GW - 51

GENERAL CORRESPONDENCE

YEAR(S):

2006 - 1999

TEPPCO

P.O. Box 2521
Houston, Texas 77252-2521
Office 713/759-3636
Facsimile 713/759-3783

April 28, 2006

SENT VIA FEDERAL EXPRESS
NEXT DAY DELIVERY

Mr. Wayne Price
New Mexico Energy, Minerals & Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: TEPPCO NGL Pipelines, LLC
TEPPCO Val Verde System Discharge Permit Renewals
San Juan and Rio Arriba County, New Mexico

Dear Mr. Price:

TEPPCO NGL Pipelines, LLC ("TEPPCO") is submitting the enclosed signed groundwater discharge plans for 9 of its Val Verde Gas Gathering system compressor stations and 1 gas plant located in San Juan and Rio Arriba Counties, New Mexico. Enclosed with the discharge plan renewal is TEPPCO Check No. **0200001128** (Attachment 3) in the amount of **$19,300.00** for the permit fees. Please refer to the attached facility schedule (Attachment 2) which outlines the submittal dates and payments made for the filing fees and permit fees. Please note the application filing fees for each facility were previously paid with the submittal of the groundwater discharge plan renewal applications.

TEPPCO does not request any major changes to the permit documents as prepared by the New Mexico OCD; however, the dates referenced for the submittal of the discharge plan renewals are not correct for each facility. Each permit states that the renewal applications were submitted on October 31, 2005; however, the 10 renewals were submitted on a staggered schedule ranging from October 11, 2005 to October 31, 2005. Please refer to the attached facility schedule for the appropriate renewal submittal dates.

Notwithstanding the submittal of the enclosed permit fees and documents, TEPPCO does not waive its right to question or dispute the need and/or requirement for this permit at the referenced facilities or other Val Verde facilities.

If you have any questions or require additional information, please contact Peter Cain at (713) 284-5213 or myself at (713) 759-3553.

Sincerely,

Deodat P. Bhagwandin
Manager, Environmental Protection

Val Verde Gas Gathering System Permit Renewal Costs and Schedule

Priority	Station Name	Permit #	Expiration Date	Submittal Date	Application Fee	Permit Fees
1	Hart Canyon	GW-058	10/11/05	10/11/2005	$ 100.00	$1,700.00
2	Manzanares	GW-059	10/11/05	10/11/2005	$ 100.00	$1,700.00
3	Pump Canyon	GW-057	10/11/05	10/11/2005	$ 100.00	$1,700.00
4	Val Verde Treater	GW-051	9/27/05	10/27/2005	$ 100.00	$4,000.00
5	Arch Rock	GW-183	2/21/05	10/19/2005	$ 100.00	$1,700.00
6	Sandstone	GW-193	6/2/05	10/19/2005	$ 100.00	$1,700.00
7	Frances Mesa	GW-194	6/9/05	10/19/2005	$ 100.00	$1,700.00
8	Pump Mesa	GW-148	4/9/03	10/28/2005	$ 100.00	$1,700.00
9	Gobernador	GW-056		10/31/2005	$ 100.00	$1,700.00
10	Sims Mesa	GW-146	4/3/03	10/28/2005	$ 100.00	$1,700.00

Grand Total: **$1,000.00** (paid) **$19,300.00** (paid April 28, 2006)

Chavez, Carl J, EMNRD

From: plcain@teppco.com
Sent: Friday, April 28, 2006 2:37 PM
To: Price, Wayne, EMNRD
Cc: Chavez, Carl J, EMNRD; DPBhagwandin@TEPPCO.COM
Subject: TEPPCO Val Verde Discharge Permits

Mr. Price,

I wanted to let you know that we have signed and completed the discharge permits that you submitted to us at the beginning of April. We have sent them back to you via Federal Express Next Day. You should receive them by Monday. Also included is a check for the permit fees for all 10 facilities and a spreadsheet outlining all 10 facilities and the permit fees due. Please let me know if you do not receive the package.

While we really don't have any comments regarding the permits, I wanted to note that each discharge permit stated that the renewals were submitted on October 31, 2005, while in fact, they were submitted on a staggered schedule beginning October 11, 2005 until October 31, 2005. You may want to make note of that and perhaps change this language for each particular facility. Again, the spreadsheet outlines the dates in which we submitted the renewal applications.

Thanks for your assistance in this matter and please let us know if you have any questions. We enjoyed meeting you back in February and look forward to working with you more in the future.

Regards,

Peter L. Cain
TEPPCO, L.P.
EH&S/ Environmental Protection Group
(713) 284-5213 (phone)
(713) 759-3931 (fax)

	Description	FUND	CES	DFA ORG	DFA ACCT	ED ORG	ED ACCT	AMOUNT	
									1
	CY Reimbursement Project _____ Tax ___	064	01		2329	900000	2329134		2
1	Gross Receipt Tax	064	01		1696	900000	4169134		3
5	Air Quality Title V	092	13	1300	9696	900000	4969014		4
3	PRP Prepayments	248	14	1400	9696	900000	4969015		5
4	Climax Chemical Co.	248	14	1400	9696	900000	4969246		6
2	Circle K Reimbursements	248	14	1400	9696	900000	4969027		7
6	Hazardous Waste Permits	339	27	2700	1696	900000	4169339		8
7	Hazardous Waste Annual Generator Fees	339	27	2700	1696	900000	4169339		8
8	Water Quality - Oil Conservation Division	341	29		2329	900000	2329029	19,300	10
0	Water Quality - GW Discharge Permit	341	29	2900	1696	900000	4169029		11
1	Air Quality Permits	631	31	2500	1696	900000	4169031		12
2	Payments under Protest	851	33		2919	900000	2919033		13
3	Xerox Copies	652	34		2349	900000	2349001		*14
4	Ground Water Penalties	652	34		2349	900000	2349002		15
5	Witness Fees	652	34		2349	900000	2439003		16
6	Air Quality Penalties	652	34		2349	900000	2349004		17
7	OSHA Penalties	652	34		2349	900000	2349005		18
8	Prior Year Reimbursement	652	34		2349	900000	2349006		19
9	Surface Water Quality Certification	652	34		2349	900000	2349009		20
0	Jury Duty	652	34		2349	900000	2349012		21
1	CY Reimbursements (I.e. telephone)	652	34		2349	900000	2349014		22
2	UST Owner's List	783	24	2500	9696	900000	4969201		*23
3	Hazardous Waste Notifiers List	783	24	2500	9696	900000	4969202		*24
4	UST Maps	783	24	2500	9696	900000	4969203		*25
5	UST Owners Update	783	24	2500	9696	900000	4969205		*26
6	Hazardous Waste Regulations	783	24	2500	9696	900000	4969207		*28
9	Radiologic Tech. Regulations	783	24	2500	9696	900000	4969208		*29
9	Superfund CERLIS List	783	24	2500	9696	900000	4969211		*30
0	Solid Waste Permit Fees	783	24	2500	9696	900000	4969213		31
1	Smoking School	783	24	2500	9696	900000	4969214		32
2	SWQB - NPS Publications	783	24	2500	9696	900000	4969222		*33
3	Radiation Licensing Regulation	783	24	2500	9696	900000	4969228		*34
4	Sale of Equipment	783	24	2500	9696	900000	4969301		*35
5	Sale of Automobile	783	24	2500	9696	900000	4969302		*36
6	Lust Recoveries	783	24	2500	9696	900000	4969614		**37
7	Lust Repayments	783	24	2500	9696	900000	4969615		**38
8	Surface Water Publication	783	24	2500	9696	900000	4969801		39
9	Exxon Reese Drive Ruidoso - CAF	783	24	2500	9696	900000	4969242		40
0	Emerg. Hazardous Waste Penalties NOV	957	32	9600	1696	900000	4164032		41
1	Radiologic Tech. Certification	987	05	0500	1696	900000	4169005		42
2	Ust Permit Fees	989	20	3100	1696	900000	4169020		44
3	UST Tank Installers Fees	989	20	3100	1696	900000	4169021		45
4	Food Permit Fees	991	26	2600	1696	900000	4169026		46
	Other								43

TOTAL 19,300 ED

oss Receipt Tax Required

** Site Name & Project Code Required

tact Person: Ed Martin Phone: 476-3492 Date: 5/3/06

aived in ASD By: _____ Date: _____ RT #: ____ ST # : _____

FSB025
Revised 07/07/00

TEPPCO PERMIT PAYMENT
April 28, 2006

File No	ID	Address	Permit Fee
GW-056	Gobernador Compressor Station	TEPPCO NGL Pipelines; 2929 Allen Parkway; Houston TX 77019	$1,700.00
GW-057	Pump Canyon Compressor Station	TEPPCO NGL Pipelines; 2929 Allen Parkway; Houston TX 77019	$1,700.00
GW-059	Manzanares Compressor Station	TEPPCO NGL Pipelines; 2929 Allen Parkway; Houston TX 77019	$1,700.00
GW-058	Hart Canyon Compressor Station	TEPPCO NGL Pipelines; 2929 Allen Parkway; Houston TX 77019	$1,700.00
GW-183	Arch Rock Compressor Station	TEPPCO NGL Pipelines; 2929 Allen Parkway; Houston TX 77019	$1,700.00
GW-194	Frances Mesa Compressor Station	TEPPCO NGL Pipelines; 2929 Allen Parkway; Houston TX 77019	$1,700.00
GW-193	Sandstone Compressor Station	TEPPCO NGL Pipelines; 2929 Allen Parkway; Houston TX 77019	$1,700.00
GW-146	Sims Mesa Compressor Station	TEPPCO NGL Pipelines; 2929 Allen Parkway; Houston TX 77019	$1,700.00
GW-148	Pump Mesa Compressor Station	TEPPCO NGL Pipelines; 2929 Allen Parkway; Houston TX 77019	$1,700.00
GW-051	Val Verde Gas Plant	TEPPCO NGL Pipelines; 2929 Allen Parkway; Houston TX 77019	$ 4,000.00
Total			**$19,300.00**


THE FACE OF THIS DOCUMENT HAS A COLORED BACKGROUND, MICROPRINTING AND A VOID FEATURE PANTOGRAPH.
Wells Fargo Bank Ohio, N.A.
115 Hospital Drive
Van Wert, OH 45891
56-382
412
9600112304
TEPPCO
TEPPCO GP, Inc.
P.O. Box 2521
Houston, TX 77252-2521
(713) 759-3800
April 28, 2006
$ 19,300.00
PAY TO THE ORDER OF NMED Water Quality Management Fund
nineteen thousand three hundred xx/100
DOLLARS
VOID AFTER 90 DAYS
IN SERVICE
MP

NEW MEXICAN

Founded 1849

RECEIVED
DEC 7 - 2005
OIL CONSERVATION DIVISION

EMNRD MINING & MINERALS
ATTN: Wayne Price
1220 S St. Francis Dr
SANTA FE NM 87505

ALTERNATE ACCOUNT: 56660
AD NUMBER: 00148693 ACCOUNT: 00002190
LEGAL NO: 78092 P.O. #: 06-199-050125

477 LINES 1 TIME(S)	267.12
AFFIDAVIT:	0.00
TAX:	20.20
TOTAL:	287.32

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO
COUNTY OF SANTA FE

I, R. Lara, being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily newspaper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication # 78092 a copy of which is hereto attached was published in said newspaper 1 day(s) between 12/06/2005 and 12/06/2005 and that the notice was published in the newspaper proper and not in any supplement; the first date of publication being on the 6th day of December, 2005 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

Approved

/S/ R. Lara
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this 6th day of December, 2005

Notary Janet L. Montoya

Commission Expires: 12/30/07

OFFICIAL SEAL
Janet L. Montoya
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 12/30/07

NOTICE OF PUBLICATION

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge permit application(s) has been submitted to the Director of the Oil Conservation Division, 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

Ms L. Kristine Aparicio, Manager Environmental Protection, TEPPCO NGL Pipelines, LLC., 2929 Allen Parkway, 70019 P.O. Box 2521 Houston, Texas 77252-2521, telephone 713-759-3636, has submitted renewal applications for the previously approved discharge plans operated by Duke Energy Field Services for the following facilities:

Gobernador Compressor Station GW-056 located in NW/4 NW/4 of Section 31-Township 30N-Range 7W Ro Arriba County, New Mexico. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of 80 feet with an estimated total dissolved solids concentration of 1700 mg/l.

Pump Mesa Compressor Station GW-148 located in SE/4 of Section 14-Township 31N-Range 8W San Juan Country, New Mexico. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of greater than 20 feet with an estimated total dissolved solids concentration of 1700 mg/l.

Sims Mesa Compressor Station GW-146 located in NE/4 of Section 22-Township 30N-Range 7W Rio Arriba Country, New Mexico. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of greater than 14 feet with an estimated total dissolved solids concentration of 1700 mg/l.

Pu[redacted]anyon Compress[redacted] Station GW-057 located in NW/4 SW/4 of Section 24-Township 30N-Range 9W San Juan Country, New Mexico. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of 40-120 feet with an estimated total dissolved solids concentration of 1700 mg/l.

Manzanares Compressor Station GW-059 located in SW/4 SE/4 of Section 4-Township 29N-Range 8W San Juan Country, New Mexico. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of 211 feet with an estimated total dissolved solids concentration of 1700 mg/l.

Hart Canyon Compressor Station GW-058 located in NW/4 SE/4 of Section 20-Township 31N-Range 10W San Juan Country, New Mexico. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of 130 feet with an estimated total dissolved solids concentration of 1700 mg/l.

Val Verde Treater Gas Processing Plan t Station GW-051 located in SE/4 SE/4 of Section 11-Township 29N-Range 11W San Juan Country, New Mexico. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of 26-55 feet with an estimated total dissolved solids concentration matching that of the San Juan River and Citizens Ditch..

Arch Rock Compressor Station GW-183 located in NW/4 SW/4 of Section 14-Township 31 -Range 10W San juan Country, New Mexico. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of 51 feet with an estimated total dissolved solids concentration of 1300 mg/l.

Frances Mesa Compressor Station GW-194 located in SW/4 SW/4 of Section 27-Township 30N-Range 7W San Juan Country, New Mexico. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of 240 feet with an estimated total dissolved solids concentration of 1700 mg/l.

Sandstone Compressor Station GW-193 located in SE/4 SE/4 of Section 32-Township 31 N-Range 8W San Juan Country, New Mexico. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of 80 feet with an estimated total dissolved solids concentration of 1700 mg/l.

The discharge plans addresses how best management practices will be used to properly handle, store, and dispose of oilfield materials and waste. The plan will also have contingencies for preventing and managing releases of accidental discharges of water contaminants to the surface in order to protect fresh water.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge permit application and draft discharge permit may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. The draft discharge permit may also be viewed at OCD's web site http://www.emnrd.state.nm.us/ocd/. Prior to ruling on any proposed discharge permit or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

[redacted] no public hearing is held, the Director will approve or disapprove the proposed permit based on information available. If a public hearing is held, the director will approve or disapprove the proposed permit based on information in the permit and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 30th day of November 2005.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

S E A L

Mark Fesmire, Director

Legal #78092
Pub. December 6, 2005

Ad No. 5263

STATE OF NEW MEXICO
County of San Juan:

CONNIE PRUITT, being duly sworn says: That she is the ADVERTISING MANAGER of THE DAILY TIMES, a daily newspaper of general circulation published in English at Farmington, said county and state, and that the hereto attached Legal Notice was published in a regular and entire issue of the said DAILY TIMES, a daily newspaper duly qualified for the purpose within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico for publication and appeared in the Internet at The Daily Times web site on the following day(s):

Sunday, December 04, 2005.

And the cost of the publication is $178.18.

Connie Pruitt

ON 12/6/05 CONNIE PRUITT appeared before me, whom I know personally to be the person who signed the above document.

[signature]

My Commission Expires November 17, 2008.

COPY OF PUBLICATION

NOTICE OF PUBLICATION

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

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Pump Mesa Compressor Station GW-148 located in SE/4 of Sectian 14-Township 31N-Range 8W San Juan Country, New Mexico. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of greater than 20 feet with an estimated total dissolved solids concentration of 1700 mg/l.

Sims Mesa Compressar Station GW-146 located in NE/4 of Section 22-Township 30N-Range 7W Rio Arriba Country, New Mexico. Groundwoter most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of greater than 14 feet with an estimated total dissolved solids concentration of 1700 mg/l.

Pump Canyon Compressor Station GW-057 located in NW/4 SW/4 of Section 24-Township 30N-Range 9W San Juan Country, New Mexico. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of 40-120 feet with an estimated total dissolved solids concentration of 1700 mg/l.

Manzanares Compressor Stotion GW-059 located in SW/4 SE/4 of Section 4-Township 29N-Ronge 8W San Juan Country, New Mexico. Groundwater most likely to be affected by a spill, leak, or accidentol discharge to the surface is at o depth of 211 feet with an estimated total dissalved solids concentration of 1700 mg/l.

Hart Canyan Compressor Station GW-058 located in NW/4 SE/4 of Section 20-Township 31N-Range 10W San Juan Country, New Mexico. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth af 130 feet with an estimated total dissolved solids concentration of 1700 mg/l.

Val Verde Treoter Gas Processing Plan t Station GW-051 located in SE/4 SE/4 of Section 11-Township 29N-Range 11W San Juon Country, New Mexico. Groundwater most likely ta be affected by a spill, leak, or accidental discharge to the surface is at a depth of 26-55 feet with an estimated total dissolved solids concentration matching that of the San Juan River and Citizens Ditch..

Arch Rock Compressor Station GW-183 lacated in NW/4 SW/4 of Section 14-Township 31 -Range 10W San Juan Country, New Mexico. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at o depth of 51 feet with an estimated total dissolved solids concentratian of 1300 mg/l.

Frances Mesa Compressor Station GW-194 located in SW/4 SW/4 of Section 27-Township 30N-Range 7W San Juan Country, New Mexico. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at o depth of 240 feet with an estimated total dissolved solids concentratian of 1700 mg/l.

Sandstone Compressar Station GW-193 located in SE/4 SE/4 of Section 32-Township 31 N-Range 8W San Juan Cauntry, New Mexico. Groundwater mast likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of 80 feet with an estimated total dissolved solids concentration af 1700 mg/l.

The discharge plans addresses how best management practices will be used to properly handle, store, and dispose of oilfield materials and waste. The plan will also have contingencies for preventing and managing releases of accidental discharges of water contaminants to the surface in order to protect fresh water.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge permit application and draft discharge permit may be viewed at the above address between 8:00 a.m. ond 4:00 p.m., Monday through Friday. The draft discharge permit may also be viewed at OCD's web site http://www.emnrd.state.nm.us/ocd/. Prior to ruling on any proposed dischorge permit or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted and a public hearing may be requested by any interested person. Requests far a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed permit based on information available. If a public hearing is held, the director will approve or disapprove the proposed permit based on information in the permit and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 30th day of November 2005.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

SEAL

Mark Fesmire, Director

Legal No. 52636 published in The Daily Times

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ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

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Pump Mesa Compressor Station GW-148 located in SE/4 of Section 14-Township 31N-Range 8W San Juan Country, New Mexico. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of greater than 20 feet with an estimated total dissolved solids concentration of 1700 mg/l.

Sims Mesa Compressor Station GW-146 located in NE/4 of Section 22-Township 30N-Range 7W Rio Arriba Country, New Mexico. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of greater than 14 feet with an estimated total dissolved solids concentration of 1700 mg/l.

Pump Canyon Compressor Station GW-057 located in NW/4 SW/4 of Section 24-Township 30N-Range 9W San Juan Country, New Mexico. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of 40-120 feet with an estimated total dissolved solids concentration of 1700 mg/l.

Manzanares Compressor Station GW-059 located in SW/4 SE/4 of Section 4-Township 29N-Range 8W San Juan Country, New Mexico. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of 211 feet with an estimated total dissolved solids concentration of 1700 mg/l.

Hart Canyon Compressor Station GW-058 located in NW/4 SE/4 of Section 20-Township 31N-Range 10W San Juan Country, New Mexico. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of 130 feet with an estimated total dissolved solids concentration of 1700 mg/l.

Val Verde Treater Gas Processing Plan t Station GW-051 located in SE/4 SE/4 of Section 11-Township 29N-Range 11W San Juan Country, New Mexico. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of 26-55 feet with an estimated total dissolved solids concentration matching that of the San Juan River and Citizens Ditch..

Arch Rock Compressor Station GW-183 located in NW/4 SW/4 of Section 14-Township 31 -Range 10W San juan Country, New Mexico. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of 51 feet with an estimated total dissolved solids concentration of 1300 mg/l.

Frances Mesa Compressor Station GW-194 located in SW/4 SW/4 of Section 27-Township 30N-Range 7W San Juan Country, New Mexico. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of 240 feet with an estimated total dissolved solids concentration of 1700 mg/l.

Sandstone Compressor Station GW-193 located in SE/4 SE/4 of Section 32-Township 31 N-Range 8W San Juan Country, New Mexico. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of 80 feet with an estimated total dissolved solids concentration of 1700 mg/l.

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 30th day of November 2005.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

S E A L

Mark Fesmire,
Director

TEPPCO

Environmental, Health, Safety and Regulatory Compliance

2929 Allen Parkway, 70019
P.O. Box 2521
Houston, Texas 77252-2521
Office 713/759-3636
Fax 713/759-3931

October 27, 2005

CERTIFIED MAIL NO.
7004 2510 0003 2575 1480
RETURN RECEIPT REQUESTED

Mr. Wayne Price
New Mexico Energy, Minerals & Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: TEPPCO NGL Pipelines, LLC
TEPPCO Val Verde Treater Gas Processing Plant
San Juan County, New Mexico
Groundwater Discharge Plan (GW-051) Renewal Application

Dear Mr. Price:

TEPPCO NGL Pipelines, LLC ("TEPPCO") is submitting the enclosed Discharge Plan Application (Attachment 1) for its TEPPCO Val Verde Treater Gas Plant in San Juan County, New Mexico. Enclosed with the discharge plan renewal is TEPPCO Check No. **0200428488** (Attachment 4) in the amount of **$100.00** for the application filing fee. The permit fee in the amount of $1,700 will be paid once the application is approved.

As mentioned in previous permit renewal applications submitted by the former operator, Duke Energy Field Services ("DEFS"), TEPPCO does not believe that a discharge plan is required for this facility under the Water Quality Control Commission ("WQCC") regulations because there are no discharges from the TEPPCO Val Verde Treater Gas Plant.

Notwithstanding the submittal of the enclosed permit fees and documents, TEPPCO does not waive its right to question or dispute the need and/or requirement for this permit at the referenced facility or other Val Verde facilities.

If you have any questions or require additional information, please contact Peter Cain at (713) 284-5213 or myself at (713) 759-3654.

Sincerely,

L. Kristine Aparicio
Manager, Environmental Protection

TEPPCO NGL Pipelines, LLC
TEPPCO Val Verde Treater Gas Processing Plant
Groundwater Discharge Plan Renewal Application

Attachment 1
Discharge Plan Application

October 27, 2005

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Revised June 10, 2003

Submit Original
Plus 1 Copy
to Santa Fe
1 Copy to Appropriate
District Office

DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES,GAS PLANTS, REFINERIES, COMPRESSOR, GEOTHERMAL FACILITES AND CRUDE OIL PUMP STATIONS

(Refer to the OCD Guidelines for assistance in completing the application)

☐ New ☒ Renewal ☐ Modification

1. Type: TEPPCO Val Verde Treater Gas Plant
2. Operator: TEPPCO NGL Pipelines, LLC

   Address: PO Box 2521, Houston, Texas 77252-2521

   Contact Person: L. Kristine Aparicio Phone: 713-759-3636
3. Location: SE /4 SE /4 Section 11 Township 29N Range 11W

   Submit large scale topographic map showing exact location.
4. Attach the name, telephone number and address of the landowner of the facility site.
5. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.
6. Attach a description of all materials stored or used at the facility.
7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.
8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
9. Attach a description of proposed modifications to existing collection/treatment/disposal systems.
10. Attach a routine inspection and maintenance plan to ensure permit compliance.
11. Attach a contingency plan for reporting and clean-up of spills or releases.
12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.
13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.
14. CERTIFICATIONI hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: L. Kristine Aparicio Title: Manager, Environmental Protection

Signature: L. Kristine Aparicio Date: 10-27-05

E-mail Address:

Val Verde Treater Gas Plant
SE/4, SE/4 of Section 11, Township 29N, Range 11W
San Juan County, New Mexico

GROUNDWATER DISCHARGE PLAN

This document constitutes a renewal application for the Groundwater Discharge Plan for the Val Verde Treater Gas Plant in San Juan County, New Mexico. This Groundwater Discharge Plan has been prepared in accordance with the NMOCD "Guidelines for the Preparation of Discharge Plans at Natural Gas Plants, Refineries, Compressor and Crude Oil Pump Stations" (rev. 12-95) and the New Mexico Water Quality Control Commission ("WQCC") regulations, 20.6.2.3-104 and 3-106 NMAC.

1 Type of Operation

The facility does not intend or have a discharge or discharges that may move directly or indirectly into groundwater.

2 Operator / Legally Responsible Party

Operator
TEPPCO NGL Pipelines, LLC
PO Box 2521
Houston, Texas 77252-2521
(713) 759-3636
Contact Person: L. Kristine Aparicio

Owner
Val Verde Gas Gathering Company, LP
PO Box 2521
Houston, Texas 77252-2521

3 Facility Location

SE/4, SE/4 of Section 11, Township 29N, Range 11W

4 Landowner

U.S. Department of the Interior
Bureau of Land Management
1235 La Plata Highway
Farmington, NM 87499
(505) 599-8900

5 Facility Description

The facility provides CO2 removal from the natural gas after it has been compressed.

6 Materials Stored or Used

There are no materials stored on-site or used that are discharged on site so that they may move directly or indirectly into groundwater.

7 Sources and Quantities of Effluent and Waste Solids

There are no effluents or waste solids that are discharged on-site or off-site at the TEPPCO Val Verde Treater Gas Plant. All effluent and waste solids generated at the facility are removed from the facility for off-site disposal in accordance with applicable NMOCD, New Mexico Environmental Department ("NMED"), and EPA regulations as stated in previous groundwater discharge plans.

Separators/Scrubbers
Effluents or waste solids generated from separators or scrubbers are not discharged on site so that they may move directly or indirectly into groundwater.

Boilers and Cooling Towers/Fans
There are no boilers or cooling towers/fans at the facility.

Process and Storage Equipment Wash Down
Effluent or waste solids generated from process and storage equipment wash down are not discharged on site so that they may move directly or indirectly into groundwater.

Solvents/Degreasers
Solvent or degreasers are not discharged on site so that they may move directly or indirectly into groundwater.

Spent Acids/Caustics
If generated, spent acids or caustics are not discharged on site so that they may move directly or indirectly into groundwater.

Used Engine Coolants
Engine coolants are not discharged on site so that they move directly or indirectly into groundwater.

Waste Lubrication and Motor Oils
Lubricating and motor oils are not discharged on site so that they may move directly or indirectly into groundwater.

Used Oil Filters
Used oil filters are not discharged on site so that they may move directly or indirectly into groundwater.

Solids and Sludges
Solids and sludges are not discharged on site so that they may move directly or indirectly into groundwater

Painting Wastes
Painting wastes are not discharged on site so that they may move directly or indirectly into groundwater

Sewage
There are no restroom facilities at the facility. A portable toilet is kept on site.

Lab Wastes
Lab wastes are not generated at the facility.

Other Liquids and Solid Wastes
Other liquids and solid wastes are not discharged on site so that they may move directly or indirectly into groundwater.

8 Liquid and Solid Waste Collection / Storage / Disposal

Collection / Storage
All liquid and solid wastes are collected and stored in closed containers for off-site disposal.

On-site Disposal
There are no on-site disposal activities at the facility

Off-site Disposal
All liquid and solid wastes are disposed off site.

9 Proposed Modifications

No modifications are proposed at this time.

10 Inspection, Maintenance, and Reporting

Routine inspections and maintenance are performed to ensure proper collection, storage, and off-site disposal of all wastes generated at the facility.

11 Spill / Leak Prevention and Reporting (Contingency Plans)

TEPPCO will respond to and report spills as outlined in the TEPPCO SPCC plan for TEPPCO Val Verde Treater Gas Plant and in accordance with the requirements of NMOCD Rule 116 (19.15.C.116) and WQCC regulation (20.6.2.1203 NMAC)

12 Site characteristics

Geological/hydrological information for this facility has not changed since the previous renewal application.

Hydrologic Features

Surface water near the Val Verde Treater Plant consists of the San Juan River and a nearby irrigation canal named Citizens Ditch. Citizens Ditch runs from east to west and is approximately one-half mile south of the plant site. The San Juan River is approximately 1.5 miles south of the plant site.

Cathodic well data in the area indicates the depth to groundwater to be approximately 26 to 55.5 feet.

Based on a review of the topographic map for the area, groundwater flow direction is likely to be to the south.

Geologic Description

The Val Verde Treater Plant's subsurface can be characterized by clayey sand and silt, and silty clay and sand resting on top of the sandstone and mudstone units of the Naciemento Formation.

The sandstone and mudstone units only appear in the northern half of the plant site. It is thought that these units in the southern half of the plant were eroded away by what is now the San Juan River, and subsequently replaced with sediments eroded from the north and east.

TEPPCO Val Verde Treater Gas Plant lies more than 160 feet above the San Juan River to the south. One wash/arroyo lies to the northeast of the site. This area is not typically subject to flooding, therefore special flood protection measures are not needed.

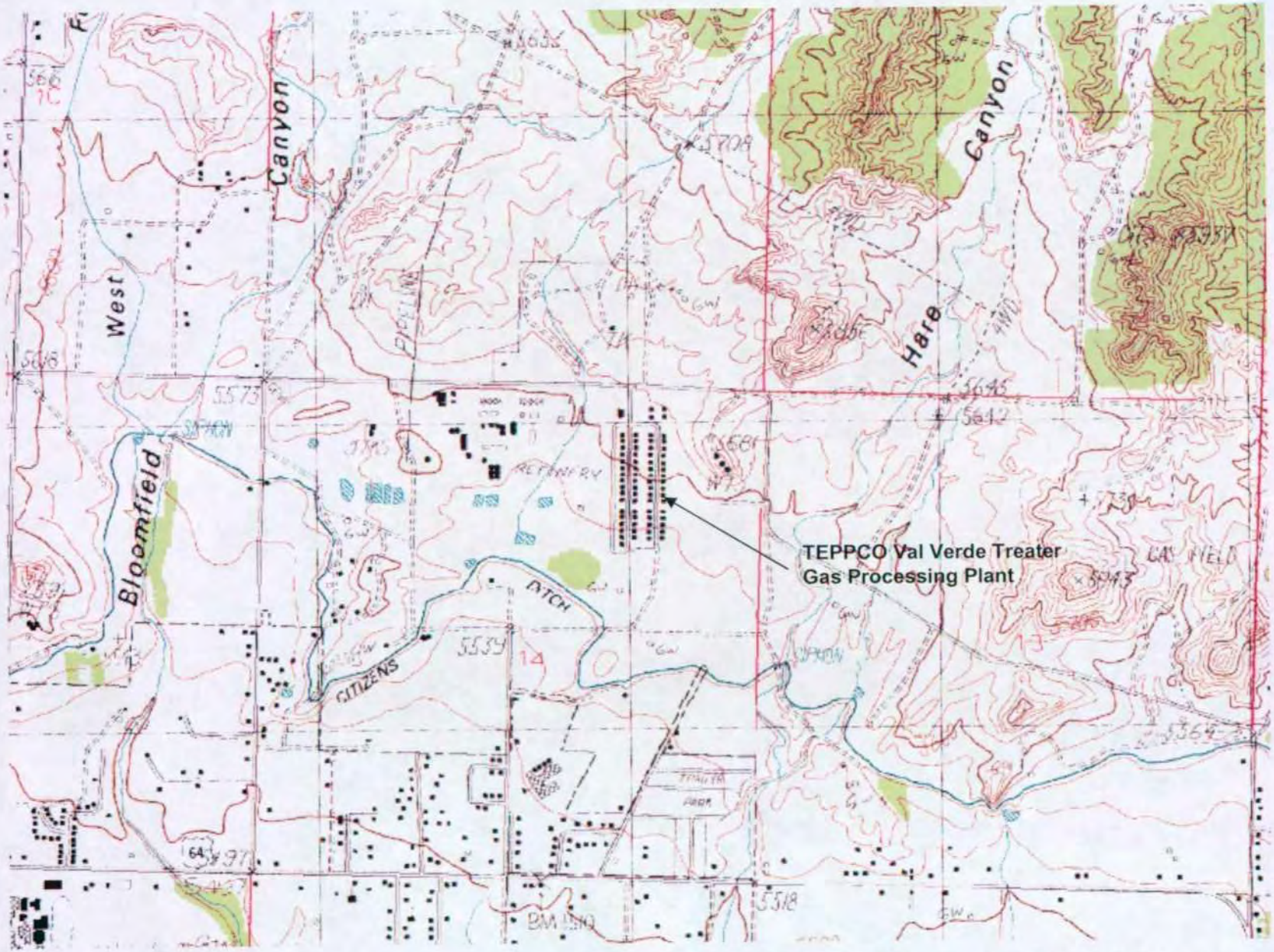
13 Additional Information

Any unauthorized releases or discharge will be reported to the NMOCD in accordance with NMOCD Rule 116, 19.15.C.116 NMAC, and WQCC regulation, 20.6.2.1203.

TEPPCO NGL Pipelines, LLC
TEPPCO Val Verde Treater Gas Processing Plant
Groundwater Discharge Plan Renewal Application

Attachment 2
Site Location Map
USGS Topographic Map
Bloomfield Quad

October 27, 2005

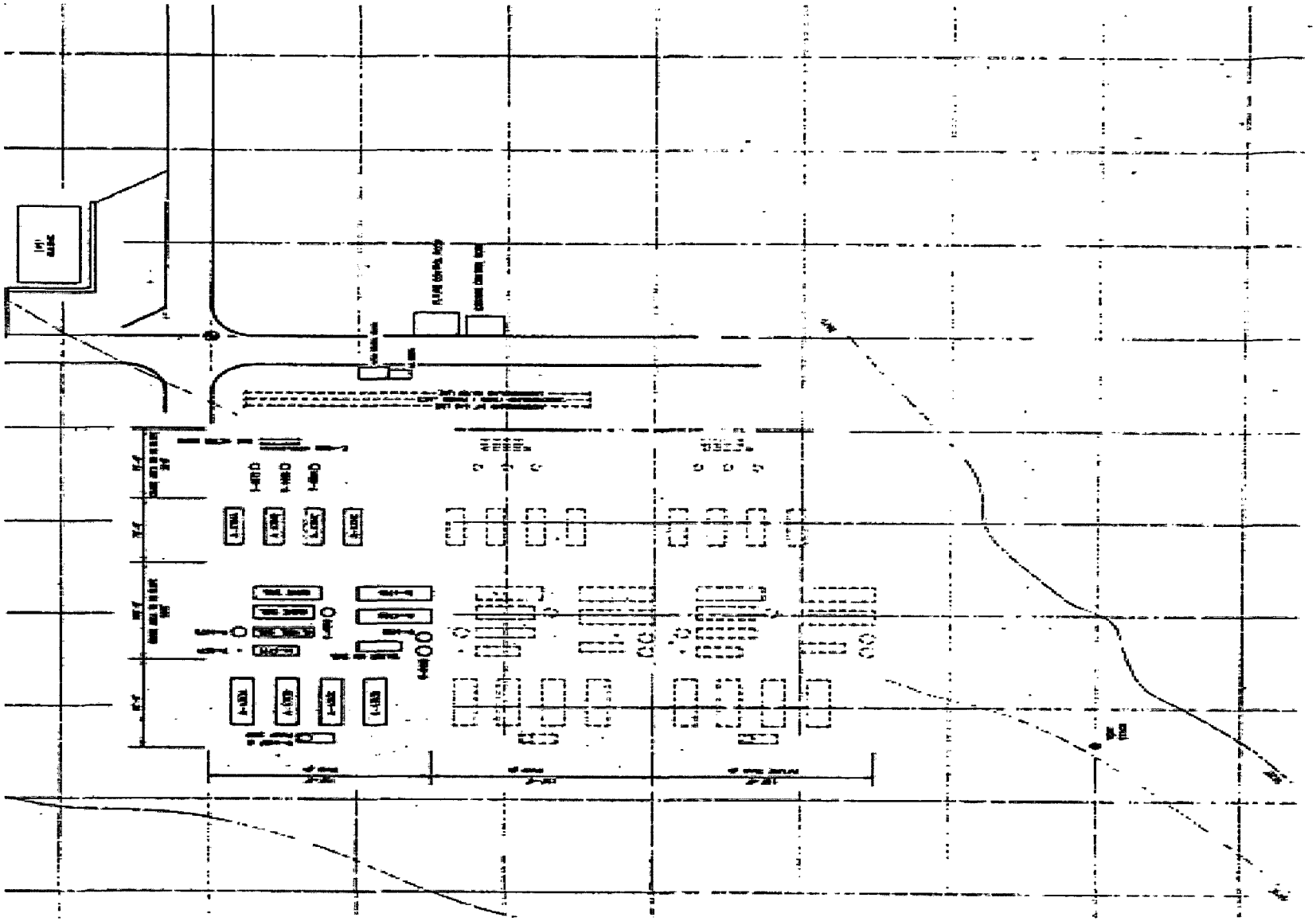


TEPPCO Val Verde Treater Gas Processing Plant, Bloomfield, NM Quad

TEPPCO NGL Pipelines, LLC
TEPPCO Val Verde Treater Gas Processing Plant
Groundwater Discharge Plan Renewal Application

Attachment 3
Facility Plot Plan

October 27, 2005



TEPPCO Val Verde Treater Gas Processing Plant

Facility Plot Plan

TEPPCO NGL Pipelines, LLC
TEPPCO Val Verde Treater Gas Processing Plant
Groundwater Discharge Plan Renewal Application

Attachment 4
TEPPCO Check No 0200428488

October 27, 2005

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

September 30, 2005

CERTIFIED MAIL
RETURN RECEIPT NO. 7001 1940 0004 7923 4788

Karin Kimura
Duke Energy Field Service
370 17th Street
Denver, Colorado 80202

Subject Matter: Compliance Orders

Dear Ms. Kimura:

Please find enclosed Compliance Orders for the following facilities:

NM-OCD 2006-002	Val Verde Plant	GW-051
NM-OCD 2006-003	Arch Rock Compressor St.	GW-183
NM-OCD 2006-004	Sandstone Compressor St.	GW-193
NM-OCD 2006-005	Hobbs Gas Processing Plant	GW-175
NM-OCD 2006-006	Apex Compressor St.	GW-163

Sincerely,

Mark E. Fesmire, P.E.
Director-Oil Conservation Division

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

September 16, 2005

CERTIFIED MAIL
RETURN RECEIPT NO. 7001 1940 0004 7923 4764

Karin Kimura
Duke Energy Field Service
P.O. Box 5493
Denver, Colorado 80202

Subject Matter: Compliance Orders

Dear Ms. Kimura:

Please find enclosed Compliance Orders for the following facilities:

NM-OCD 2006-002	Val Verde Plant	GW-051
NM-OCD 2006-003	Arch Rock Compressor St.	GW-183
NM-OCD 2006-004	Sandstone Compressor St.	GW-193
NM-OCD 2006-005	Hobbs Gas Processing Plant	GW-175
NM-OCD 2006-006	Apex Compressor St.	GW-163

Sincerely,

J. Daniel Sanchez
Enforcement and Compliance Manager
Oil Conservation Division

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

September 16, 2005

CERTIFIED MAIL
RETURN RECEIPT NO. 7001 1940 0004 7923 4764

Karin Kimura
Duke Energy Field Service
P.O. Box 5493
Denver, Colorado 80202

Subject Matter: Compliance Orders

Dear Ms. Kimura:

Please find enclosed Compliance Orders for the following facilities:

NM-OCD 2006-002	Val Verde Plant	GW-051
NM-OCD 2006-003	Arch Rock Compressor St.	GW-183
NM-OCD 2006-004	Sandstone Compressor St.	GW-193
NM-OCD 2006-005	Hobbs Gas Processing Plant	GW-175
NM-OCD 2006-006	Apex Compressor St.	GW-163

Sincerely,

J. Daniel Sanchez
Enforcement and Compliance Manager
Oil Conservation Division

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

September 15, 2005

This is a directive to notify that I, Mark Fesmire, will be out of the office from September 16 through 23, 2005.

During my absence, Daniel Sanchez is hereby given authority to sign all OCD documents requiring my signature.

Mark E. Fesmire, PE
Director

Price, Wayne

From: Price, Wayne
Sent: Monday, August 09, 2004 10:02 AM
To: Karin Char (E-mail)
Cc: Foust, Denny
Subject: Val Verde plant GW-051-

Second request for information:

response to Kimura letter jul...

Sincerely:

Wayne Price
New Mexico Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505
505-476-3487
fax: 505-476-3462
E-mail: WPRICE@state.nm.us

Duke Energy®
Field Services

RECEIVED

OCT 0 2 2003

OIL CONSERVATION DIVISION

DUKE ENERGY FIELD SERVICES
370 17th Street
Suite 900
Denver, CO 80202

303 595 3331

September 29, 2003

CERTIFIED MAIL
RETURN RECEIPT REQUESTED *(Article No. 7002 2030 0006 2471 1650)*

Mr. Roger Anderson
New Mexico Energy, Minerals
& Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Subject: Val Verde Gas Processing Plant
Discharge Plan GW-51
San Juan County, New Mexico

Dear Mr. Anderson:

As you will recall from our previous discussions, Duke Energy Field Services, LP (DEFS) requests cancellation or termination of the discharge plan for the Val Verde Gas Processing Plant, located in San Juan County, on the grounds that the Water Quality Control Commission (WQCC) regulations do not require such a plan for this facility.

The purpose of the WQCC regulations at NMAC 20.6.2.3101 et seq. is to protect surface and ground water in the State of New Mexico by controlling discharges of water contaminants onto or below the surface of the ground. These regulations, at 20.6.2.3104, prohibit discharges of effluent or leachate unless such discharges are made pursuant to a permit and are consistent with the terms of that permit. In particular, a person intending to discharge any water contaminant or toxic pollutant so that it may move directly or indirectly into ground water must submit a discharge plan to the WQCC and obtain a permit allowing the proposed discharge. NMAC 20.6.2.3106B.

There are no discharges of effluent, leachate, water contaminants, or toxic pollutants at the Val Verde Gas Processing Plant, nor are any such discharges planned or intended. All wastes generated at this facility are disposed of offsite and in compliance with applicable regulations, either by DEFS or by third parties who have contracted with DEFS to perform such services. A Spill Prevention Control and Countermeasures Plan for the facility has been developed to ensure that accidental spills do not result in discharges to groundwater. Under these circumstances, the WQCC regulations do not require a discharge permit or plan. DEFS believes that the original discharge plan submitted for the Val Verde Plant was erroneously prepared on the basis of a misunderstanding of the regulations. DEFS desires to correct this error, rather than continuing to maintain a discharge plan for a facility where there are no discharges within the meaning of the regulations. Therefore, DEFS requests that the New Mexico Oil Conservation Division (NMOCD) cancel Discharge Plan GW-15.

DEFS would be happy to provide additional information about the Val Verde Gas Processing Plant, if such information would assist NMOCD in reviewing this matter. If you have any questions concerning DEFS' position or the request to cancel the discharge plan, please contact me at (303) 605-1717.

720-635-9460

Sincerely,
Duke Energy Field Services, LP

Karin Kimura
Senior Environmental Specialist

cc: NMOCD District 3 Office *(Certified Mail Return Receipt Requested Article No. 7002 2030 0006 2471 1667)*
1000 Rio Brazos Road
Aztec, New Mexico 87410

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

August 09, 2004

Ms Karin Kimura
Duke Energy Field Service
370 17th Street Suite 900
Denver, Co 80202

Reference: Val Verde Gas Processing Plant
Discharge Plan GW-051
San Juan County, New Mexico

Subject: Second request for information

Dear Ms Kimura:

The New Mexico Oil Conservation Division (OCD) is in receipt of your response letter dated July 22, 2004. You stated in your letter that "DEFS submitted the renewal application with the understanding that the OCD would stay any proceedings until the application of the WQCC's groundwater regulations was resolved".

Please note that section 20.6.2.3106.F (copy enclosed herein) allows the permit not to expire until the application for renewal has been approved or disapproved. It also states that the application for discharge permit renewal must include and adequately address all of the information necessary for evaluation of a new discharge permit. OCD informed you on June 21, 2004 the application was deficient and requested information so OCD may proceed with the review process.

Your July 22, 2004 letter does not satisfy our request. Therefore please provide the information requested in OCD's letter of June 21, 2004 by October 11, 2004. If you have any questions, please contact Wayne Price of my staff at (505-476-3487) or Email wprice@state.nm.us.

Sincerely,

Wayne Price
Environmental Bureau
Attachment-1

Duke Energy®
Field Services

DUKE ENERGY FIELD SERVICES
370 17th Street
Suite 900
Denver, CO 80202

303 595 3331

July 22, 2004

UPS Next Day Air *(Tracking Number1Z F46 915 23 1002 773 3)*

Mr. Wayne Price
New Mexico Energy, Minerals
& Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Subject: Val Verde Gas Processing Plant
Discharge Plan GW-051
San Juan County, New Mexico

Dear Mr. Price:

Duke Energy Field Services, LP (DEFS) received the New Mexico Oil Conservation Division's (OCD) letter dated June 21, 2004 requesting information for the Val Verde Plant's discharge plan renewal application dated May 26, 2004. DEFS submitted the renewal application with the understanding that the OCD would stay any proceedings until the application of the WQCC's groundwater regulations was resolved.

DEFS disagrees that the information requested in the letter is required to evaluate the application. As stated in the May 26, 2004 application, the facility does not intend or have a discharge or discharges that may move directly or indirectly into groundwater. DEFS' responses to OCD's specific requests are in *italic text* below.

1. Item #5 Facility Description. The plan does not properly describe the on site activities. OCD understands that gas is actually treated on-site. Please provide a site map, process flow diagram and a brief description of each process unit.

   There are no activities that result in discharges that may move directly or indirectly into groundwater and DEFS does not intend to have a discharge that may move directly or indirectly into groundwater. A plot plan of the facility was submitted with the May 26, 2004 application. A description of the process units was provided in the previous discharge plan submitted by Burlington Resources on October 5, 2000; no significant changes have been made to the process.

2. Item #6 Material Stored or Used. The plan submitted did not list any materials store on site or how they are stored. Please provide this information.

   As stated in the May 26, 2004 application, there are no materials stored on site or used that are discharged on site so that they may move directly or indirectly into groundwater.

3. Item #7 Sources and Quantities of Effluent Waste Solids. The plan listed a number of sources but failed to list quantities. Please provide this information.

   As stated in the May 26, 2004 application, there are no effluents or waste solids that are discharge on site so that they may move directly or indirectly into groundwater. All effluents and waste solids generated at the facility are removed from the facility for off-site disposal in accordance with applicable regulations.

4. Item #8 Liquids and Solid Waste Collection/Storage/Disposal. The plan failed to identify the liquid and solid waste collected and stored on-site before disposal. In addition, the plan failed to list where the waste is disposed of. Please provide this information.

   As stated in the May 26, 2004 application, all liquid and solid wastes are collected and stored in containers for off-site disposal; there are no on-site disposal activities. The facility does not collect and store any liquid or solid wastes on site that result in a discharge that may directly or indirectly move into groundwater. All effluents and waste solids generated at the facility are removed from the facility for off-site disposal in accordance with applicable regulations.

If you have any questions, please call me at (303) 605-1717.

Sincerely,
Duke Energy Field Services, LP

Karin Kimura
Senior Environmental Specialist

cc: NMOCD District 3 Office *(UPS 2nd Day Air Tracking Number1Z F46 915 37 1002 591 4)*
1000 Rio Brazos Road
Aztec, New Mexico 87410

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

June 21, 2004

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

Karin Kimura
Senior Environmental Specialist
Duke Energy Field Services
370 17th Street Suite 900
Denver, Colorado 80202

Re: Val Verde Gas Processing Plant
Discharge Plan GW-051 Renewal Application
San Juan County, New Mexico

Dear Ms. Kimura:

The New Mexico Oil Conservation Division (OCD) is in receipt of Duke Energy Field Services' Discharge Plan renewal application dated May 26, 2004 and $100 filing fee for the above referenced facility. After reviewing the submittal, OCD has determine the application is deficient in the following areas:

1. Item #5 Facility Description. The plan does not properly describe the on site activities. OCD understands that gas is actually treated on-site. Please provide a site map, process flow diagram and a brief description of each process unit.

2. Item #6 Material Stored or Used. The plan submitted did not list any materials stored on site or how they are stored. Please provide this information.

3. Item #7 Sources and Quantities of Effluent and Waste Solids. The plan listed a number of sources but failed to list quantities. Please provide this information.

4. Item #8 Liquids and Solid Waste Collection/Storage/Disposal. The plan failed to identify the liquid and solid waste collected and stored on-site before disposal. In addition, the plan failed to list where the waste is disposed of. Please provide this information.

In order to issue public notice the application must be administrately complete. OCD has determined the above information is required in order to properly evaluate the application and to issue public notice. Please provide the above information by July 23, 2004. If you have any questions please do not hesitate to contact me at 505-476-3487 or e-mail WPRICE@state.nm.us.

Sincerely;

Wayne Price-Pet. Engr. Spec.
cc: OCD Aztec Office

Duke Energy®
Field Services

DUKE ENERGY FIELD SERVICES
370 17th Street
Suite 900
Denver, CO 80202

303 595 3331

May 28, 2004

UPS Next Day Air *(Tracking Number 1Z F46 915 22 1003 481 6)*

Mr. Roger Anderson
New Mexico Energy, Minerals
& Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Subject: Val Verde Gas Processing Plant
Discharge Plan GW-051
San Juan County, New Mexico

Dear Mr. Anderson:

As you will recall, Duke Energy Field Services, LP (DEFS) has requested cancellation or termination of the discharge plan GW-051 for the Val Verde Gas Processing Plant, located in San Juan County, on the grounds that the Water Quality Control Commission (WQCC) regulations do not require such a plan for this facility. DEFS submitted its written request on September 29, 2003, but has not yet received a response from the New Mexico Oil Conservation Division (NMOCD). Because the current discharge plan for the Val Verde Plant will expire on September 17, 2004, and the regulations require submittal of renewal applications at least 120 days in advance of expiration, DEFS is submitting a renewal application for this discharge plan even though DEFS continues to believe that it is not required to have such a plan for the Val Verde Gas Processing Plant.

NMOCD's representatives have advised DEFS to submit the renewal application pending the determination of NMOCD's legal counsel as to whether a discharge plan is required for the Val Verde Gas Processing Plant, and have stated that the NMOCD will place this renewal application on hold pending such a determination. DEFS will therefore wait for further instructions from NMOCD before fulfilling its public notice requirements for the Val Verde Gas Processing Plant Discharge Plan renewal.

The following enclosed items are hereby submitted for the Val Verde Gas Processing Plant:

- Discharge plan renewal application (original and a copy);
- Check in the amount of $100 for the discharge plan renewal application filing fee.

Please note that DEFS' submittal of the renewal application and application filing fee does not constitute a withdrawal of DEFS' request for cancellation or termination of the discharge plan for this facility, nor does it signify that DEFS has conceded the applicability of the WQCC regulations.

Duke Energy®
Field Services

DEFS would be happy to provide additional information about the Val Verde Gas Processing Plant, if such information would assist NMOCD in reviewing the request for cancellation or termination. If you have any questions concerning DEFS' position or the enclosed renewal application materials, please contact me at (303) 605-1717.

Sincerely,
Duke Energy Field Services, LP

Karin Kimura
Senior Environmental Specialist

Enclosures

cc: NMOCD District 3 Office *(UPS Next Day Air Tracking Number 1Z F46 915 22 1003 480 7)*
1000 Rio Brazos Road
Aztec, New Mexico 87410

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Revised June 10, 2003

Submit Original
Plus 1 Copy
to Santa Fe
1 Copy to Appropriate
District Office

DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES,GAS PLANTS, REFINERIES, COMPRESSOR, GEOTHERMAL FACILITES AND CRUDE OIL PUMP STATIONS

(Refer to the OCD Guidelines for assistance in completing the application)

☐ New ☑ Renewal ☐ Modification

1. Type: Val Verde Plant
2. Operator: Duke Energy Field Services, LP

   Address: 10 Desta Drive, Ste 400 West, Midland, TX 79705

   Contact Person: Mike Betz, Asset Manager Phone: (505) 632-6461

3. Location: SE /4 SE /4 Section 11 Township 29N Range 11W
   Submit large scale topographic map showing exact location.

4. Attach the name, telephone number and address of the landowner of the facility site.
   See attached discharge plan.
5. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.
   See attached discharge plan.
6. Attach a description of all materials stored or used at the facility.
   See attached discharge plan.
7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.
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8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
   See attached discharge plan.
9. Attach a description of proposed modifications to existing collection/treatment/disposal systems.
   See attached discharge plan.
10. Attach a routine inspection and maintenance plan to ensure permit compliance.
    See attached discharge plan.
11. Attach a contingency plan for reporting and clean-up of spills or releases.
    See attached discharge plan.
12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.
    See attached discharge plan.
13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.
    See attached discharge plan.
14. CERTIFICATIONI hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Mike Betz Title: Asset Manager

Signature: [signature] Date: 5-26-04

E-mail Address: MJBETZ@DUKE-ENERGY.COM

Val Verde Gas Processing Plant
SE/4 SE/4 Section 11 Township 29N Range 11W

DISCHARGE PLAN

This document constitutes a renewal application for the Groundwater Discharge Plan for the Val Verde Gas Processing Plant which was previously approved by the NMOCD on August 11, 2000. This Discharge Plan application has been prepared in accordance with the NMOCD "Guidelines for the Preparation of Discharge Plans at Natural Gas Plants, Refineries, Compressor and Crude Oil Pump Stations" (revised 12-95) and New Mexico Water Quality Control Commission (WQCC) regulations, 20.6.2.3-104 and 3-106 NMAC.

1 Type of Operation

The facility does not intend or have a discharge or discharges that may move directly or indirectly into groundwater.

2 Operator / Legally Responsible Party

Operator
Duke Energy Field Services, LP
10 Desta Drive, Ste 400 West
Midland, TX 79705
(505) 634-6461
Contact Person: Mike Betz – Asset Manager

Owner
Val Verde Gas Gathering Company, LP
2929 Allen Parkway
Houston, TX 77019

3 Location Facility

SE/4 SE/4 Section 11 Township 29N Range 11W, San Juan County, NM

See Figure 1 – Site Location Map.

4 Landowner

Val Verde Gas Gathering Company, LP
2929 Allen Parkway
Houston, TX 77019

5 Facility Description

The facility provides natural gas compression for the gathering system.

6 Materials Stored or Used

There are no materials stored on-site or used that are discharged on site so that they may move directly or indirectly into groundwater.

7 Sources and Quantities of Effluent and Waste Solids

There are no effluent or waste solids that are discharged on site so that they may move directly or indirectly into groundwater. All effluent and waste solids generated at the facility are removed from the facility for off-site disposal in accordance with applicable NMOCD, NMED, and EPA regulations.

Separators/Scrubbers
Effluent or waste solids generated from separators or scrubbers are not discharged on site so that they may move directly or indirectly into groundwater.

Boilers and Cooling Towers/Fans
There are no boilers or cooling towers/fans at the facility.

Process and Storage Equipment Wash Down
Effluent or waste solids generated from process and storage equipment wash down are not discharged on site so that they may move directly or indirectly into groundwater.

Solvents/Degreasers
Solvent or degreasers are not discharged on site so that they may move directly or indirectly into groundwater.

Spent Acids/Caustics
If generated, spent acids or caustics are not discharged on site so that they may move directly or indirectly into groundwater.

Used Engine Coolants
Engine coolants are not used at the facility.

Waste Lubrication and Motor Oils
Lubricating and motor oils are not discharged on site so that they may move directly or indirectly into groundwater.

Used Oil Filters
Used oil filters are not generated at the facility.

Solids and Sludges
Solids and sludges are not discharged on site so that they may move directly or indirectly into groundwater.

Painting Wastes
Painting wastes are not discharged on site so that they may move directly or indirectly into groundwater.

Sewage
Sewage generated on site is routed to an on-site septic tank and leach line system subject to the New Mexico Environment Department Liquid Waste Disposal regulation, 20.7.3 NMAC.

Lab Wastes
Lab wastes generated at the facility for testing amine is returned to the amine recycling system and not discharged on site so that they may move directly or indirectly into groundwater.

Other Liquids and Solid Wastes
Other liquids or solid wastes are not discharged on site so that they may move directly or indirectly into groundwater.

8 Liquid and Solid Waste Collection / Storage / Disposal

Collection/Storage
All liquid and solid wastes are collected and stored in containers for off-site disposal.

On-site Disposal
There are no on-site disposal activities at the facility.

Off-site Disposal
All liquid and solid wastes are disposed off site.

9 Proposed Modifications

DEFS requests modification to Condition 11 in the August 11, 2000 Discharge Plan Approval Conditions. Condition 11 states: "Housekeeping: All systems designed for spill collection/prevention, and leak detection will be inspected daily to ensure proper operation and to prevent over topping or system failure. All spill collection and/or secondary containment devices will be emptied of fluids within 48 hours of discovery." Since the facility is located in an area that does not receive much rainfall, DEFS requests to modify this condition to inspect all systems designed for spill collection/prevention, and leak detection on a monthly basis and after each storm event.

10 Inspection, Maintenance, and Reporting

Routine inspections and maintenance are performed to ensure proper collection, storage, and off-site disposal of all wastes generated at the facility.

11 Spill / Leak Prevention and Reporting (Contingency Plans)

DEFS will respond to and report spills as outlined in the DEFS Environmental Compliance Manual and in accordance with the requirements of NMOCD Rule 116 [19.15.C.116 NMAC] and WQCC regulation [20.6.2.1203 NMAC].

12 Site Characteristics

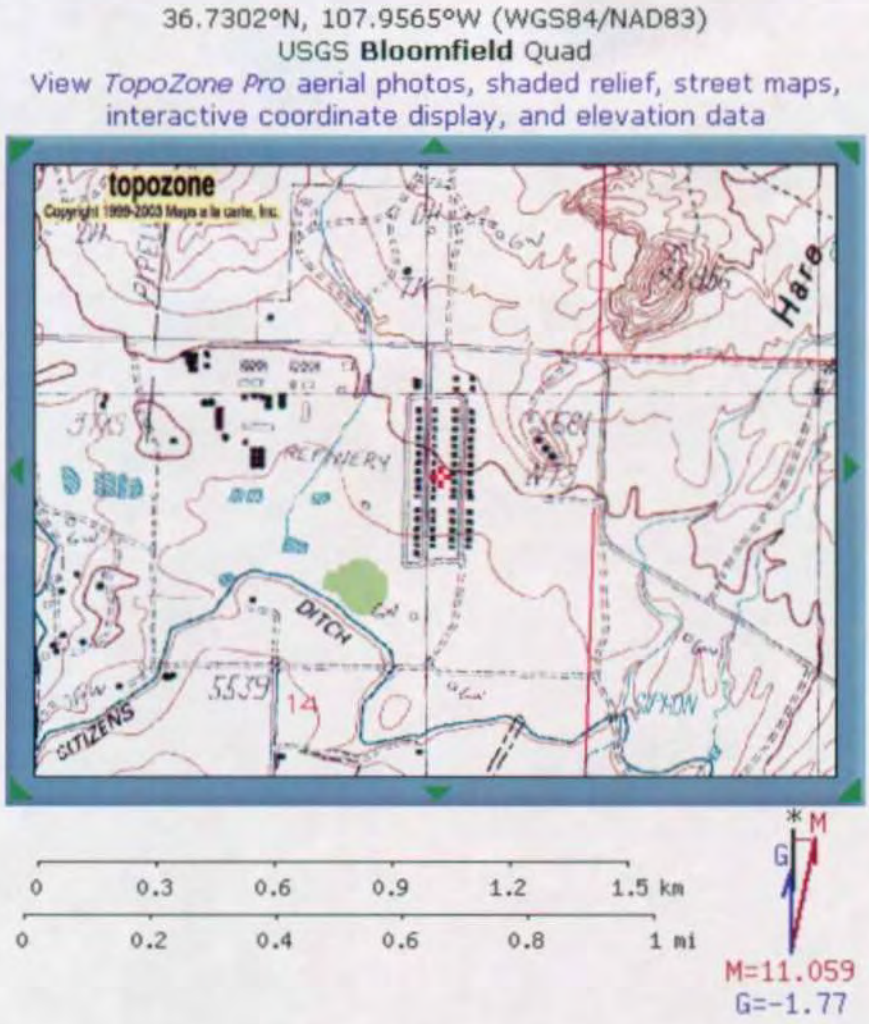
No Changes.

13 Additional Information

All unauthorized releases and discharges will be reported to the NMOCD in accordance with NMOCD Rule 116, 19.15.C.116 NMAC, and WQCC regulation, 20.6.2.1203 NMAC.

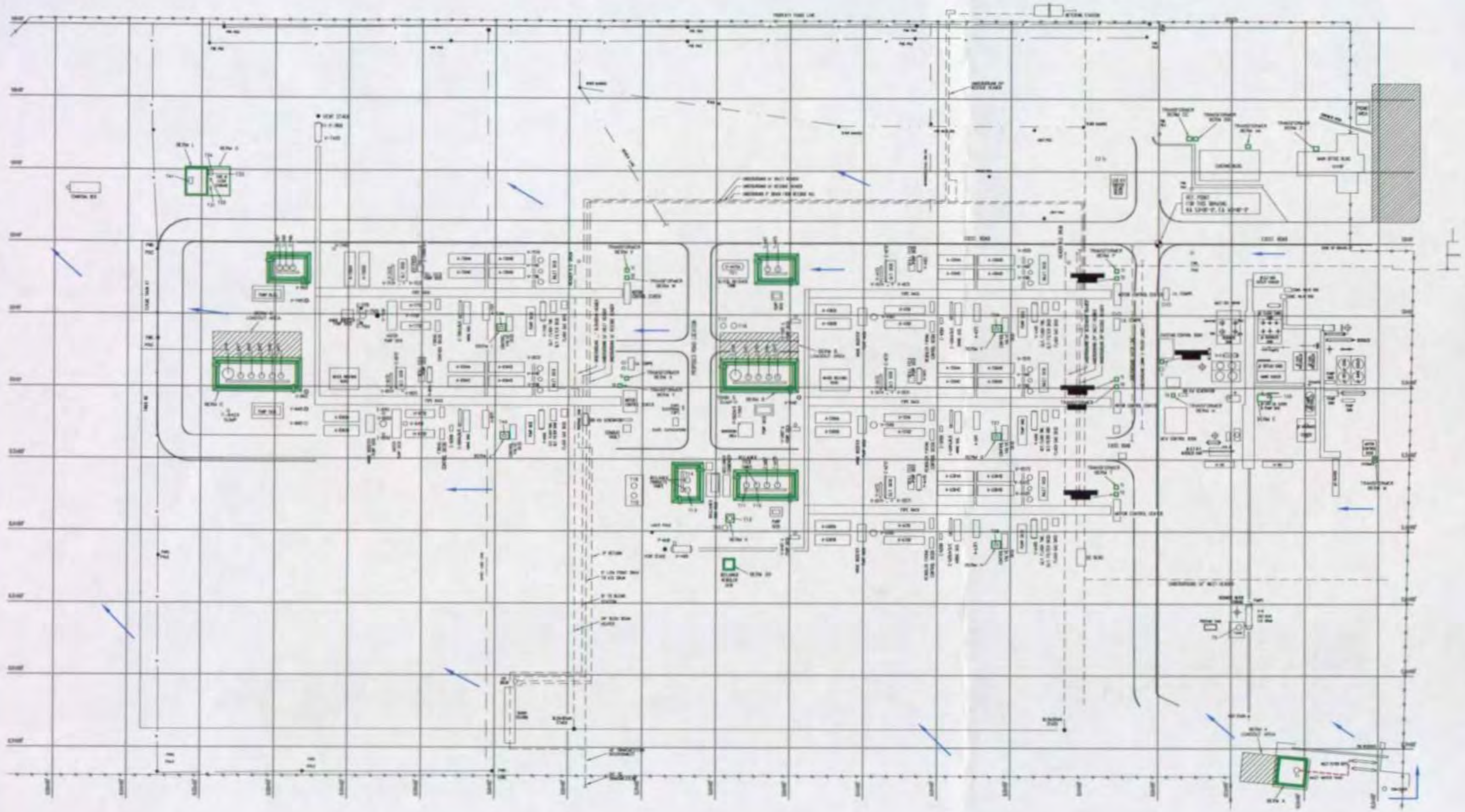
FIGURES

FIGURE 1. Site Location Map – Val Verde Gas Processing Plant.



✣ Facility

FIGURE 2. Facility Plot Plan –Val Verde Gas Processing Plant.



Oil Storage Containers

AMS Name	Field Name	Contents Description	Capacity
None	T1	Wastewater	210 bbl
T-5418	T-5418	Wastewater	500 bbl
T-5418	T-5418	Wastewater	500 bbl
None	T31	Diesel	317 gal
None	T32	Unleaded Gasoline	333 gal
None	T33	Kerosene	438 gal
None	T34	Used Oil	528 gal
None	T35	Antifoam	500 gal
None	T36	Antifoam	500 gal
None	T37	Antifoam	500 gal
None	T38	Antifoam	500 gal
None	T39	Antifoam	500 gal
None	T40	Antifoam	500 gal
None	T12	Dowtherm J	25 bbl
None	T41 (Trailer mounted)	Used Oil	528 gal
None	Drum Storage Area	Various 55-gallon drums	NA

Process Equipment Containing Oils

AMS Name	Field Name	Contents Description	Capacity
None	Amine Reclaimer Reboiler	Hot Oil	550 gal
T-5419	T-5419 (Sump)	Used Oil, Wastewater	580 gal
T-9435	T-9435 (Sump)	Used oil, Wastewater	588 gal
None	Inlet Filter Separator	Produced Water	50 bbl
None	Amine Reclaimer Hot Oil Surge Tank	Hot Oil	100 bbl

Oil Containing Equipment

AMS Name	Field Name	Contents Description	Capacity
None	Train 3	Transformer Oil	401 gal
None	Control Room	Transformer Oil	243 gal
None	Train 1&2	Transformer Oil	533 gal
None	Train 4 West	Transformer Oil	363 gal
None	Train 4 East	Transformer Oil	363 gal
None	Train 5 West	Transformer Oil	363 gal
None	Train 5 East	Transformer Oil	363 gal
None	Train 6 West	Transformer Oil	363 gal
None	Train 6 East	Transformer Oil	363 gal
None	Train 7 West	Transformer Oil	363 gal
None	Train 7 East	Transformer Oil	363 gal
None	Train 8 West	Transformer Oil	363 gal
None	Train 8 East	Transformer Oil	363 gal
None	Office Building	Transformer Oil	153 gal
None	Spare Transformer North	Transformer Oil	363 gal
None	Spare Transformer South	Transformer Oil	355 gal

Non-Oil Storage Containers

AMS Name	Field Name	Contents Description
None	T2	Amine
T-5475	T-5475	Glycol
T-5416	T-5416	CS+
T-5415	T-5415	Oil Water
T5417	T5417	CS+ Rundown
T-5475	T-5475	Glycol
T-5417	T-5417	CS+ Rundown
None	T10	Non Spec CS+
None	T11	Non Spec CS+
None	T13	Used CS+
None	T14	Used CS+
None	T15	Used CS+
None	T16	Used CS+
T-4475	T-4475	Glycol
T-4417	T-4417	CS+ Rundown
None	T21	Used TEG
T-7416	T-7416	Glycol
T-7419	T-7419	CS+ Rundown
T-7417	T-7417	Hot Wastewater Rundown
T-9475	T-9475	Glycol
T-9416	T-9416	CS+
T-9415	T-9415	Makeup Water
T-9419	T-9419	Hot Wastewater Rundown
T-9417	T-9417	CS+ Rundown

LEGEND:

—x— FENCE

— — — APPROXIMATE PROPERTY BOUNDARY

— — — OIL CONTAINING PIPE

← SURFACE WATER DRAINAGE DIRECTION

□ SECONDARY CONTAINMENT BERM

NOT TO SCALE

Note: This drawing is based on a field sketch and depicts the location and contents of each oil containing container, equipment, and piping (as required by 40 CFR 112.7(3)). This drawing should only be used for Spill Prevention Control and Countermeasure Plan(SPCC) purposes. As drawing is not to scale, actual containers, equipment, or piping may vary in size and position from those represented here.

SPCC PLOT PLAN

REV	DATE	REVISION	BY	CHK'D	ENGR.	ENGR. MGR.	REV	DATE	REVISION	BY	CHK'D	ENGR.	ENGR. MGR.
0	09/06/03	DRAWN FROM MERIDIAN DRAWING AND FIELD NOTES	P.M.W.	B.R.									

Duke Energy®
Field Services

VAL VERDE PLANT
VAL VERDE GATHERING SYSTEM

San Juan County
NEW MEXICO

DWG. NAME: Val Verde Plant_SPCC_Plan.dwg

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Revised June 10, 2003

Submit Original
Plus 1 Copy
to Santa Fe
1 Copy to Appropriate
District Office

DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES,GAS PLANTS, REFINERIES, COMPRESSOR, GEOTHERMAL FACILITES AND CRUDE OIL PUMP STATIONS

(Refer to the OCD Guidelines for assistance in completing the application)

☐ New ☑ Renewal ☐ Modification

1. Type: Val Verde Plant
2. Operator: Duke Energy Field Services, LP

   Address: 10 Desta Drive, Ste 400 West, Midland, TX 79705

   Contact Person: Mike Betz, Asset Manager Phone: (505) 632-6461

3. Location: SE /4 SE /4 Section 11 Township 29N Range 11W
   Submit large scale topographic map showing exact location.

4. Attach the name, telephone number and address of the landowner of the facility site.
   See attached discharge plan.
5. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.
   See attached discharge plan.
6. Attach a description of all materials stored or used at the facility.
   See attached discharge plan.
7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.
   See attached discharge plan.
8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
   See attached discharge plan.
9. Attach a description of proposed modifications to existing collection/treatment/disposal systems.
   See attached discharge plan.
10. Attach a routine inspection and maintenance plan to ensure permit compliance.
    See attached discharge plan.
11. Attach a contingency plan for reporting and clean-up of spills or releases.
    See attached discharge plan.
12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.
    See attached discharge plan.
13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.
    See attached discharge plan.
14. CERTIFICATIONI hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Mike Betz Title: Asset Manager

Signature: Mike Betz Date: 5-26-04

E-mail Address: MBETZ@DUKE-ENERGY.COM

Val Verde Gas Processing Plant
SE/4 SE/4 Section 11 Township 29N Range 11W

DISCHARGE PLAN

This document constitutes a renewal application for the Groundwater Discharge Plan for the Val Verde Gas Processing Plant which was previously approved by the NMOCD on August 11, 2000. This Discharge Plan application has been prepared in accordance with the NMOCD "Guidelines for the Preparation of Discharge Plans at Natural Gas Plants, Refineries, Compressor and Crude Oil Pump Stations" (revised 12-95) and New Mexico Water Quality Control Commission (WQCC) regulations, 20.6.2.3-104 and 3-106 NMAC.

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Contact Person: Mike Betz – Asset Manager

Owner
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2929 Allen Parkway
Houston, TX 77019

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SE/4 SE/4 Section 11 Township 29N Range 11W, San Juan County, NM

See Figure 1 – Site Location Map.

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DEFS will respond to and report spills as outlined in the DEFS Environmental Compliance Manual and in accordance with the requirements of NMOCD Rule 116 [19.15.C.116 NMAC] and WQCC regulation [20.6.2.1203 NMAC].

12 Site Characteristics

No Changes.

13 Additional Information

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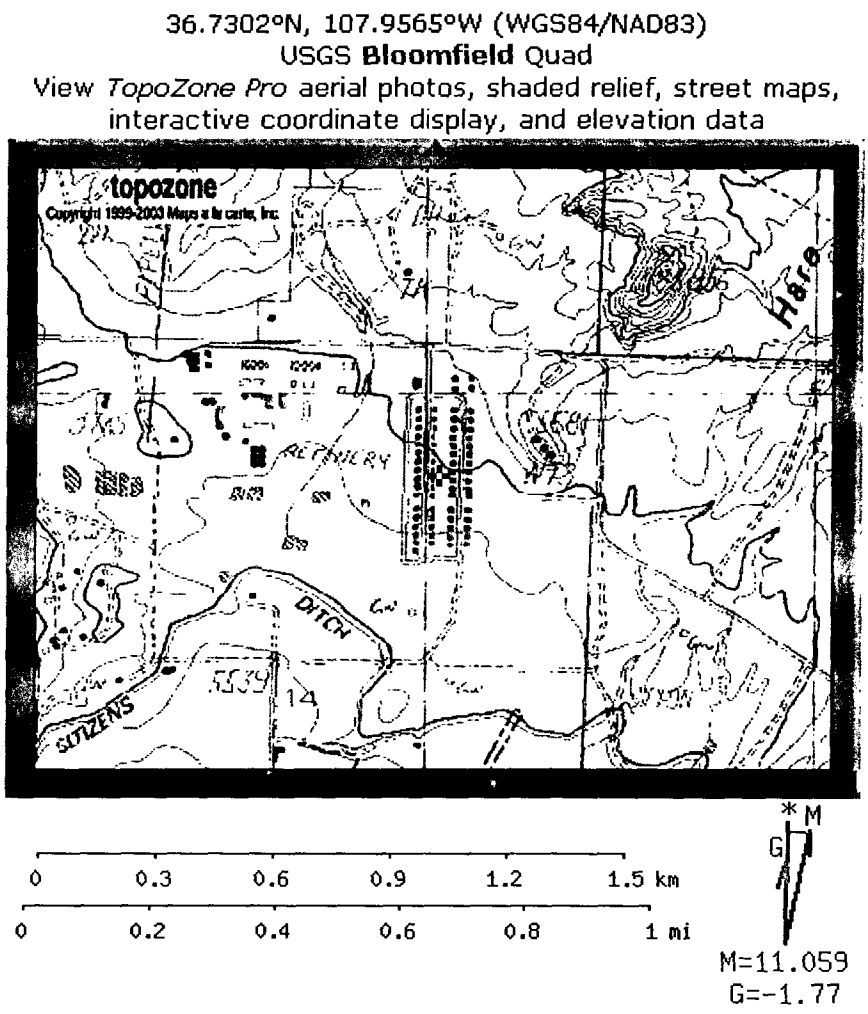
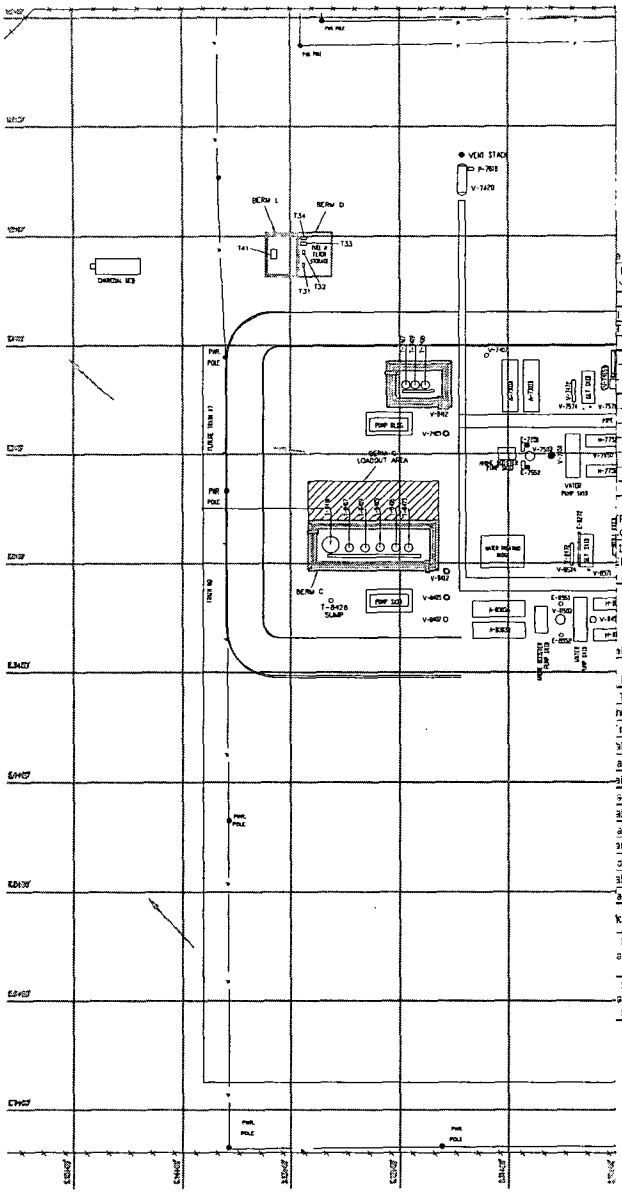
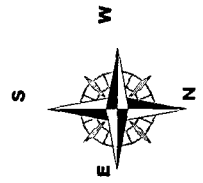


✣ Facility

FIGURE 2. Facility Plot Plan –Val Verde Gas Processing Plant.





e Containers

Field Name	Contents Description	Capacity
T1	Wastewater	210 bbl
T-5418	Wastewater	500 bbl
T-5418	Wastewater	500 bbl
T31	Diesel	317 gal
T32	Unleaded Gasoline	303 gal
T33	Kerosene	499 gal
T34	Used Oil	528 gal
T35	Antifoam	500 gal
T36	Antifoam	500 gal
T37	Antifoam	500 gal
T38	Antifoam	500 gal
T39	Antifoam	500 gal
T40	Antifoam	500 gal
T12	Dowtherm J	25 bbl
T41 (Trailer-mounted)	Used Oil	529 gal
Drum Storage Area	Various 55-gallon drums	NA

Process Equipment Containing Oils

AMS Name	Field Name	Contents Description	Capacity
None	Amine Reclaimer Reboiler	Hot Oil	5671 gal
T-5419	T-5419 (Sump)	Used Oil, Wastewater	566 gal
T-8426	T-8426 (Sump)	Used oil Wastewater	560 gal
None	Inlet Filter Separator	Produced Water	58 bbl
None	Amine Reclaimer Hot Oil Surge Tank	Hot Oil	100 bbl

ning Equipment

Field Name	Contents Description	Capacity
Train 3	Transformer Oil	481 gal
ntrol Room	Transformer Oil	240 gal
Train 1&2	Transformer Oil	500 gal
ain 4 West	Transformer Oil	360 gal
ain 4 East	Transformer Oil	360 gal
ain 5 West	Transformer Oil	360 gal
ain 5 East	Transformer Oil	360 gal
ain 6 West	Transformer Oil	360 gal
ain 6 East	Transformer Oil	360 gal
ain 7 West	Transformer Oil	360 gal
ain 7 East	Transformer Oil	360 gal
ain 8 West	Transformer Oil	360 gal
ain 8 East	Transformer Oil	360 gal
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Spare ansformer North	Transformer Oil	360 gal
Spare ansformer South	Transformer Oil	355 gal

Non-Oil Storage Containers

AMS Name	Field Name	Contents Description
None	T2	Amine
T-5475	T-5475	Glycol
T-5416	T-5416	CS+
T-5415	T-5415	DI Water
T5417	T5417	CS+ Rundown
T-5475	T-5475	Glycol
T-8417	T-8417	CS+ Rundown
None	T10	Gas Spec CS+
None	T11	Gas Spec CS+
None	T13	Used CS+
None	T14	Used CS+
None	T15	Used CS+
None	T16	Used CS+
T-4475	T-4475	Glycol
T-4417	T-4417	CS+ Rundown
None	T21	Used TEG
T-7416	T-7416	Glycol
T-7419	T-7419	CS+ Rundown
T-7417	T-7417	Hot Wastewater Rundown
T-8475	T-8475	Glycol
T-8416	T-8416	CS+
T-8415	T-8415	Makeup Water
T-8419	T-8419	Hot Wastewater Rundown
T-8417	T-8417	CS+ Rundown

LEGEND:

——X—— FENCE

— — — — APPROXIMATE PROPERTY BOUND

— — — OIL CONTAINING PIPE

SURFACE WATER DRAINAGE DIRE

SECONDARY CONTAINMENT BERM

NOT TO SCALE

Note: This drawing is based on a field sketch and depicts the location and contents of each oil containing container, equipment, and piping (as required by 40 CFR 112.7(3)). This drawing should only be used for Spill Prevention Control and Countermeasure Plan(SPCC) purposes. As drawing is not to scale, actual containers, equipment, or piping may vary in size and position from those represented here.

SPCC PLOT PLAN

VAL VERDE PLANT
VAL VERDE GATHERING SYSTEM

San Juan County
NEW MEXICO

S. NAME: Val Verde Plant_SPCC_Plan.dwg

REV	DATE	REVISION	BY
0	09/06/03	DRAWN FROM MERIDIAN DRAWING AND FIELD NOTES	P.M.W.

THE SANTA FE
NEW MEXICAN
Founded 1849

NM OIL CONSERVATION DIVISION
ATTN: DONNA DOMINGUEZ
2040 S. PACHECO ST.
SANTA FE, NM 87505

AD NUMBER: 147215 ACCOUNT: 56689
LEGAL NO: 67378 P.O.#: 00199000278
185 LINES 1 time(s) at $ 81.55
AFFIDAVITS: 5.25
TAX: 5.43
TOTAL: 92.23

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO
COUNTY OF SANTA FE
I, B Perner being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily newspaper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a Newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication #67378 a copy of which is hereto attached was published in said newspaper 1 day(s) between 05/10/2000 and 05/10/2000 and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the 10 day of May, 2000 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/S/ Betsy Perner
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this 9 day of May A.D., 2000

Notary Candace K. Dunton

Commission Expires 11/16/2003

NOTICE OF PUBLICATION

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan application has been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(GW-051) Burlington Resources, Jeffery T. Schoenbacher, Environmental Representative, P.O. Box 4289, Farmington, New Mexico 87499-4289, has submitted a renewal application for the previously approved discharge plan for their Val Verde Gas Plant located in the SE/4 SE/4 of Section 11, Township 29 North, Range 11 West, NMPM, San Juan County, New Mexico. Approximately 1440 gallons per day of waste water is stored in above ground, closed-top steel tanks prior to transport to an OCD approved Class II injection well for disposal. Ground water most likely to be affected in the event of an accidental discharge is at a depth ranging from 10 to 50 feet with a total dissolved solids concentration ranging from 1000 mg/l to 6000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this ***fourth (4th) day of May, 2000.***

STATE OF NEW MEXICO
OIL CONSERVATION
DIVISION
LORI WROTENBERY,
Director

Legal #67378
Pub. May 10, 2000

Duke Energy®
Field Services

P.O. Box 5493
Denver, Colorado 80217
370 17th Street, Suite 900
Denver, Colorado 80202
Direct: 303-595-3331
Fax: 303-389-1957

October 24, 2002

Mr. Wayne Price
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Re: Results of the annual sump integrity inspection program - Val Verde Facilities.

Dear Mr. Price:

The purpose of this correspondence is to provide your office with written notice that Duke Energy Field Services (DEFS) completed the annual sump integrity testing at its Val Verde Area Facilities. I have sent you multiple copies of this letter such that you can file one copy per site.

The below listed facilities have double wall sumps with leak detection between the walls. The following actions were taken at each facility sump:

1. Visually inspect for liquids between the sump walls
2. Pull the leak sensor
3. Place it in water.
4. Check the control panel for a positive indication of a leak
5. Return the leak sensor.
6. Check the control panel to assure a return to a negative reading

These procedures were implemented at each of the inspections, at the facilities below. There were no visual signs of leaks and all equipment functioned correctly.

Facility Name / inspection date	Visual inspection	Electronic Sensor	Facility Name	Visual inspect	Electronic Sensor
Arch Rock 8/20/02	PASS	PASS	Middle Mesa 8/23/02	PASS	PASS
Buena Vista 8/22/02	PASS	PASS	Pump Canyon 8/19/02	PASS	PASS
Cedar Hill 8/21/02	PASS	PASS	Pump Mesa 8/19/02	PASS	PASS
Francis Mesa 8/20/02	PASS	PASS	Sandstone 8/19/02	PASS	PASS
Gobernador 8/20/02	PASS	PASS	Sims Mesa 8/20/02	PASS	PASS
Manzanares 8/20/02	PASS	PASS	Hart 8/20/02	PASS	PASS

Duke Energy®
Field Services

P.O. Box 5493
Denver, Colorado 80217
370 17th Street, Suite 900
Denver, Colorado 80202
Direct: 303-595-3331
Fax: 303-389-1957

July 31, 2002

Mr. Wayne Price
New Mexico Oil Conservation Division
1220 South Street Francis Drive
Santa Fe, NM 87505

Re: Notification regarding sump integrity inspections - Val Verde Facilities

Dear Mr. Price:

The purpose of this correspondence is to provide your office with written notice that Duke Energy Field Services (DEFS) intends to conduct sump integrity testing at its Val Verde Area Facilities. The facilities listed below were recently purchased from Burlington Resources. In order to give your office at least 72 hours notice, please note that we will begin the testing on August 12, 2002.

Sumps at the following facilities will be tested:

Facility Name	County	Facility Name	County
Arch Rock	San Juan	Middle Mesa	San Juan
Buena Vista	San Juan	Pump Canyon	San Juan
Cedar Hill	San Juan	Pump Mesa	San Juan
Francis Mesa	Rio Arriba	Quinn	San Juan
Gobernador	Rio Arriba	Sandstone	San Juan
Manzanares	San Juan	Sims Mesa	Rio Arriba
Hart	San Juan	Val Verde Treater	San Juan

All sumps are double walled with electronic leak detection between the two walls. If liquid is "sensed" between the sump walls an alarm is indicated on the facility control computer and the operator can respond. DEFS proposes to use the following testing procedure:

1. Conduct a visual inspection between the sump walls, to the extent possible.
2. Pull the electronic sensor from between the walls.
3. Place the sensor in a cup of water.
4. Check the computer screen for a positive test reading.

Duke Energy.
Field Services
A New Kind of Energy™

OIL CONSERVATION DIV.

02 JUL -5 PM 1:58

Duke Energy Field Services
P.O. Box 5493
Denver, Colorado 80217
370 17th Street, Suite 900
Denver, Colorado 80202
303/595-3331

July 1, 2002

CERTIFIED MAIL
RETURN RECEIPT

Electronic Delivery July 1, 2002

Mr. Wayne Price
New Mexico Energy, Minerals
& Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Subject: Change in Ownership
Val Verde System

Dear Mr. Price:

On behalf of Val Verde Gas Gathering Company, LP, Duke Energy Field Services, LP (DEFS) is submitting notification of a change in ownership of 14 facilities in Rio Arriba and San Juan Counties, New Mexico. Effective July 1, 2002, Val Verde Gas Gathering Company, LP is the new owner of the facilities identified in the attached list. The attachment lists the facility name, discharge plan number and legal location.

DEFS will be operating the facilities identified in the attached lists. Therefore, DEFS requests the transfer of the discharge plans identified in the attached list to Duke Energy Field Services, LP.

DEFS will comply with the terms and conditions of the previously approved discharge plans submitted by Burlington Resources Gathering, Inc.

If you have any questions regarding this transfer of ownership and/or the discharge plans, please call me at (303) 605-1717.

Sincerely,
Duke Energy Field Services, LP

Karin Char
Environmental Specialist

Attachment

cc: NMOCD District 3 Office (hard copy)
1000 Rio Brazos Road
Aztec, NM 87410

Notification of Change in Ownership
Val Verde System
Effective July 1, 2002

Facility/Project	Plan Number	Location Sec-Twnshp-Range	County / State
Arch Rock Compressor Station	GW-183	14 –T31N – R10W	San Juan / New Mexico
Buena Vista Compressor Station	GW-255	13 – T30N – R9W	San Juan / New Mexico
Cedar Hill Compressor Station	GW-258	29 – T32N – R10W	San Juan / New Mexico
Frances Mesa Compressor Station	GW-194	27 – T30N – R7W	Rio Arriba / New Mexico
Gobernador Compressor Station	GW-056	31 – T30N – R7W	Rio Arriba / New Mexico
Manzanares Compressor Station	GW-059	4 – T29N – R8W	San Juan / New Mexico
Hart Canyon Compressor Station	GW-058	20 – T31N – R10W	San Juan / New Mexico
Middle Mesa Compressor Station	GW-077	10 – T31N – R7W	San Juan / New Mexico
Pump Canyon Compressor Station	GW-057	24 – T30N – R9W	San Juan / New Mexico
Pump Mesa Compressor Station	GW-148	14 – T31N – R8W	San Juan / New Mexico
Quinn Compressor Station	GW-239	16 – T31N – R8W	San Juan / New Mexico
Sandstone Compressor Station	GW-193	32 – T31N – R8W	San Juan / New Mexico
Sims Mesa Compressor Station	GW-146	22 – T30N – R7W	Rio Arriba / New Mexico
Val Verde Gas Handling Facility	GW-51	14 – T29N – R11W	San Juan / New Mexico

Price, Wayne

From: Anderson, Roger
Sent: Monday, March 25, 2002 3:12 PM
To: Price, Wayne; Kieling, Martyne
Subject: RE: Granulated Charcoal managed at the Tierra Land farm Farmington, New Mexico.

Wayne: I agree with their recommendation to continue land farming the material. We will place interim requirements on the land farm.

Roger C. Anderson
Environmental Bureau Chief
Oil Conservation Division

-----Original Message-----
From: Price, Wayne
Sent: Monday, March 25, 2002 1:54 PM
To: Kieling, Martyne; Anderson, Roger
Subject: FW: Granulated Charcoal managed at the Tierra Land farm Farmington, New Mexico.

-----Original Message-----
From: Wurtz Gregg [mailto:GWurtz@br-inc.com]
Sent: Monday, March 25, 2002 11:46 AM
To: Wayne Price (E-mail)
Cc: Foust (E-mail); Hasely Ed; Gantner Bruce; Goosey Paul
Subject: Granulated Charcoal managed at the Tierra Land farm Farmington, New Mexico.

Good Morning,

As per your request, Burlington Resources investigated your recent findings RE: granulated charcoal smoldering at the Tierra Landfarm, Farmington, New Mexico.

1. The source of the granulated charcoal is the Val Verde Gas Plant. The charcoal is used to strip the amine of hydrocarbons after the amine is used to strip the gas stream of CO2. The potential constituents that may be in the spent charcoal included trace amounts of amine and glycol and larger amounts of hydrocarbons. The charcoal is replaced approximately 3 times a year and landfarmed at the Tierra landfarm facility in Farmington, New Mexico as an except gas plant waste . The amount of material generated and farmed at Tierra is less than 100 cu. yds per year.

2. I reviewed BR's database for the certificate of waste record for this shipment and I contacted the gas plant engineer 3/21 to determine the source of the charcoal and the potential for other constituents in the charcoal. The charcoal was from Train #3 and was part of a routine charcoal replacement. No changes in the treatment process or the chemicals used in the process were discovered. As part stripping process the charcoal is raised to an elevated temperature and is allowed to cool prior to off site transport and landfarming. The charcoal may be still moist (Note: no free liquids) and contain minor process heat when delivered to the Tierra landfarm. The apparent cause of the heat generation is a minor reaction with the trace amounts of hydrocarbon and the granulate charcoal as the material dries.

3. I contacted and performed a site visit of the Tierra Landfarm on 3/21/02 to review the special charcoal handling practices and/or issues with this particular disposal shipment at the facility. I was instructed that the material arrives at the Tierra facility with a minor amount of temperature and moisture and if left piled will generate a minor amount of heat on its own. The material reportedly has never generated sufficient heat to combust into flames only minor smoldering for 1-2 days if pilled. Tierra's standard practice is to spread the charcoal immediately and till/mix with dirt. This procedure appears to sufficient to prevent self generation of heat and the resulting smoldering of materials. The material observed during the OCD audit of Tierra was explained to be just delivered and the Tierra personnel were busy with the OCD staff at the time of delivery. The charcoal material (a second and different shipment) that was observed during the most recent visit by OCD was spread onto the land but not tilled into the soil. I observed a more recent shipment of charcoal material recently delivered to the landfarm that was spread and tilled during my visit on 3/21. No smoldering of the charcoal materials was observed during my inspection. BR has specifically instructed Tierra personnel to immediately farm the charcoal material by spreading and mixing with soil when it arrives.

4. My recommendation is to allow the landfarming of the charcoal material using the standard procedure currently used by the landfarm.
I also reviewed the approved discharge plan and confirmed that the charcoal media and Tierra Landfarm was included in the plan.

Please contact me if you have questions concerning this issue. Thank you for you observation and correspondence.

Gregg Wurtz
Sr. Environmental Representative
Environmental Health and Safety Dept.
Burlington Resources, San Juan Division
gwurtz@br-inc.com
Mobil (505) 320-2653
Office (505) 326-9537

Price, Wayne

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Sent: Monday, March 25, 2002 11:46 AM
To: Wayne Price (E-mail)
Cc: Foust (E-mail); Hasely Ed; Gantner Bruce; Goosey Paul
Subject: Granulated Charcoal managed at the Tierra Land farm Farmington, New Mexico.

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Please contact me if you have questions concerning this issue. Thank you for you observation and correspondence.

Gregg Wurtz
Sr. Environmental Representative
Environmental Health and Safety Dept.
Burlington Resources, San Juan Division
gwurtz@br-inc.com
Mobil (505) 320-2653
Office (505) 326-9537

VAL VERDE GAS PROCESSING PLANT
DISCHARGE PLAN NO. GW-51

October 5, 2000

Prepared for:

Burlington Resources Gathering System, Inc.

Updated by:

Gregg Wurtz

TABLE OF CONTENTS

LIST OF FIGURES

DISCHARGE PLAN NO. GW-51

VAL VERDE GAS PROCESSING PLANT

1.0 GENERAL INFORMATION

1.1 Val Verde Gas Processing Plant (Val Verde Plant) is owned and operated by

Burlington Resources, Inc.
3535 East 30th Street
P.O. Box 4289
Farmington, NM 87499-4289
(505) 326-9700

1.2 Name of Legally Responsible Party

Mark Ellis
Vice President, Regional Operations
Burlington Resources, Inc.
P.O. Box 4289
Farmington, New Mexico 87499-4289
(505) 326-9700

1.3 Name of Contact Person or Representative

BR requests that all correspondence regarding this plan be sent to:

Gregg Wurtz
Environmental Representative
Burlington Resources, Inc.
P.O. Box 4289
Farmington, New Mexico 87499-4289
(505) 326-9537

BR requests that copies of correspondence also be sent to:

Greg Kardos
Senior Plant Supervisor
Burlington Resources, Inc.
P.O. Box 4289
Farmington, New Mexico 87499-4289
(505) 326 9508

1.4 Plant location

SE/4 of the SE/4 of Section 11,
T29N, R11W, NMPM
San Juan County, NM (Figure 1)

1.5 Purpose of Plant

Val Verde Plant is a facility, which removes CO_2 from a coal seam gas stream by contacting the gas with an amine based solvent that has a high affinity for CO_2. CO_2 stripped from the coal seam gas stream is vented to the atmosphere. The residue gas is contacted with Triethylene Glycol (TEG) to provide a set dew point.

The Val Verde Plant produces a natural gas stream that is stripped of CO_2 After the natural gas stream is treated within the facility it is sold and transported to El Paso Natural Gas or Trans-Western Pipeline.

1.6 Copies

Copies of this updated Discharge Plan No. GW-51 and Discharge Plan Approval Conditions has been provided to the Santa Fe and Aztec district office of the OCD. The OCD will make available copies for District offices and public review.

1.7 Affirmation

"I hereby certify that I am familiar with the information contained in and submitted with this discharge plan, and that such information is true, accurate, and complete to the best of my knowledge and belief."

John F. Zent — Signature

10/5/00 — Date

Burlington Resources Gathering Inc.
John F. Zent
Attorney in Fact

2.0 PLANT PROCESS

2.1 Process Description

Dehydrated coal seam natural gas enters Val Verde Plant via pipeline from individual gas production facilities located throughout northwest New Mexico and southwest Colorado. The natural gas entering the plant is essentially methane and carbon dioxide (CO_2). The CO_2 laden natural gas stream is sent to one of eight process trains for CO_2 removal.

Chemicals used in each process train include a Methyldiethanoloamine based solvent (MDEA) to remove CO_2 and Triethylene Glycol (TEG) to remove water entrained in the natural gas stream during CO_2 stripping.

The natural gas stream in each process train is contacted in a vertical trayed countercurrent absorber vessel with a 65% water and a 35% MDEA solution.

The rich MDEA solvent leaving the absorber vessels is regenerated in a typical MDEA regeneration system consisting of the following equipment (Figure 3a) for trains 1 and 2:

- Rich MDEA Flash Tank
- Lean/Rich Cross Exchanger
- Hot Oil Heated Reboiler (Gas Fired Hot Oil Heater)
- Lean MDEA Surge Tank
- Hot Oil Surge Tank
- Stripping Column
- Stripper Reflux Condenser (Fan Cooled)
- Lean MDEA Cooler (Fan Cooled)
- Reflux Condenser Cooler

The MDEA regeneration process for Train 3 is identical to Trains 1 and 2 except for the addition of a Final Lean/Rich Amine Exchanger (Figure 3b).

The amine regeneration system for trains 4, 5, and 6 (Figure 3c) is the same, except the amine heated reboiler is a direct fired reboiler, in place of a hot oil heated reboiler. Trains 4, 5, and 6 also have two flash tanks (high pressure and low pressure) as opposed to only one in trains 1, 2, and 3.

Train 7 and 8 MDEA regeneration system utilizes the same equipment as trains 4, 5 and 6 with the addition of a Hot Water Surge Tank, and Still Side Reboilers to accommodate an indirect fired heater rather that a direct fired reboiler.

CO_2 removed from the MDEA solution from trains 1, 2, and 3 is piped to a common 16-inch vent line, through an 8-foot diameter by 32-foot seam-to-seam, carbon steel, horizontal, vent scrubber and then discharged to the atmosphere via a vertical vent stack. Trains 4, 5 and 6 use a common 20-inch vent line, through a 10-foot by 25-foot seam-to-seam, carbon steel, horizontal, vent scrubber. Condensed water vapor collected in the vent scrubber is pumped back into the regeneration units.

Trains 1, 2, and 3 have a combined gas treating capacity of 135 MMSCF/d. Trains 4 through 8 each have a gas treating capacity of 117 MMSCF/d per train.

The dehydration process for the Val Verde Plant includes a common contactor (countercurrent absorber) for trains 1 and 2 and individual contactors for each of trains 3 through 8. Trains 1 through 3 share a common TEG regeneration system (Figure 4a) and train groups 4 through 8 (Figures 4b) each has its own TEG regeneration system.

A TEG regeneration system includes the following equipment:

- TEG flash tank
- Lean/Rich TEG cross exchangers
- Direct fired TEG reboiler with packed stripping column
- Lean TEG surge tank
- Lean TEG cooler (Fan cooled)

2.2 Water System

Process water is supplied to the Val Verde Plant by a set of raw water storage tanks to the east of the plant location. The water is passed through an ion exchange system prior to distribution throughout the plant. The ion exchange system is a portable truck mounted system that is self contained and regenerated at an offsite location.

Process water is used for make-up and cooling water in the amine regeneration process. Make-up water for the regeneration units amounts to approximately 45,000 gpd. Reject water from the regeneration system is collected in a waste water drain line system (WWD) and stored in an aboveground welded steel storage tank.

The cooling water from the regeneration system is drained into the WWD system's sumps and pumped into storage tanks. Trains 4 through 6 share a common sump and trains 7 and 8 share a common sump. From the sump the wastewater is transferred to an above ground tank. Trains 1, 2 and 3 do not have a wastewater drain system. Trains 1 through 3 utilize a hot oil heat transfer media that is used as needed.

Figure 5 and Figure 6 contain the Process and Instrumentation Diagrams (P&ID) for train 5 and train 8 respectively. The P&ID for train 5 are representative of the process fluids and wastewater collection systems in trains 4 through 6. Train 8 P&ID are representative of the process fluids and wastewater collection systems of trains 7 and 8.

2.3 Effluent Sources

Domestic discharges are made through one septic tank system shown on the facility diagram (Figure 2). The warehouse building, control rooms, shop building, and the new office building will discharge into the septic tank.

An evaporative cooling system using deionized water is operated in the summer months to increase amine cooling system efficiency. The water used in the evaporative cooling system does not come in contact with process materials or equipment. The over spray from the cooling system naturally evaporates or is collected in a small surface water impoundment and used for dust control if needed.

Potential sources for process discharges include:

- Demineralized cooling wastewater
- Unrecyclable process fluids
- MDEA test samples
- MDEA
- TEG
- Heat Transfer Oil

Spills or leaks are more likely to occur around fluid pumps, gas contactors, flash tanks and heaters.

MDEA test samples are collected once every day to determine MDEA strength and lean loading. Total sample volume collected per day is 1750 ml. Included in this sample volume are small amounts of the following test reagents:

- Distilled H_2O
- Methyl Red Indicator
- N Sulfuric Acid
- Methyl Alcohol
- Thymolphthalen Indicator 0.05%
- Normal Potassium Hydroxide

This sample is poured into the laboratory sink that drains to the WWD and is then transferred to an aboveground wastewater tank.

Spent MDEA and TEG that cannot undergo a recycling process are characterized as unrecyclable process fluids and disposed of properly offsite.

The Val Verde Plant also recycles used MDEA and TEG generated at the plant as well as used MDEA from other non-BR gas facilities. The non-BR gas facilities use Val Verde Plant's recycling program as an alternative to disposal and the Val Verde Plant reuses the regenerated MDEA. The advantages to the recycling program are extended reuse of NDEA and minimization of environmental risk of offsite transportation to a disposal facility. The recycling equipment and process is a self-contained system that generates minor amounts of residual byproduct as a result of the regeneration process. These byproducts from the regeneration process are considered exempt waste and is managed in above ground storage tanks on site and later disposed of at the Class II McGrath SWD.

3.0 TRANSFER/STORAGE OF PROCESS FLUIDS

The WWD system for trains 4, through 6 is independent of Trains 7 and 8. Each WWD system includes a general sump that is transferred to an above ground steel tank. Fluids stored in the wastewater tank are periodically hauled off site to an OCD approved Class II SWD.

Makeup TEG and MDEA in trains 1-3 are stored in aboveground 500-gallon steel storage tanks. A small portable centrifugal pump is used to transfer from the storage tank into the system. In trains 4 through 8 makeup TEG and MDEA are stored in separate aboveground 90 bbl steel storage tanks.

The hot oil systems for trains 1, 2 and 3 are closed-loop systems, utilizing an elevated surge drum. Hot oil makeup requires a bulk truck delivery.

All high pressure process vessels and piping are installed above grade with the exception of a small amount of 2-inch glycol piping. This 2-inch line is externally coated and is welded utilizing schedule 80 pipe and weld fittings. Design pressure for this line is 1000 psig and it was hydrotested at 1500 psig. The line was doped and wrapped for external corrosion protection.

All pressure vessels in this plant are ASME Coded. All process piping was designed and fabricated per ASME/ANSI B31.3. All pressure piping welds 2-inch and larger were 100 percent x-rayed.

Critical areas in the high pressure gas piping have been inspected by ultrasonic thickness examination for corrosion. These inspections are performed by qualified inspectors focusing on the critical areas in the liquid process piping for corrosion.

Three 400 bbl steel storage tanks facilitate the storage of spent MDEA generated from Trains 1 through 8. These tanks will be situated within the proximity of the MDEA reclaimer and the spent product will be stored in these units until reclaimed. In addition, one 100 bbl steel storage tank will be installed adjacent to the reclaimer to retain residual by-product generated from the MDEA reclamation activities. Furthermore, the tanks situated on gravel within an earthen berm to contain any release that may occur.

3.1 Spill/Leak Prevention and Reporting

3.1.1 Operating Procedures

The Val Verde Plant is operated in a manner to prevent and mitigate any unplanned releases to the environment. The plant is manned 24 hours per day and 365 days per year including holidays. Plant process and storage units are regularly observed by a number of personnel during normal operation, and any evidence or sign of spill/leaks are routinely reported to supervisory personnel so that repairs or cleanup can be promptly performed. Routine maintenance procedures conducted at the Val Verde Plant also help to assure that equipment remains functional and that the possibility of spills/leaks is minimized.

If a spill/leak occurs, general cleanup procedures may involve minor earthwork to prevent migration, and recovery of as much free liquid as possible. Recovered fluids would then be transported off-site for recycling or disposal. Based on existing literature, analysis and regulatory guidelines, any contaminated soil will either be left in place, transferred to other existing waste-management areas, or transported off-site for proper disposal.

1.2 Spill/Leak Containment

To reduce the risk of spilled process fluids from contacting the ground surface, Val Verde Plant has constructed curbed concrete containment basins under process areas with a higher probability of a spill/leak (described in Section 2.3). Each of the containment basins either has a small open top sump or a drain to the general sump for that particular train. The small open top sumps are periodically cleaned and vacuumed out. Concrete curbing around process equipment is illustrated on the Facility Site Diagram, Figure 2.

Process pumps without concrete containment basins are equipped with drip pans for collecting seal or packing leakage. Drums and leaking equipment are stored inside a 20' x 20' curbed concrete area. Some equipment cleaning is also performed inside this area.

Above ground tanks are located within bermed areas with a capacity of at least 1.5 times the largest tank within each bermed area. A gravel pad is placed under each tank to assist in leak detection efforts.

3.1.3 Reporting

Should a release of materials occur, BR will comply in accordance with provisions described in NMOCD Rule and Regulation #116.

4.0 EFFLUENT AND SOLID WASTE DISPOSAL

On-Site Disposal:

The Val Verde Plant does not conduct any on-site waste disposal, except for sewage, which is processed through an approved septic system. All other waste streams are taken off-site for recycling or disposal.

Off-Site Disposal:

The following table provides information about off-site disposal:

Waste Stream	Collection Method	Shipment Method	Final Disposition	Receiving Facility
Waste water	Aboveground Steel Tank with Containment	Truck See Note 1	Class II Injection Well	See Note 2
Unrecyclable process fluids	Aboveground Steel Tank with Containment	Truck See Note 1	Class II Injection Well	See Note 2
Caustic wash rinsate	Aboveground Steel Tank with Containment	Truck See Note 1	Class II Injection Well	See Note 2
Amine Mechanical Filter Bag Filter	20 cyd. Roll-Off	Waste Management Trucking	Landfill	Control Recovery, Inc. Hobbs, New Mexico
Horizontal Inlet Filter Coalescer Inlet Filter Hot Oil Filter Glycol Filter	20 cyd. Roll-Off	Waste Management Trucking	Landfill	County Municipal Landfill
Lubricating Oil	Aboveground Steel Tank with Containment	Vendor Truck	Fuel Blending or Recycling	Waste Oil Recycling Facility
Heat transfer oil	Aboveground Steel Tank with Containment	Truck See Note 1	Fuels Blending or Recycling	Waste Oil Recycling Facility
Charcoal filter media	Concrete Charcoal Drainage Pad	Truck See Note 1	Soil Remediation Landfarm	Envirotech or Tierra Landfarm

Note 1. The trucking agent contracted to ship effluents off-site will be one of the following:

Dawn Trucking Co.
16B Rd 5860
Farmington, New Mexico.

Safety Clean Corp.
4210 Hawkins Rd.
Farmington, New

Sunco Trucking
708 S. Tucker Ave.
Farmington, New Mexico

Note 2. The off-site Disposal facility will be one of the following:

McGrath SWD #4
Sec. 34, T-30-N, R-12-W
San Juan County
New Mexico

Basin Disposal
Sec. 3, T-29-N, R-11-W
6 County Rd 5046
Bloomfield, New Mexico

Key Disposal
Sec. 2, T-29-N, R-12-W
323 County Rd. 3500
Farmington, New Mexico

5.0 SITE CHARACTERISTICS

Much of the information for the site characteristics of the Val Verde Plant was taken from two reports prepared by Buys and Associates, Inc. One report, dated September 11, 1990 (1990 Report), was written during the initial assessment of the Val Verde Plant before BR purchased the property from South-Tex Treaters Inc. The second report, dated April 24. 1991 (1991 Report), is a groundwater monitoring and sampling report. The two Buys and Associates, Inc. reports are not attached to this discharge plan.

5.1 Surface water

Surface water near the Val Verde Plant consists of the San Juan River and a nearby irrigation canal named Citizens Ditch. Citizens Ditch runs from east to west and is approximately ½ mile south of the plant site. The San Juan River is approximately 1.5 miles south of the plant site.

5.2 Soils

The 1990 Report characterized the subsurface at the Val Verde Plant as clayey sand and silt, and silty clay and sand resting on top of the sandstone and mudstone units of the Naciemento Formation.

The sandstone and mudstone units only appear in the northern half of the plant site. It is thought that these units in the southern half of the plant were eroded away by what is now the San Juan River, and subsequently replaced with sediments eroded from the north and east.

Underling the plant site is erosion-resistant sandstone that was encountered during the drilling of monitoring wells in the area. This sandstone layer is thought to be the bedrock feature underling the Val Verde Plant site.

5.3 Groundwater

Groundwater levels were measured on March 11 and 12, 1991 by Buys and Associates, Inc. Depth to groundwater in the plant area was measured to range from 55.5 feet to 26.5 feet within the southern half of the plant site. No groundwater was encountered in the northern half of the plant site. No total dissolved solids (TDS) measurements were taken during the May 11 and 12, 1991 monitoring program at the Val Verde Plant (1991 Report).

Groundwater monitoring efforts at the El Paso Natural Gas (EPNG) Blanco Plant show the TDS in the groundwater to range from 5330 mg/l to 7620 mg/l. The EPNG Blanco Plant is directly adjacent to BR's Val Verde Plant (See Figure 2).

6.0 FLOOD POTENTIAL

Flood hazard data for Val Verde Plant is limited to Flood Insurance Rating Maps (FIRM) from the Federal Emergency Management Association (FEMA). Val Verde Plant lies approximately 160 feet above the San Juan River. According to the FIRM maps for San Juan County, Val Verde Plant would not be threatened by flood from a 100 year storm event. Flood protection is not necessary.

7.0. PRECIPITATION/STORM WATER RUNOFF CONTROL

Storm water run-off does not come in contact with the station process and waster streams, enclosed sumps, drainlines, equipment, and pipelines. Exposure minimization is the general management practice used to lessen the potential for storm water to come into contact with process and waste streams. Precipitation and cooling water that contacts the outside surface of equipment and the facility pad adjacent to equipment is drained to containment areas and allowed to evaporate or is captured in the WWD system. Storm water runoff that doesn't contact process equipment or adjacent process areas is allowed to naturally leave the facility. The facility pad is regularly maintained to prevent surface accumulations and where necessary the pad is armored with gravel to minimize erosion. Open top tanks are inspected periodically to monitor fluid levels.

A storm water plan for gas processing plants is not a requirement of the EPA (Federal; Register/Vol. 55 No. 22, Friday, November 16, 1990). A permit is necessary only if a facility has had a release of a reportable quantity of oil or a hazardous substance in storm water within the last three years. The Val Verde Plant has not had a release of a reportable quantity to date.

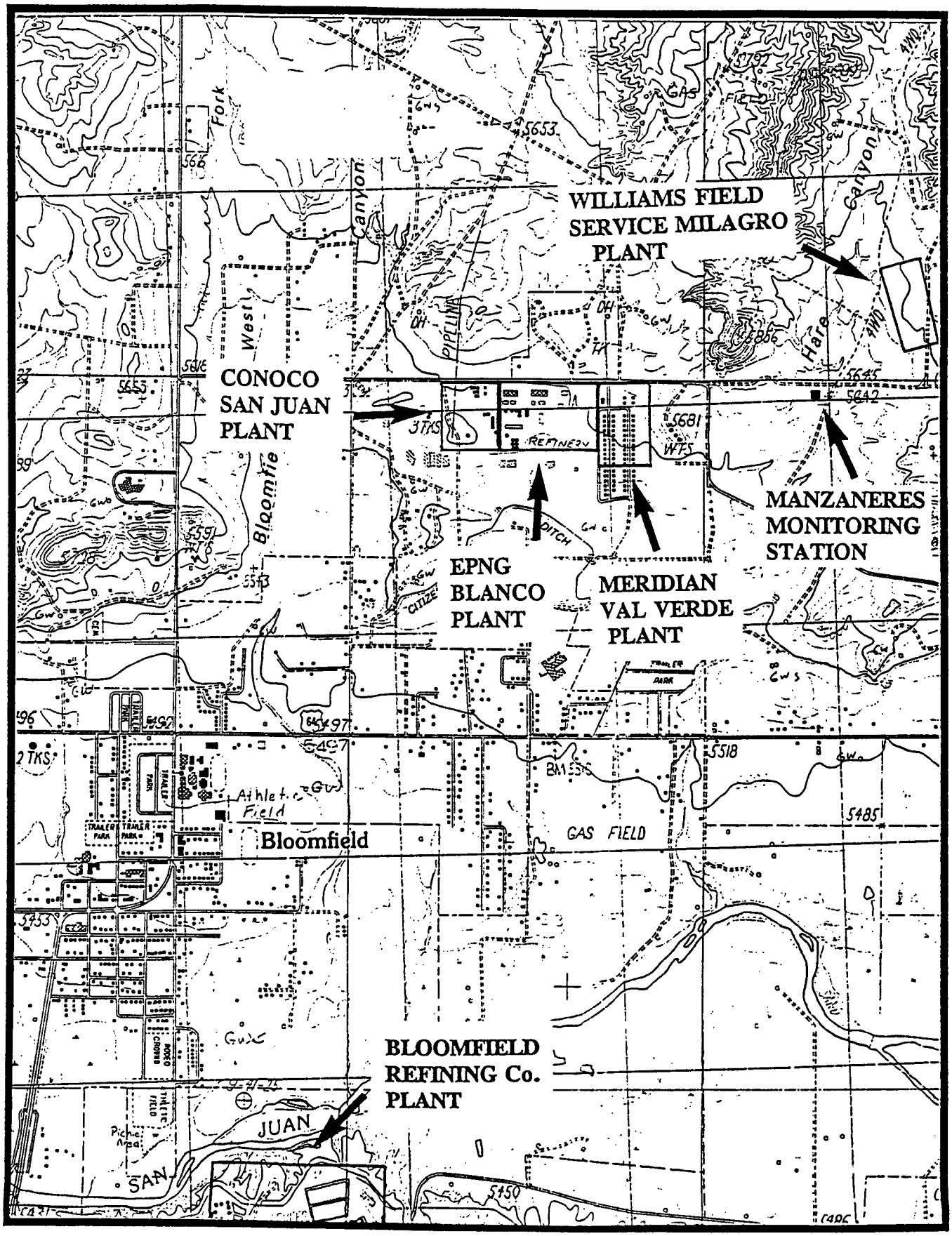


FIGURE 1: VAL VERDE SITE MAP

CONTOUR INTERVAL 20 FEET
SCALE 1:24 000

PROPERTY FENCE LINE
METERING STATION
PWR. POLE
SEWER MANHOLE
SEWER LINE
UNDERGROUND 24" RESIDUE HEADER
ABANDONED 3" P.G. RES. LINE
ICD VALVE BOX
LIGHT POLE
POWER POLE
T1
13.8 KV SWITCH GEAR BLDG.
EXISTING BLDG.
MAIN OFFICE BLDG. W.1+00'
CONCRETE DITCH
PICNIC AREA
REF. POINT FOR THIS DRAWING N.& S.0+00'-0", E.& W.0+00'-0"
EXIST. ROAD
EDGE OF GRAVEL
AMINE SETTLING TANKS
CHARCOAL BED
FUEL & FILTER STORAGE
VENT STACK
P-7618
V-7420
UNDERGROUND 16" INLET HEADER
UNDERGROUND 16" RESIDUE HEADER
UNDERGROUND 2" DRAIN FROM RESIDUE M.U.
195'-0" FUTURE TRAIN #7
195'-0" TRAIN #8
PUMP BLDG.
PUMP SKID
WATER TREATING BLDG.
PIPE RACK
MOTOR CONTROL CENTER
I.A. COMPR.
EXIST. ELECTRICAL EQPT.
EXIST. CAPACITORS
100 KW GENERATOR
CONDUIT VAULT
PROPOSED ROAD LOCATION
GLYCOL RECOVER TANK
HEADER K.O. DRUM
UNDERGROUND 20" BLOWDOWN HEADER
UNDERGROUND 16" INLET HEADER
UNDERGROUND 16" RESIDUE HEADER
UNDERGROUND 20" RESIDUE HEADER
UNDERGROUND 24" INLET HEADER
UNDERGROUND WATER LINE
UNDERGROUND 13000 V POWER LINES
EXISTING CONTROL ROOM
NEW CONTROL ROOM
GC BLDG
RECLAIMER FEED TANKS
RECLAIMER PRODUCTS TANKS
RECLAIMER REBOILER SKID
RECLAIMER CONDENSER
WASHDOWN AREA
LIGHT POLE
VENT STACK
2" RETURN
2" LOW POINT DRAW TO K.O. DRUM
8" TO BLEND STATION
20" BLOW DOWN HEATER
EXIST. H2O LINE
K.O. DRUM
BLEND STATION
BLOWDOWN STACK
16" TRANSWESTERN INTERCONNECT
24" TO TRANSWESTERN
DEIONIZED WATER STORAGE
PROPANE TANK
TANK
V-6 CO2 VENT K.O. DRUM
PIG RECEIVER
FILTER SEPS
INLET WATER TANK
COALESCER
GRID SQUARES = 100'-0"
T.H. RUSSELL CO. JOB NO. 427

PRINT DISTRIBUTION RECORD													
REV.	DATE	P	F.A.	A	SHOP	FIELD	CUST.	VEND.	FILE	PURCH.	BID	PE	
4	1/17			✓		1	3	3	1				HP
6	10/15		✓				3		1			1	HP
7	4/2			✓		5	4		1			1	

FOR TRAIN #8

PLOT DATE: 06-04-91
DWG. FILE: 427\VV1M0100.DWG

REVISIONS		
REV.	DESCRIPTION	
4	AFC	
5	CHGD LOC OF CTL BLDG & PULL VAULT. ADD TRAIN 6; ADD V-4/5/6415, & V-5417 ADD TRAIN 1,2, & 3 FOR REFFRENCE	
6	ADDED TRAIN 7/8/9; CHG'D. DWG SCALE ISSUED FOR APPROVAL FOR TRAIN #8	
7	REVISED TRAIN #8, ISSUED FOR TRAIN #8, A.F.C.	
8	REMOVED WASHDOWN AREA ON TRAIN #8	
9	ADDED TRAIN 8 AND UPDATED ALL EQUIPMENT	
10	ADDED APPROX. LOCATION OF CO2 COMP. STACKS	

MERIDIAN OIL

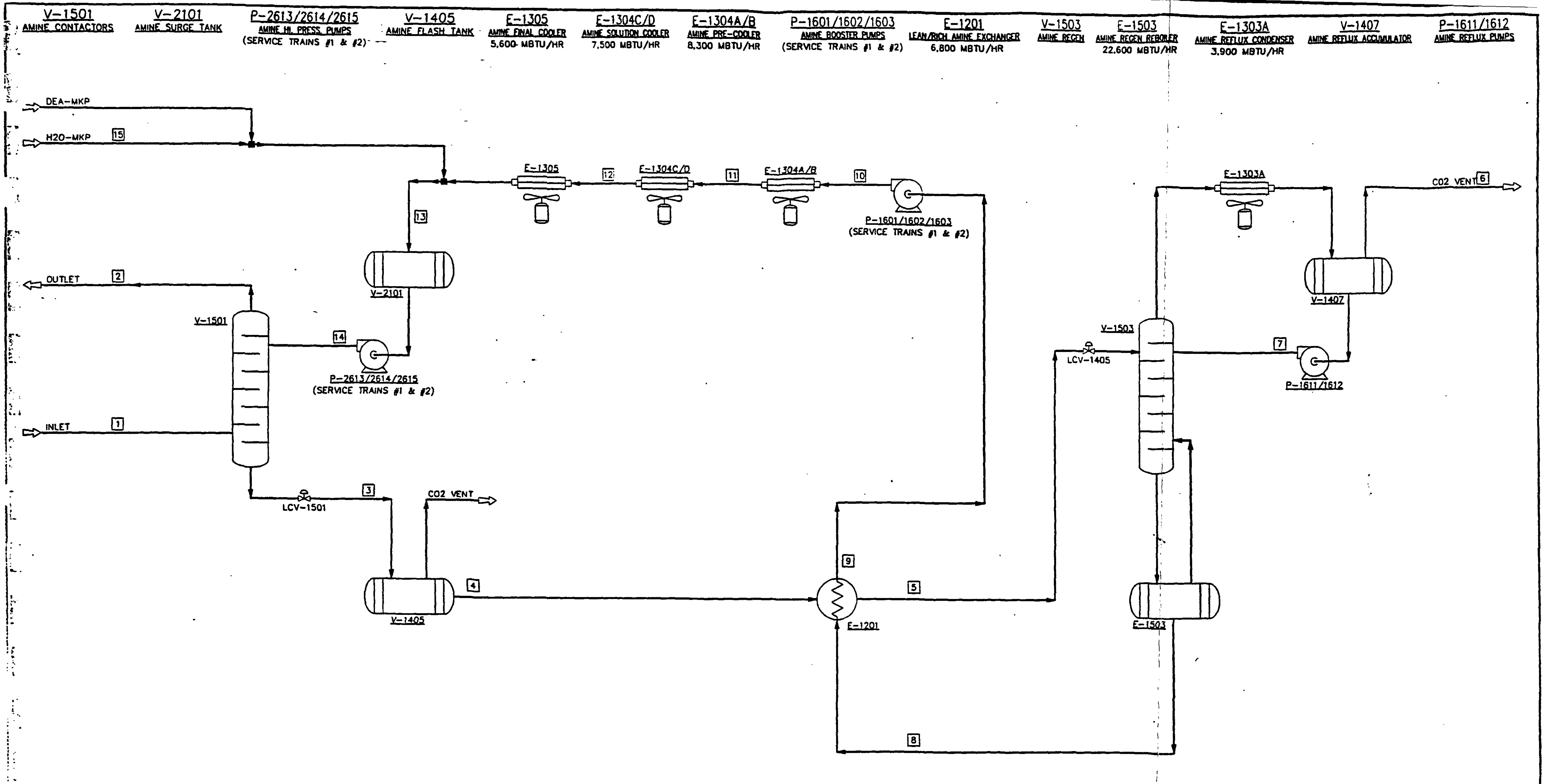
VAL VERDE PLANT
TRAINS 4-8

9

PLOT PLAN
EQUIPMENT LAYOUT

ENGINEERS	DATE	REVISED BY	DATE	FILE NO.
		ASHMORE	07-03-90	VV-1-M0100
		JUDI	06-15-90	
		HDA	09-26-90	
	4/2/91	JUDI	03-06-91	DRAFTED BY
		JUDI	06-04-91	T.H. RUSSELL CO. TULSA, OK.
	5/4/98	ORF	05-04-98	
RICK BENSON	1/24/00	HFB	10-24-00	

FIGURES 3-4 PROCESS FLOW DIAGRAMS



TRAIN #1

STREAM ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
TOTAL FLOW															
GPM	–	–	–	–	–	–	6.4	425	425	425	425	425	425	425	1.46
MMCF/D	35.0	31.2	–	–	–	4.1	–	–	–	–	–	–	–	–	–
LBMOL/HR	3843	3429	7480	7480	7480	454	177	7066	7066	7066	7066	7066	7066	7066	40
PRESSURE, PSIG	655	650	85	85	60	18	30	20	16	65	60	55	35	800	800
TEMPERATURE, DEG.F	75	120	178	178	211	120	120	255	222	222	183	147	120	120	120
COMPONENT FLOW, LBMOL/HR															
GAS SPEC CS+	–	–	1061.84	1061.84	1061.84	–	–	1061.84	1061.84	1061.84	1061.84	1061.84	1061.84	1061.84	–
WATER	1.85	10.48	5964.2	5964.2	5964.2	31.78	177.000	5972.84	5972.84	5972.84	5972.84	5972.84	5972.84	5972.84	40.5
CARBON DIOXIDE	434.16	17.14	448.87	448.87	448.87	417.01	0.001	31.86	31.86	31.86	31.86	31.86	31.86	31.86	–
METHANE	3407.79	3402.02	5.77	5.77	5.77	5.77	–	–	–	–	–	–	–	–	–

FIGURE 3a:

NOTE:
STREAM DATA IS FOR OPERATING CONDITIONS AFTER 93/94 ADDITIONS.

APP'D	MARK	REVISION	BY	DATE
	A	ISSUED FOR AS-BUILT	KJS	11/21/93

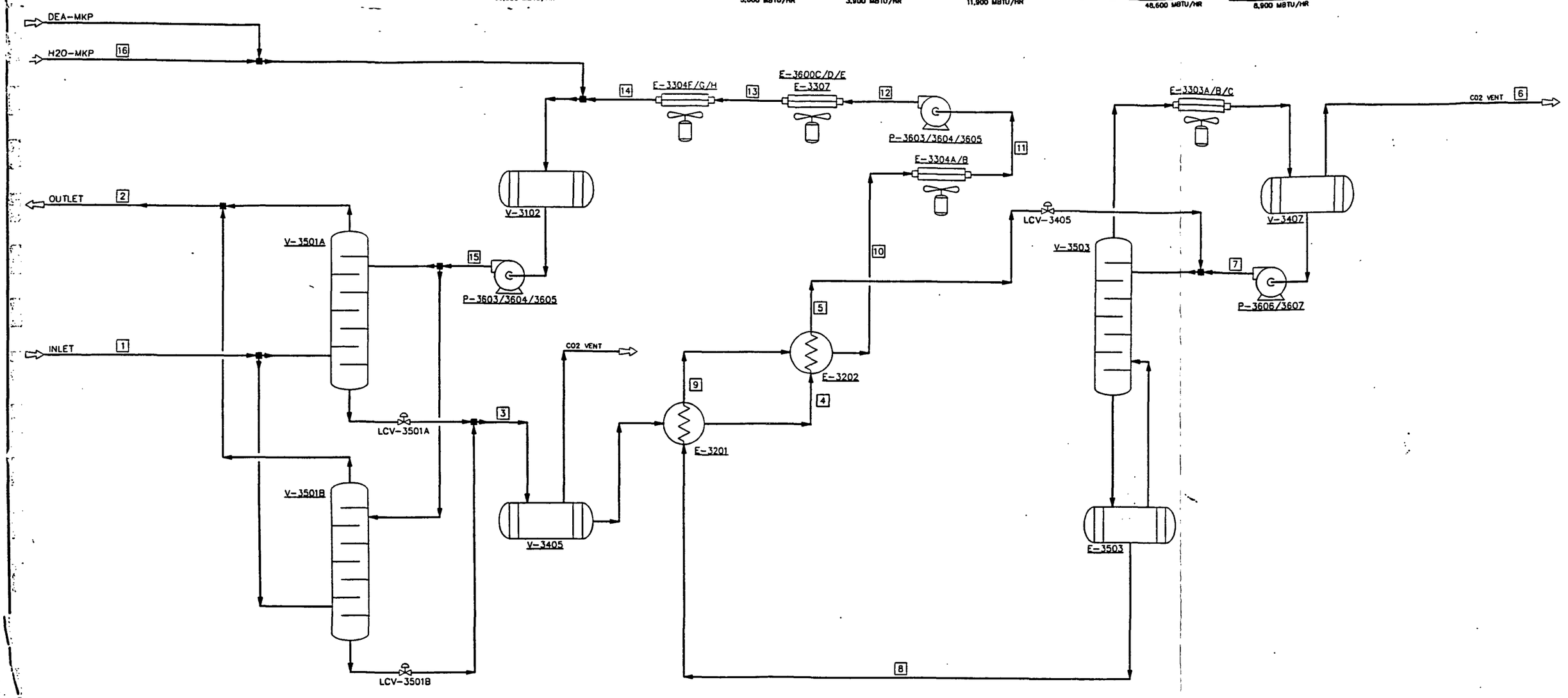
RELEASED ONLY FOR:

	PROJ. ENGR.	DIV. ENGR.	DESIGN ENGR.	DATE
CHECKING				
PRELIMINARY				
BIDDING				
FABRICATION				
ERECTION				

MERIDIAN OIL
VAL VERDE GAS PLANT
TRAIN #1
PROCESS FLOW DIAGRAM

DRAWN: DATE: 08/24/90 CHK'D: DIV:
BCCK ENGINEERING, INC. MIDLAND, TEXAS
DWG. NO. VV-1-M1301 2

V-3501A/B	V-3102	P-3603/3604/3605	V-3405	E-3304C/D/E/F/G/H & E-3307	P-3600A/B/C	E-3304A/B	E-3202	E-3201	V-3503	E-3503	E-3303A/B/C	V-3407	P-3606/3607
AMINE CONTACTORS	AMINE SURGE TANK	AMINE HI. PRESS. PUMPS	FLASH TANK	AMINE SOLUTION COOLERS 36,300 MBTU/HR	AMINE BOOSTER PUMPS	AMINE PRE-COOLERS 5,000 MBTU/HR	FINAL L/R AMINE EXCHANGER 3,900 MBTU/HR	LEAN/RICH AMINE EXCHANGER 11,900 MBTU/HR	AMINE REGEN	AMINE REGEN REBOILER 48,600 MBTU/HR	AMINE REFLUX CONDENSER 8,900 MBTU/HR	AMINE REFLUX ACCUMULATOR	AMINE REFLUX PUMPS



TRAIN #3

STREAM ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
TOTAL FLOW																
GPM	–	–	–	–	–	–	14.7	900	900	900	900	900	900	900	900	3.3
MMCF/D	80.0	71.3	–	–	–	9.4	–	–	–	–	–	–	–	–	–	–
LBMOL/HR	8785	7847	15995	15995	15995	1031	408	14964	14964	14964	14964	14964	14964	14964	14964	92
PRESSURE, PSIG	655	650	85	75	65	14	30	19	19	17	15	50	45	35	800	35
TEMPERATURE, DEG.F	75	120	175	202	211	120	120	255	228	219	207	207	140	120	120	120
COMPONENT FLOW, LBMOL/HR																
GAS SPEC CS+	–	–	2248.61	2248.61	2248.61	–	–	2248.61	2248.61	2248.61	2248.61	2248.61	2248.61	2248.61	2248.61	–
WATER	4.22	23.98	12720.99	12720.99	12720.99	72.63	408.000	12648.36	12648.36	12648.36	12648.36	12648.36	12648.36	12648.36	12648.36	91.63
CARBON DIOXIDE	992.36	39.19	1020.63	1020.63	1020.63	953.17	0.003	67.46	67.46	67.46	67.46	67.46	67.46	67.46	67.46	–
METHANE	7789.23	7783.88	5.35	5.35	5.35	5.35	–	–	–	–	–	–	–	–	–	–

FIGURE 3b:

NOTE:

STREAM DATA IS FOR OPERATING CONDITIONS AFTER 93/94 ADDITIONS.

APP'D	MARK	REVISION	BY	DATE
	2	ISSUED FOR AS-BUILT	K.J.S	1/24/95

REVIEWED BY: XERON ENGR. / PROJ. ENGR. / DIV. ENGR. / PROD. SUPT. / CONST. SUPT. / SAFETY SUP.

RELEASED ONLY FOR:

	PROJ. ENGR.	DIV. ENGR.	DESIGN ENGR.	DATE
CHECKING				
PRELIMINARY				
BIDDING				
FABRICATION				
ERECTION				

MERIDIAN OIL

VAL VERDE GAS PLANT

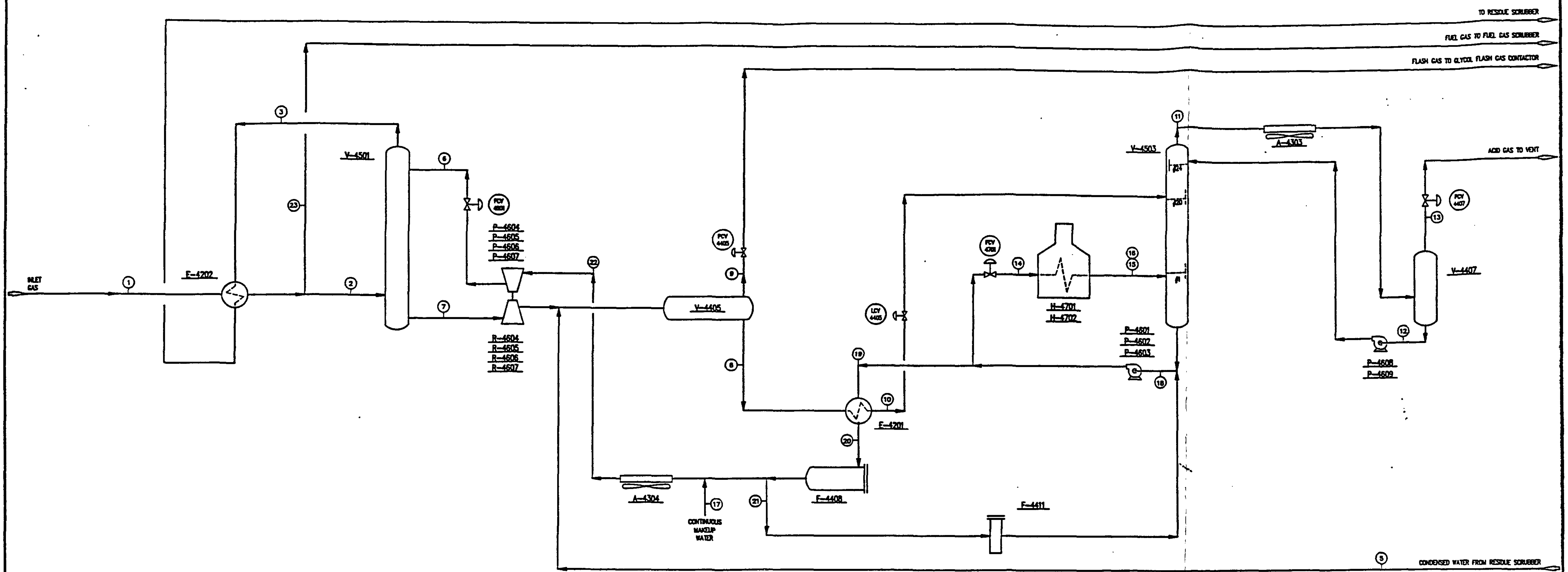
PROCESS FLOW DIAGRAM

DRAWN: Karen S | DATE: 08/24/90 | CHK'D: | DIV:

BCCK ENGINEERING, INC. MIDLAND, TEXAS

DWG. NO. VV-1-M3301 2

E-4202	V-4501	R-4604/5/6/7	P-4604/5/6/7	A-4304	V-4405	F-4408	E-4201	F-4411	P-4601/2/3	V-4503	A-4303	H-4701/2	P-4604/5	V-4407
UNTREATED/TREATED GAS EXCHANGER 3400 MBTU/HR	GAS CONTACTOR	POWER RECOVERY TURBINES	AMINE CIRCULATION PUMPS 431 GPM EACH	AMINE COOLER 43957 MBTU/HR	AMINE FLASH TANK	AMINE FILTER	AMINE/AMINE EXCHANGER 34074 MBTU/HR	AMINE CHARCOAL FILTER	AMINE BOOSTER PUMPS 1468 GPM EACH	AMINE STILL/SURGE	STILL REFLUX COND. 29297 MBTU/HR	AMINE REBOILER 78974 MBTU/HR	REFLUX PUMPS 56 GPM EACH	AMINE STILL REFLUX ACCUMULATOR



STREAM NUMBER	1	2	3	6	7	8	9	10	11	12
DESCRIPTION	INLET GAS	GAS TO AMINE CONTACTOR	AMINE CONTACTOR OHD	LEAN AMINE TO CONTACTOR	RICH AMINE FROM CONTACTOR	RICH AMINE FROM FLASH TANK	FLASH TANK VAPORS	RICH AMINE FROM AMINE EXCHANGER	AMINE STILL OHD VAPOR	AMINE STILL REFLUX LIQUID
TEMPERATURE (°F.)	80.00	108.6	130.00	115.00	170.12	168.71	168.71	213.00	206.07	120.00
PRESSURE (PSIA)	700.00	685	695.00	700.00	695.00	75.00	75.00	70.00	21.80	18.80
MASS FLOW (LB/HR)	244809	239380	185789.44	666714	720229	718257	1972.76	718257	79756	25434
MMCFD (14.7 PSIA & 60°F.)	117.59	114.98	103.96				0.528		24.69	
LIQ. VOL. FLOW (GPM, 60°F.)				1294	1425	1419				50.9
DENSITY (LB/CF)	2.29	2.16	1.79	65.23	68.59	68.59	0.38	15.49 *	0.09	65.72
MOL. WT.	18.94	18.94	16.26	25.41	26.24	26.22	33.98	26.22	29.38	18.03
CO2 (MOLS/HR)	1318.23	1288.98	65.10	45.85	1266.16	1229.25	36.91	1229.25	1186.64	0.60
DEA (MOLS/HR)	0.00	0.00	0.00	2212.71	2212.65	2212.65	0.00	2212.65	0.07	0.07
TEG (MOLS/HR)	0	0	0	0	0	0	0	0	0	0
H2O (MOLS/HR)	3.46	3.39	42.00	23978.91	23953.01	23948.79	4.22	23948.79	1527.08	1409.70
C1 (MOLS/HR)	11566.79	11310.31	11284.06	0.00	17.51	0.62	16.89	0.62	0.62	0.00
C2 (MOLS/HR)	38.77	37.92	37.82	0.00	0.06	0.00	0.05	0.00	0.00	0.00
TOTAL	12927.24	12640.59	11429.00	28237.47	27449.38	27391.31	58.06	27391.31	2714.41	1410.37

STREAM NUMBER	13	14	15	16	17	18	19	20	21	22	23	STREAM NUMBER
DESCRIPTION	ACID GAS TO VENT	AMINE TO REBOILER	AMINE VAPOR FROM REBOILER	LIQUID FROM REBOILER	MAKE-UP WATER	LEAN AMINE FROM SURGE	LEAN AMINE TO AMINE EXCHANGER	LEAN AMINE FROM AMINE EXCHANGER	LEAN AMINE TO CHARCOAL FILTER	LEAN AMINE TO COOLER	FUEL GAS	DESCRIPTION
TEMPERATURE (°F.)	120.00	239.83	241.95	241.95		239.83	239.83	189.21	189.23	189.23	108.6	TEMPERATURE (°F.)
PRESSURE (PSIA)	18.80	53.80	23.80	23.80		53.80	53.80	43.80	43.80	43.80	685	PRESSURE (PSIA)
MASS FLOW (LB/HR)	54323	750072	82741	667331		1510900	760836	760836	84122	666714	5429	MASS FLOW (LB/HR)
MMCFD (14.7 PSIA & 60°F.)	11.86		41.50								2.607	MMCFD (14.7 PSIA & 60°F.)
LIQ. VOL. FLOW (GPM, 60°F.)		1456		1290	4.82	2932	1476	1476	182.6	1294		LIQ. VOL. FLOW (GPM, 60°F.)
DENSITY (LB/CF)	0.13	65.23	0.06	65.53		65.23	65.23	65.23	65.23	65.23	2.16	DENSITY (LB/CF)
MOL. WT.	41.66	25.41	18.13	26.74		25.41	25.41	25.41	25.41	25.41	18.94	MOL. WT.
CO2 (MOLS/HR)	1186.04	51.58	18.61	32.97	0	103.90	52.32	52.32	6.47	45.85	29.25	CO2 (MOLS/HR)
DEA (MOLS/HR)	0.00	2488.36	0.53	2488.83	0	5014.44	2525.08	2525.08	312.37	2212.71	0.00	DEA (MOLS/HR)
TEG (MOLS/HR)	0	0	0	0	0	0	0	0	0	0	0	TEG (MOLS/HR)
H2O (MOLS/HR)	117.38	26976.96	4543.57	22433.39	133.87	54341.05	27364.09	27364.09	3385.18	23978.91	.07	H2O (MOLS/HR)
C1 (MOLS/HR)	0.62	0.00	0.00	0.00	0	0.00	0.00	0.01	0.00	0.00	256.48	C1 (MOLS/HR)
C2 (MOLS/HR)	0.00	0.00	0.00	0.00	0	0.00	0.00	0.01	0.00	0.00	.85	C2 (MOLS/HR)
TOTAL	1304.04	29,517.89	4562.71	24955.18	133.87	59459.38	29941.49	29941.49	3704.02	28237.47	286.65	TOTAL

* = TWO PHASE

FIGURE 3c:

PLOT DATE: 03-20-90
DWG. FILE: 427\WIM4221.DWG

PRINT DISTRIBUTION RECORD

REVISIONS

MERIDIAN OIL

VAL VERDE PLANT
TRAIN 4

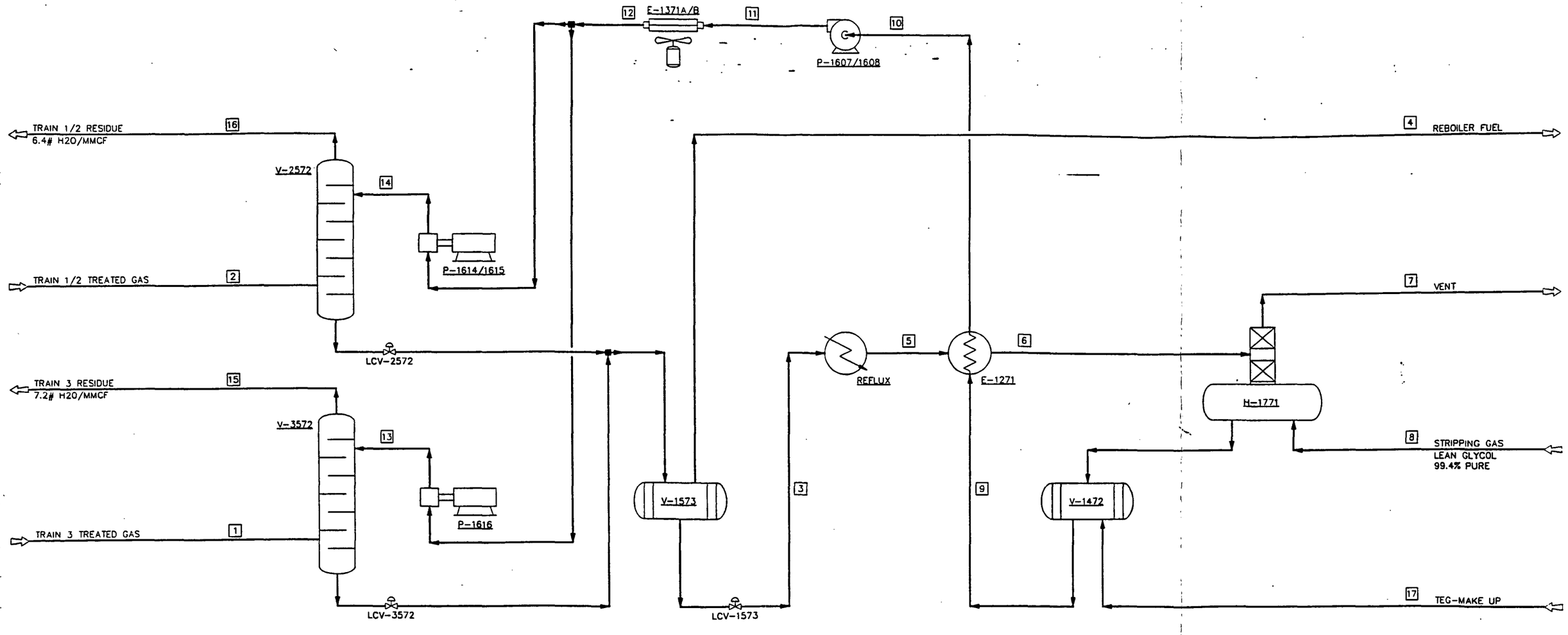
PROCESS FLOW DIAGRAM
AMINE - SUMMER CONDITIONS

ENGINEERS | DATE | REVISED BY: ASHMORE | DATE: 03-03-90

FILE NO. W-1-M4221

DRAFTED BY: T.H. RUSSELL CO. TULSA, OK.

V-2572/3572	P-1614/1615/1616	V-1573	E-1371A/B	P-1607/1608	E-1271		V-1472	H-1771
GLYCOL CONTACTORS	GLYCOL HI. PRESS. PUMPS 5 BHP EACH	GLYCOL FLASH TANK	GLYCOL COOLERS 579 MBTU/HR	GLYCOL PUMPS 0.5 BHP EACH	LEAN/RICH GLYCOL EXCHANGER 816 MBTU/HR	REFLUX CONDENSER 275 MBTU/HR	SECONDARY SURGE TANK	GLYCOL REBOILER 1,360 MBTU/HR



GLYCOL UNIT

STREAM ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
TOTAL FLOW																	
GPM	–	–	18	–	18	–	–	–	16.5	16.5	16.5	16.5	8.3	8.3	–	–	0.007
MMCF/D	71.2	62.6	–	0.014	–	–	0.478	0.100	–	–	–	–	–	–	71	62.4	–
LBMOL/HR	7820	6873	106	1.6	106	106	53	10.8	64.7	64.7	64.7	64.7	32.4	32.4	7796	6852	–
PRESSURE, PSIG	650	650	38	38	33	28	5	8	5	5	18	16	738	738	633	633	5
TEMPERATURE, DEG.F	120	120	125	125	171	300	208	95	367	228	228	120	120	120	124	124	100
COMPONENT FLOW, LBMOL/HR																	
GAS SPEC CS+	–	–	61.60	–	61.60	61.60	–	–	61.60	61.60	61.60	61.60	30.80	30.80	0.01	0.01	0.03
WATER	23.30	20.70	44.60	0.02	44.60	44.60	41.60	–	3.00	3.00	3.00	3.00	1.50	1.50	1.18	0.92	–
CARBON DIOXIDE	19.50	17.10	0.04	0.04	0.04	0.04	0.09	0.05	–	–	–	–	–	–	38.94	34.22	–
METHANE	7777.20	6835.20	0.13	1.49	0.13	0.13	10.90	10.80	0.04	0.04	0.04	0.04	0.02	0.02	7755.87	6816.85	–

FIGURE 4a:

NOTE:
STREAM DATA IS FOR OPERATING CONDITIONS AFTER 93/94 ADDITIONS.

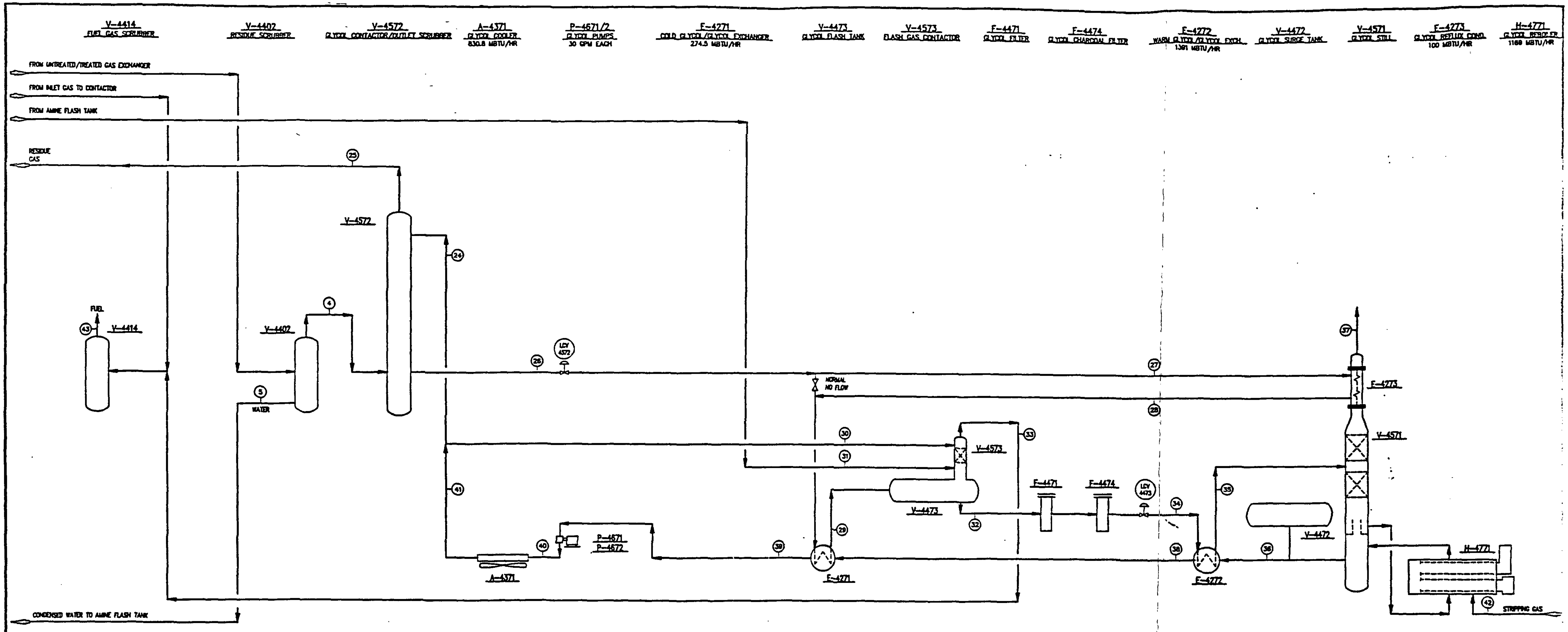
APP'D	MARK	REVISION	BY	DATE
	2	ISSUED FOR AS-BUILT	K.J.S.	9/21/93

REVIEWED BY: DESIGN ENGR. / PROJ. ENGR. / DIV. ENGR. / PROD. SUPT. / CONST. SUPT. / SAFETY

RELEASED ONLY FOR:

	PROJ. ENGR.	DIV. ENGR.	DESIGN ENGR.	DATE
CHECKING				
PRELIMINARY				
BIDDING				
FABRICATION				
ERECTION				

MERIDIAN OIL
VAL VERDE GAS PLANT
TRAIN #1, #2 & #3
GLYCOL PROCESS FLOW DIAGRAM
DRAWN: Karen S. | DATE: 08/24/93 | CHK'D: | DIV:
BCCK ENGINEERING, INC. MIDLAND, TEXAS | DWG. NO. VV-1-M1310 | 2



STREAM NUMBER	4	5	24	25	26	27	28	29	30	31	32
DESCRIPTION	TEG CONTACTOR INLET	CONDENSED WATER	LEAN TEG TO CONTACTOR	CONTACTOR OHD	RICH TEG FROM CONTACTOR	RICH TEG TO REFLUX CONDENSER	RICH TEG FROM REFLUX CONDENSER	RICH TEG FROM COLD GLYCOL EXCH.	LEAN TEG TO FLASH CONTACTOR	AMINE FLASH VAPOR	RICH TEG FROM FLASH TANK
TEMPERATURE (°F.)	102.02	102.02	115	105.55	104.82	112.12	127.2	167	115	168.71	173.27
PRESSURE (PSIA)	690	690	685	685	690	75	70	65	685	70	66
MASS FLOW (LB/HR)	185392	398	15115	185018	15467	15467	15467	15467	2011	1973	17658
MMCFD (14.7 PSIA & 60°F.)	103.76			103.57						0.528	
LIQ. VOL. FLOW (GPM, 60°F.)		0.8	26.8		27.7				3.56		31.5
DENSITY (LB/CF)	1.86	62.22	69.25	1.99	69.05	40.38 ◆	38.36 ◆	35.16 ◆	69.25	0.33	67
MOL. WT.	16.25	18.02	141.09	16.25	121.07	122.15	122.15	122.15	141.10	33.97	12?
CO2 (MOLS/HR)	65.09	0	0	64.93	0.16	0.16	0.16	0.16	0	36.91	3.48
DEA (MOLS/HR)	0	0	0	0	0	0	0	0	0	0	0
TEG (MOLS/HR)	0	0	99.77	0.01	99.77	99.77	99.77	99.77	0.98	0	113.04
H2O (MOLS/HR)	19.95	22.05	7.36	1.48	24.50	24.50	24.50	24.50	13.27	4.22	29.3
C1 (MOLS/HR)	11284.05	0.02	0	11231.89	2.16	2.16	2.16	2.16	0	16.89	0.09
C2 (MOLS/HR)	37.82	0	0	37.80	0.02	0.02	0.02	0.02	0	0.05	0.01
TOTAL	11406.92	22.07	107.13	11386.11	126.62	126.62	126.62	126.62	14.25	58.06	145.93

STREAM NUMBER	33	34	35	36	37	38	39	40	41	42	43	STREAM NUMBER
DESCRIPTION	FLASH CONTACTOR OHD	RICH TEG TO WARM GLYCOL EXCH.	RICH TEG FROM WARM GLYCOL EXCH.	LEAN TEG FROM REBOILER	TEG STILL OHD	LEAN TEG FROM WARM GLYCOL EXCH.	LEAN TEG FROM COLD GLYCOL EXCH.	LEAN TEG TO COOLER	LEAN TEG FROM COOLER	GLYCOL REBOILER STRIPPING GAS	TOTAL FUEL GAS	DESCRIPTION
TEMPERATURE (°F.)	150.02	171.97	310	400	204.15	255.16	222.89	203.6	115	105	115	TEMPERATURE (°F.)
PRESSURE (PSIA)	65	20	15	14.8	14.7	14.8	14.55	690	685	15.3	65	PRESSURE (PSIA)
MASS FLOW (LB/HR)	1791	17658	17658	17125	533	17125	17125	17125	17125		6366	MASS FLOW (LB/HR)
MMCFD (14.7 PSIA & 60°F.)	0.482				0.223						3.072	MMCFD (14.7 PSIA & 60°F.)
LIQ. VOL. FLOW (GPM, 60°F.)				30.3		30.3	30.3	30.3	30.3			LIQ. VOL. FLOW (GPM, 60°F.)
DENSITY (LB/CF)	0.34	17.2 ◆	2.49 ◆	59.67	0.04	64.73	65.69	66.86	69.25	.022	2.24	DENSITY (LB/CF)
MOL. WT.	33.8	121	121	141.09	21.59	141.09	141.09	142.87	141.09	16.24	20.2	MOL. WT.
CO2 (MOLS/HR)	33.59	3.48	3.48	0	3.48	0	0	0	0	64.92	62.84	CO2 (MOLS/HR)
DEA (MOLS/HR)	0	0	0	0	0	0	0	0	0	0	0	DEA (MOLS/HR)
TEG (MOLS/HR)	0	113.04	113.04	113.04	0	113.04	113.04	113.04	113.04	0	0	TEG (MOLS/HR)
H2O (MOLS/HR)	0.38	29.3	29.3	8.33	20.97	8.33	8.33	8.33	8.33	1.48	.45	H2O (MOLS/HR)
C1 (MOLS/HR)	18.95	0.09	0.09	0	0.09	0	0	0	0	11281.88	275.43	C1 (MOLS/HR)
C2 (MOLS/HR)	0.06	0.01	0.01	0	0.01	0	0	0	0	37.8	.91	C2 (MOLS/HR)
TOTAL	52.98	145.93	145.93	121.37	24.56	121.37	121.37	121.37	121.37	11386.1	338.64	TOTAL

◆ = TWO PHASE

FIGURE 4b:

PLOT DATE: 03-20-90
DWG. FILE: 427\VVM4222.DWG

PRINT DISTRIBUTION RECORD

REVISIONS

MERIDIAN OIL

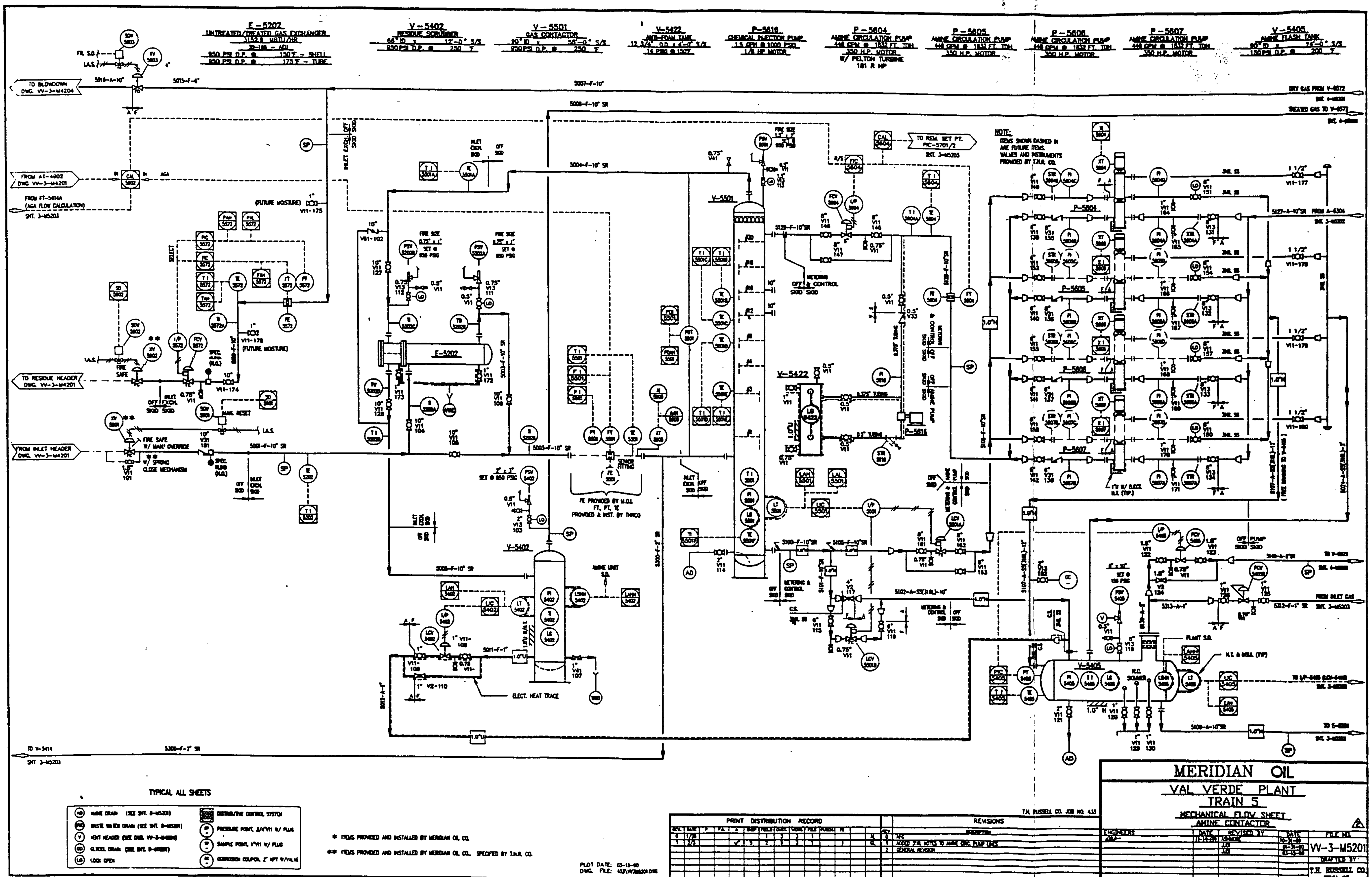
VAL VERDE PLANT
TRAIN 4

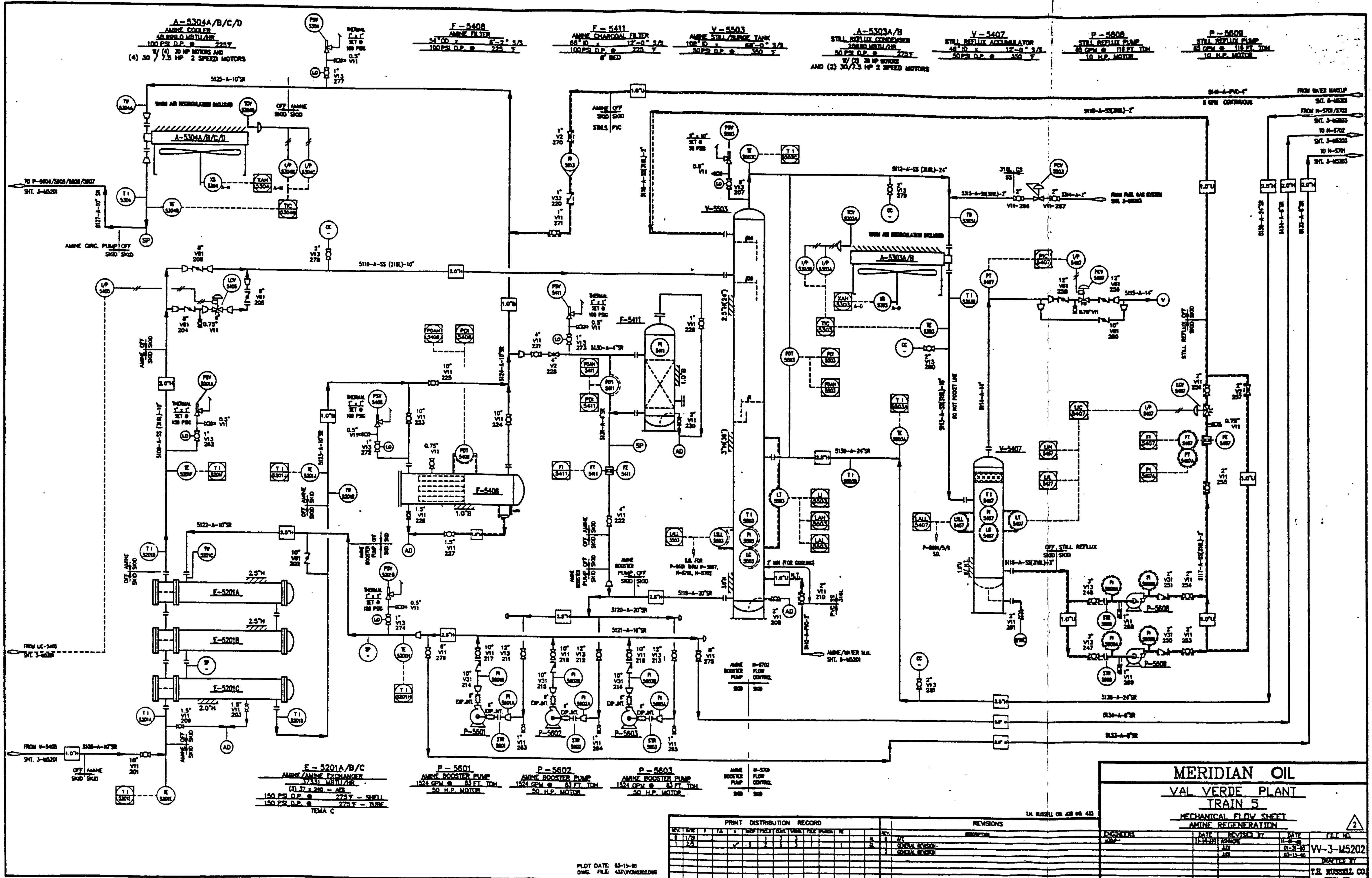
PROCESS FLOW DIAGRAM
GLYCOL - SUMMER CONDITIONS

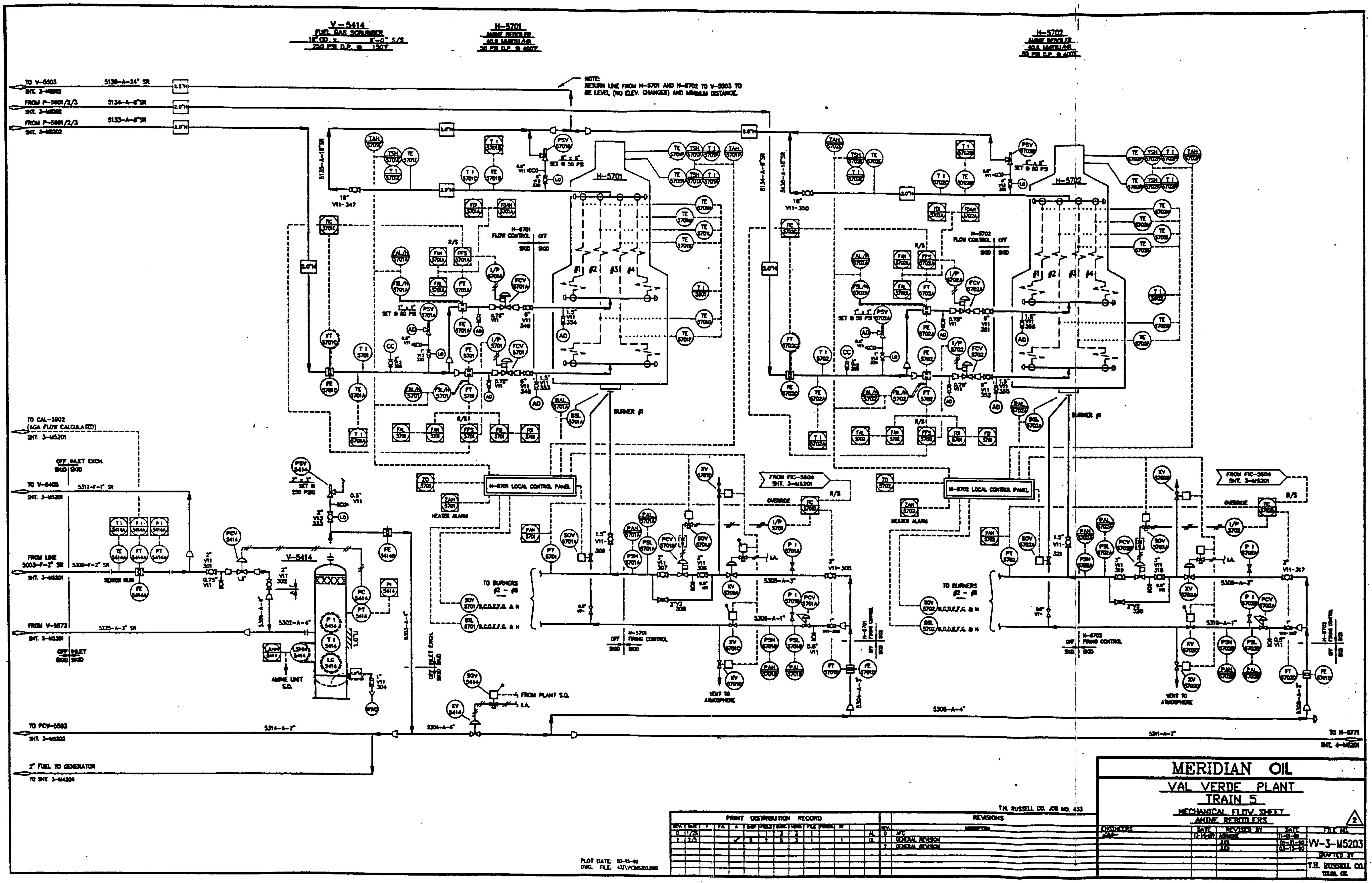
ENGINEERS	DATE	REVISED BY	DATE	FILE NO.
		ASHMORE	03-03-90	VV-1-M4222
				DRAFTED BY
				T.H. RUSSELL CO. TULSA, OK.

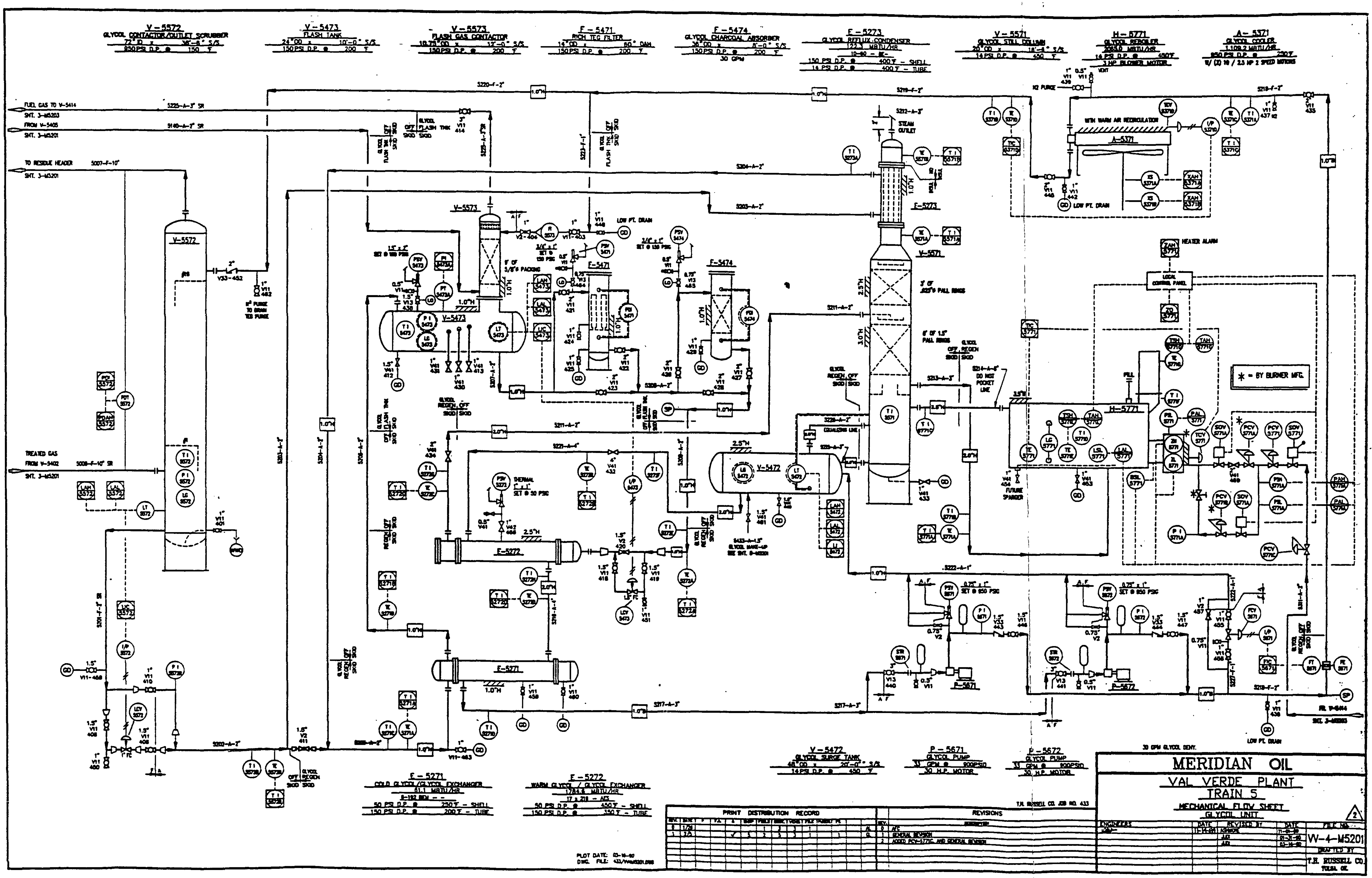
FIGURE 2
PLOT PLAN AND EQUIPMENT LAYOUT

FIGURE 5
TRAIN 5 PROCESS AND INSTRUMENT DIAGRAMS


E-5202
UNTREATED/TREATED GAS EXCHANGER
V-5402
RESIDUE SCRUBBER
V-5501
GAS CONTACTOR
V-5422
ANTI-FOAM TANK
P-5618
CHEMICAL INJECTION PUMP
P-5604
AMINE CIRCULATION PUMP
P-5605
AMINE CIRCULATION PUMP
P-5606
AMINE CIRCULATION PUMP
P-5607
AMINE CIRCULATION PUMP
V-5405
AMINE FLASH TANK
TO BLOWDOWN DWG. VW-3-M4204
TO RESIDUE HEADER DWG. VW-3-M4201
FROM INLET HEADER DWG. VW-3-M4201
FIRE SAFE W/ MAN'L OVERRIDE W/ SPRING CLOSE MECHANISM
ELECT. HEAT TRACE
FE PROVIDED BY M.O.I. FT, PT, TE PROVIDED & INST. BY THRCO
NOTE: ITEMS SHOWN DASHED IN ARE FUTURE ITEMS. VALVES AND INSTRUMENTS PROVIDED BY T.H.R. CO.
DRY GAS FROM V-5572
TREATED GAS TO V-5572
TO V-5414
TYPICAL ALL SHEETS
AMINE DRAIN
WASTE WATER DRAIN
VENT HEADER
GLYCOL DRAIN
LOCK OPEN
DISTRIBUTIVE CONTROL SYSTEM
PRESSURE POINT
SAMPLE POINT
CORROSION COUPON
* ITEMS PROVIDED AND INSTALLED BY MERIDIAN OIL CO.
** ITEMS PROVIDED AND INSTALLED BY MERIDIAN OIL CO. SPECIFIED BY T.H.R. CO.
PRINT DISTRIBUTION RECORD
REVISIONS
T.H. RUSSELL CO. JOB NO. 433
MERIDIAN OIL
VAL VERDE PLANT
TRAIN 5
MECHANICAL FLOW SHEET
AMINE CONTACTOR
VW-3-M5201
T.H. RUSSELL CO.
TULSA, OK.


A-5304A/B/C/D
AMINE COOLER
F-5408
AMINE FILTER
F-5411
AMINE CHARCOAL FILTER
V-5503
AMINE STILL/SURGE TANK
A-5303A/B
STILL REFLUX CONDENSER
V-5407
STILL REFLUX ACCUMULATOR
P-5608
STILL REFLUX PUMP
P-5609
STILL REFLUX PUMP
E-5201A/B/C
AMINE/AMINE EXCHANGER
TEMA C
P-5601
AMINE BOOSTER PUMP
1524 GPM @ 83 FT. TDH
50 H.P. MOTOR
P-5602
AMINE BOOSTER PUMP
1524 GPM @ 83 FT. TDH
50 H.P. MOTOR
P-5603
AMINE BOOSTER PUMP
1524 GPM @ 83 FT. TDH
50 H.P. MOTOR
PRINT DISTRIBUTION RECORD
REVISIONS
MERIDIAN OIL
VAL VERDE PLANT
TRAIN 5
MECHANICAL FLOW SHEET
AMINE REGENERATION
W-3-M5202


V - 5414
FUEL GAS SCRUBBER
H-5701
AMINE REBOILER
H-5702
AMINE REBOILER
NOTE:
RETURN LINE FROM H-5701 AND H-5702 TO V-5503 TO BE LEVEL (NO ELEV. CHANGES) AND MINIMUM DISTANCE.
TO V-5503
FROM P-5601/2/3
H-5701 FLOW CONTROL
H-5702 FLOW CONTROL
BURNER #1
H-5701 LOCAL CONTROL PANEL
H-5702 LOCAL CONTROL PANEL
HEATER ALARMS
TO CAL-5902 (AGA FLOW CALCULATED)
TO V-5405
FROM LINE
FROM V-5573
AMINE UNIT S.D.
FROM PLANT S.D.
TO BURNERS
FROM FIC-5604
OVERRIDE
H-5701 FIRING CONTROL
H-5702 FIRING CONTROL
VENT TO ATMOSPHERE
TO PCV-5503
2" FUEL TO GENERATOR
TO H-5771
PRINT DISTRIBUTION RECORD
REVISIONS
T.H. RUSSELL CO. JOB NO. 433
PLOT DATE
DWG. FILE
MERIDIAN OIL
VAL VERDE PLANT
TRAIN 5
MECHANICAL FLOW SHEET
AMINE REBOILERS
W-3-M5203
DRAFTED BY
T.H. RUSSELL CO.
TULSA, OK



V-5572
GLYCOL CONTACTOR/OUTLET SCRUBBER
V-5473
FLASH TANK
V-5573
FLASH GAS CONTACTOR
F-5471
RICH TEG FILTER
F-5474
GLYCOL CHARCOAL ABSORBER
30 GPM
E-5273
GLYCOL REFLUX CONDENSER
V-5571
GLYCOL STILL COLUMN
H-5771
GLYCOL REBOILER
3 HP BLOWER MOTOR
A-5371
GLYCOL COOLER
FUEL GAS TO V-5414
TO RESIDUE HEADER
TREATED GAS
FROM V-5402
LOW PT. DRAIN
STEAM OUTLET
WITH WARM AIR RECIRCULATION
HEATER ALARM
LOCAL CONTROL PANEL
* = BY BURNER MFG.
FUTURE SPARGER
V-5472
F-5272
F-5271
P-5671
P-5672
V-5472
GLYCOL SURGE TANK
P-5671
GLYCOL PUMP
30 H.P. MOTOR
P-5672
GLYCOL PUMP
30 H.P. MOTOR
E-5271
COLD GLYCOL/GLYCOL EXCHANGER
E-5272
WARM GLYCOL/GLYCOL EXCHANGER
30 GPM GLYCOL CIRCY.
MERIDIAN OIL
VAL VERDE PLANT
TRAIN 5
MECHANICAL FLOW SHEET
GLYCOL UNIT
PRINT DISTRIBUTION RECORD
REVISIONS
GENERAL REVISION
ADDED PCV-5771C AND GENERAL REVISION
W-4-M5201
DRAFTED BY
T.H. RUSSELL CO.
TULSA OK.

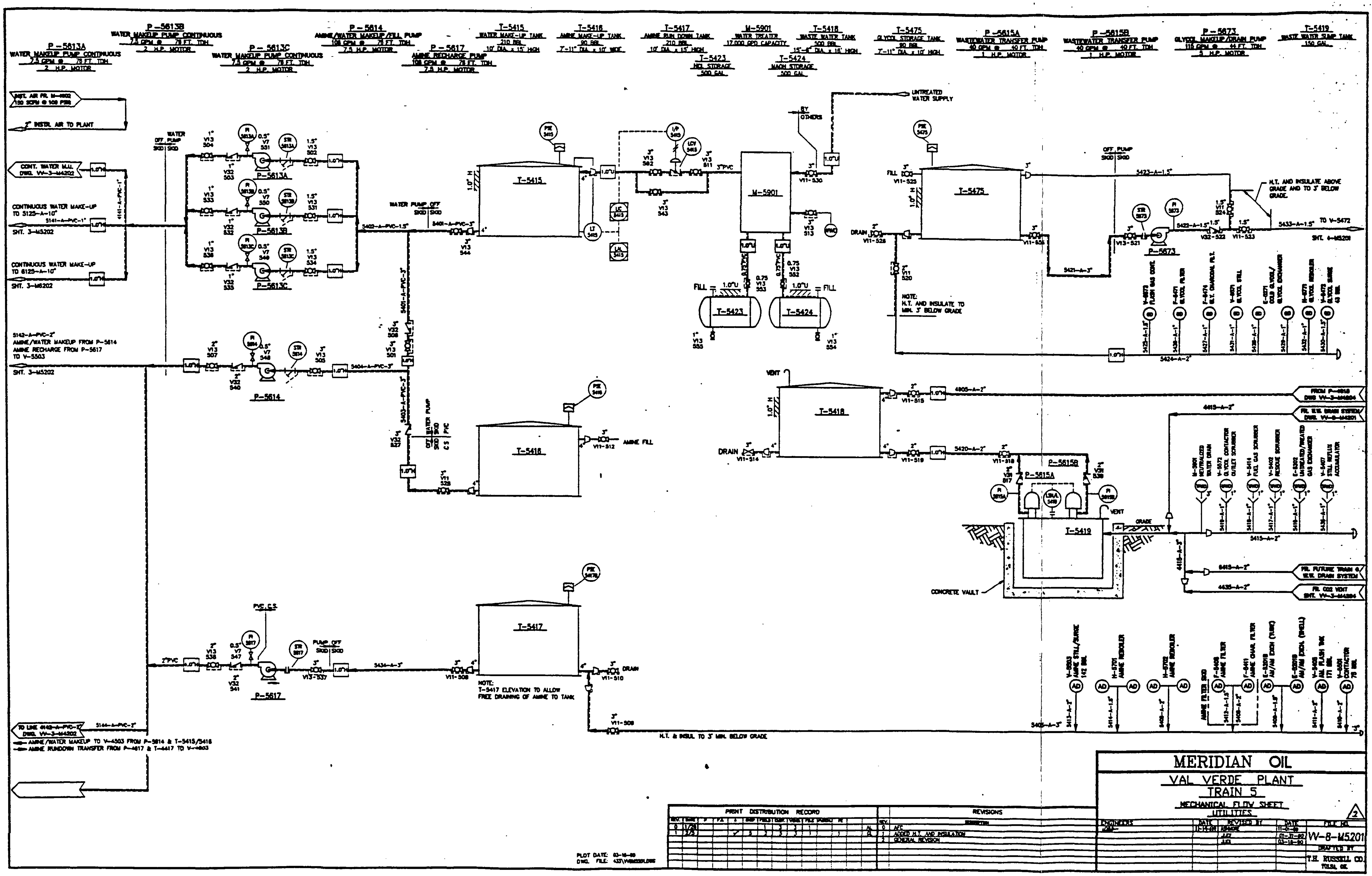
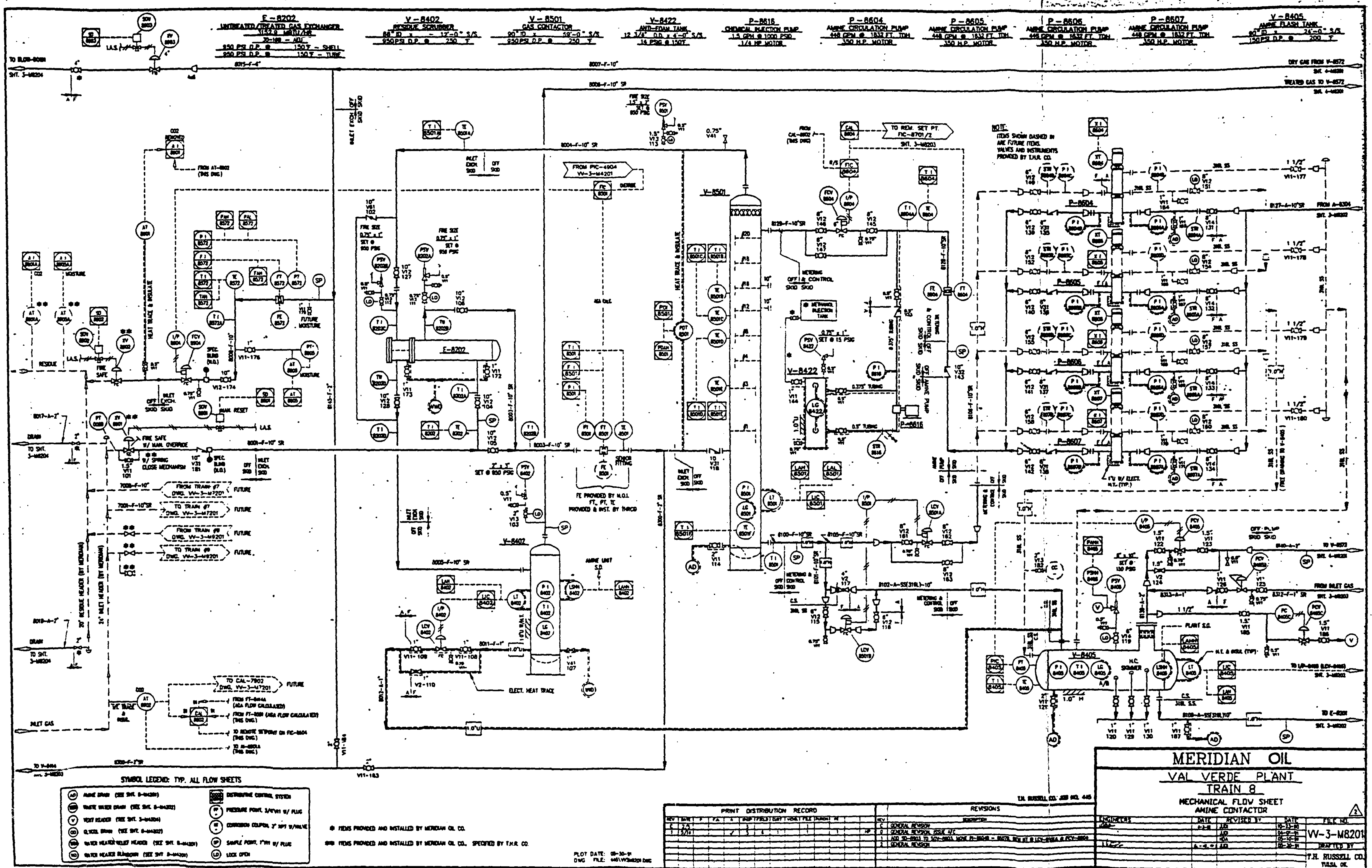

P-5813A
WATER MAKEUP PUMP CONTINUOUS
7.5 GPM @ 78 FT. TDH
2 H.P. MOTOR
P-5813B
WATER MAKEUP PUMP CONTINUOUS
7.5 GPM @ 78 FT. TDH
2 H.P. MOTOR
P-5813C
WATER MAKEUP PUMP CONTINUOUS
7.5 GPM @ 78 FT. TDH
2 H.P. MOTOR
P-5814
AMINE/WATER MAKEUP/FILL PUMP
108 GPM @ 78 FT. TDH
7.5 H.P. MOTOR
P-5617
AMINE RECHARGE PUMP
108 GPM @ 78 FT. TDH
7.5 H.P. MOTOR
T-5415
WATER MAKE-UP TANK
210 BBL
10' DIA. x 15' HIGH
T-5416
AMINE MAKE-UP TANK
90 BBL
7'-11" DIA. x 10' WIDE
T-5417
AMINE RUN DOWN TANK
210 BBL
10' DIA. x 15' HIGH
M-5901
WATER TREATER
17,000 GPD CAPACITY
T-5423
HCL STORAGE
500 GAL
T-5424
NAOH STORAGE
500 GAL
T-5418
WASTE WATER TANK
500 BBL
15'-6" DIA. x 16' HIGH
T-5475
GLYCOL STORAGE TANK
90 BBL
7'-11" DIA. x 10' HIGH
P-5615A
WASTEWATER TRANSFER PUMP
40 GPM @ 40 FT. TDH
1 H.P. MOTOR
P-5615B
WASTEWATER TRANSFER PUMP
40 GPM @ 40 FT. TDH
1 H.P. MOTOR
P-5873
GLYCOL MAKEUP/DRAIN PUMP
115 GPM @ 44 FT. TDH
5 H.P. MOTOR
T-5419
WASTE WATER SUMP TANK
150 GAL
2" INSTR. AIR TO PLANT
CONT. WATER M.U.
CONTINUOUS WATER MAKE-UP TO 5125-A-10"
SHT. 3-M5202
CONTINUOUS WATER MAKE-UP TO 6125-A-10"
SHT. 3-M5202
5142-A-PVC-2"
AMINE/WATER MAKEUP FROM P-5814
AMINE RECHARGE FROM P-5617
TO V-5503
SHT. 3-M5202
UNTREATED WATER SUPPLY
BY OTHERS
WATER PUMP OFF SKID | SKID
5402-A-PVC-1.5"
5401-A-PVC-3"
5404-A-PVC-3"
5403-A-PVC-3"
AMINE FILL
FILL
DRAIN
TO V-5472
SHT. 4-M5201
5423-A-1.5"
5421-A-3"
5424-A-2"
NOTE:
H.T. AND INSULATE TO MIN. 3' BELOW GRADE
H.T. AND INSULATE ABOVE GRADE AND TO 3' BELOW GRADE
VENT
4805-A-2"
FROM P-4818
FR. W.W. DRAIN SYSTEM
5420-A-2"
4415-A-2"
5415-A-2"
FR. FUTURE TRAIN 6 W.W. DRAIN SYSTEM
4435-A-2"
FR. CO2 VENT
CONCRETE VAULT
GRADE
PVC CS
PUMP OFF SKID | SKID
5434-A-3"
NOTE:
T-5417 ELEVATION TO ALLOW FREE DRAINING OF AMINE TO TANK
H.T. & INSUL TO 3' MIN. BELOW GRADE
5405-A-3"
5144-A-PVC-2"
AMINE/WATER MAKEUP TO V-4503 FROM P-5814 & T-5415/5416
AMINE RUNDOWN TRANSFER FROM P-4617 & T-4417 TO V-4603
PLOT DATE: 03-16-90
PRINT DISTRIBUTION RECORD
REVISIONS
0 AFC
1 ADDED H.T. AND INSULATION
2 GENERAL REVISION
MERIDIAN OIL
VAL VERDE PLANT
TRAIN 5
MECHANICAL FLOW SHEET
UTILITIES
ENGINEERS
DATE
REVISED BY
DATE
FILE NO.
W-8-M5201
DRAFTED BY
T.H. RUSSELL CO.
TULSA, OK

FIGURE 6
TRAIN 8 PROCESS AND INSTRUMENTATION DIAGRAMS


E-8202
UNTREATED/TREATED GAS EXCHANGER
V-8402
RESIDUE SCRUBBER
V-8501
GAS CONTACTOR
V-8422
ANTI-FOAM TANK
P-8616
CHEMICAL INJECTION PUMP
P-8604
AMINE CIRCULATION PUMP
P-8605
AMINE CIRCULATION PUMP
P-8606
AMINE CIRCULATION PUMP
P-8607
AMINE CIRCULATION PUMP
V-8405
AMINE FLASH TANK
DRY GAS FROM V-8572
TREATED GAS TO V-8572
RESIDUE
INLET GAS
DRAIN
FIRE SAFE
FUTURE
ELECT. HEAT TRACE
PLANT S.D.
AMINE UNIT S.D.
SYMBOL LEGEND: TYP. ALL FLOW SHEETS
PRINT DISTRIBUTION RECORD
REVISIONS
GENERAL REVISION
PLOT DATE:
DWG. FILE:
MERIDIAN OIL
VAL VERDE PLANT
TRAIN 8
MECHANICAL FLOW SHEET
AMINE CONTACTOR
FILE NO.
W-3-M8201
DRAFTED BY
T.H. RUSSELL CO.
TULSA, OK.

M-8902
INSTRUMENT AIR COMPRESSOR PACKAGE
150 SCFM @ 100 PSIG
(3) 30 HP MOTORS

T-8418
WASTE WATER TANK
500 BBL
15'-6" DIA. x 16' HIGH

P-8615A
WASTEWATER TRANSFER PUMP
40 GPM @ 40 FT. TDH
1 H.P. MOTOR

P-8615B
WASTEWATER TRANSFER PUMP
40 GPM @ 40 FT. TDH
1 H.P. MOTOR

T-8426
WASTE WATER SUMP TANK
150 GAL

T-8475
GLYCOL STORAGE TANK
80 BBL
7'-11" DIA. x 10' HIGH

V-8412
CLOSED DRAIN K.O.
48"OD x 5'-0" S/S
50 PSI O.P. @ 150 °F

P-8673
GLYCOL MAKEUP/DRAIN PUMP
18 GPM @ 44 FT. TDH
5 H.P. MOTOR

FUTURE INSTR. AIR TO TRAIN 7

2" INSTRUMENT AIR TO TRAIN 8

EXISTING NEW (TRAIN 8)

INSTRUMENT AIR TO/FROM TRAIN 9

TO TRAIN 9 DWG. VV-8-M8201

2 AIR RECEIVERS
60" O.D. x 15'-6" S/S

M-8902

T-8475

FILL

DRAIN

8423-A-1.5"

H.T. AND INSULATE TO 3' BELOW GRADE

UTILITY PUMP OFF 9500 | 9500

8433-A-2"

TO V-8472 SHT. 4-M8205

P-8673

8421-A-3"

8422-A-2"

8424-A-2"

V-8571 GLYCOL STILL 15#

H-8771 GLYCOL REBOILER 15#

E-8271 COLD GLYCOL/ GLYCOL EXCHANGER 150#

V-8472 GLYCOL SURGE 43 BBL

P-8571 / P-8572 SUCTION & DISCHARGE

LOW POINT DRAIN

E-8471 HOT GLYCOL/ GLYCOL EXCHANGER 150#

V-8478 PUMP DRAIN TANK

A-8471 GLYCOL COOLER 600#

V-8572 (IN LINE 8589) GLYCOL CONTACTOR 600#

LOW POINT DRAIN LINE 8229-A-1"

F-8471 GLYCOL FILTER 150#

F-8474 GLY. CHARCOAL FLT. 150#

V-8473 GLYCOL FLASH TANK 150#

V-8573 FLASH GAS CONT. 150#

VENT

T-8418

C.S. SS(316L)

8905-A-SS(316L)-2"

FROM P-8818 SHT. 3-M8205

H.T. AND INSULATE TO 3' BELOW GRADE

CO2 VENT STACK AND V-8420

8435-A-SS(316L)-2"

FUTURE FROM TRAIN 7 SHT. VV-8-M7201

7432-A-SS(316L)-2"

DRAIN

8420-A-2"

P-8615A

P-8615B

VENT

T-8426

GRADE

TRAP

8415-A-3"

V-8482

7415-A-2"

FR. FUTURE TRAIN 7 W.W. DRAIN SYSTEM

8415-A-2"

V-8407 TEG REGEN ACCUMULATOR 150#

V-8425 BOOST HEATER C.S. 600#

V-8450 WATER HEATER SHELL

V-8402 REBOILER SCRUBBER 600#

V-8572 GLYCOL CONTACTOR BOOST SCRUBBER 600#

E-8082 REBOILER/HEATER GAS EXCHANGER 900#

V-8411 T.E. SCRUBBER 150#

V-8421 DRAIN TK. S.S. 150#

8440-A-2"

8436-A-SS(316L)-2"

8440-A-SS(316L)-2"

8438-A-SS(316L)-2"

8439-A-SS(316L)-3"

8432-A-SS(316L)-2"

FUTURE FROM TRAIN 9 SHT. VV-8-M8201

8442-A-PVC-3"

8441-A-PVC-3"

M-8901 WATER HEATER MISC. DRAINS

UTILITY PUMP 900 DRAIN

DRAIN FROM LINE 8415-A-SS(316L)-3"

A-8303 A/B GAS TEG RETURN CONDENSER

CONCRETE VAULT

* = FOOT VALVE SUPPLIED WITH PUMPS

1 1/2" TO WATER HEATER BUILDING

EMERGENCY EYE-WASH (LOCATED IN TANK AREA)

POTABLE WATER

2" PVC

V13-880

V13-881

T.R. RUSSELL CO. JOB NO. 445

PRINT DISTRIBUTION RECORD

REV.	DATE	P	P.A.	A	SUP'T	FIELD	ELEC.	TUBE	PIPE	PUMPS	PE	
0	4/1			✓	3	3	1			1		HP
1	5/16			✓	3	6	1			1		HP

REVISIONS

REV.	DESCRIPTION
0	THIS DRAWING CREATED FROM PORTIONS OF VV-8-M8201, ISSUED A/F/C
1	ADD P1-8866, REVISED MHD HEADERS
2	GENERAL REVISION

PLOT DATE: 05-9-99
DWG. FILE: 445\M8202.DWG

MERIDIAN OIL

VAL VERDE PLANT

TRAIN 8

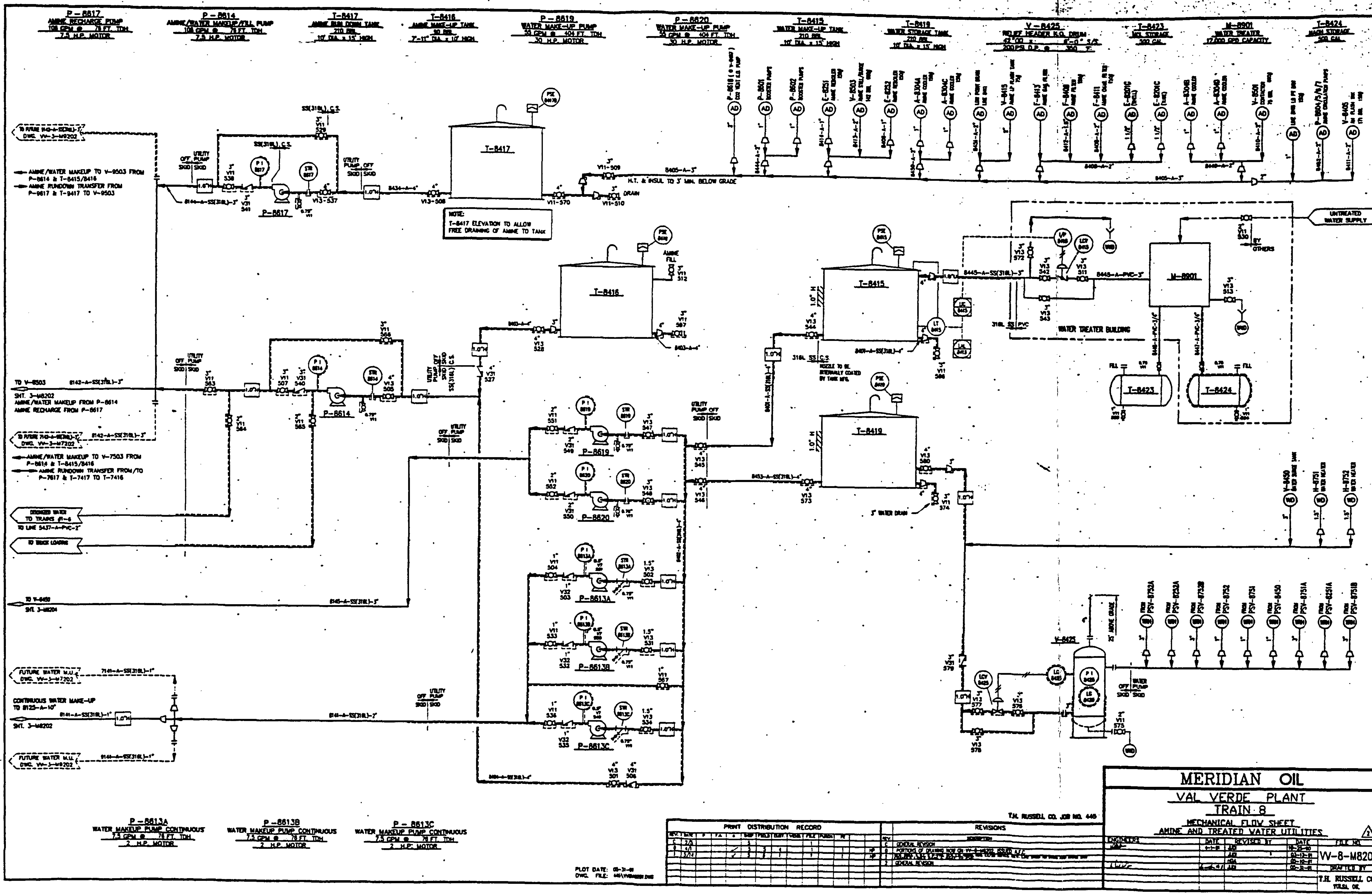
MECHANICAL FLOW SHEET

INSTRUMENT AIR, GLYCOL AND WASTEWATER UTILITIES

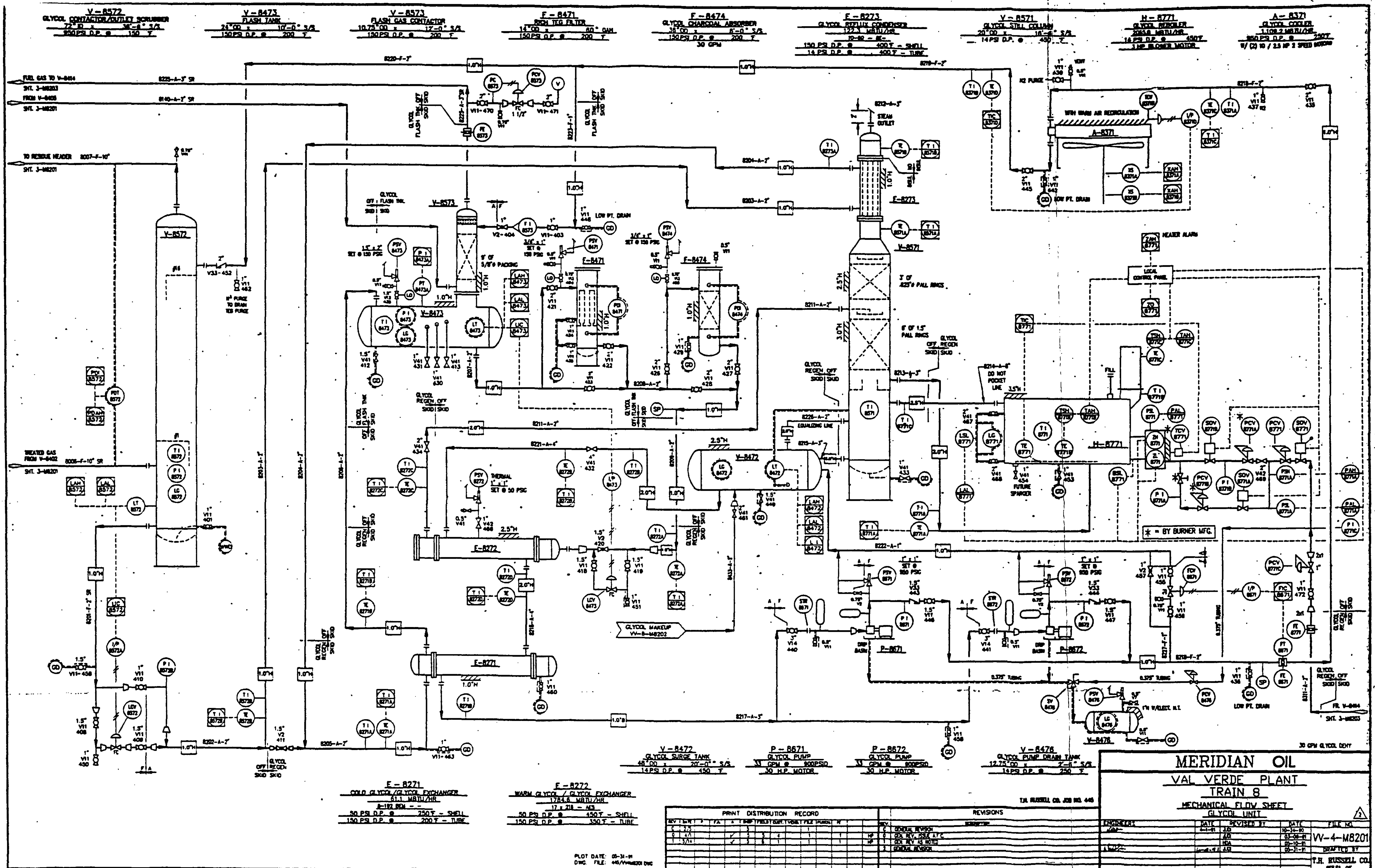
ENGINEERS	DATE	REVISED BY	DATE	FILE NO.
	4-1-99	JJD	05-06-99	VV-8-M8202
		MA	05-10-99	
	4-1-99	JJD	05-11-99	

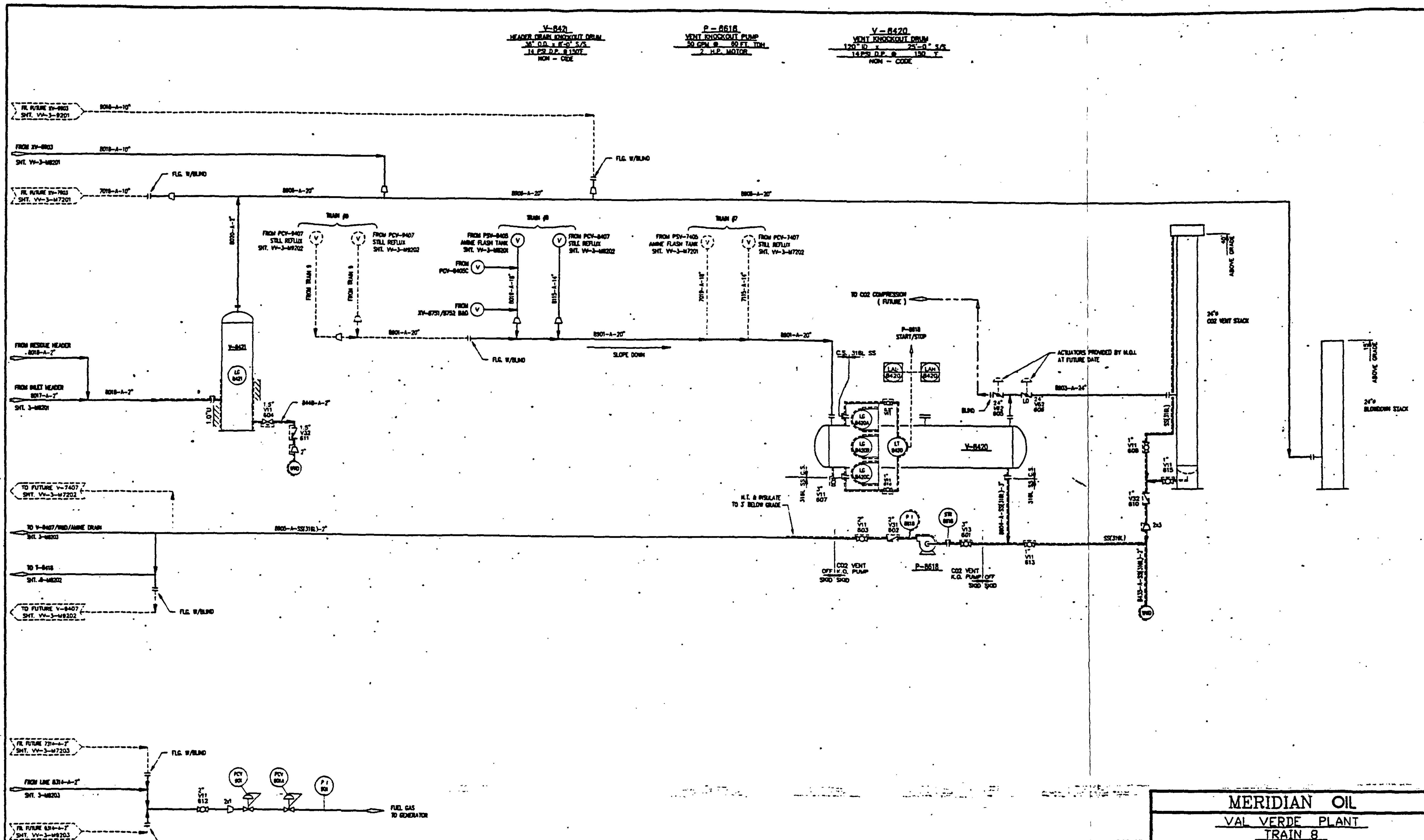
DRAFTED BY

T.R. RUSSELL CO.
TULSA, OK.



P-8617 AMINE RECHARGE PUMP 108 GPM @ 78 FT. TDH 7.5 H.P. MOTOR
P-8614 AMINE/WATER MAKEUP/FILL PUMP 108 GPM @ 78 FT. TDH 7.5 H.P. MOTOR
T-8417 AMINE RUN DOWN TANK 210 BBL 10' DIA. x 15' HIGH
T-8416 AMINE MAKE-UP TANK 90 BBL 7'-11" DIA. x 10' HIGH
P-8619 WATER MAKE-UP PUMP 55 GPM @ 404 FT. TDH 30 H.P. MOTOR
P-8620 WATER MAKE-UP PUMP 55 GPM @ 404 FT. TDH 30 H.P. MOTOR
T-8415 WATER MAKE-UP TANK 210 BBL 10' DIA. x 15' HIGH
T-8419 WATER STORAGE TANK 210 BBL 10' DIA. x 15' HIGH
V-8425 RELIEF HEADER K.O. DRUM
T-8423
M-8901 WATER TREATER
T-8424
NOTE: T-8417 ELEVATION TO ALLOW FREE DRAINING OF AMINE TO TANK
H.T. & INSUL TO 3' MIN. BELOW GRADE
UNTREATED WATER SUPPLY
WATER TREATER BUILDING
3" WATER DRAIN
TO V-8503 SHT. 3-M8202
AMINE/WATER MAKEUP FROM P-8614
AMINE RECHARGE FROM P-8617
DEIONIZED WATER TO TRAINS #1-6
TO TRUCK LOADING
TO V-8450 SHT. 3-M8204
FUTURE WATER M.U.
CONTINUOUS WATER MAKE-UP
P-8613A WATER MAKEUP PUMP CONTINUOUS 7.5 GPM @ 78 FT. TDH 2 H.P. MOTOR
P-8613B WATER MAKEUP PUMP CONTINUOUS 7.5 GPM @ 78 FT. TDH 2 H.P. MOTOR
P-8613C WATER MAKEUP PUMP CONTINUOUS 7.5 GPM @ 78 FT. TDH 2 H.P. MOTOR
T.H. RUSSELL CO. JOB NO. 445
PRINT DISTRIBUTION RECORD
REVISIONS
C GENERAL REVISION
2 GENERAL REVISION
MERIDIAN OIL
VAL VERDE PLANT
TRAIN 8
MECHANICAL FLOW SHEET
AMINE AND TREATED WATER UTILITIES
FILE NO.
W-8-M8201
DRAFTED BY
T.H. RUSSELL CO.
TULSA, OK


V-8572
GLYCOL CONTACTOR/OUTLET SCRUBBER
V-8473
FLASH TANK
V-8573
FLASH GAS CONTACTOR
F-8471
RICH TEG FILTER
F-8474
GLYCOL CHARCOAL ABSORBER
E-8273
GLYCOL REFLUX CONDENSER
V-8571
GLYCOL STILL COLUMN
H-8771
GLYCOL REBOILER
A-8371
GLYCOL COOLER
FUEL GAS TO V-8404
FROM V-8405
TO RESIDUE HEADER
TREATED GAS FROM V-8402
LOW PT. DRAIN
GLYCOL MAKEUP
HEATER ALARM
LOCAL CONTROL PANEL
* = BY BURNER MFG.
FUTURE SPARGER
V-8472
GLYCOL SURGE TANK
P-8671
GLYCOL PUMP
P-8672
GLYCOL PUMP
V-8476
GLYCOL PUMP DRAIN TANK
E-8271
COLD GLYCOL/GLYCOL EXCHANGER
E-8272
WARM GLYCOL / GLYCOL EXCHANGER
30 GPM GLYCOL DEHY
MERIDIAN OIL
VAL VERDE PLANT
TRAIN 8
MECHANICAL FLOW SHEET
GLYCOL UNIT
PRINT DISTRIBUTION RECORD
REVISIONS
GENERAL REVISION
GENERAL REVISION
WV-4-M8201
T.H. RUSSELL CO.
TULSA, OK.
T.H. RUSSELL CO. JOB NO. 445
PLOT DATE: 05-31-91



T.W. RUSSELL CO. JOB NO. 446

PRINT DISTRIBUTION RECORD

REVISIONS

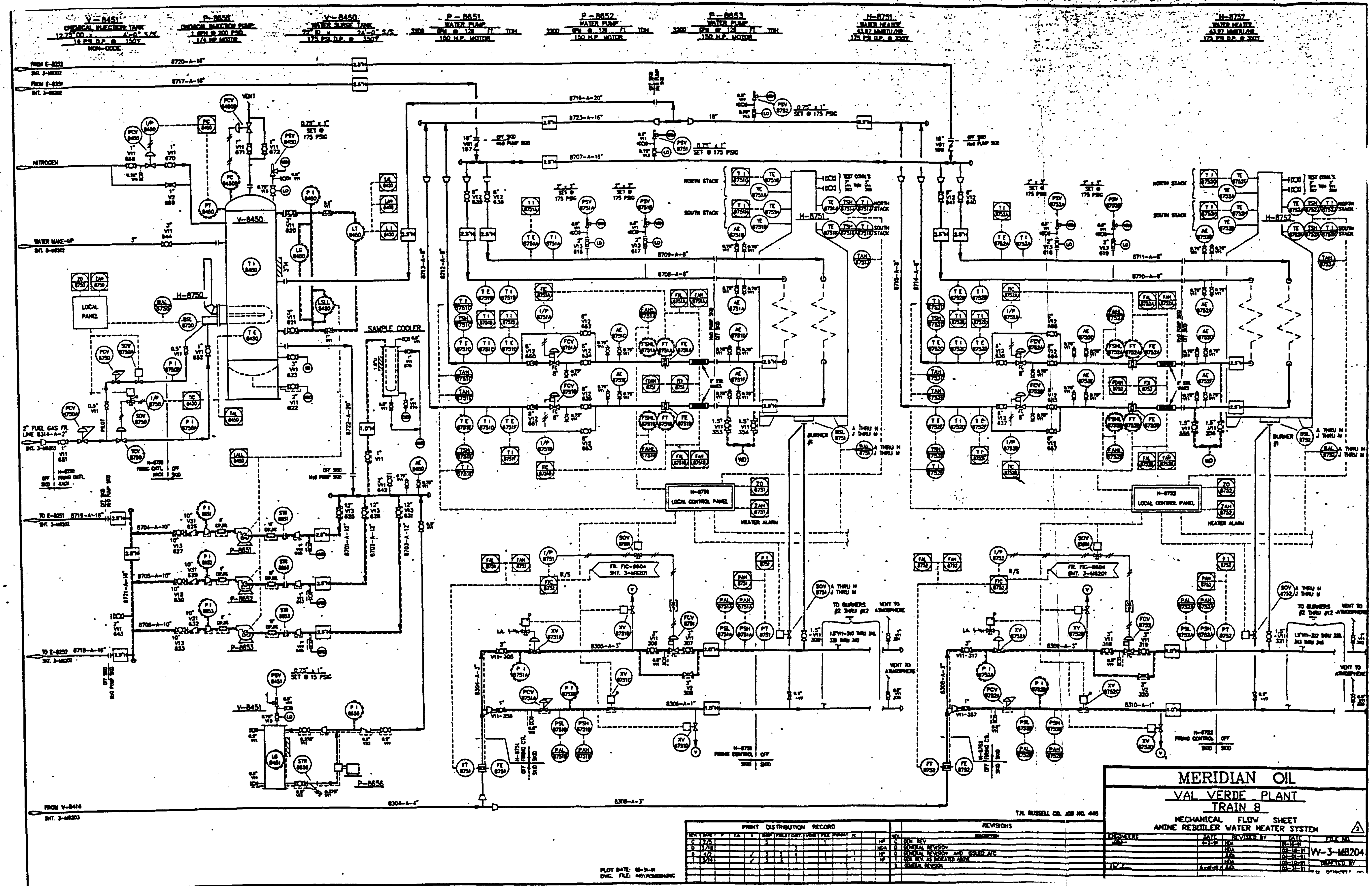
REV	DESCRIPTION
C	GENERAL REVISION
0	GEN. REV., ISSUE A.F.C.
1	REV. 8901-A-20", VENT STACK DRAIN, REMOVED V11-608, REV. LINE 8803 DESCRIPTION
2	GENERAL REVISION

PLOT DATE: 08-31-80
DWG FILE: 446\VV3M8205.DWG

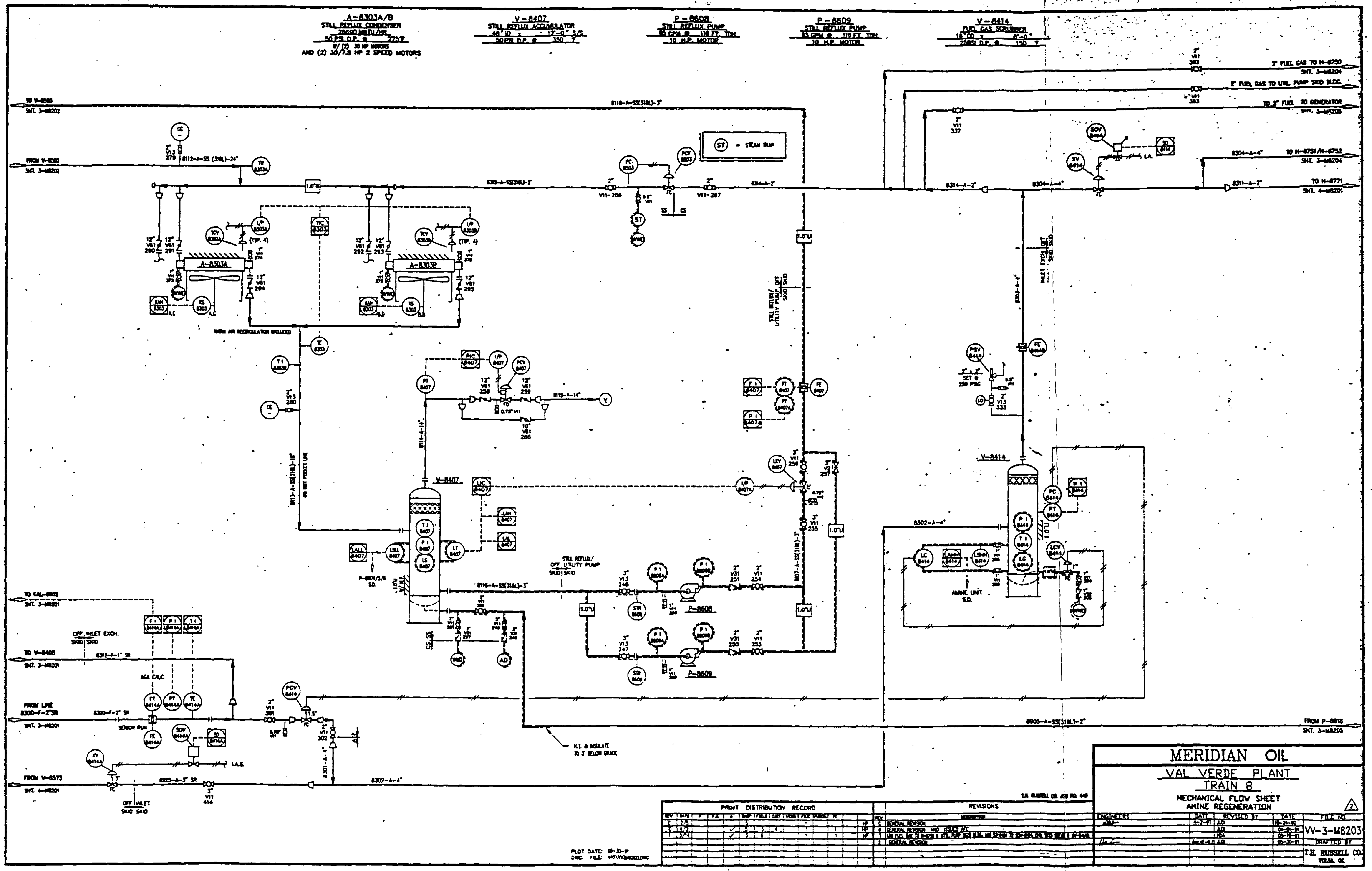
MERIDIAN OIL

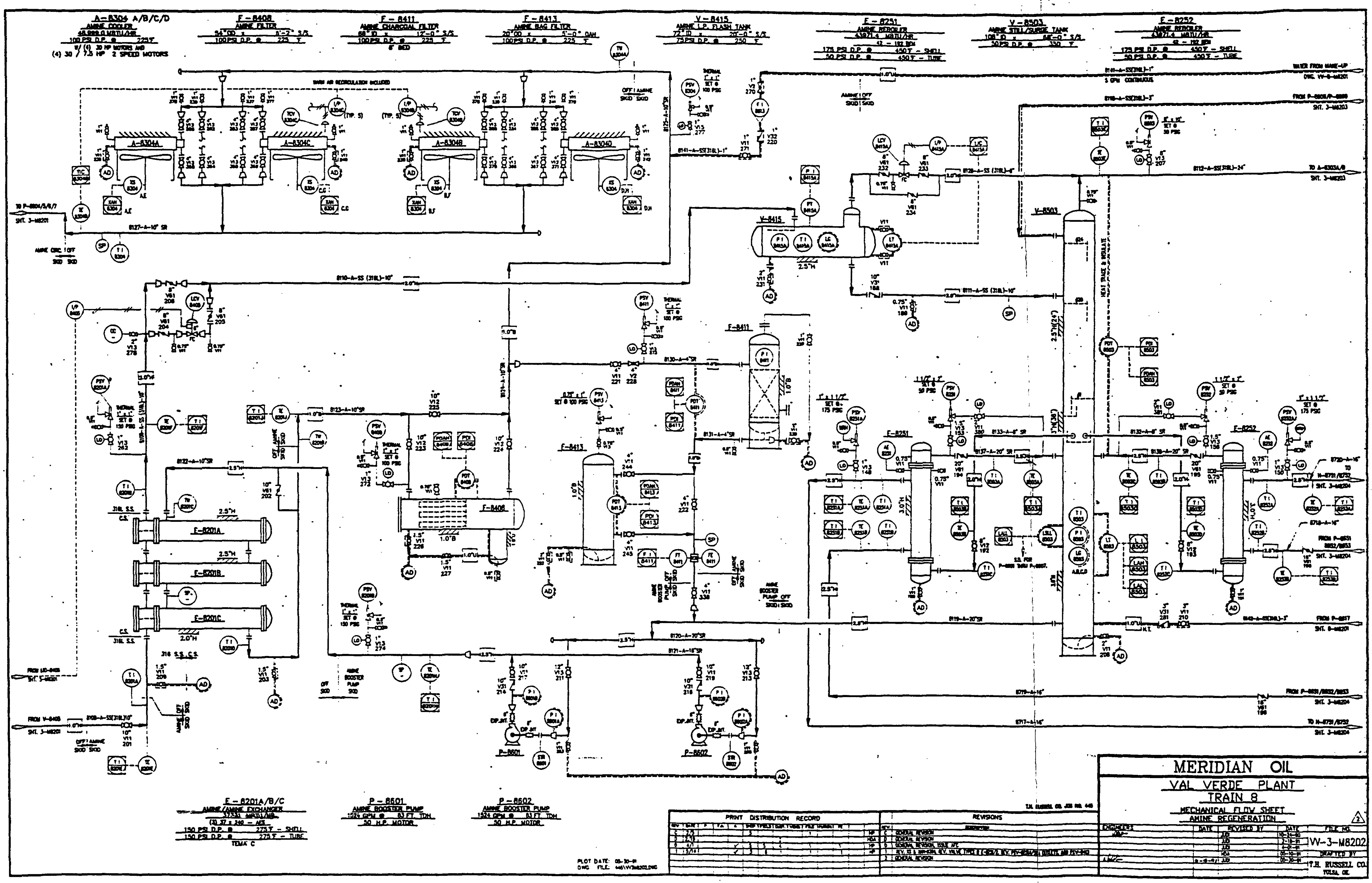
VAL VERDE PLANT
TRAIN 8
VENT SYSTEM
CO2 VENT SYSTEM

FILE NO. VV-3-M8205



V-8451
CHEMICAL INJECTION TANK
P-8656
CHEMICAL INJECTION PUMP
V-8450
WATER SURGE TANK
P-8651
WATER PUMP
150 H.P. MOTOR
P-8652
WATER PUMP
150 H.P. MOTOR
P-8653
WATER PUMP
150 H.P. MOTOR
H-8751
WATER HEATER
H-8752
WATER HEATER
NITROGEN
WATER MAKE-UP
LOCAL PANEL
H-8750
SAMPLE COOLER
NORTH STACK
SOUTH STACK
H-8751 LOCAL CONTROL PANEL
H-8752 LOCAL CONTROL PANEL
HEATER ALARM
TO BURNERS
VENT TO ATMOSPHERE
H-8751 FIRING CONTROL
H-8752 FIRING CONTROL
T.H. RUSSELL CO. JOB NO. 445
PRINT DISTRIBUTION RECORD
REVISIONS
GEN. REV
GENERAL REVISION
GENERAL REVISION AND ISSUED AFC
GEN. REV. AS INDICATED ABOVE
GENERAL REVISION
MERIDIAN OIL
VAL VERDE PLANT
TRAIN 8
MECHANICAL FLOW SHEET
AMINE REBOILER WATER HEATER SYSTEM
ENGINEERS
DATE
REVISED BY
FILE NO.
W-3-M8204
DRAFTED BY


A-8303A/B
STILL REFLUX CONDENSER
V-8407
STILL REFLUX ACCUMULATOR
P-8608
STILL REFLUX PUMP
P-8609
STILL REFLUX PUMP
10 H.P. MOTOR
V-8414
FUEL GAS SCRUBBER
ST = STEAM TRAP
A-8303A
A-8303B
V-8407
V-8414
P-8608
P-8609
FROM V-8503
SHT. 3-M8202
TO V-8503
SHT. 3-M8202
2" FUEL GAS TO H-8750
SHT. 3-M8204
2" FUEL GAS TO UTIL. PUMP SKID BLDG.
TO 2" FUEL TO GENERATOR
SHT. 3-M8205
TO H-8751/H-8752
SHT. 3-M8204
TO H-8771
SHT. 4-M8201
TO CAL-8802
SHT. 3-M8201
TO V-8405
SHT. 3-M8201
FROM LINE
SHT. 3-M8201
FROM V-8573
SHT. 4-M8201
FROM P-8618
SHT. 3-M8205
WARM AIR RECIRCULATION INCLUDED
DO NOT POCKET LINE
STILL REFLUX/ OFF UTILITY PUMP SKID | SKID
OFF INLET EXCH. SKID | SKID
AGA CALC.
SENSOR RUN
OFF | INLET SKID SKID
AMINE UNIT S.D.
H.T. & INSULATE TO 3' BELOW GRADE
SET @ 250 PSIG
MERIDIAN OIL
VAL VERDE PLANT
TRAIN 8
MECHANICAL FLOW SHEET
AMINE REGENERATION
VV-3-M8203
T.H. RUSSELL CO.
TULSA, OK.
PRINT DISTRIBUTION RECORD
REVISIONS
GENERAL REVISION
GENERAL REVISION AND ISSUED AFC
GENERAL REVISION
PLOT DATE:
DWG. FILE:



A-8304 A/B/C/D
AMINE COOLER
100 PSI D.P. @ 225°F
(4) 30 / 7.5 HP 2 SPEED MOTORS
F-8408
AMINE FILTER
100 PSI D.P. @ 225 °F
F-8411
AMINE CHARCOAL FILTER
100 PSI D.P. @ 225 °F
F-8413
AMINE BAG FILTER
100 PSI D.P. @ 225 °F
V-8415
AMINE L.P. FLASH TANK
75 PSI D.P. @ 250 °F
E-8251
AMINE REBOILER
43871.4 MBTU/HR
175 PSI D.P. @ 450°F - SHELL
50 PSI D.P. @ 450°F - TUBE
V-8503
AMINE STILL/SURGE TANK
50 PSI D.P. @ 350 °F
E-8252
AMINE REBOILER
43871.4 MBTU/HR
175 PSI D.P. @ 450°F - SHELL
50 PSI D.P. @ 450°F - TUBE
WATER FROM MAKE-UP
A-8304A
A-8304C
A-8304B
A-8304D
E-8201A
E-8201B
E-8201C
P-8601
P-8602
E-8201A/B/C
AMINE/AMINE EXCHANGER
150 PSI D.P. @ 275°F - SHELL
150 PSI D.P. @ 275°F - TUBE
TEMA C
P-8601
AMINE BOOSTER PUMP
50 H.P. MOTOR
P-8602
AMINE BOOSTER PUMP
50 H.P. MOTOR
PRINT DISTRIBUTION RECORD
REVISIONS
MERIDIAN OIL
VAL VERDE PLANT
TRAIN 8
MECHANICAL FLOW SHEET
AMINE REGENERATION
FILE NO.
W-3-M8202
DRAFTED BY
T.H. RUSSELL CO.
TULSA OK

AFFIDAVIT OF PUBLICATION

Ad No. 42792

STATE OF NEW MEXICO
County of San Juan:

EMMETT MCKINLEY, being duly sworn says: That he is the Advertising Director of THE DAILY TIMES, a daily newspaper of general circulation published in English at Farmington, said county and state, and that the hereto attached Legal Notice was published in a regular and entire issue of the said DAILY TIMES, a daily newspaper duly qualified for the purpose within the meeting of Chapter 167 of the 1937 Session Laws of the State of New Mexico for publication on the following day(s):

Sunday, May 14, 2000

And the cost of the publication is: $82.76

Emmett J. McKinley

On 5/16/2000 EMMETT MCKINLEY appeared before me, whom I know personally to be the person who signed the above document.

Nancy L. Slade

My Commission Expires April 10, 2004

NOTICE OF PUBLICATION

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan application has been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505. Telephone (505) 827-7131:

(GW-051) Burlington Resources, Jeffery T. Schoenbacher, Environmental Representative, P.O. Box 4289, Farmington, New Mexico 87499-4289, has submitted a renewal application for the previously approved discharge plan for their Val Verde Gas Plant located in the SE/4 SE/4 of Section 11, Township 29 North, Range 11 West, NMPM, San Juan County, New Mexico. Approximately 1440 gallons per day of waste water is stored in above ground, closed-top steel tanks prior to transport to an OCD approved Class II injection well for disposal. Ground water most likely to be affected in the event of an accidental discharge is at a depth ranging from 10 to 50 feet with a total dissolved solids concentration ranging from 1000 mg/l to 6000 mg/l. The discharges plan addresses how spills, leaks and other accidental discharge to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this ***fourth (4th) day of May, 2000.***

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

/s/ Roger Cullander
Roger Cullander
for LORI WROTENBERY, Director

Legal No. 42792 published in the Daily Times, Farmington, New Mexico, Sunday, May 14, 2000.

COPY OF PUBLICATION

File
GW-051

BURLINGTON RESOURCES

SAN JUAN DIVISION
August 24, 1999

Feb. '98
V
Current

New Mexico Energy, Minerals & Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, NM 87505

Attention: Wayne Price

Re: Val Verde Plant Waste Water Line and Sump Testing Completion

Dear Mr. Price:

The purpose of this correspondence is to provide your department with the results of the underground waste line testing and the sump evaluation that was conducted at the Val Verde Plant on August 17, 18, and 19.

As you are aware, the underground lines were hydro tested per the testing protocol specified in my correspondence dated July 27, 1999, notifying OCD of the testing dates. The inlet gas waste line was cumbersome for the hydro monitoring device due to space limitations, therefore, since this line was steel this unit was pressure tested to 15 psi for 30 minutes and passed. The following are the line locations that were tested and the results that were achieved for each underground line:

Date	Line Location	Testing Criteria	Witnesses	Comment
8/17/99	Inlet line sump	Pressure 15-psi/30 min. **Passed**	Blair King Henry Humada Jeff Schoenbacher	1 Steel Line
8/18/99	Sump Train 5	Hydro tested 3-psi/30 min. **Passed**	Blair King Henry Humada Jeff Schoenbacher	2 Underground Lines were tested.
8/19/99	Sump Train 8	Hydro tested 3-psi/30 min. **Passed**	Blair King Henry Humada Jeff Schoenbacher	3 Underground Lines were tested.
8/19/99	Amine Reclaimer waste line.	Hydro tested 3-psi/30 min. **Passed**	Blair King Henry Humada Jeff Schoenbacher Denny Foust	1 Underground Lines was tested.

A total of seven underground waste lines were tested within the three-day time frame and all passed the 3 psi criteria specified in Condition #9 of the Discharge Plan special conditions. On August 19, 1999, the sump inspections for Train 5 and 8 were also completed and each unit exhibited exceptional integrity for holding the waste contents that enter these units. As a result of these tests, Burlington Resources has fulfilled the Discharge Plan requirements that were specified in the renewal letter. Should you have any questions or need the photographs that further document the testing please feel free to contact me and I will submit this information to your department.

Until that time, I thank you for your time and consideration and should you have any questions regarding this correspondence please feel free to contact me at 505-326-9537.

Sincerely,

Jeffery T. Schoenbacher
Environmental Representative

CC: Bruce Gantner
Ed Hasely
Greg Kardos
Gaza Seabolt
Denny Foust
Correspondence
Val Verde Plant File

BURLINGTON RESOURCES

SAN JUAN DIVISION
July 27, 1999

Certified Mail: Z 186 732 888

New Mexico Energy, Minerals
& Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, NM 87505

Attention: Wayne Price

Re: Val Verde Plant Waste Water Line and Sump Testing Completion

Dear Mr. Price:

The purpose of this correspondence is to provide your department with the required 72-hour notice for the Val Verde Plant line and sump-testing schedule. This testing is being conducted in order to comply with items 8 and 9 of the discharge plan "special conditions".

The testing has been scheduled for August 17, 18, and 19, and the last day will consist of completing the line test and a visual inspection of the sump. As specified in the letter dated November 10, 1998 for Pump Mesa and Sims Mesa line testing, the same hydro test will be employed for these lines. I have attached this correspondence for your convenience.

As specified in the November correspondence the following is the proposed line testing method:

- The lines will be plugged at the end with balloon fittings.
- At the entry point of the underground lines a threaded site glass column assembly will be installed and utilized as a monitoring point for the test. The site glass designated filling mark will be elevated a sufficient distance from the pipe to be equivalent to a static head pressure of 3 psi on the piping system.
- After all exit points are sealed with balloon fittings, the underground lines will be filled with water to a common mark on the glass column assembly.
- The site glass will be monitored for 30 minutes at the designated filling mark to verify the fluids retained in the pipe do not leak.
- The test will be deemed successful when the level does not fluctuate from the test mark on the glass column.
- Upon completing all the testing a correspondence will be sent to your attention summarizing the test results for all lines.

I thank you for your time and consideration and should you have any questions regarding this correspondence please feel free to contact me at 505-326-9537.

Sincerely,

Jeffery T. Schoenbacher
Environmental Representative

CC: Bruce Gantner
Ed Hasely
Greg Kardos
Gaza Seabolt
Blair King
Denny Foust

BURLINGTON RESOURCES

SAN JUAN DIVISION

November 10, 1998

Certified Mail: P 103 693 148

New Mexico Energy, Minerals
& Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, NM 87505

Attention: Roger Anderson

Re: Pump Mesa and Sims Mesa Waste Water Line Testing Completion

Dear Mr. Anderson:

The purpose of this correspondence is to follow-up on Wayne Price's letter dated October 14, 1998, regarding the denial of the proposed "volume in volume out" test for the underground waste water line.

Per Mr. Price's letter, he stated that the proposed test method would have to demonstrate the underground lines were "leak free". Referring to the OCD Discharge Plan Condition #9, "All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity at present and then every 5 years thereafter, or prior to discharge plan renewal. Permittees may **propose** various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing." As you are aware, the underground waste lines are constructed of PVC and are responsible for conveying waste to the point of origination to the point of accumulation and storage. Burlington Resource's valid concern to pressure testing these lines is exposing them to pressure could result to damaging the PVC line. Therefore, Burlington Resources is proposing to test the lines to verify "leak free" criteria by the following protocol:

1. There are two lines at Sims Mesa that flow into a common sump and these lines will be plugged at the end of the sump with balloon fittings.
2. At the entry point of the underground lines a threaded site glass column assembly will be installed and utilized as a monitoring point for the test.
3. After all exit points are sealed with balloon fittings, the underground lines will be filled with water to a common mark on the glass column assembly.
4. The site glass will be monitored for 30 minutes at the designated filling mark to verify the fluids retained in the PVC pipe do not leak.
5. The test will be deemed successful with the level not fluctuating from the test mark on the glass column.

This procedure is being proposed only for Sims Mesa Compressor Station's underground lines because at Pump Mesa Compressor Station the lines from the compressors to the sump are above ground and are not required to be tested. The only remaining underground line to be tested at Pump Mesa is one steel line that runs from the sump to the waste oil tank. This line will be pressure tested at the same date of the hydro test and will complete the underground testing for this facility. Upon completing all testing for both facilities a correspondence will be sent to your attention summarizing the test results for all lines.

3535 East 30th St., 87402-8801. P.O. Box 4289, Farmington, New Mexico 87499-4289, Telephone 505-326-9700, Fax 505-326-9833

In conclusion, I will await your reply regarding the above-mentioned testing procedure however, it is Burlington Resources intentions to have the lines tested by the end of December. Therefore, an expeditious reply would be greatly appreciated. I thank you for your time and consideration and should you have any questions regarding this correspondence please feel free to contact me at 505-326-9537.

Sincerely,

Jeffery T. Schoenbacher
Environmental Representative

CC: Bruce Gantner
Ed Hasely
Greg Kardcs
Ken Johnson
Bill McGaha
Denny Foust, OCD District Office
Pump Mesa Correspondence
Sims Mesa Correspondence

JTS:

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Certified Mail
Return Receipt No. P 288 259 087

November 19, 1998

Mr. Jeffery T. Schoenbacher
Environmental Representative
Burlington Resources (BR)
P.O. Box 4289
Farmington, New Mexico 87499-4289

Re: Pump Mesa (GW-148) and Sims Mesa (GW-146) Waste Water Line Testing

Dear Mr. Schoenbacher:

New Mexico Oil Conservation Division (NMOCD) is in receipt of your letter dated November 10, 1998 concerning the above referenced sites. **The proposed procedure for pressure testing the underground lines is hereby approved with the following condition:**

* The site glass designated filling mark shall be elevated a sufficient distance above the pipe to be equivalent to a static head pressure of 3 psi on the piping system.

If you require any further information or assistance please do not hesitate to call (505-393-6161) or write this office.

Sincerely Yours,

Wayne Price-PES
NMOCD Environmental Bureau

wp:brtest1

cc: Denny Foust-NMOCD District III

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

NOTICE OF PUBLICATION

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan application has been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(GW-051) Burlington Resources, Jeffery T. Schoenbacher, Environmental Representative, P.O. Box 4289, Farmington, New Mexico 87499-4289, has submitted a renewal application for the previously approved discharge plan for their Val Verde Gas Plant located in the SE/4 SE/4 of Section 11, Township 29 North, Range 11 West, NMPM, San Juan County, New Mexico. Approximately 1440 gallons per day of waste water is stored in above ground, closed-top steel tanks prior to transport to an OCD approved Class II injection well for disposal. Ground water most likely to be affected in the event of an accidental discharge is at a depth ranging from 10 to 50 feet with a total dissolved solids concentration ranging from 1000 mg/l to 6000 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available. If a public hearing is held, the director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this ***fourth (4th) day of May, 2000.***

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

for LORI WROTENBERY, Director

SEAL

BURLINGTON RESOURCES

SAN JUAN DIVISION

28

April 19, 1999

Certified Mail: P 160 090 734

New Mexico Energy, Minerals
& Natural Resources Department
Oil Conservation Division
C/O Wayne Price
2040 South Pacheco Street
Santa Fe, NM 87505

Re: Val Verde Plant GW-51 Discharge Plan Renewal

Dear Mr. Price:

Thank you for the 120 day advanced notice regarding the expiration of the Val Verde Plant Discharge Plan. The purpose of this correspondence is to renew the Discharge Plan before the expiration date to avoid a lapse in compliance.

Currently, there have been no changes to Val Verde Plant system since the March 25, 1998 renewal that documented the waste disposal practices. Therefore, this letter is to submit the appropriate renewal fee for this facility, which you will find, enclosed a check for $1,717.50 that comprises of the $50.00 filing fee and the flat fee of $1,667.50 for natural gas plants.

I thank you for your time and consideration and should you any questions regarding this correspondence please feel free to contact me at 505-326-9537.

Sincerely,

Jeffery T. Schoenbacher
Environmental Representative

Enc. Check $1,717.50

CC: Bruce Gantner
Ed Hasely
Greg Kardos
Gaza Seabolt
Denny Foust, OCD, Aztec
Val Verde Plant File – Discharge Plan
Correspondence

JTS:

3535 East 30th St., 87402-8801, P.O. Box 4289, Farmington, New Mexico 87499-4289, Telephone 505-326-9700, Fax 505-326-9833

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 04/22/99,

or cash received on _____ in the amount of $ 1717.50

from BURLINGTON RESOURCES

for VAL VERDE PLANT GW-51
(Facility Name) (DP No.)

Submitted by: Wayne Price Date: 5/3/99

Submitted to ASD by: _____ Date: _____

Received in ASD by: _____ Date: _____

Filing Fee ✓ New Facility ___ Renewal ✓

Modification ___ Other _____
(specify)

Organization Code 521.07 Applicable FY 99

To be deposited in the Water Quality Management Fund.

Full Payment ✓ or Annual Increment ___

$1667.50 + $50.00 = 1717.50

BURLINGTON RESOURCES
801 Cherry Street Suite 200
Ft. Worth TX 76102-6842

CITIBANK (Delaware)
A Subsidiary of Citicorp
One Penn's Way
New Castle DE 19720
62-20/311

[redacted]

Vendor No. 67738200

Date 04/22/1999 **Pay Amount** $1,717.50
Void If Not Presented for Payment Within 60 Days

To The Order Of **NEW MEXICO ENVIRONMENTAL DEPARTMENT**
WATER QUALITY MANAGEMENT
2040 S PACHECO ST
SANTA FE NM 87505-

Suzanne Y Baca

[redacted]

ROGER ANDERSON GAVE VERBAL APPROVAL TELE: 11AM ON 3-29-00

BURLINGTON RESOURCES

SAN JUAN DIVISION

RECEIVED

22

March 16, 2000

New Mexico Energy, Minerals & Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, NM 87505

Attention: Roger Anderson

RE: Approval for disposal of amine reclaimer residue as exempt waste

Dr. Mr. Anderson:

The purpose of this correspondence is to request approval for disposal of amine reclaimer residue as exempt waste. Burlington's Val Verde Plant (VVP) will generate the residue after reclaiming a spent amine solution stored at Red Cedar Gathering Company's Antler Facility. The request is based on OCD's approval to process spent amine at the VVP dated March 12, 1999 and Burlington's commitment to waste minimization and pollution prevention.

Burlington Resources is requesting OCD's determination that the residue generated from reclaiming the spent amine solution will remain exempt for disposal purposes. The recovered amine will be reused as product at the VVP's CO2 abatement system.

The approximate 60,000 gallons of spent solvent is known as CS-Plus Solvent and is manufactured by Dow Chemical Corporation. The solvent was generated from the contact reboiler and captured in a holding pond isolated to receive only exempt waste streams. It is estimated that the volume contained in the holding tank includes 23% amine, 7.0 % triethylene glycol (TEG) and produced water. A review of the analysis of the solvent exhibits the spent solvent to be similar to solvent regenerated routinely at the VVP.

Burlington Resources is proposing to accept the spent solvent at the VVP where it will be stored in 400-bbl steel tanks before being reclaimed in VVP's amine reclaimer. The time frame for reclaiming the amine would be approximately 10 days and is estimated that approximately 13,800 gallons of useable product would be recovered for direct use at the Val Verde Plant along with the produced water. The residues generate from the reclaiming activities would be still bottoms and concentrated TEG. Burlington Resources is requesting OCD approve to manage these residues as an exempt waste that would be disposed at the McGrath Class II Facility.

The Val Verde Plant will document that the following criteria have been met before accepting the spent amine for regeneration and residue is disposed:

1. A declaration signed from the Red Cedar Gathering Company's Antler Facility validating the material is eligible for the RCRA exemption contained in 40 CFR 261.4 exclusions. The declaration will include the declaration that no non-exempt waste streams have been commingled with the solvent.

2. Red Cedar Gathering Company will provide analysis that documents the estimated percentages of recoverable amine contained in the solvent.

3. The waste residue generated from the amine recycling shall remain RCRA exempt before disposal.

BURLINGTON RESOURCES

SAN JUAN DIVISION

JAN 2 1 1999

January 15, 1999

Certified Mail: P 103 693 162

New Mexico Energy, Minerals & Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, NM 87505

Attention: Wayne Price

Re: Approval to Process Spent Amine at Val Verde Plant Facility

Dear Mr. Price:

I would like to thank you for your assistance and correspondence dated December 10, 1998 regarding OCD's approval of the amine recycling program. As a result, the amine recycling has been a positive influence towards waste minimization and pollution prevention not to mention improving Burlington Resources operating productivity.

Given the success of the Burlington Resources amine-recycling program, there has been an increase interest from other natural gas facilities to take advantage of Val Verde Plant's amine regeneration process. Therefore, the purpose of this correspondence is to further explore the possibilities of Val Verde Plant (VVP) providing an amine regenerating service for spent CS-Plus Solvent in the Four Corners Area. Before considering this proposal, Burlington Resources is requesting OCD's regulatory approval for providing this service for other natural gas facilities that generate spent amine from CO_2 abatement systems. Currently, the amount of spent amine generation of other facilities is unknown; however it is anticipated that VVP tank capacities required to provide this service would not have to be modified or increased. In the event additional tank capacity is needed, the Discharge Plan would be modified to reflect the additional tanks, location, and volume. Furthermore, it would be Burlington Resources intentions to process the received spent amine within the same month that it is received and return the refined product to the customer facility.

Before the material is accepted the Val Verde Plant would follow the following procedures before accepting the spent amine for regeneration:

1. A declaration would have to be signed from the customer facility validating the material is eligible for the RCRA exemption contained in 40 CFR 261. 4 exclusions. The declaration would also include the declaration that no non-exempt waste streams have been commingled with the solvent.

2. The generator would have to supply analysis that documents the percentages of recoverable amine contained in the solvent. The analysis of the solvent would have to validate that the spent solvent is analogous to solvent regenerated at the Val Verde Plant.

3. Spent solvent that did not meet the minimal requirements for regeneration would not be accepted for processing.

Furthermore, Burlington Resources would also comply with the following stipulations that were documented in your December 10, 1998 correspondence:

1. The waste residue generated from the amine recycling shall remain RCRA exempt before disposal.

2. The waste disposal facility must be approved to accept this type of waste and the physical state of the waste must be compatible with the fluids being injected in the EPA Type Class II well. The disposal must have a current OCD UIC permit. Lastly, McGrath SWD facility would receive the waste and as a contingency an alternative approved facility would be designated.

3. All other federal, state, and local laws and/or regulations will be complied with.

In conclusion, by further developing the VVP amine-recycling program to include other facilities means the promotion and implementation of waste minimization and reuse practices in the San Juan Basin natural gas industry. Not only does waste minimization in the gas industry benefit the environment, but it also ads economic value to facilities that practice viable reuse policies. With OCD approval Burlington Resources would be optimizing the VVP regeneration process while also providing a service that benefits the environment as well as industry. I thank you for your time and consideration and should you have any questions regarding this correspondence please feel free to contact me at 505-326-9537.

Sincerely,

Jeffery T. Schoenbacher
Environmental Representative

CC: Bruce Gantner
Greg Kardos
Gaza Seabolt
Ed Hasely
Denny Foust, OCD District Office
Correspondence

JTS: