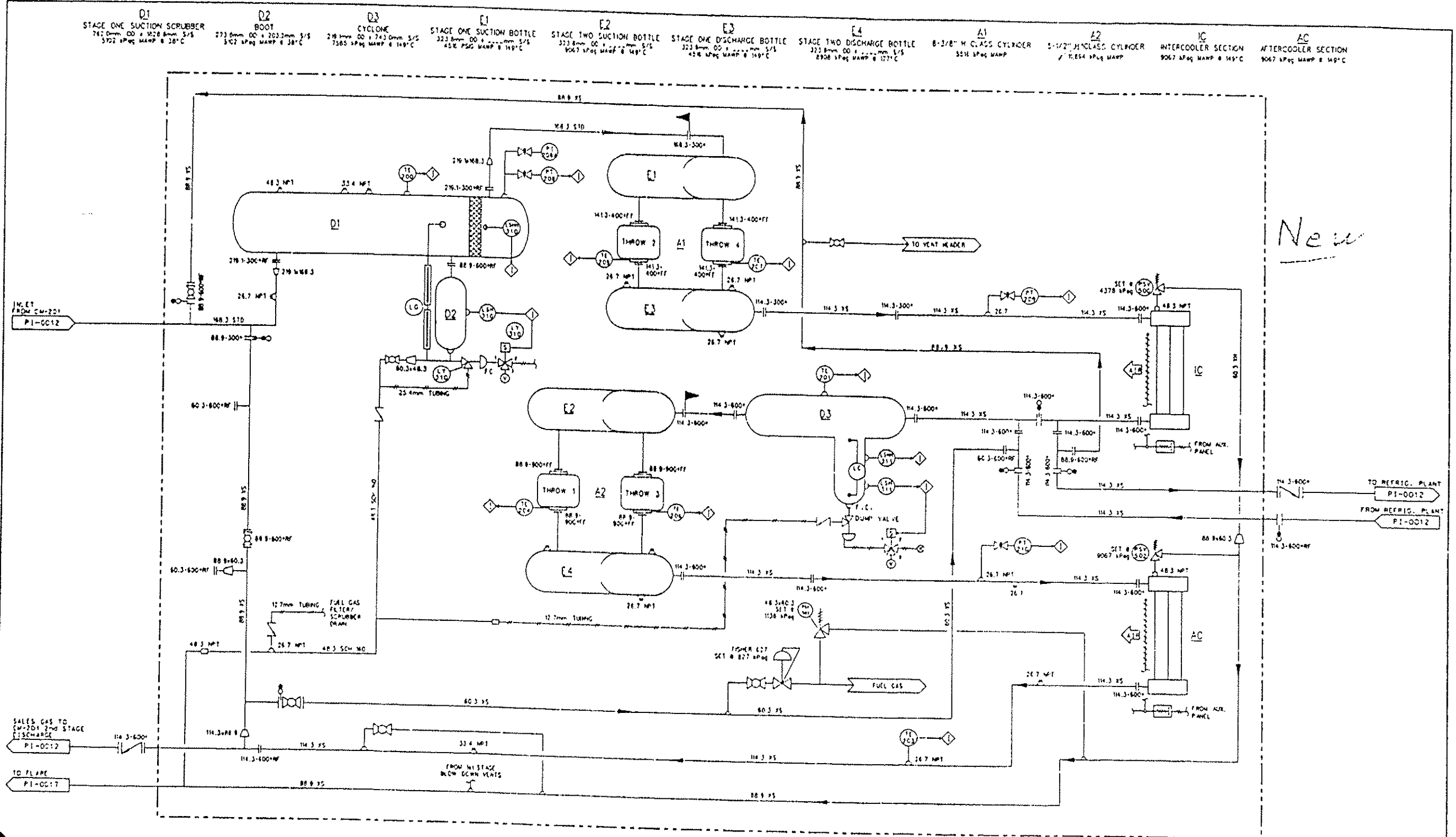
PREPARED BY:
Texaco GAS ENGINEERING LTD.

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Husky Energy
ARMADA GAS PLANT
LSD 01-18-017-18W4

SCALE: 1:10
DATE: 10/1/84
DRAWN BY: J. H. H. H.
CHECKED BY: J. H. H. H.
APPROVED BY: J. H. H. H.



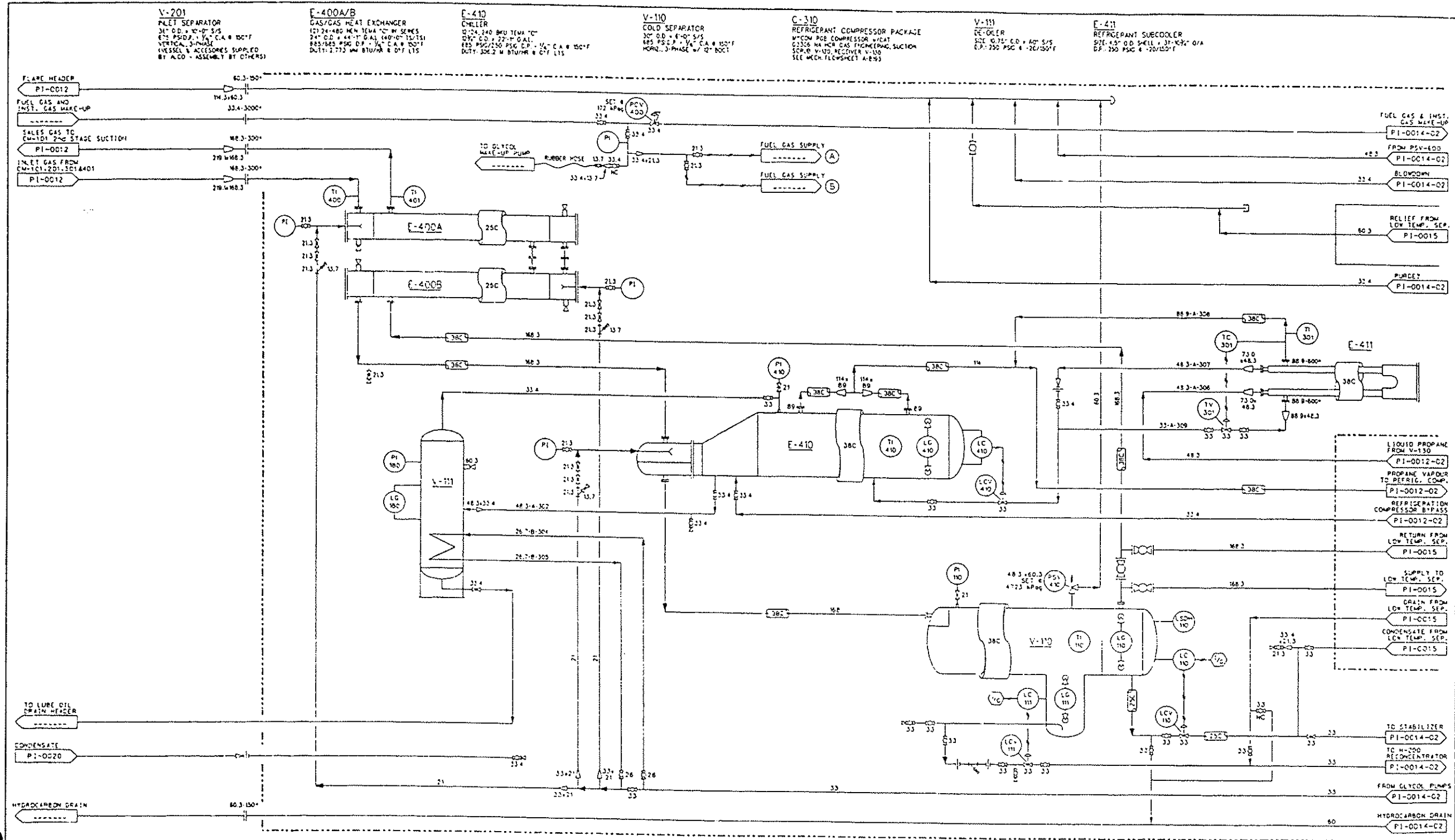
PREPARED BY:
Tuxila GAS ENGINEERING LTD

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Husky Energy

ARMADA GAS PLANT
 LSC U1-18-017-18W4
 CU-401 COMPRESSION LINE

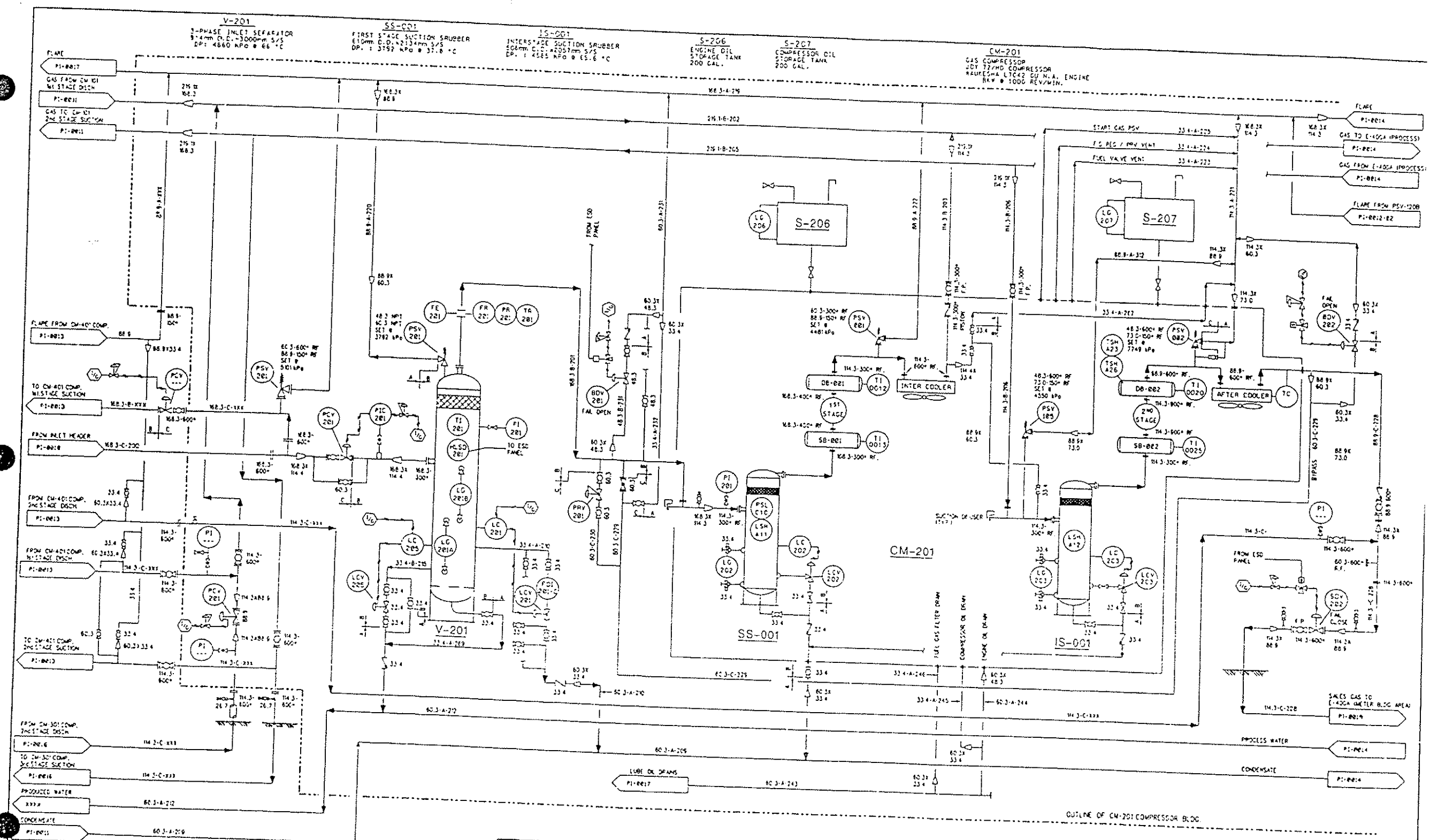
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|----------------------|-------------|
| REVISED FROM REV NO | AS BUILT |
| DOC DATE | 2004/07/06 |
| DOC AUTHOR | SEAN M. WAT |
| SCALE | AS SHOWN |
| ALTERNATE IDENTIFIER | |
| REVISION | |



| REF. Dwg. NO. | REFERENCE DRAWING DESCRIPTION | NO. | REVISION HISTORY | REV. AUTH. | REV. DATE | ISSUED FOR | NO. | CURRENT REVISION | ISSUED FOR |
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| | | | | | | | | | DOC DATE 2004/07/20 |
| | | | | | | | | | DOC AUTH. BEER, BRIAN |
| | | | | | | | | | SCALE NTS |
| | | | | | | | | | ALTERNATE IDENTIFIER |
| | | | | | | | | | SUPPLY L&D 01-18-017-1804 |
| | | | | | | | | | DOCUMENT IDENTIFIER P3-0014 |

PREPARED BY:
TURTEL GAS ENGINEERING LTD.

Husky Energy
ARMADA GAS PLANT
LSD 01-18-017-1804
REFRIGERATION UNIT AREA (SHEET 1 OF 2)
PROCESS & INSTRUMENTATION DIAGRAM

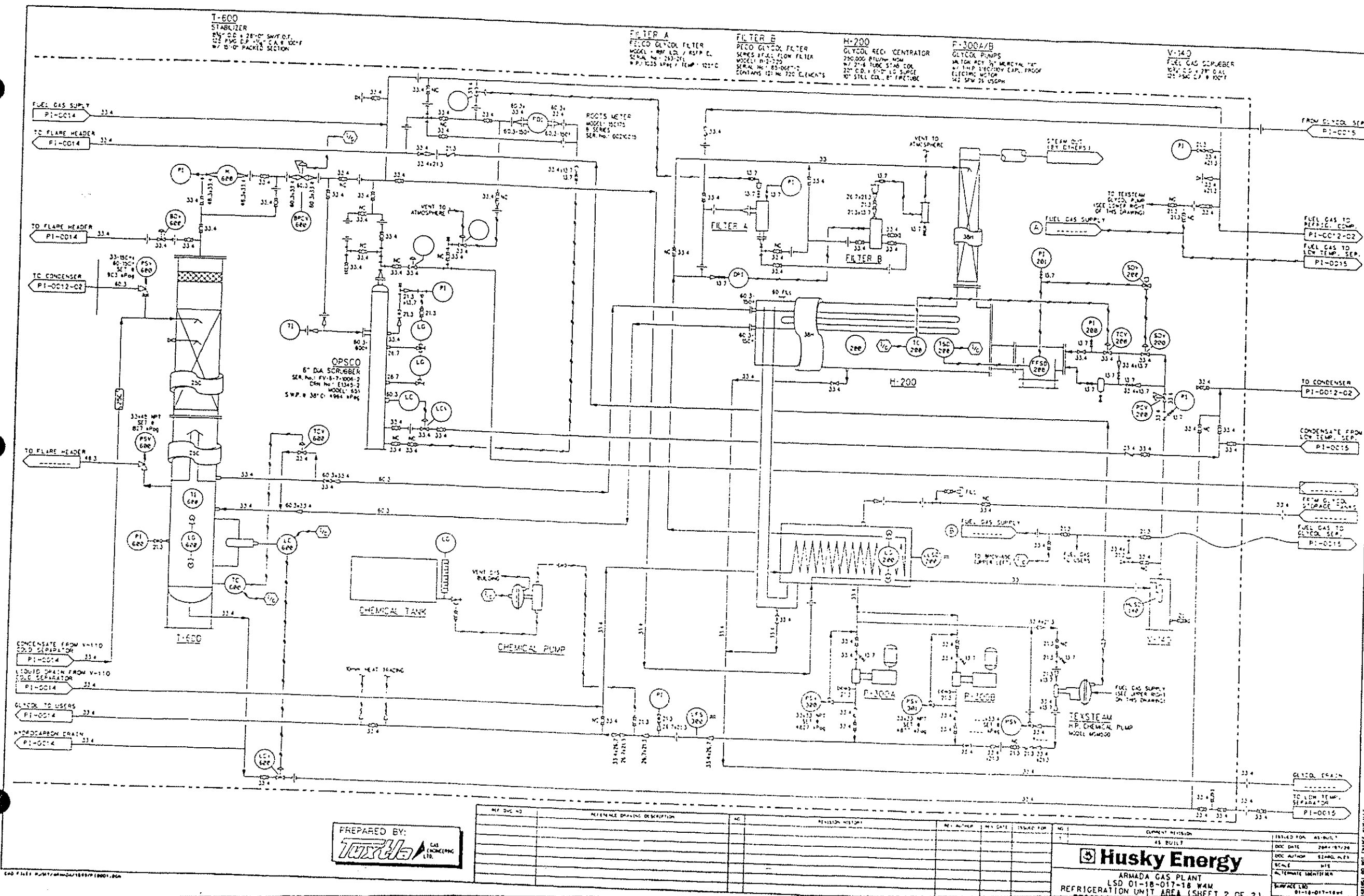


PREPARED BY:
Tuxila
ENGINEERING LTD


| REV | DATE | DESCRIPTION | NO | REVISION HISTORY | REV | DATE | ISSUED FOR | NO | CURRENT REVISION | ISSUED FOR |
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| | | | | | | | | | | SCALE |
| | | | | | | | | | | ALTERNATE IDENTIFIER |
| | | | | | | | | | | PROJECT NO. |

Husky Energy

ARMADA GAS PLANT
LSD 01-18-017-18V1



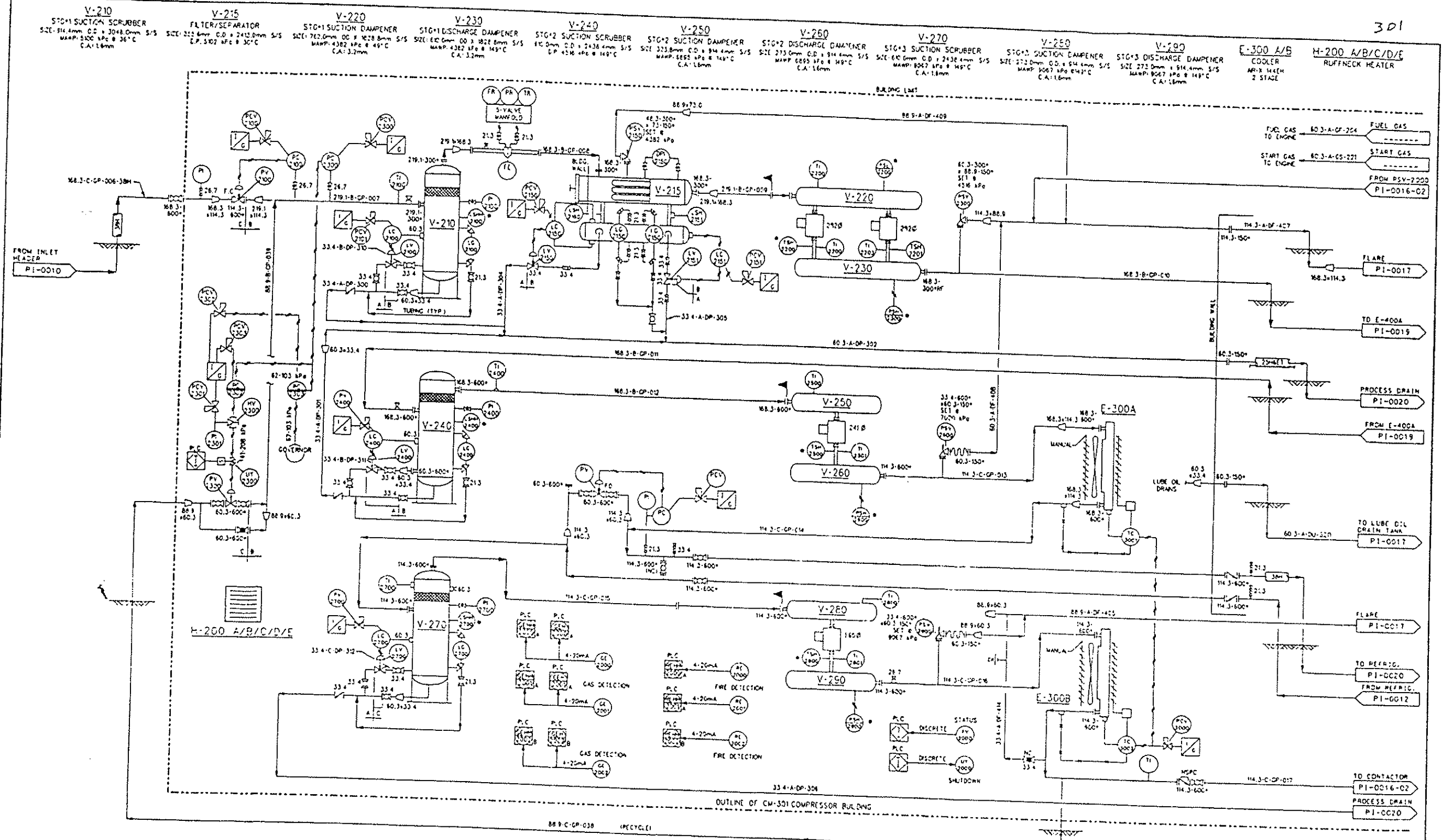
PREPARED BY:
Tux Ho CAS ENGINEERING LTD.

[illegible]

Husky Energy

ARMADA GAS PLANT
LSD 01-18-017-18 W4M
REFRIGERATION UNIT AREA (SHEET 2 OF 2)

| | |
|-------------------------|--------------|
| ISSUED FOR | AS-BUL |
| DOC DATE | 2004-09 |
| DOC AUTHOR | SIABO |
| SCALE | N/E |
| INTERMEDIATE IDENTIFIER | |
| PLANTACE LIB | |
| | 01-10-017-10 |



NOTES
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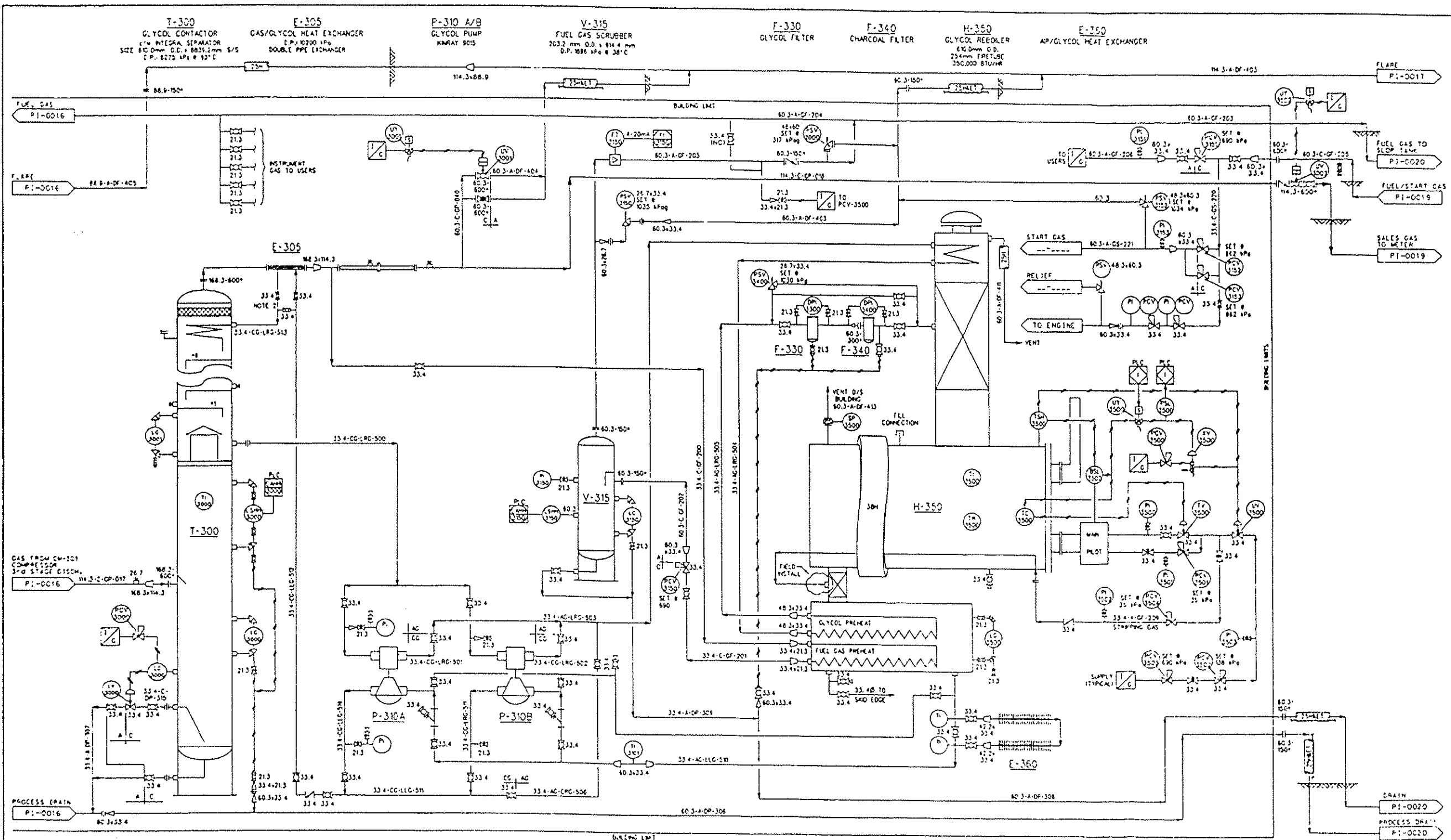
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GAS ENGINEERING LTD.

| REV. NO. | DESCRIPTION | DATE | BY | CHKD. |
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Husky Energy

ARMADIA GAS PLANT
LSD 01-16-017-18 W4M

| REV. NO. | DESCRIPTION | DATE | BY | CHKD. |
|----------|-------------|------|----|-------|
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PREPARED BY:
Tuxila GAS ENGINEERING LTD.

| REF. Dwg. NO. | REFERENCE DRAWING DESCRIPTION | NO. | REVISION HISTORY | REV. AUTHOR | REV. DATE | ISSUED FOR | NO. |
|---------------|-------------------------------|-----|------------------|-------------|-----------|------------|-----|
| | | 1 | | | | | 1 |

Husky Energy

ARMADA GAS PLANT
 LSD 01-18-017-18W4
 CM-301 COMPRESSOR AREA (SMT. 2 OF 2)
 PROCESS & INSTRUMENTATION DIAGRAM

| FILED FOR | AS BUILT |
|----------------------|----------------|
| DWG. DATE | 27/01/2018 |
| DWG. AUTHOR | BEHRE DRYAN |
| SCALE | N/A |
| ALTERNATE IDENTIFIER | |
| SOURCE (LSD) | 01-18-017-18W4 |
| DOCUMENT IDENTIFIER | PI-0018-02 |

H-101
VENT STACK
SIZE: 219 mm O.D. x 11877 mm H.T.
C/W 88.9 mm O.D. KGM7ER-TUB



| REF. DOC. NO. | REFERENCE DRAWING DESCRIPTION | NO. | REVISION HISTORY | REV. NUMBER | REV. DATE | ISSUED FOR | NO. | CURRENT REVISION | ISSUED FOR AS BUILT |
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| | | | | | | | 1 | AS BUILT | ISSUED FOR AS BUILT |
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| | | | | | | | | | DOE APPROV. 01402 ALLES |
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| | | | | | | | | | WORKING SET |
| | | | | | | | | | DATE 01-10-07-1004 |
| | | | | | | | | | REVISION HISTORY |

Husky Energy

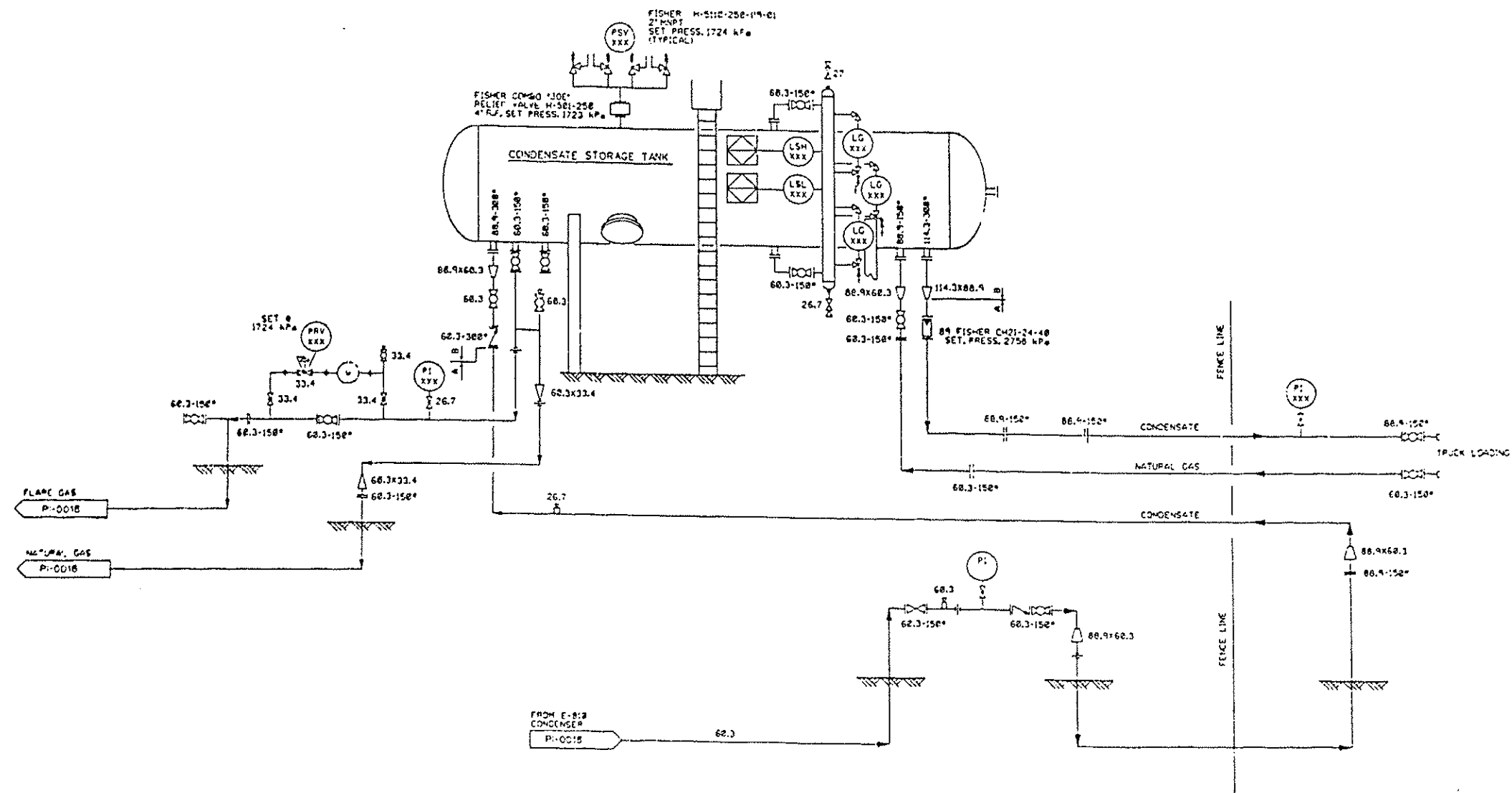
ARNADA GAS PLANT

1SD 01-10-017-18-N4M

SYSTEM & OIL DRAIN

PROCESS & INSTRUMENTATION DIAGRAM

CONDENSATE STORAGE TANK
 DIA 2743mm LG 5556mm
 SHELL 19.75mm SA 16.70
 HEAD 19.62mm SAS 6.70
 W.P. 1224 kPa 4 48 °C
 C.A. 10mm



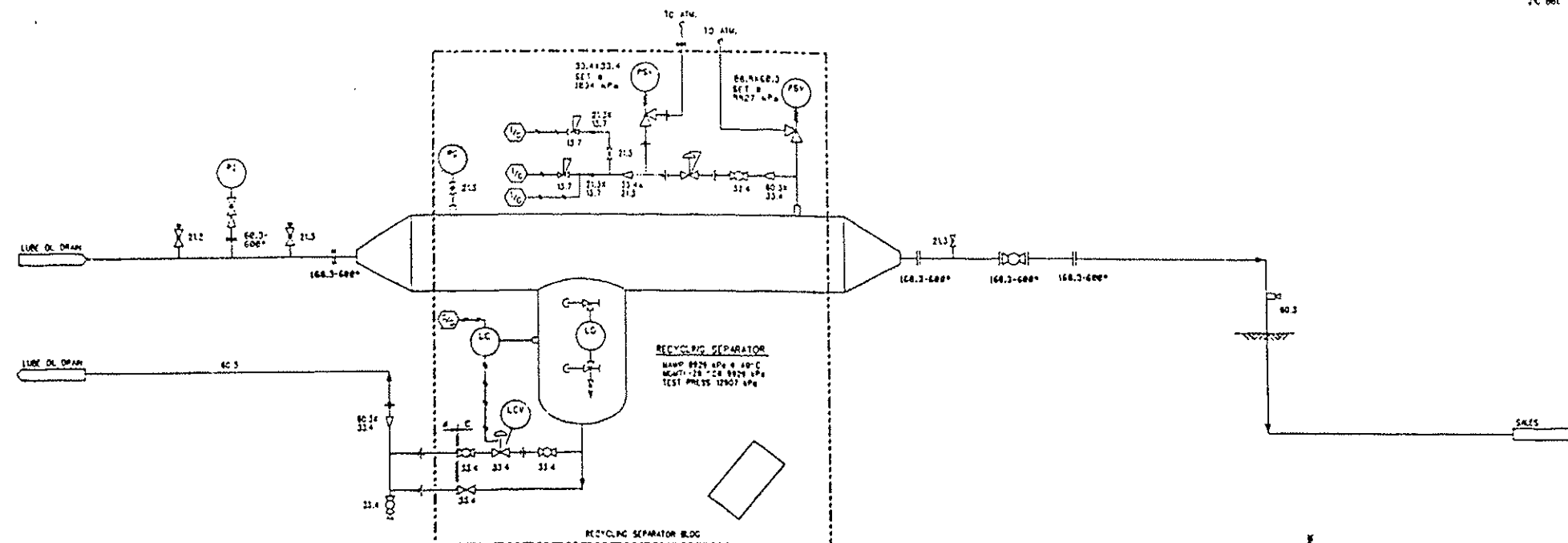
PREPARED BY:
Tuxila

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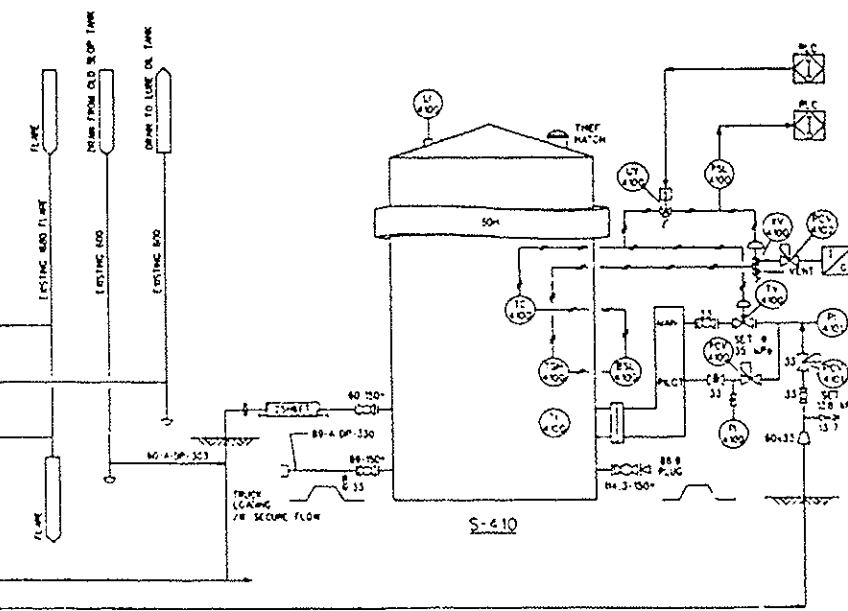
Husky Energy

ARMADA GAS PLANT
 LSD 01-18-017-18W4M
 CONDENSATE STORAGE AREA

S-410
SLOP TANK
2" O.D.



FLAME 60-A-OP-402
P-DC-19
LUBE OIL DRAIN 60-A-513
P-DC-19
FLAME 60-A-519
P-DC-19
FLAME 104.3-A-OP-403
P-DC-19
DRAIN 60.3-A-OP-304
P-DC-19
DRAIN 60.3-A-OP-304
P-DC-19
DRAIN 60.3-A-OP-302
P-DC-19
FLAME 60.3-A-OP-303
P-DC-19



PREPARED BY:
TOX
LSE
LSC

| REF. DNG. NO. | REFERENCE DRAWING DESCRIPTION | NO. | REVISION HISTORY | REF. AUTHOR | REF. DATE | ISSUED FOR | NO. | CURRENT REVISION | ISSUED FROM AS-BUILT |
|---------------|-------------------------------|-----|------------------|-------------|-----------|------------|-----|------------------|------------------------|
| | | | | | | | | AS BUILT | DOC DATE 2004-07-26 |
| | | | | | | | | | DOC AUTHN: E&M: M.E.R. |
| | | | | | | | | | SCALE: NTS |
| | | | | | | | | | ALTERNATE IDENTIFIER |
| | | | | | | | | | SURFACE LTO |
| | | | | | | | | | BY: 100-011-1004 |
| | | | | | | | | | DOCUMENT IDENTIFIER |
| | | | | | | | | | P1-0020 |

Husky Energy
ARMADA GAS PLANT
LSD 01-18-017-18V4
RECYCLE SEP. & SLOP TANK
PROCESS & INSTRUMENTATION DIAGRAM

Armada 1-18-17-18w4 GP SEIM List

| Count of Description | Cond | | |
|----------------------|------|-----|-------------|
| Class | A | B | Grand Total |
| ATV | | 1 | 1 |
| BUILDING | | 9 | 9 |
| BULLET | | 1 | 1 |
| CATH_PROT | | 1 | 1 |
| COMP_RECIP | | 6 | 6 |
| CONTROL_PANEL | | 6 | 6 |
| CONTROL_SYSTEM | | 1 | 1 |
| DAMPENER | | 20 | 20 |
| DEHYDRATOR | | 1 | 1 |
| DRUM | | 2 | 2 |
| ESD_VALVE | | 7 | 7 |
| FILTER | | 5 | 5 |
| FIRE_DET | | 6 | 6 |
| GAS_DET | | 8 | 8 |
| HEAT_EX_AIR_COOLED | | 19 | 19 |
| HEAT_EX_SHELL_TUBE | | 3 | 3 |
| HEATER_DIR_FIRED | | 2 | 2 |
| LIFT | | 11 | 11 |
| MCC | | 1 | 1 |
| METER | | 1 | 1 |
| METER_RUN | | 6 | 6 |
| PACKAGE | | 11 | 11 |
| PM_ELECTRIC_MOTOR | 2 | 4 | 6 |
| PM_RECIPROCATING | | 6 | 6 |
| PSV | 2 | 44 | 46 |
| PUMP_CENTRIFUGAL | 1 | 1 | 2 |
| PUMP_RECIP | | 2 | 2 |
| RADIO_SYSTEM | | 1 | 1 |
| SCRUBBER | | 17 | 17 |
| SEPARATOR | | 14 | 14 |
| TANK | | 5 | 5 |
| TOWER | | 1 | 1 |
| TRANSFORMER | | 1 | 1 |
| Grand Total | 5 | 224 | 229 |

Equipment List

Armada Gas Plant 01-18-017-18 W4M

| Count of Cond | | |
|--|---------------|-------|
| Description | Class | Total |
| ATV, QUAD POLARIS | ATV | 1 |
| ATV, QUAD POLARIS Total | | 1 |
| BUILDING, COMPRESSOR | BUILDING | 5 |
| BUILDING, COMPRESSOR Total | | 5 |
| BUILDING, OFFICE | BUILDING | 1 |
| BUILDING, OFFICE Total | | 1 |
| BUILDING, REFRIDGE | BUILDING | 1 |
| BUILDING, REFRIDGE Total | | 1 |
| BUILDING, SALES METER | BUILDING | 1 |
| BUILDING, SALES METER Total | | 1 |
| BUILDING, SEPARATOR | BUILDING | 1 |
| BUILDING, SEPARATOR Total | | 1 |
| BULLET, LPG | BULLET | 1 |
| BULLET, LPG Total | | 1 |
| CATHODIC PROTECTION SYSTEMS, PANEL | CATH_PROT | 1 |
| CATHODIC PROTECTION SYSTEMS, PANEL Total | | 1 |
| COMP - RECIP, AJAX | COMP_RECIP | 1 |
| COMP - RECIP, AJAX Total | | 1 |
| COMP - RECIP, PROPANE | COMP_RECIP | 1 |
| COMP - RECIP, PROPANE Total | | 1 |
| COMP - RECIP, W.S. MW64 | COMP_RECIP | 1 |
| COMP - RECIP, W.S. MW64 Total | | 1 |
| COMPRESSOR - RECIPROCATING | COMP_RECIP | 1 |
| COMPRESSOR - RECIPROCATING Total | | 1 |
| COMPRESSOR - RECIPROCATING, JOY | COMP_RECIP | 2 |
| COMPRESSOR - RECIPROCATING, JOY Total | | 2 |
| CONTROL PANEL, 101 | CONTROL_PANEL | 1 |
| CONTROL PANEL, 101 Total | | 1 |
| CONTROL PANEL, 201 | CONTROL_PANEL | 1 |
| CONTROL PANEL, 201 Total | | 1 |
| CONTROL PANEL, 301 | CONTROL_PANEL | 1 |
| CONTROL PANEL, 301 Total | | 1 |
| CONTROL PANEL, 401 | CONTROL_PANEL | 1 |

| | | |
|--|------------------|---|
| CONTROL PANEL, 401 Total | | 1 |
| CONTROL PANEL, GAS COMPRESSOR | CONTROL_PANEL | 1 |
| CONTROL PANEL, GAS COMPRESSOR Total | | 1 |
| CONTROL PANEL, REFRIDGE COMPRESSOR | CONTROL_PANEL | 1 |
| CONTROL PANEL, REFRIDGE COMPRESSOR Total | | 1 |
| CONTROL SYSTEM, PLC | CONTROL_SYSTEM | 1 |
| CONTROL SYSTEM, PLC Total | | 1 |
| DAMPENER, 1ST STAGE DISCHARGE | DAMPENER | 5 |
| DAMPENER, 1ST STAGE DISCHARGE Total | | 5 |
| DAMPENER, 1ST STAGE SUCTION | DAMPENER | 5 |
| DAMPENER, 1ST STAGE SUCTION Total | | 5 |
| DAMPENER, 2ND STAGE DISCHARGE | DAMPENER | 4 |
| DAMPENER, 2ND STAGE DISCHARGE Total | | 4 |
| DAMPENER, 2ND STAGE SUCTION | DAMPENER | 4 |
| DAMPENER, 2ND STAGE SUCTION Total | | 4 |
| DAMPENER, 3RD STAGE DISCHARGE | DAMPENER | 1 |
| DAMPENER, 3RD STAGE DISCHARGE Total | | 1 |
| DAMPENER, 3RD STAGE SUCTION | DAMPENER | 1 |
| DAMPENER, 3RD STAGE SUCTION Total | | 1 |
| DEHYDRATOR, GLYCOL | DEHYDRATOR | 1 |
| DEHYDRATOR, GLYCOL Total | | 1 |
| DRUM, ODORANT | DRUM | 1 |
| DRUM, ODORANT Total | | 1 |
| DRUM, PROPANE SURGE | DRUM | 1 |
| DRUM, PROPANE SURGE Total | | 1 |
| ENGINE, GAS AJAX DPC230 | PM_RECIPROCATING | 1 |
| ENGINE, GAS AJAX DPC230 Total | | 1 |
| ENGINE, GAS CAT 3306NA | PM_RECIPROCATING | 1 |
| ENGINE, GAS CAT 3306NA Total | | 1 |
| ENGINE, GAS CAT 3512 LE | PM_RECIPROCATING | 1 |
| ENGINE, GAS CAT 3512 LE Total | | 1 |
| ENGINE, GAS WAUKESHA 7042GU | PM_RECIPROCATING | 2 |
| ENGINE, GAS WAUKESHA 7042GU Total | | 2 |
| ENGINE, GAS WHITE SUPERIOR 8GTL | PM_RECIPROCATING | 1 |
| ENGINE, GAS WHITE SUPERIOR 8GTL Total | | 1 |
| ESD VALVE, AJAX INLET GAS LINE | ESD_VALVE | 1 |
| ESD VALVE, AJAX INLET GAS LINE Total | | 1 |

| | | |
|--|------------------|---|
| ESD VALVE, C101 & C201 COMPRESSOR INLET | ESD_VALVE | 1 |
| ESD VALVE, C101 & C201 COMPRESSOR INLET Total | | 1 |
| ESD VALVE, C301 COMPRESSOR INLET GAS LIN | ESD_VALVE | 1 |
| ESD VALVE, C301 COMPRESSOR INLET GAS LIN Total | | 1 |
| ESD VALVE, DISCHARGE | ESD_VALVE | 1 |
| ESD VALVE, DISCHARGE Total | | 1 |
| ESD VALVE, SALES GAS | ESD_VALVE | 2 |
| ESD VALVE, SALES GAS Total | | 2 |
| ESD VALVE, SALES LINE | ESD_VALVE | 1 |
| ESD VALVE, SALES LINE Total | | 1 |
| FILTER, 1ST STAGE INLET | FILTER | 1 |
| FILTER, 1ST STAGE INLET Total | | 1 |
| FILTER, FUEL GAS | FILTER | 3 |
| FILTER, FUEL GAS Total | | 3 |
| FILTER, GLYCOL # 1 | FILTER | 1 |
| FILTER, GLYCOL # 1 Total | | 1 |
| FILTER, GLYCOL # 2 | FILTER | 1 |
| FILTER, GLYCOL # 2 Total | | 1 |
| FIRE DETECTION | FIRE_DET | 2 |
| FIRE DETECTION Total | | 2 |
| FIRE DETECTION, #1 | FIRE_DET | 4 |
| FIRE DETECTION, #1 Total | | 4 |
| GAS DETECTION | GAS_DET | 2 |
| GAS DETECTION Total | | 2 |
| GAS DETECTION, #1 | GAS_DET | 4 |
| GAS DETECTION, #1 Total | | 4 |
| GAS DETECTION, H2S | GAS_DET | 1 |
| GAS DETECTION, H2S Total | | 1 |
| GAS DETECTION, H2S #1 | GAS_DET | 1 |
| GAS DETECTION, H2S #1 Total | | 1 |
| GAS DETECTION, H2S HEADER 1-1 | GAS_DET | 1 |
| GAS DETECTION, H2S HEADER 1-1 Total | | 1 |
| HEATER - DIRECT FIRED, (NON CODE) | HEATER_DIR_FIRED | 1 |
| HEATER - DIRECT FIRED, (NON CODE) Total | | 1 |
| HEATER - DIRECT FIRED, GAS BUR(NON CODE) | HEATER_DIR_FIRED | 1 |
| HEATER - DIRECT FIRED, GAS BUR(NON CODE) Total | | 1 |
| HOIST, 1 TON OVERHEAD # 1 | LIFT | 1 |

| | | |
|--|--------------------|---|
| HOIST, 1 TON OVERHEAD # 1 Total | | 1 |
| HOIST, 3 TON OVERHEAD # 1 | LIFT | 3 |
| HOIST, 3 TON OVERHEAD # 1 Total | | 3 |
| HOIST, 3 TON OVERHEAD # 2 | LIFT | 3 |
| HOIST, 3 TON OVERHEAD # 2 Total | | 3 |
| HOIST, OVERHEAD # 1 | LIFT | 1 |
| HOIST, OVERHEAD # 1 Total | | 1 |
| HOIST, OVERHEAD BRIDGE | LIFT | 3 |
| HOIST, OVERHEAD BRIDGE Total | | 3 |
| HT EXCH - AIR COOLED, 1ST STAGE DISCH | HEAT_EX_AIR_COOLED | 3 |
| HT EXCH - AIR COOLED, 1ST STAGE DISCH Total | | 3 |
| HT EXCH - AIR COOLED, 2ND STAGE DISCH | HEAT_EX_AIR_COOLED | 4 |
| HT EXCH - AIR COOLED, 2ND STAGE DISCH Total | | 4 |
| HT EXCH - AIR COOLED, 3RD STAGE DISCH | HEAT_EX_AIR_COOLED | 1 |
| HT EXCH - AIR COOLED, 3RD STAGE DISCH Total | | 1 |
| HT EXCH - AIR COOLED, EJW (NON CODE) | HEAT_EX_AIR_COOLED | 4 |
| HT EXCH - AIR COOLED, EJW (NON CODE) Total | | 4 |
| HT EXCH - AIR COOLED, EJW(NON CODE | HEAT_EX_AIR_COOLED | 1 |
| HT EXCH - AIR COOLED, EJW(NON CODE Total | | 1 |
| HT EXCH - AIR COOLED, ENG AUX (NON CODE) | HEAT_EX_AIR_COOLED | 1 |
| HT EXCH - AIR COOLED, ENG AUX (NON CODE) Total | | 1 |
| HT EXCH - AIR COOLED, GAS | HEAT_EX_AIR_COOLED | 1 |
| HT EXCH - AIR COOLED, GAS Total | | 1 |
| HT EXCH - AIR COOLED, PROPANE CONDENSER | HEAT_EX_AIR_COOLED | 1 |
| HT EXCH - AIR COOLED, PROPANE CONDENSER Total | | 1 |
| HT EXCH - AIR COOLED, SALES GAS | HEAT_EX_AIR_COOLED | 1 |
| HT EXCH - AIR COOLED, SALES GAS Total | | 1 |
| HT EXCH - S&T, 1ST STAGE | HEAT_EX_SHELL_TUBE | 1 |
| HT EXCH - S&T, 1ST STAGE Total | | 1 |
| HT EXCH - S&T, CHILLER | HEAT_EX_SHELL_TUBE | 1 |
| HT EXCH - S&T, CHILLER Total | | 1 |
| HT EXCH - S&T, GAS / GAS | HEAT_EX_SHELL_TUBE | 1 |
| HT EXCH - S&T, GAS / GAS Total | | 1 |
| HT EXCH - S&T, HEAT TUBE SIDE | HEAT_EX_SHELL_TUBE | 1 |
| HT EXCH - S&T, HEAT TUBE SIDE Total | | 1 |
| MCC, PANEL | MCC | 1 |
| MCC, PANEL Total | | 1 |

| | | |
|---|-------------------|---|
| METER RUN | METER_RUN | 2 |
| METER RUN Total | | 2 |
| METER RUN, CONDENSATE SEPARATOR | METER_RUN | 1 |
| METER RUN, CONDENSATE SEPARATOR Total | | 1 |
| METER RUN, FUEL GAS | METER_RUN | 1 |
| METER RUN, FUEL GAS Total | | 1 |
| METER RUN, INLET GAS | METER_RUN | 1 |
| METER RUN, INLET GAS Total | | 1 |
| METER RUN, SALES | METER_RUN | 1 |
| METER RUN, SALES Total | | 1 |
| METER, INLET GAS | METER | 1 |
| METER, INLET GAS Total | | 1 |
| MOTOR, ELECTRIC, # 1 GLYCOL PUMP | PM_ELECTRIC_MOTOR | 1 |
| MOTOR, ELECTRIC, # 1 GLYCOL PUMP Total | | 1 |
| MOTOR, ELECTRIC, # 2 GLYCOL PUMP | PM_ELECTRIC_MOTOR | 1 |
| MOTOR, ELECTRIC, # 2 GLYCOL PUMP Total | | 1 |
| MOTOR, PROPANE CONDESOR NORTH FAN | PM_ELECTRIC_MOTOR | 1 |
| MOTOR, PROPANE CONDESOR NORTH FAN Total | | 1 |
| MOTOR, PROPANE CONDESOR SOUTH FAN | PM_ELECTRIC_MOTOR | 1 |
| MOTOR, PROPANE CONDESOR SOUTH FAN Total | | 1 |
| MOTOR, SALES GAS, 1ST STAGE C301 | PM_ELECTRIC_MOTOR | 2 |
| MOTOR, SALES GAS, 1ST STAGE C301 Total | | 2 |
| PACKAGE, BULLET - LPG | PACKAGE | 1 |
| PACKAGE, BULLET - LPG Total | | 1 |
| PACKAGE, COMPRESSOR 401 | PACKAGE | 1 |
| PACKAGE, COMPRESSOR 401 Total | | 1 |
| PACKAGE, COMPRESSOR AJAX | PACKAGE | 1 |
| PACKAGE, COMPRESSOR AJAX Total | | 1 |
| PACKAGE, COMPRESSOR C101 | PACKAGE | 1 |
| PACKAGE, COMPRESSOR C101 Total | | 1 |
| PACKAGE, COMPRESSOR C201 | PACKAGE | 1 |
| PACKAGE, COMPRESSOR C201 Total | | 1 |
| PACKAGE, COMPRESSOR C301 | PACKAGE | 1 |
| PACKAGE, COMPRESSOR C301 Total | | 1 |
| PACKAGE, CYCLONE SEPARATOR | PACKAGE | 1 |
| PACKAGE, CYCLONE SEPARATOR Total | | 1 |
| PACKAGE, DEHYDRATION | PACKAGE | 1 |

| | | |
|---------------------------------------|---------|---|
| PACKAGE, DEHYDRATION Total | | 1 |
| PACKAGE, OFFICE / SHOP | PACKAGE | 1 |
| PACKAGE, OFFICE / SHOP Total | | 1 |
| PACKAGE, REFRIGERATION #1 | PACKAGE | 1 |
| PACKAGE, REFRIGERATION #1 Total | | 1 |
| PACKAGE, REFRIGERATION #2 | PACKAGE | 1 |
| PACKAGE, REFRIGERATION #2 Total | | 1 |
| PACKAGE, SALES METER | PACKAGE | 1 |
| PACKAGE, SALES METER Total | | 1 |
| PSV, # 1 FUEL GAS SCRUBBER | PSV | 1 |
| PSV, # 1 FUEL GAS SCRUBBER Total | | 1 |
| PSV, # 1 GLYCOL PUMP NORTH | PSV | 1 |
| PSV, # 1 GLYCOL PUMP NORTH Total | | 1 |
| PSV, # 1 GLYCOL PUMP SOUTH | PSV | 1 |
| PSV, # 1 GLYCOL PUMP SOUTH Total | | 1 |
| PSV, # 2 FUEL GAS SCRUBBER | PSV | 1 |
| PSV, # 2 FUEL GAS SCRUBBER Total | | 1 |
| PSV, # 2 GLYCOL PUMP CENTER | PSV | 1 |
| PSV, # 2 GLYCOL PUMP CENTER Total | | 1 |
| PSV, 1ST STAGE DISCHARGE | PSV | 5 |
| PSV, 1ST STAGE DISCHARGE Total | | 5 |
| PSV, 1ST STAGE DISCHARGE COOLER | PSV | 1 |
| PSV, 1ST STAGE DISCHARGE COOLER Total | | 1 |
| PSV, 1ST STAGE INLET FILTER | PSV | 1 |
| PSV, 1ST STAGE INLET FILTER Total | | 1 |
| PSV, 1ST STAGE SUCTION SCRUBBER | PSV | 1 |
| PSV, 1ST STAGE SUCTION SCRUBBER Total | | 1 |
| PSV, 2ND STAGE DISCHARGE | PSV | 4 |
| PSV, 2ND STAGE DISCHARGE Total | | 4 |
| PSV, 2ND STAGE SUCTION | PSV | 1 |
| PSV, 2ND STAGE SUCTION Total | | 1 |
| PSV, 2ND STAGE SUCTION SCRUBBER | PSV | 1 |
| PSV, 2ND STAGE SUCTION SCRUBBER Total | | 1 |
| PSV, 301 RUN GAS | PSV | 1 |
| PSV, 301 RUN GAS Total | | 1 |
| PSV, 3RD STAGE DISCHARGE | PSV | 1 |
| PSV, 3RD STAGE DISCHARGE Total | | 1 |

| | | |
|-------------------------------------|-----|---|
| PSV, BULLET - COMBO JOE | PSV | 5 |
| PSV, BULLET - COMBO JOE Total | | 5 |
| PSV, C-1 INLET SEPARATOR | PSV | 1 |
| PSV, C-1 INLET SEPARATOR Total | | 1 |
| PSV, CONDENSATE STABILIZER | PSV | 1 |
| PSV, CONDENSATE STABILIZER Total | | 1 |
| PSV, FUEL GAS | PSV | 1 |
| PSV, FUEL GAS Total | | 1 |
| PSV, FUEL GAS FILTER | PSV | 1 |
| PSV, FUEL GAS FILTER Total | | 1 |
| PSV, FUEL GAS SCRUBBER | PSV | 2 |
| PSV, FUEL GAS SCRUBBER Total | | 2 |
| PSV, FUEL GAS SCRUBBER # 1 | PSV | 1 |
| PSV, FUEL GAS SCRUBBER # 1 Total | | 1 |
| PSV, FUEL GAS SCRUBBER # 2 | PSV | 1 |
| PSV, FUEL GAS SCRUBBER # 2 Total | | 1 |
| PSV, FUEL GAS SYSTEM | PSV | 1 |
| PSV, FUEL GAS SYSTEM Total | | 1 |
| PSV, GLYCOL FILTER | PSV | 1 |
| PSV, GLYCOL FILTER Total | | 1 |
| PSV, GLYCOL SEPARATOR | PSV | 1 |
| PSV, GLYCOL SEPARATOR Total | | 1 |
| PSV, INLET SEPARATOR | PSV | 2 |
| PSV, INLET SEPARATOR Total | | 2 |
| PSV, LOW TEMP SEPARATOR | PSV | 1 |
| PSV, LOW TEMP SEPARATOR Total | | 1 |
| PSV, LOW TEMP SEPERATOR | PSV | 1 |
| PSV, LOW TEMP SEPERATOR Total | | 1 |
| PSV, PROPANE CONDENSOR | PSV | 1 |
| PSV, PROPANE CONDENSOR Total | | 1 |
| PSV, PROPANE INLET | PSV | 1 |
| PSV, PROPANE INLET Total | | 1 |
| PSV, PROPANE SUCTION SCRUBBER | PSV | 2 |
| PSV, PROPANE SUCTION SCRUBBER Total | | 2 |
| PSV, PROPANE SURGE TANK | PSV | 1 |
| PSV, PROPANE SURGE TANK Total | | 1 |
| PSV, SEPARATOR | PSV | 1 |

| | | |
|--|------------------|---|
| PSV, SEPARATOR Total | | 1 |
| PSV, SEPARATOR FUEL | PSV | 1 |
| PSV, SEPARATOR FUEL Total | | 1 |
| PSV, START GAS | PSV | 3 |
| PSV, START GAS Total | | 3 |
| PUMP - CONTROLLED VOLUME, # 2 GLYCOL | PUMP_CONTROL_VOL | 1 |
| PUMP - CONTROLLED VOLUME, # 2 GLYCOL Total | | 1 |
| PUMP - CONTROLLED VOLUME, # 1 GLYCOL | PUMP_CONTROL_VOL | 1 |
| PUMP - CONTROLLED VOLUME, # 1 GLYCOL Total | | 1 |
| PUMP - RECIP, GLYCOL # 1 | PUMP_RECIP | 1 |
| PUMP - RECIP, GLYCOL # 1 Total | | 1 |
| PUMP - RECIP, GLYCOL # 2 | PUMP_RECIP | 1 |
| PUMP - RECIP, GLYCOL # 2 Total | | 1 |
| RADIO SYSTEM, RADIO REPEATER | RADIO_SYSTEM | 1 |
| RADIO SYSTEM, RADIO REPEATER Total | | 1 |
| SCRUBBER, # 1 FUEL GAS | SCRUBBER | 1 |
| SCRUBBER, # 1 FUEL GAS Total | | 1 |
| SCRUBBER, # 2 FUEL GAS | SCRUBBER | 1 |
| SCRUBBER, # 2 FUEL GAS Total | | 1 |
| SCRUBBER, # 3 FUEL GAS | SCRUBBER | 1 |
| SCRUBBER, # 3 FUEL GAS Total | | 1 |
| SCRUBBER, 1ST STAGE SUCTION | SCRUBBER | 4 |
| SCRUBBER, 1ST STAGE SUCTION Total | | 4 |
| SCRUBBER, 2ND STAGE CYCLONE | SCRUBBER | 1 |
| SCRUBBER, 2ND STAGE CYCLONE Total | | 1 |
| SCRUBBER, 2ND STAGE SUCTION | SCRUBBER | 3 |
| SCRUBBER, 2ND STAGE SUCTION Total | | 3 |
| SCRUBBER, 3RD STAGE SUCTION | SCRUBBER | 1 |
| SCRUBBER, 3RD STAGE SUCTION Total | | 1 |
| SCRUBBER, FUEL GAS | SCRUBBER | 4 |
| SCRUBBER, FUEL GAS Total | | 4 |
| SCRUBBER, PROPANE SUCTION | SCRUBBER | 1 |
| SCRUBBER, PROPANE SUCTION Total | | 1 |
| SEPARATOR, 1ST STAGE SUCTION | SEPARATOR | 1 |
| SEPARATOR, 1ST STAGE SUCTION Total | | 1 |
| SEPARATOR, COALESCING | SEPARATOR | 1 |
| SEPARATOR, COALESCING Total | | 1 |

| | | |
|--|-------------|-----|
| SEPARATOR, CONDENSATE / GLYCOL | SEPARATOR | 1 |
| SEPARATOR, CONDENSATE / GLYCOL Total | | 1 |
| SEPARATOR, CYCLONE | SEPARATOR | 1 |
| SEPARATOR, CYCLONE Total | | 1 |
| SEPARATOR, INLET | SEPARATOR | 4 |
| SEPARATOR, INLET Total | | 4 |
| SEPARATOR, LOW TEMP | SEPARATOR | 2 |
| SEPARATOR, LOW TEMP Total | | 2 |
| SEPARATOR, PROPANE DE-OILER | SEPARATOR | 1 |
| SEPARATOR, PROPANE DE-OILER Total | | 1 |
| SEPARATOR, STOCK | SEPARATOR | 2 |
| SEPARATOR, STOCK Total | | 2 |
| TANK, 1000 GALLON GAS STORAGE | TANK | 1 |
| TANK, 1000 GALLON GAS STORAGE Total | | 1 |
| TANK, A/G 100 BBL LUBE OIL | TANK | 1 |
| TANK, A/G 100 BBL LUBE OIL Total | | 1 |
| TANK, A/G 100 BBL STORAGE | TANK | 1 |
| TANK, A/G 100 BBL STORAGE Total | | 1 |
| TANK, A/G 200 BBL | TANK | 1 |
| TANK, A/G 200 BBL Total | | 1 |
| TANK, AJAX BLDG U/G STORAGE 5 M3 | TANK | 1 |
| TANK, AJAX BLDG U/G STORAGE 5 M3 Total | | 1 |
| TANK, FKO U/G STORAGE 8000 L | TANK | 1 |
| TANK, FKO U/G STORAGE 8000 L Total | | 1 |
| TANK, 1000 BBL CONDENSATE | TANK | 1 |
| TANK, 1000 BBL CONDENSATE Total | | 1 |
| TOWER, CONDENSATE STABILIZER | TOWER | 1 |
| TOWER, CONDENSATE STABILIZER Total | | 1 |
| TRANSFORMERS, PANEL RECTIFIER | TRANSFORMER | 1 |
| TRANSFORMERS, PANEL RECTIFIER Total | | 1 |
| Grand Total | | 237 |



Appendix F



707 8th Avenue S.W.
Box 6525, Station D
Calgary, Alberta, Canada
T2P 3G7

Bus: (403) 298-6111
Fax: (403) 750-1950

September 8, 2004

Alberta Energy & Utilities Board
640 - 5 Avenue S.W.
Calgary, Alberta
T2P 3G4

Attention: Facilities Application Processor

RE: Application to Amend the Husky Armada Gas Plant with a Permanent Compressor

Dear Madam/Sir:

The enclosed submission is to add the compressor currently covered by a temporary licence to the gas plant licence and let the temporary licence expire. There is no actual change to any licence process or equipment on site.

Currently, there are two licences covering the facility at Husky Oil Operations Armada site 1-18-17-18 W4. The Gas Plant Licence Number F2226 includes the gas plant equipment and five (5) compressors. Compressor station Licence Number F29848 is a temporary one-year licence for one gas compressor.

Industry and residents have been notified that the temporary compressor is to be licenced as part of the permanent facilities, and there have been no objections.

Although not shown on the plan, there are no surface developments, watercourses, or vegetation within 100 metres of the lease boundary.

If you require any additional information, please call me at (403) 750-1625 or email nasser.awada@huskyenergy.ca.

Yours truly,
HUSKY OIL OPERATIONS LIMITED

A handwritten signature in black ink, appearing to read "Nasser Awada", written over a horizontal line.

Nasser Awada
Regulatory Technician



Appendix G

| EUB SPILL / COMPLAINT INCIDENTS FOR 01-18-017-18W4M | | | |
|---|-------------------------|--------------------|------------------|
| COMPLAINT - JANUARY 14, 1988 - INCIDENT NUMBER: 19880082 | | | |
| EUB NOTIFIED: | JANUARY 14, 1988 | INCIDENT COMPLETE: | JANUARY 27, 1994 |
| LICENCE #: | | | |
| LICENCEE: | COCHRANE RESOURCES LTD. | | |
| SOURCE: | UNKNOWN | | |
| SOURCE IN COMPLAINEE? | | | |
| CAUSE: | CONVERSION | | |
| STRIKE AREA: | EYRMOR | FIELD CENTRE: | MIDNAPORE |
| CONCERNS: | ODOURS - OTHER | | |

OPTIONS
[View](#)
[Licensee Info](#)
[Print Screen](#)
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Appendix H

Husky V7 Production SURFACE ABSTRACT

File Number: S64484-00

Base Information

| | | | |
|------------------|----------------------------|------------------------|-----------------|
| File Status: | Permanent | Status Date: | DEC 31, 2003 |
| Lessor Type: | Fee Land | Lease Number: | MARATHON CANADA |
| Document Type: | Fee Simple | Document Date: | JUN 07, 1996 |
| Admin Company: | Marathon Canada Limited | Effective Date: | JUN 07, 1996 |
| Division: | Southern | Lease Term: | 0 Year(s) |
| Expiry Date: | | Renewed: | No |
| Area: | 6243 - QUEENSTOWN-MCL (AB) | Extension Date: | |
| How Acquired: | Nugas Acquisition | Acquired Date: | JUN 01, 1997 |
| Lease Operator: | HUSKY OIL OP | Lease Payor: | HUSKY OIL OP |
| Rental Status: | | Joint Venture Billing: | No |
| Rental Period: | Annual | Total Rental: | \$0.00 |
| Rental Date: | | Total Hectares: | 1.860 |
| Surrender Days: | | Total Acres: | 4.596 |
| Reclaim Number: | | Application Date: | |
| Reclaim Date: | | Account Number: | |
| Prev Doc Number: | S11318 | | |

☐ GST Applies

Lessor / Depository

| Occ | Lessor | Amount | Interest |
|-----|--------------------------|--------|--------------|
| | Total Rental: | \$0.00 | |
| 1 | MARATHON CANADA | \$0.00 | 100.00000000 |
| | Withhold Tax: | | |
| | MARATHON CANADA LIMITED | | |
| | 1000 - 444 - 7 AVENUE SW | | |
| | CALGARY AB | | |
| | T2P 0X8 CA | | |
| | 1 Lessor(s) | \$0.00 | 100.00000000 |

Legal Description

Land Description

TWP 17 RGE 18 W4M SE/4 SEC 18

Land Use

Type: Plantsite

Description: ARMADA GAS PLANT @ 1-18-17-18 W4M

Construct / Reclaim

Compensation

Registration

| Document Type | Document Date | Document Number | Withdrawal Date |
|-----------------|---------------|-----------------|-----------------|
| Reg Survey Plan | 00, 0000 | 801 0628 | 00, 0000 |
| District: | | | |

Remarks

Husky V7 Production SURFACE ABSTRACT

File Number: S64484-00

| Occ | Remark Type | Remark Date |
|-----|---|-------------|
| 1 | Miscellaneous | |
| | FEE SIMPLE LANDS PURCHASED FROM AE FOR \$1500.00/ACRE AE HAS RIGHT TO RE-ACQUIRE LANDS FOR SAME PRICE IF LANDS NO LONGER UTILIZED FOR COMPRESSOR SITE THIS FILE CONTAINS PLAN 8010628 FOR COMPRESSOR SITE ROW FILE STAT DECLARATION RE CAVEAT LAPSE | |
| 2 | Registration Number | |
| | (REGISTERED PLAN NUMBER) 8510440 | |

Name Cross Reference

Obligations

Working Interest

Operating Contract: C000003 AA

WI - Working Interest

(Contract Owned)

Eff Date: May/05/2004 DOI Id: 1164306

| Occ | Partner | Short Name | Penalty | Percent | Partner Type | Trustee Name |
|-----|----------|--------------|---------|--------------|--------------|--------------|
| 1 | 100001 | HUSKY OIL OP | | 100.00000000 | | |
| | Comment: | | | 100.00000000 | | \$0.00 |

Related Contracts

| Contract File No | File Status | Contract Type | Contract Date | Effective Date |
|--------------------|-------------|---------------|---------------|----------------|
| C000003 | COMP | JOININTAGR | Jan 01, 1994 | Jan 01, 1994 |
| Related: | | Comments: | | |
| C000003 | AA | COMP | JOININTAGR | Jan 01, 1994 |
| Related: OPERATING | | Comments: | | |
| C016356 | COMP | SALE-AGR | Sep 15, 1997 | Jun 01, 1997 |
| Related: | | Comments: | | |

Related Mineral

Related Surface

Related Road Use

Wells

Rental Distribution

Appendix D Additional Background Information

PRINT REPORT

VIEW IN EXCEL


CLOSE REPORT

| LOCATION: 01-18-017-18 W4M | | | |
|----------------------------|--|------------|--------|
| BATTERY | | | |
| TYPE: | GAS MULTIWELL GROUP BATTERY | | |
| STATUS: | ACTIVE | LICENCE #: | F2226 |
| NAME: | ARMADA LP MWB | | |
| OPERATOR: | HUSKY OIL OPERATIONS LIMITED | | |
| LICENCEE: | HUSKY OIL OPERATIONS LIMITED | | |
| BATTERY | | | |
| TYPE: | GAS MULTIWELL GROUP BATTERY | | |
| STATUS: | ACTIVE | LICENCE #: | F2226 |
| NAME: | ARMADA HP MWB | | |
| OPERATOR: | HUSKY OIL OPERATIONS LIMITED | | |
| LICENCEE: | HUSKY OIL OPERATIONS LIMITED | | |
| BATTERY | | | |
| TYPE: | GAS MULTIWELL PRORATION SE ALBERTA BATTERY | | |
| STATUS: | ACTIVE | LICENCE #: | F29796 |
| NAME: | BADGER LAKE LATERAL "A" | | |
| OPERATOR: | PENN WEST PETROLEUM LTD. | | |
| LICENCEE: | PENN WEST PETROLEUM LTD. | | |
| BATTERY | | | |
| TYPE: | GAS MULTIWELL PRORATION SE ALBERTA BATTERY | | |
| STATUS: | ACTIVE | LICENCE #: | F29796 |
| NAME: | BADGER LAKE LATERAL "B" | | |
| OPERATOR: | PENN WEST PETROLEUM LTD. | | |
| LICENCEE: | PENN WEST PETROLEUM LTD. | | |
| BATTERY | | | |
| TYPE: | GAS MULTIWELL PRORATION SE ALBERTA BATTERY | | |
| STATUS: | ACTIVE | LICENCE #: | F29796 |
| NAME: | BADGER LAKE LATERAL "C" | | |
| OPERATOR: | PENN WEST PETROLEUM LTD. | | |
| LICENCEE: | PENN WEST PETROLEUM LTD. | | |
| COMPRESSOR STATION | | | |
| TYPE: | COMPRESSOR STATION | | |
| STATUS: | ACTIVE | LICENCE #: | F29796 |
| NAME: | ENDEV ENERGY INC | | |
| OPERATOR: | PENN WEST PETROLEUM LTD. | | |
| LICENCEE: | PENN WEST PETROLEUM LTD. | | |
| COMPRESSOR STATION | | | |
| TYPE: | COMPRESSOR STATION | | |
| STATUS: | ACTIVE | LICENCE #: | F29848 |
| NAME: | MARATHON CANADA LIMITED | | |
| OPERATOR: | HUSKY OIL OPERATIONS LIMITED | | |
| LICENCEE: | HUSKY OIL OPERATIONS LIMITED | | |
| GAS GATHERING SYSTEM | | | |
| TYPE: | GAS GATHERING SYSTEM | | |
| STATUS: | ACTIVE | LICENCE #: | F29796 |
| NAME: | BADGER 102/01-18-017-18W4 GGS | | |
| OPERATOR: | PENN WEST PETROLEUM LTD. | | |
| LICENCEE: | PENN WEST PETROLEUM LTD. | | |
| GAS GATHERING SYSTEM | | | |
| TYPE: | GAS GATHERING SYSTEM | | |

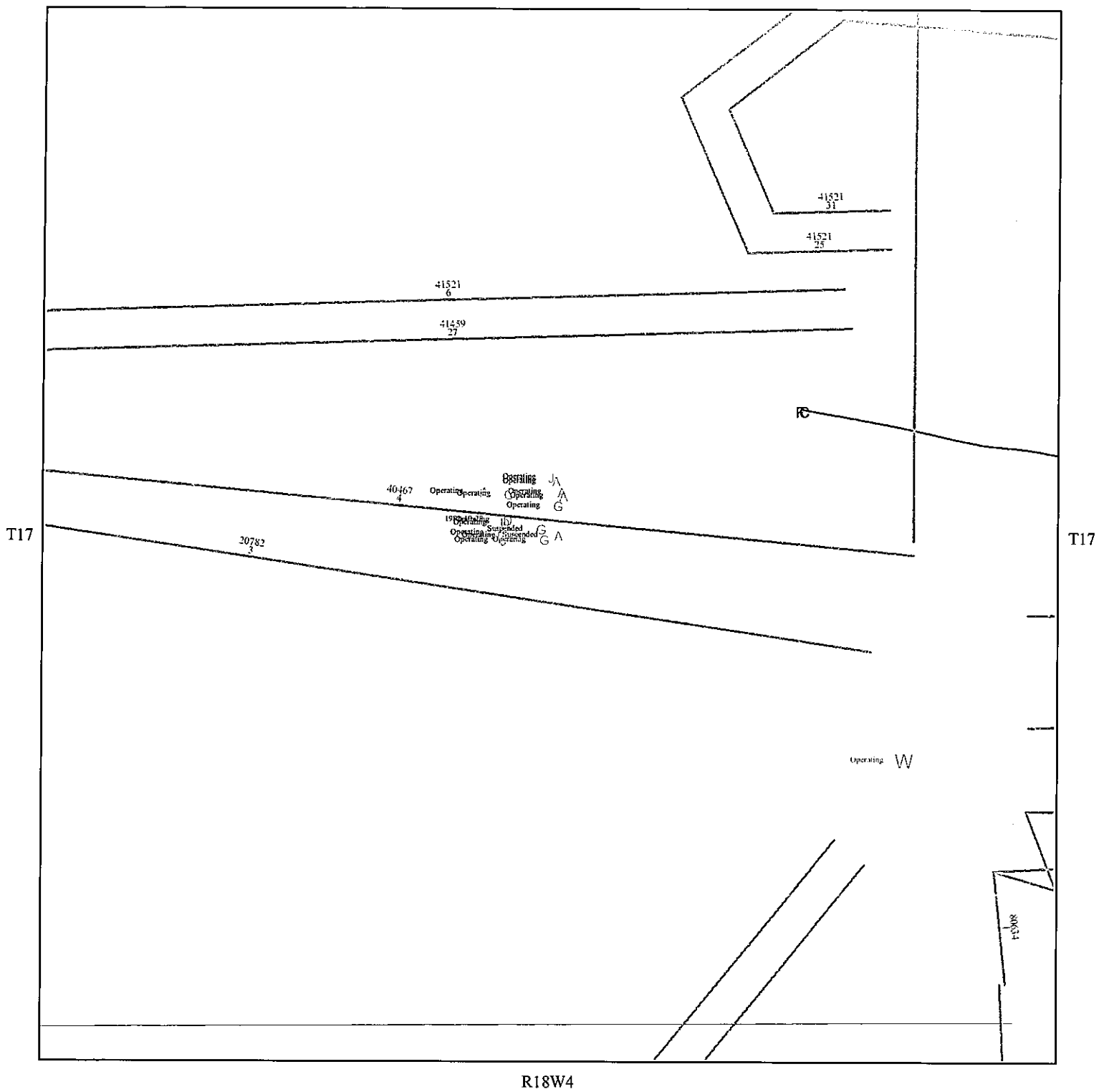
| | | | |
|----------------------|------------------------------|------------|-------|
| STATUS: | ACTIVE | LICENCE #: | F2226 |
| NAME: | ARMADA 1-18 LP | | |
| OPERATOR: | HUSKY OIL OPERATIONS LIMITED | | |
| LICENCEE: | HUSKY OIL OPERATIONS LIMITED | | |
| | | | |
| GAS GATHERING SYSTEM | | | |
| TYPE: | GAS GATHERING SYSTEM | | |
| STATUS: | ACTIVE | LICENCE #: | F2226 |
| NAME: | ARMADA 1-18 HP | | |
| OPERATOR: | HUSKY OIL OPERATIONS LIMITED | | |
| LICENCEE: | HUSKY OIL OPERATIONS LIMITED | | |
| | | | |
| GAS PLANT | | | |
| TYPE: | GAS PLANT SWEET | | |
| STATUS: | ACTIVE | LICENCE #: | F2226 |
| NAME: | TARRAGON EYREMORE | | |
| OPERATOR: | HUSKY OIL OPERATIONS LIMITED | | |
| LICENCEE: | HUSKY OIL OPERATIONS LIMITED | | |
| | | | |
| METER STATION | | | |
| TYPE: | FIELD METER STATION | | |
| STATUS: | ACTIVE | LICENCE #: | |
| NAME: | BADGER NORTH | | |
| OPERATOR: | NOVA GAS TRANSMISSION LTD. | | |
| LICENCEE: | | | |
| | | | |

FACILITY DATA CURRENT TO NOVEMBER 4, 2010

FLARING, VENTING & PRODUCTION DATA CURRENT TO JANUARY 25, 2010

|  IHS ENERGY | System - Low Pressure Pipeline | List: 01-18-017-18W4 pipeline.pls Datum: NAD27 (ATS 2.6 Grd) | | | | | | | | |
|--|--------------------------------|---|-------------|-------------|----------|-----------------------|-----------|--|--|--|
| License Number | Line Number | Operator Name | Substance | Length (km) | Material | Outside Diameter (mm) | Status | | | |
| 16927 | 11 | HUSKY OIL OPERATIONS LIMITED | Natural Gas | 4.450 | Steel | 168.30 | Operating | | | |
| 16927 | 20 | HUSKY OIL OPERATIONS LIMITED | Natural Gas | 4.850 | Steel | 88.90 | Operating | | | |
| 16927 | 35 | HUSKY OIL OPERATIONS LIMITED | Natural Gas | 6.820 | Steel | 88.90 | Operating | | | |
| 16928 | 4 | HUSKY OIL OPERATIONS LIMITED | Natural Gas | 11.400 | Steel | 168.30 | Operating | | | |
| 20426 | 4 | SPHERE ENERGY CORP. | Natural Gas | 1.350 | Steel | 88.90 | Operating | | | |
| 20782 | 3 | HUSKY OIL OPERATIONS LIMITED | Natural Gas | 11.410 | Steel | 114.30 | Operating | | | |
| 20782 | 4 | HUSKY OIL OPERATIONS LIMITED | Natural Gas | 4.540 | Steel | 88.90 | Operating | | | |
| 32118 | 1 | PACE OIL & GAS LTD. | Fuel Gas | 0.100 | Steel | 60.30 | Operating | | | |
| 32119 | 1 | PACE OIL & GAS LTD. | Natural Gas | 0.100 | Steel | 114.30 | Operating | | | |
| 40467 | 4 | CRESCENT POINT ENERGY CORP. | Natural Gas | 7.410 | Steel | 114.30 | Operating | | | |
| 41459 | 27 | PENN WEST PETROLEUM LTD. | Natural Gas | 13.730 | Steel | 114.30 | Operating | | | |
| 41521 | 6 | PENN WEST PETROLEUM LTD. | Natural Gas | 3.280 | Steel | 219.10 | Operating | | | |
| 41521 | 25 | PENN WEST PETROLEUM LTD. | Natural Gas | 2.690 | Steel | 219.10 | Operating | | | |
| 41521 | 31 | PENN WEST PETROLEUM LTD. | Natural Gas | 2.960 | Steel | 168.30 | Operating | | | |
| 80634 | 1 | NOVA GAS TRANSMISSION LTD. | Natural Gas | 5.800 | Steel | 168.30 | Operating | | | |

R18W4



R18W4

WELL LEGEND

Bottom Hole Locations:

C Suspended F Gas
K Suspended Gas

Surface Hole Locations:

—U Directional

STD. PIPELINES LEGEND

Pipeline Substances:

— Pipes - Gas (Fuel)
— Pipes - Gas (Natural)

Pipeline Lists:

— 01-18-017-18W4
pipeline

Pipeline Postings:

License Number
Line Number

Husky Oil Ltd.

01-18-017-18W4M

AccuMap

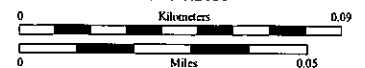
Created in AccuMap™
Product of IHS
Datum: NAD83
Vol. 20 No. 16, Oct 28 2010
(103) 770-4646

Author: Diane Holmen
Date: November 25, 2010
File: None
Scale: 1 : 2033
Projection: Stereographic
Center: N80.42839 W112.45780

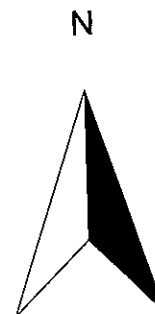
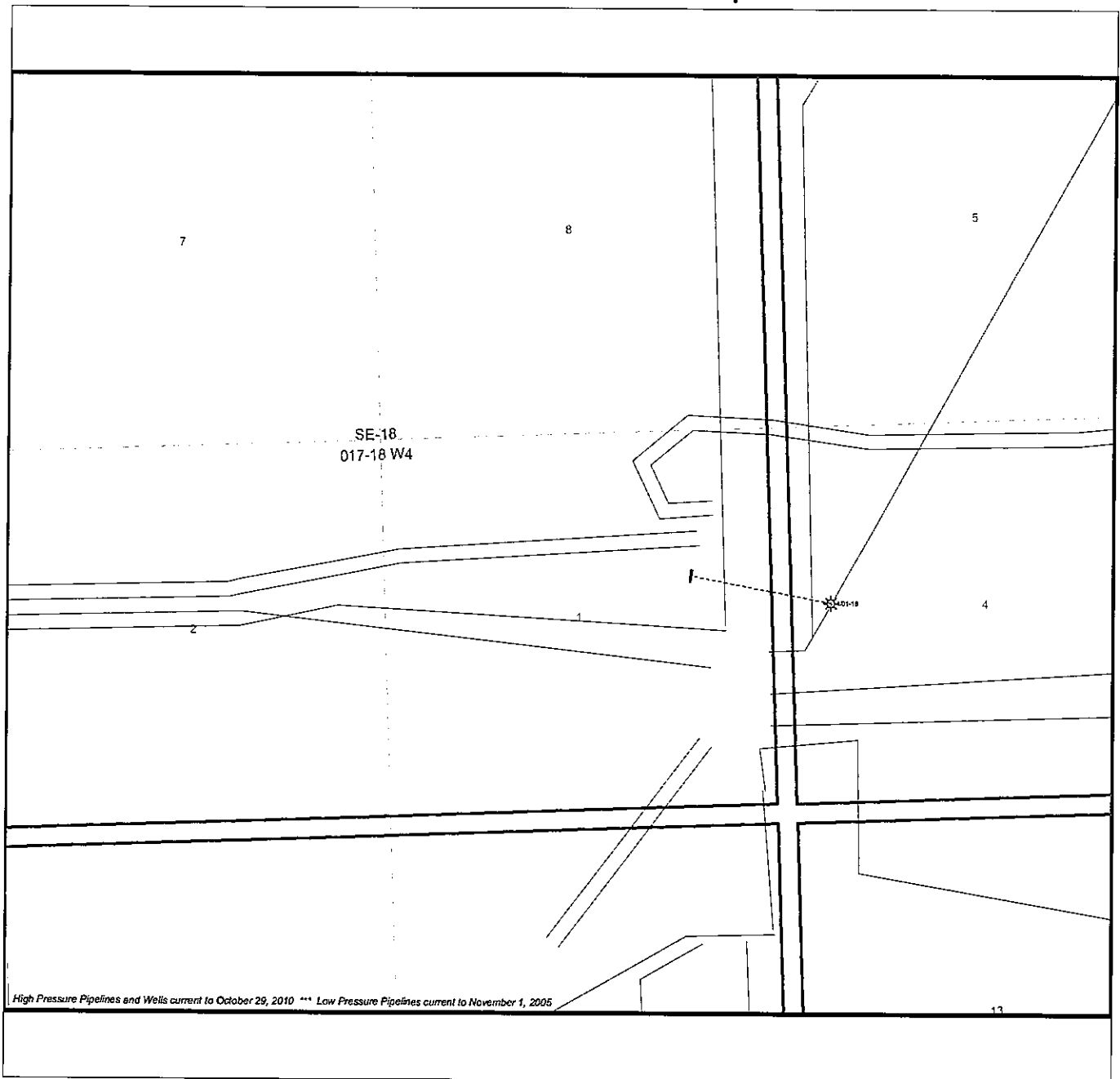
Grid Information:
DLS: IHS Enhanced Grid
NTS: Theoretical Grid
FPS: Theoretical Grid
US: IHS US Grid

DLS Version Information:
AB: ATS 2.6
BC: PRB 2.0
SK: STS 2.5
MB: MUC7

Scale 1:2033



1-18-017-18W4M Map



- Wellheads**
- ◊ Abandoned Wellhead
 - ⊗ Suspended Gas Wellhead
 - ⊗ Suspended Oil Wellhead
 - ⊗ Flowing Gas Wellhead
 - Location Wellhead
 - Flowing Oil Wellhead
 - ✕ Miscellaneous Wellhead
 - ⊗ Water Wellhead
 - ✓ Well Downhole Location
 - Newly Licensed Well
 - ⊗ Newly Spudded Well
- High Pressure Pipelines**
- Gas Pipeline
 - Oil Pipeline
 - Water Pipeline
 - LVP/HVP Pipeline
 - Foreign Pipeline
(Only when a company is specified.)
- Low Pressure Pipelines**
- - - - - Gas Co-op Pipeline

[PRINT REPORT](#)[VIEW IN EXCEL](#)[CLOSE REPORT](#)

| | | | |
|---|-------------------------|---------------------------|------------------|
| LOCATION: 01-18-017-18W4M | | | |
| COMPLAINT - JANUARY 14, 1988 - INCIDENT NUMBER: 19880082 | | | |
| ERCB NOTIFIED: | JANUARY 14, 1988 | INCIDENT COMPLETE: | JANUARY 27, 1994 |
| LICENCE #: | | | |
| LICENCEE: | COCHRANE RESOURCES LTD. | | |
| SOURCE: | UNKNOWN | | |
| SOURCE IN COMPLAINT? | | | |
| CAUSE: | CONVERSION | | |
| STRIKE AREA: | EYRMOR | FIELD CENTRE: | MIDNAPORE |
| CONCERNS: | ODOURS - OTHER | | |
| LOCATION: 02-18-017-18W4M | | | |
| There are no Spill/Complaint Incidents for this LSD. | | | |
| LOCATION: 07-18-017-18W4M | | | |
| There are no Spill/Complaint Incidents for this LSD. | | | |
| LOCATION: 08-18-017-18W4M | | | |
| There are no Spill/Complaint Incidents for this LSD. | | | |

Appendix E Methodology

Based on the information derived from completing a limited Phase I ESA, TLS derived a list of areas of potential environmental concern (see Table 2). From this information, an estimate of monetary liability was developed for each area. The liability values have been based on TLS's professional judgement, extensive knowledge of the Upstream Oil and Gas activities/contaminants, remedial requirements and associated costs to meet those requirements. However, as no site visits or site-specific interviews were conducted, several assumptions have been made and are discussed in detail below.

An effort was made to develop a remedial program to remediate locations where known or high probability of soil impacts were identified (i.e., flare pits, facilities, tank farms and UST's.). As very limited information is available as per the degree of soil impacts, one remedial strategy was evaluated in order to provide potential liability. The remedial strategy used was landfill disposal at an approved Class II landfill. A remedial cost of \$125.00/m³ was developed for landfill disposal. The per m³ value include all costs associated with the removal of the impacted material, confirmatory laboratory analyses, reclamation of the excavation areas, and professional time (i.e., on-site consulting and reporting). In addition, as no volumes of soil impacts are available, an estimate of the volume(s) of impacted soil has been provided so an estimate of liability could be assigned. Provided below are the assumptions used to develop the estimated volumes of impacted soil.

Production Flare Pits

The most significant environmental liabilities identified in the review are current or former large earthen pits (i.e., mostly flare pits) used during production. For the purpose of this liability assessment, a volume estimate of 1200 m³ (i.e., 20 m x 20 m x 3 m in depth) of potential impacted soil has been denoted for all large earthen pits. This volume estimate has been allocated based on past experience and extensive knowledge of Upstream Oil and Gas activities. The monetary liability assigned to each earthen pit is \$132,000.

Drilling Waste Disposal Area(s)

Also included in the environmental liability review are the drilling waste disposal areas. For the purpose of this liability assessment, all drilling waste disposal locations that passed the Compliance Option 1 or 2 Checklist were considered to be clean and all drilling waste disposal locations that failed the Compliance Option 1 or 2 Checklist were considered to be potentially impacted. For the purpose of this liability assessment, the volume estimate of the potentially impacted drilling waste disposal areas was dependant on the geographical location of the well in Alberta, therefore, wells drilled in the W4M, a volume estimate of 450 m³ (i.e., 15 m x 15 m x 2.0 m in depth) of potential impacted soil has been denoted and wells drilled in the W5M, a volume estimate of 937.5 m³ (i.e., 25 m x 15 m x 2.5 m in depth) of potential impacted soil has been denoted. These volume estimates have been allocated based on the general difference of well depth in the W4M and the W5M, as well as past experience and extensive knowledge of Upstream Oil and Gas activities. The landfilling remedial strategy has been applied for these volumes. The monetary liability value assigned to each W4M drill sump is \$49,500 and each W5M drill sump is \$103,125. Note: No liability has been assigned to drilling flare pits.

Flare Stack Areas

Former or current flare stack areas were included in this review. For the purpose of this liability assessment, the volume estimate of the potentially impacted flare stack area is based on the accumulation of small unreported spills over the course of production activities. Any significant spills and associated liability would be associated with any known spills and associated liability. A volume estimate of 112 m³ (i.e., 15 m x 15 m x 0.50 m) was assigned to any active and non-active flare stack area. The monetary liability value assigned to each flare stack is \$14,000.

AST(s)

Former or current aboveground storage tanks (ASTs) were also identified in the review. For simplicity sake, tanks have been divided into two groups. Tanks larger than 400 barrels (bbl) and tanks less than 400 barrels. Tanks larger than 400 bbl have been assigned a volume of 200 m³ (i.e., 10 m x 10 m x 2 m). Tanks less than 400 bbl have been assigned a volume of 25 m³ (5 m x 5 m x 1 m). The monetary liability value of \$25,000 has been assigned to large tanks and \$3,125 have been assigned for small tanks. Note: Propane tanks and LPG bullets were omitted from this assessment.

UST(s)

Former or current underground storage tank (USTs) areas were also identified in the review. An impacted volume estimate of 500 m³ (i.e., 10 m x 10 m x 5 m in depth) was assigned for each identified tank present in the aerial photograph review. The monetary liability value assigned to each UST is \$62,500.

Facility Buildings

Review of the oil and gas leases included in this acquisition identified numerous facility buildings. Therefore, potential impacts associated with former or current facilities have been deemed significant and have been divided into 3 categories: Small (i.e., <25 m²), Medium (i.e., 25-100 m²) and Large (i.e., >100 m²) facilities. A potential impact volume depth of 1.00 m was used for volume estimation purposes. Therefore, the monetary liability value assigned to a small facility is \$3,125, medium facility \$12,500 and large facility \$25,000 (200 m² was applied for large facility. Note: No office buildings, sheds, or storage sheds were included in this assessment.

Spills

As outlined in EUB Directive 006, a pipeline is not considered a liability unless it is designated a 'problem site'. A 'problem site' would be defined as a pipeline where a spill has been reported or is known to have occurred and has not being remediated.

Spill reports with an associated clean-up date(s) were not included in the liability estimates as no further remedial work is required for the spill. If a clean up date or applicable information was not provided,

costs for a Phase II ESA was applied to assess the spill area. A cost of \$15,000 was applied to all spills where the clean-up status is unknown.

Assessment Costs

Phase 2 ESA costs were included in the environmental liability. As all areas of concern will require an assessment prior to final reclamation, a generic cost to complete an assessment of each site has been included. For the purpose of this liability assessment, the monetary liability value associated the Phase 2 ESA of a site of this size and complexity is \$40,000. This includes all assessment of all areas of concern, third party costs, analytical and reporting.

Ground Water Liability

For the purpose of this liability assessment, sites with ground water wells or known ground water impacts were assigned a value for the purpose of monitoring activities. This is based on the assumption that if all known liabilities were removed, ground water monitoring activities would still be required for a period of time. Therefore, \$15,000 (i.e., 3 years monitoring) has been applied to any site with ground water wells or known ground water impacts. This includes sampling, analytical and annual reporting.