

Enhance Energy Inc. and North West Redwater Partnership

Knowledge Sharing Report

Appendices i–viii

Calendar Year 2012

Submitted on March 28, 2013

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Enhance Energy Inc. and North West Redwater Partnership

APPENDIX i Agrium CRF Block Flow Diagram



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Sun Ray Reflection, by Mathew Wong, a local Alberta painter

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APPENDIX ii
Agrium CRF
Heat & Mass Balance



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Sun Ray Reflection, by Mathew Wong, a local Alberta painter

PROD Stream Number	24	25	30	41	52	53	54	55	56	57	60	80	81	82	83	85	86	101	102	103	104	107	112
FROM	PV on CO2 Pipeline	V-300 Battery	P-801/602 EG Supply Header	EG Return Heater AC-820	V-300 H-320	P-331/332 V-300	E-325 H-320	V-310 V-105	E-345 V-105	Total Daily Vapor	H-320 E-335	K-200 PW V-105	V-300 PW LV-300	V-340 PW P-342	LV-300 V-105	P-111 V-105 PW	P-111 Agrium Pond	V-445 V-425	V-425 LV-4051	LV-4051 E-405	V-405 K-400 Stage 1	V-425 K-400 Stage 2	K-400 AC-440/441
TO	Battery	Battery	EG Supply Header	H-320	V-300	H-320	V-105	V-105	V-105	V-105	E-335	V-105	LV-300	P-342	V-105	P-111	Agrium Pond	V-425	LV-4051	E-405	K-400 Stage 1	K-400 Stage 2	AC-440/441
Mass Flow CO2	m ton/d	799	800	0	3	0	0	3	2	5	2	0	0	0	0	0	0	0	0	0	0	0	0
BULK PHASE	Units																						
Vapor Mole Flow	kgmol/h	0.0000	1.0000	0.0000	0.0000	0.0000	0.0158	1.0000	0.9822	0.9881	1.0000	0.0014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0536	1.0000	1.0000	1.0000
Temperature	°C	25.0	48.3	38.0	45.5	44.7	99.9	45.8	43.0	35.1	81.8	42.8	43.0	43.1	43.1	42.9	43.0	38.0	0.6	-15.0	-15.0	0.6	91.1
Pressure	kPag	17826	3820	500	3825	3975	69	276	72	69	3	41	3825	41	41	34	447	1374	345	142	142	345	1395
Total Mole Flow	kgmol/h	784.3	785.0	34748.1	15.2	10.1	12.7	2.5	2.6	5.1	4.8	52.7	0.0	2.2	2.2	1243.1	474.3	406.5	406.5	6.923	6.923	1.155	474.3
Total Mass Flow	kg/h	33.388	33.388	1,028,834	1,670	1,507	1,560	110	108	218	147	951	0	39	39	22,407	22,407	8,078	6,923	6,923	3576.6	3,341	8,078
Volume Flow	m3/h	36.8	421.2	954.7	1.5	1.4	1.580	17.7	39.2	78.6	142.6	2.4	0.0	0.0	0.0	22.6	22.6	13.7	10.8	201.6	3576.6	334.1	890.5
Total Heat Flow	KW	-478	1,754	-358,155	-338,057	-178	-153	7	8	13	15	-484	0	-20	-20	-11,438	-11,432	-1,296	-1,484	-1,484	981	188	1,565
VAPOUR PHASE																							
Vapor Mole Flow	kgmol/h	-	785.0	-	-	-	0.2	2.5	2.5	5.1	4.8	0.1	-	-	-	-	-	-	-	21.8	406.5	67.8	474.3
Vapor Mass Flow	kg/h	-	33,389	-	-	-	9	110	108	217	147	3	-	-	-	-	-	-	-	371	6,923	1,155	8,078
Vapor Actual Volume Flow	m3/h	-	421.2	-	-	-	3.8	17.7	39.2	78.6	142.6	1.5	-	-	-	-	-	-	-	191.7	3576.6	334.1	890.5
Vapor Std. Volume Flow	sm3/h	-	18122.9	-	-	-	4.8	59.5	59.3	119.7	112.7	1.8	-	-	-	-	-	-	-	516.2	9830.8	1806.0	11296.8
Vapor Molecular Weight	kg/m3	-	43.65	-	-	-	42.15	43.92	42.36	42.95	30.83	42.37	-	-	-	-	-	-	-	17.03	17.03	3.46	9.07
Vapor Mass Density	kg/m3	-	79.26	-	-	-	2.23	6.24	2.71	2.76	1.03	2.20	-	-	-	-	-	-	-	0.009	0.009	0.009	0.013
Vapor Viscosity	cP	-	0.018	-	-	-	0.018	0.016	0.018	0.015	0.014	0.015	-	-	-	-	-	-	-	2.117	2.117	2.177	2.399
Vapor Specific Heat	KJ/kg-K	-	1.148	-	-	-	0.948	0.883	0.897	0.881	1.197	0.886	-	-	-	-	-	-	-	0.021	0.021	0.024	0.036
Vapor Thermal Conductivity	W/m-K	-	0.025	-	-	-	0.023	0.019	0.019	0.018	0.023	0.018	-	-	-	-	-	-	-	0.9705	0.9705	0.9526	0.9274
Vapor Z Factor	-	-	0.8163	-	-	-	0.9953	0.9834	0.9922	0.9918	0.9947	0.9935	-	-	-	-	-	-	-	1.341	1.341	1.359	1.374
Vapor Cp / Cv	-	-	1.614	-	-	-	1.271	1.289	1.283	1.285	1.299	1.291	-	-	-	-	-	-	-	-	-	-	-
MOLE FRACTION VAPOUR PHASE																							
Vap. Carbon Dioxide	%	-	98.95	-	-	-	92.73	99.66	93.94	96.09	49.46	93.71	-	-	-	-	-	-	-	0.00	0.00	0.00	0.00
Vap. Hydrogen	%	-	0.75	-	-	-	0.00	0.04	0.64	0.34	0.34	0.00	-	-	-	-	-	-	-	0.00	0.00	0.00	0.00
Vap. Nitrogen	%	-	0.30	-	-	-	0.00	0.02	0.26	0.14	0.14	0.01	-	-	-	-	-	-	-	0.00	0.00	0.00	0.00
Vap. Water	%	-	0.00	-	-	-	7.24	5.16	5.16	3.44	50.06	6.28	-	-	-	-	-	-	-	0.00	0.00	0.00	0.00
Vap. Ethylene Glycol	%	-	0.00	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	-	-	-	-	-	-	-	0.00	0.00	0.00	0.00
Vap. Ammonia	%	-	0.00	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	-	-	-	-	-	-	-	0.00	0.00	0.00	0.00
Vapor Total	%	-	100.00	-	-	-	99.98	100.00	100.00	100.00	100.00	100.00	-	-	-	-	-	-	-	100.00	100.00	100.00	100.00
LIQUID PHASE																							
Liquid Mole Flow	kgmol/h	764.3	-	34748.1	15.2	10.1	12.5	-	0.1	0.1	-	52.6	0.0	2.2	2.2	1243.1	1243.1	474.3	406.5	384.7	-	-	-
Liquid Mass Flow	kg/h	33,366	-	1,026,834	1,670	1,507	1,551	-	2	1	-	946	0	39	39	22,407	22,407	8,078	6,923	6,552	-	-	-
Liquid Actual Volume Flow	m3/h	36.9	-	954.7	1.5	1.4	1.4	-	0.0	0.0	-	1.0	0.0	0.0	0.0	22.6	22.6	13.7	10.8	9.9	-	-	-
Liquid Std Volume Flow	m3/h	41.1	-	988.2	1.5	1.3	1.4	-	0.0	0.0	-	0.9	0.0	0.0	0.0	22.4	22.4	13.1	11.2	10.6	-	-	-
Liquid Mass Density	kg/m3	903.1	-	1,075.6	1,116.9	1,106.1	1,072.0	-	990.2	993.3	-	990.2	996.1	990.0	990.0	990.2	990.2	587.9	641.3	660.5	-	-	-
Liquid Viscosity	cP	0.1051	-	4.3738	2.3685	2.3005	3.0401	-	0.6183	0.7164	-	0.6188	0.5943	0.6162	0.6162	0.6178	0.6166	0.1181	0.1749	0.2094	-	-	-
Liquid Specific Heat	KJ/kg-K	2.3375	-	3.6979	3.6885	2.3005	2.5568	-	4.2214	4.2200	-	4.2212	4.2303	4.2211	4.2211	4.2212	4.2207	5.2266	4.6472	4.4919	-	-	-
Thermal Conductivity	W/m-K	0.1125	-	0.3629	0.1523	0.2436	0.2474	-	0.6302	0.6203	-	0.6301	0.6196	0.6305	0.6305	0.6302	0.6304	0.4489	0.5329	0.5886	-	-	-
Surface Tension	Dyn/cm	0.56	-	64.08	38.85	43.88	40.46	-	69.07	70.34	-	69.11	68.35	69.07	69.07	69.09	69.07	16.87	25.36	29.07	-	-	-
MOLE FRACTION LIQUID PHASE																							
Liquid Carbon Dioxide	%	98.97	-	0.00	0.00	0.17	0.44	-	0.05	0.06	-	0.04	1.09	0.03	0.03	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00
Liquid Hydrogen	%	0.73	-	0.00	0.01	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquid Nitrogen	%	0.30	-	0.00	0.00	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquid Water	%	0.00	-	73.81	16.26	0.89	19.61	-	99.95	99.94	-	99.98	98.91	99.97	99.97	99.96	99.96	0.00	0.00	0.00	0.00	0.00	0.00
Liquid Ethylene Glycol	%	0.00	-	26.19	0.00	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liq. Triethylene Glycol	%	0.00	-	0.00	65.72	98.93	79.95	-	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquid Ammonia	%	0.00	-	0.00	0.00	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Liquid Total	%	100.00	-	100.00	100.00	100.00	100.00	-	100.00	100.00	-	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

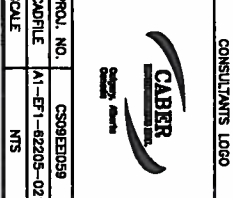
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NO.	DATE	BY	CHK'D	ENG	APP'D

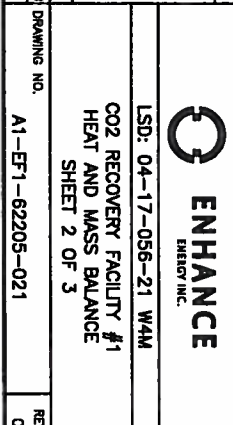
NO.	DATE	BY	CHK'D	ENG	APP'D



PROFESSIONAL ENGINEER
2011.10.03
ALBERTA



CABER ENGINEERING
CONSULTANTS LOGO



ENHANCE ENERGY INC.
LSD: 04-17-056-21 WAM
CO2 RECOVERY FACILITY #1
HEAT AND MASS BALANCE
SHEET 2 OF 3

PROJ. NO.	SCALE	DRAWING NO.	REV.
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APPENDIX iii Agrium CRF Measurement Point Block Diagram

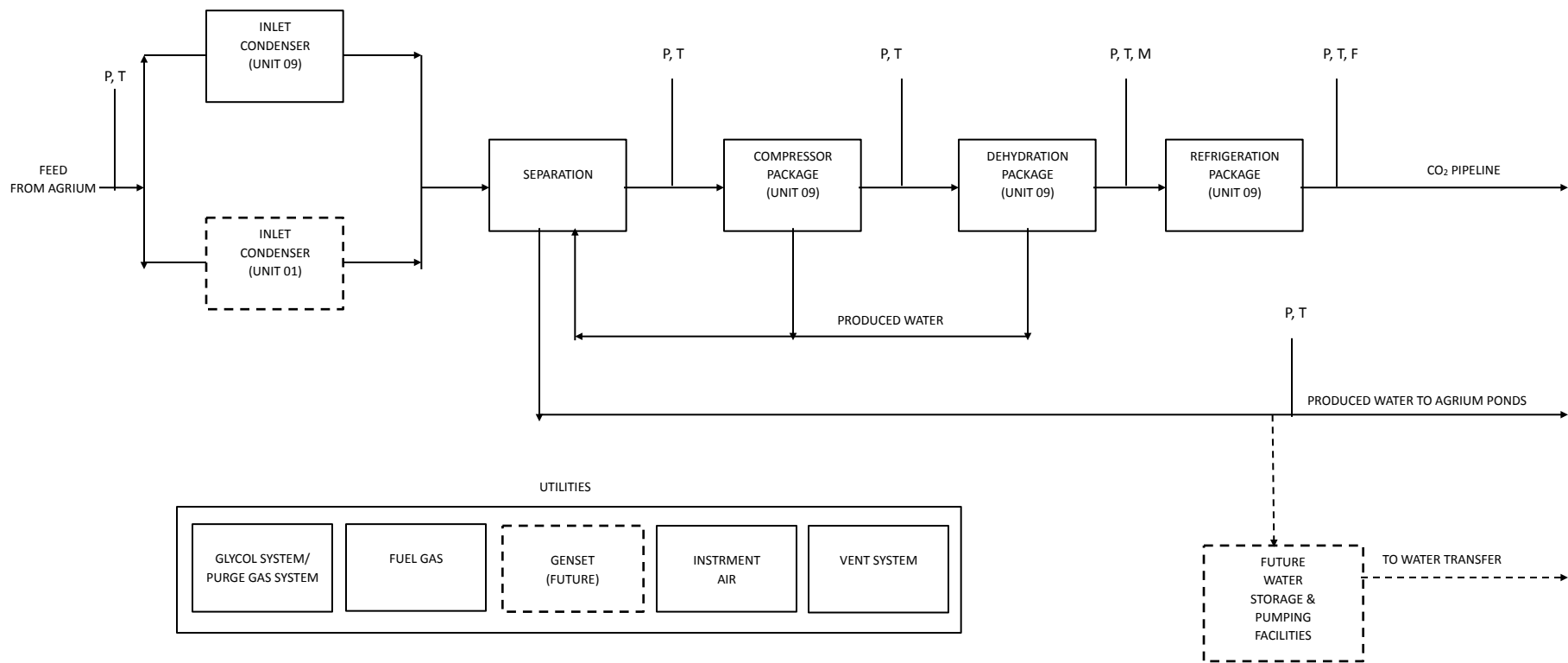


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Sun Ray Reflection, by Mathew Wong, a local Alberta painter

Enhance Energy, Inc – Agrium CO₂ Recovery Facility Process Measurement Point Diagram



P- Pressure
 T- Temperature
 F- Flow
 M- Moisture

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APPENDIX iv Agrium CRF Energy Boundary Block Diagram

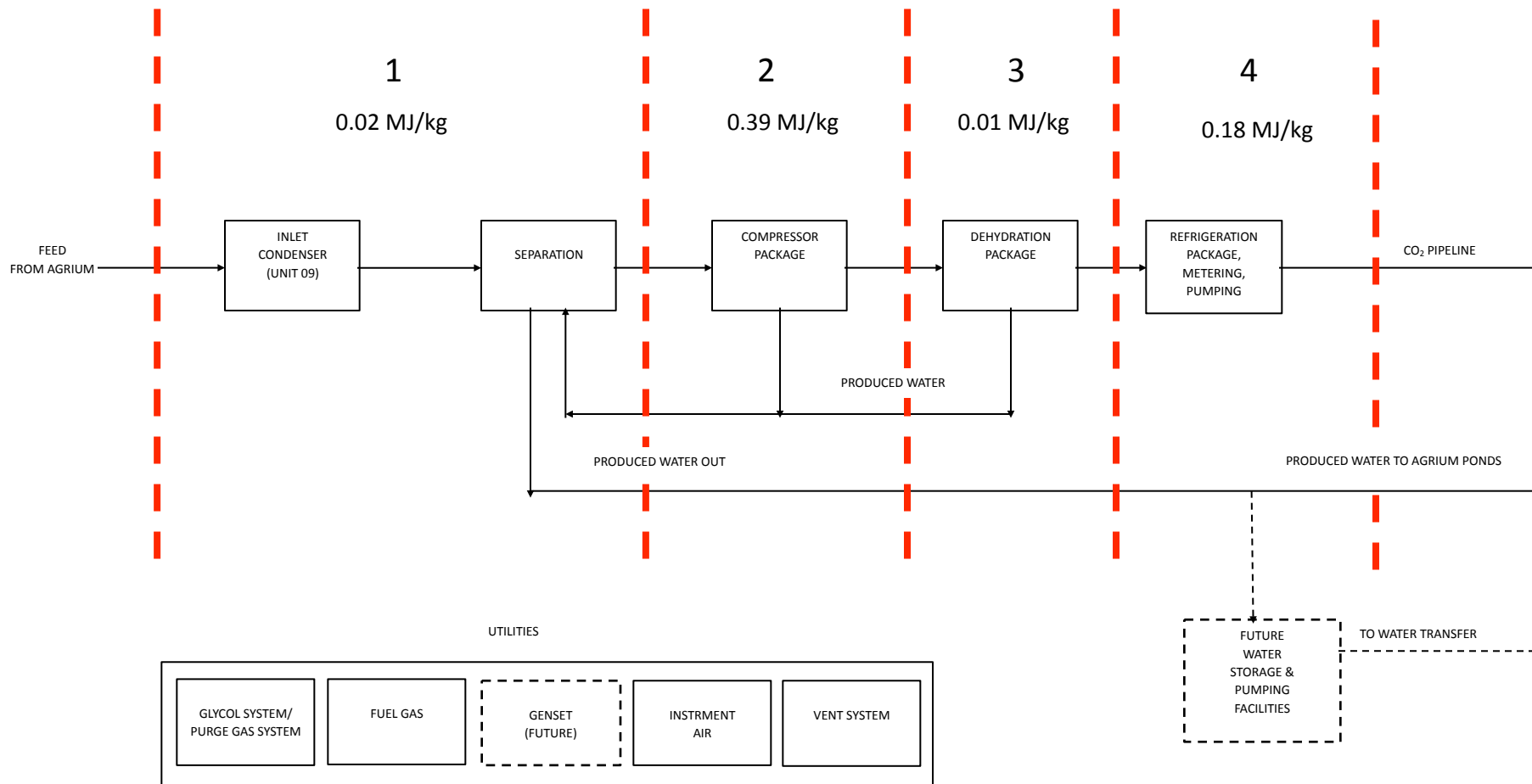


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Enhance Energy, Inc – Agrium CO₂ Recovery Facility Energy Boundary Diagram



- 1 – Inlet / Separation
- 2- Compression
- 3- Dehydration
- 4- Refrigeration/Metering/Pumping

Note – each area shares an appropriate portion of the utility systems

Enhance Energy Inc. and North West Redwater Partnership

APPENDIX v
Agrium CRF Produced
Water Analysis Report



Sun Ray Reflection, by Mathew Wong, a local Alberta painter



ACTL

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Nalco Analytical Resources
 1601 West Diehl Road, Naperville, Illinois 60563-1198
 Phone: (630) 305-2316, Fax: (630) 305-2946, Analytical.Lab.Naperville@Nalco.com



Agrium Redwater
 Redwater AB Canada
 Sample Marked: T-903 Overhead Condensate
 SAP SoldTo Number: 0001000024

Sample Number: NW0702633
 Date Sampled: 16-Jan-2007
 Date Received: 15-Feb-2007
 Date Completed: 07-Mar-2007

Water Analysis Report

Cations/Metals	Filtered	Total
Aluminum (Al)	<1.0	<1.0 mg/L
Barium (Ba)	<4.1	<3.9 mg/L
Boron (B)	<1.0	<1.0 mg/L
Cadmium (Cd)	<0.41	<0.39 mg/L
Calcium (Ca)	<1.0	<1.0 mg/L
Chromium (Cr)	<0.10	<0.10 mg/L
Copper (Cu)	<0.10	<0.10 mg/L
Iron (Fe)	<0.10	<0.10 mg/L
Lead (Pb)	<2.0	<1.9 mg/L
Lithium (Li)	<0.10	<0.10 mg/L
Magnesium (Mg)	<4.1	<3.9 mg/L
Manganese (Mn)	<0.10	<0.10 mg/L
Molybdenum (Mo)	<1.0	<1.0 mg/L
Nickel (Ni)	<1.0	<1.0 mg/L
Phosphorus (P)	<10.1	<9.7 mg/L
Phosphorus (PO ₄)	<31.0	<29.7 mg/L
Potassium (K)	<7.1	6.9 mg/L
Silica (SiO ₂)	<10.8	<10.4 mg/L
Sodium (Na)	<2.0	<1.9 mg/L
Strontium (Sr)	<0.10	<0.10 mg/L
Vanadium (V)	<5.07	<4.85 mg/L
Zinc (Zn)	<0.10	<0.10 mg/L
Calcium (CaCO ₃)	<2.5	<2.4 mg/L
Magnesium (CaCO ₃)	<16.7	<16.0 mg/L
Sodium (CaCO ₃)	<4.4	<4.2 mg/L
Calculated Hardness (CaCO ₃)	NR*	NR*

Anions

Bromide (Br)	<10.0 mg/L
Chloride (Cl)	11 mg/L
Nitrate (NO ₃)	<10.0 mg/L
Nitrite (NO ₂)	<10.0 mg/L
Sulfate (SO ₄)	<10.0 mg/L
Chloride (CaCO ₃)	15 mg/L
Nitrate (CaCO ₃)	<8.1 mg/L
Sulfate (CaCO ₃)	<10.0 mg/L

Authorized by : David R. Szymborski





Nalco Analytical Resources

1601 West Diehl Road, Naperville, Illinois 60563-1198
 Phone: (630) 305-2315, Fax: (630) 305-2946, Analytical.Lab.Naperville@Nalco.com



Agrium Redwater
 Redwater AB Canada
 Sample Marked: T-903 Overhead Condensate
 SAP SoldTo Number: 0001000024

Sample Number: NW0702633
 Date Sampled: 16-Jan-2007
 Date Received: 15-Feb-2007
 Date Completed: 07-Mar-2007

Water Analysis Report

ALK - Alkalinity

Bicarbonate (CaCO ₃)	7100 mg/L
Carbonate (CaCO ₃)	110 mg/L
Methyl Orange (CaCO ₃)	7200 mg/L
Phenolphthalein (CaCO ₃)	53 mg/L

Others

pH	8.5 pH Units
Conductivity	13000 μ S/cm
Organic Carbon (C) - Total	1100 mg/L
MS Number	MS0048

Authorized by : David R. Szymborski



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APPENDIX vi Agrium CRF Plot Plan



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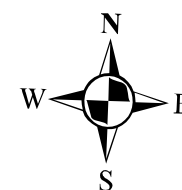
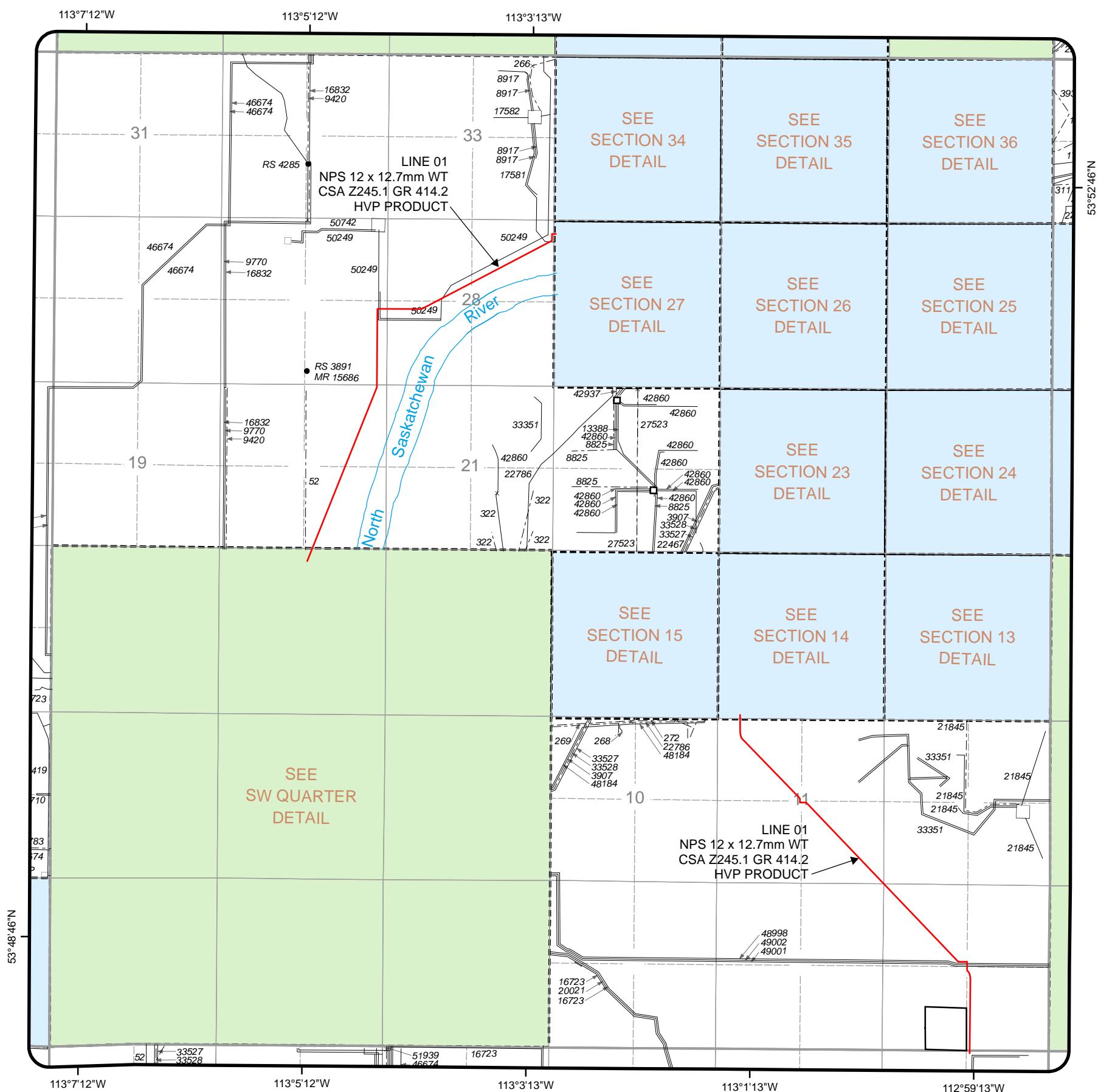
APPENDIX vii ERCB ACTL Base Maps



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Coordinate System: 10TM



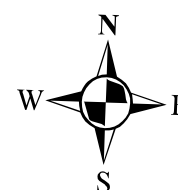
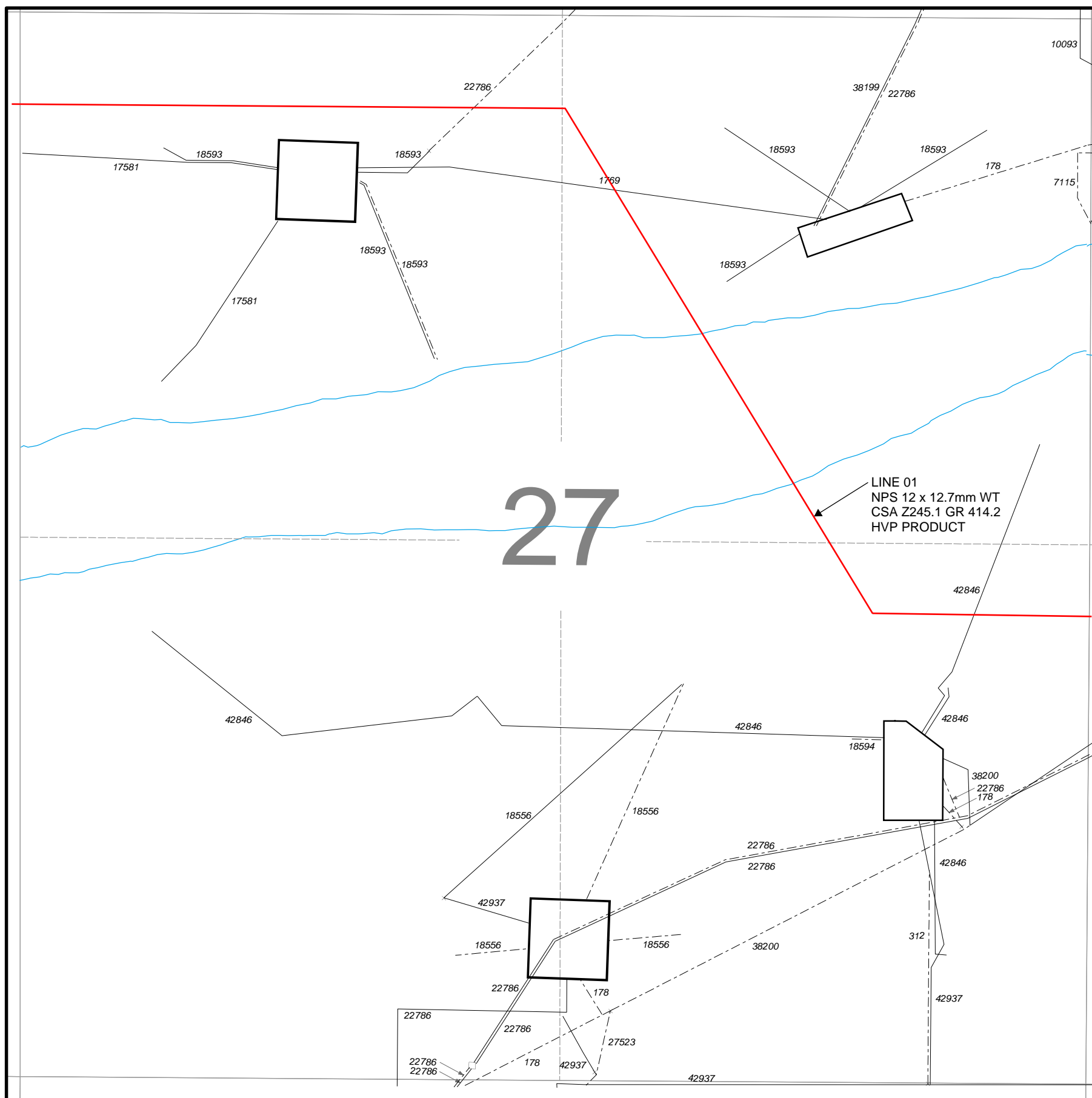
**ALL PIPELINES IN
TWP 056- 21W4**

**REVISION DATE:
30 September 2010**

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

LEGEND

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



Coordinate System: 10TM



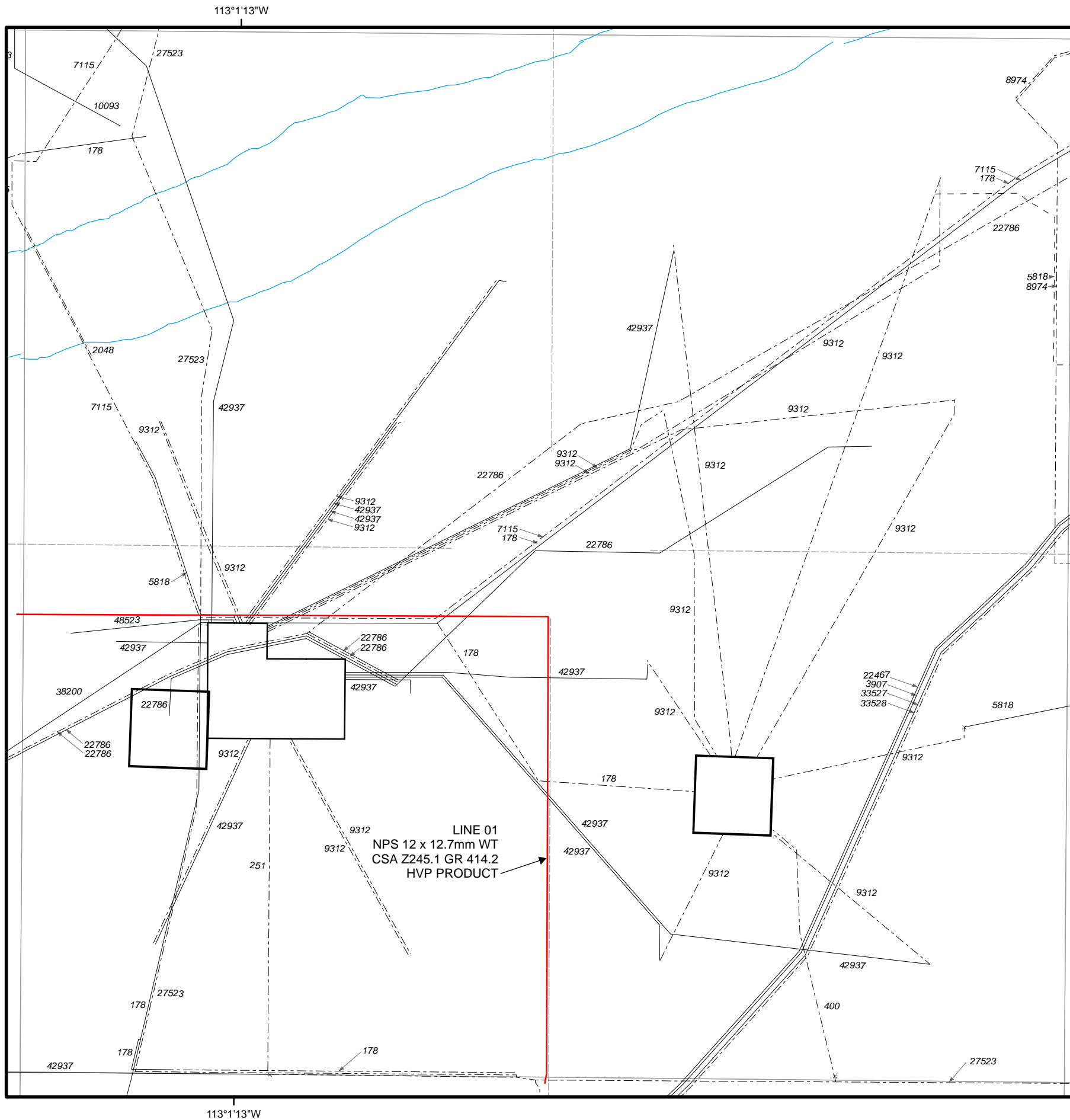
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SEC 27 TWP 056- 21W4**

**REVISION DATE:
27 February 2008**

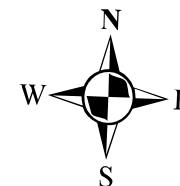
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 - LOW-PRESSURE GAS DISTRIBUTION LINES ARE NOT SHOWN.
 CONTACT THE GAS DISTRIBUTOR IN THIS AREA FOR LINE LOCATION

LEGEND

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



LINE 01
NPS 12 x 12.7mm WT
CSA Z245.1 GR 414.2
HVP PRODUCT



Coordinate System: 10TM



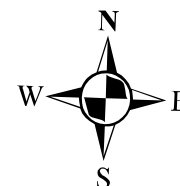
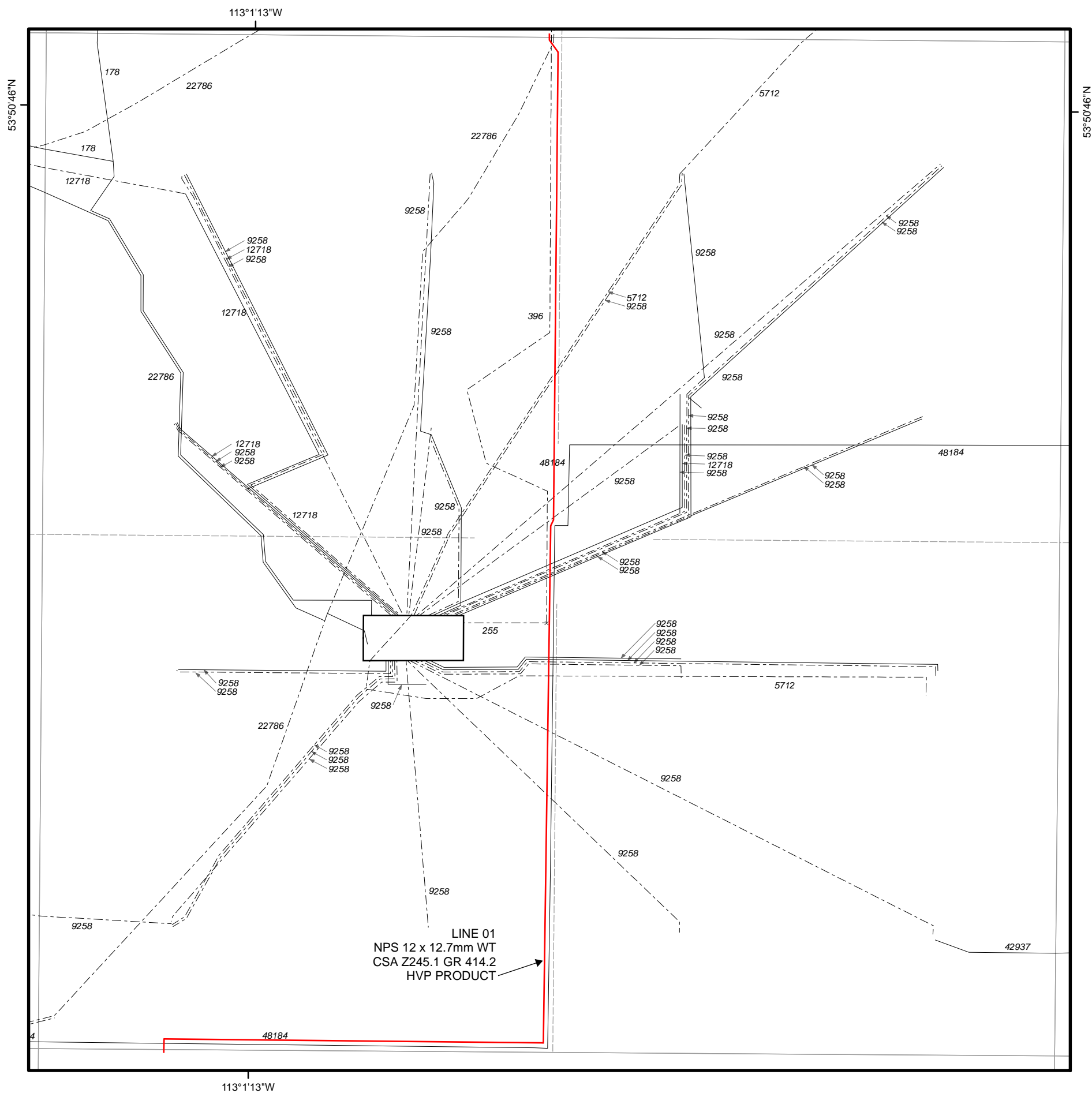
**ALL PIPELINES IN
SEC 26 TWP 056- 21W4**

**REVISION DATE:
26 August 2010**

CAUTION
- THIS PLOT REPRESENTS THE BEST INFORMATION AVAILABLE TO THE BOARD AT THIS TIME.
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- LOW-PRESSURE GAS DISTRIBUTION LINES ARE NOT SHOWN.
CONTACT THE GAS DISTRIBUTOR IN THIS AREA FOR LINE LOCATION

LEGEND

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



Coordinate System: 10TM



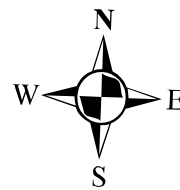
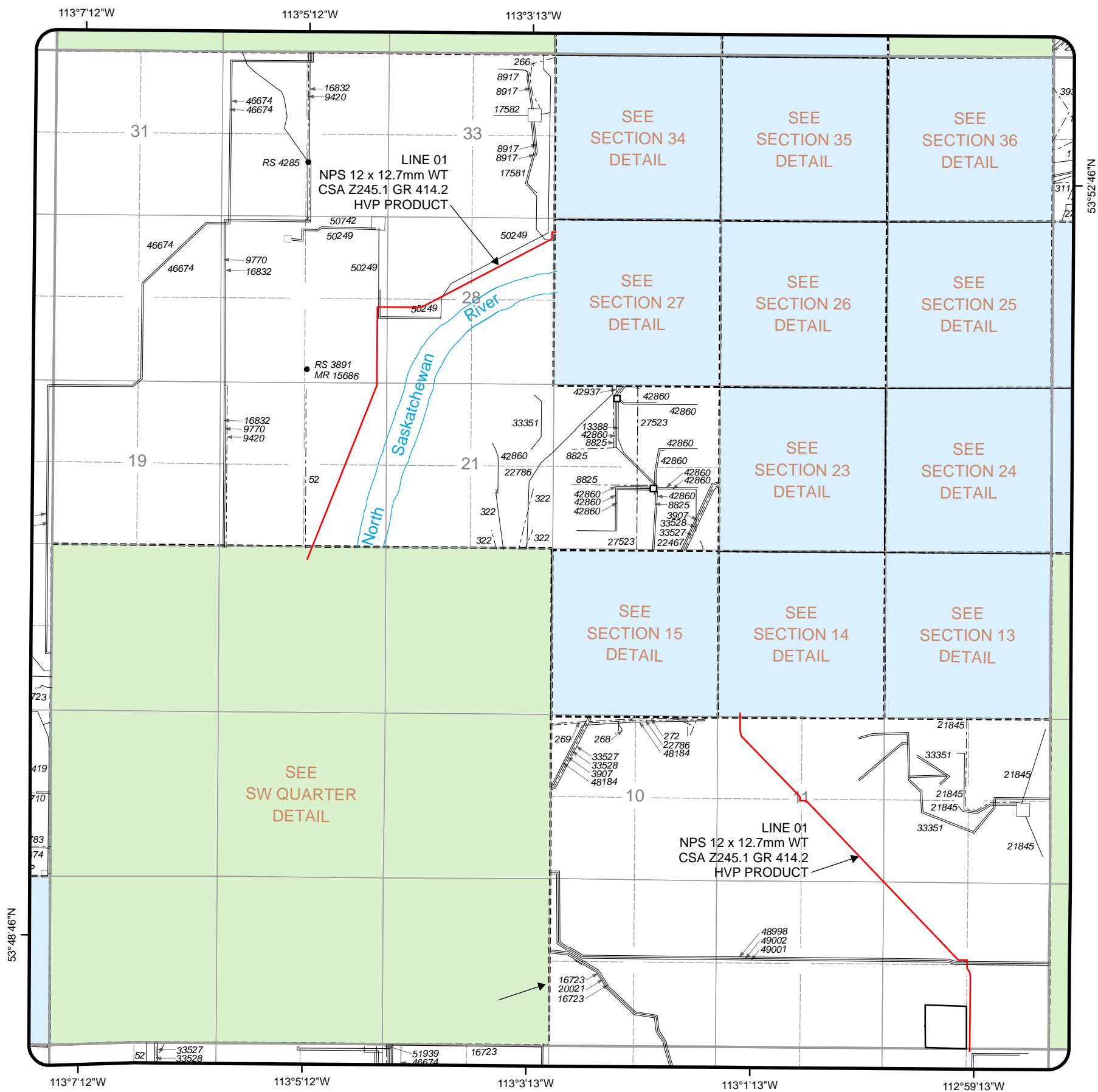
**ALL PIPELINES IN
SEC 14 TWP 056- 21W4**

**REVISION DATE:
02 September 2009**

CAUTION
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 - LOW-PRESSURE GAS DISTRIBUTION LINES ARE NOT SHOWN.
CONTACT THE GAS DISTRIBUTOR IN THIS AREA FOR LINE LOCATION

LEGEND

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



Coordinate System: 10TM



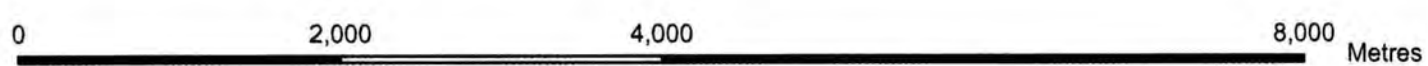
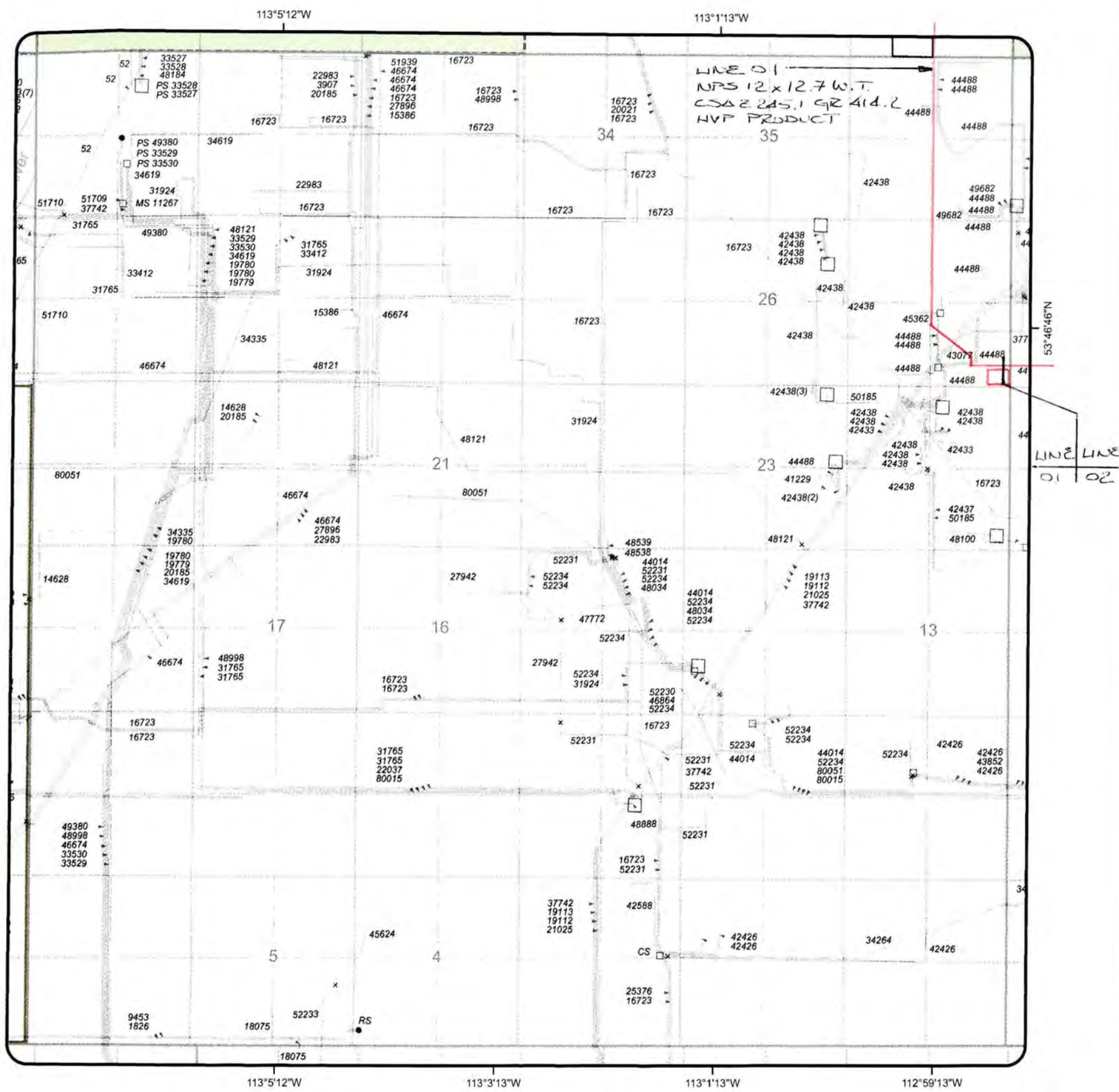
**ALL PIPELINES IN
TWP 056- 21W4**

**REVISION DATE:
30 September 2010**

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

LEGEND

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



Coordinate System: 10TM



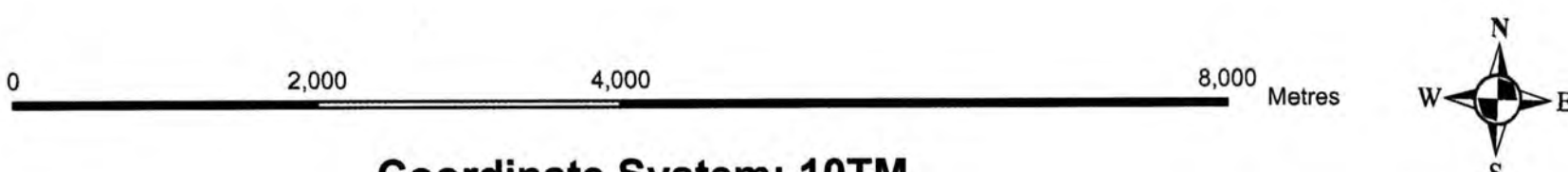
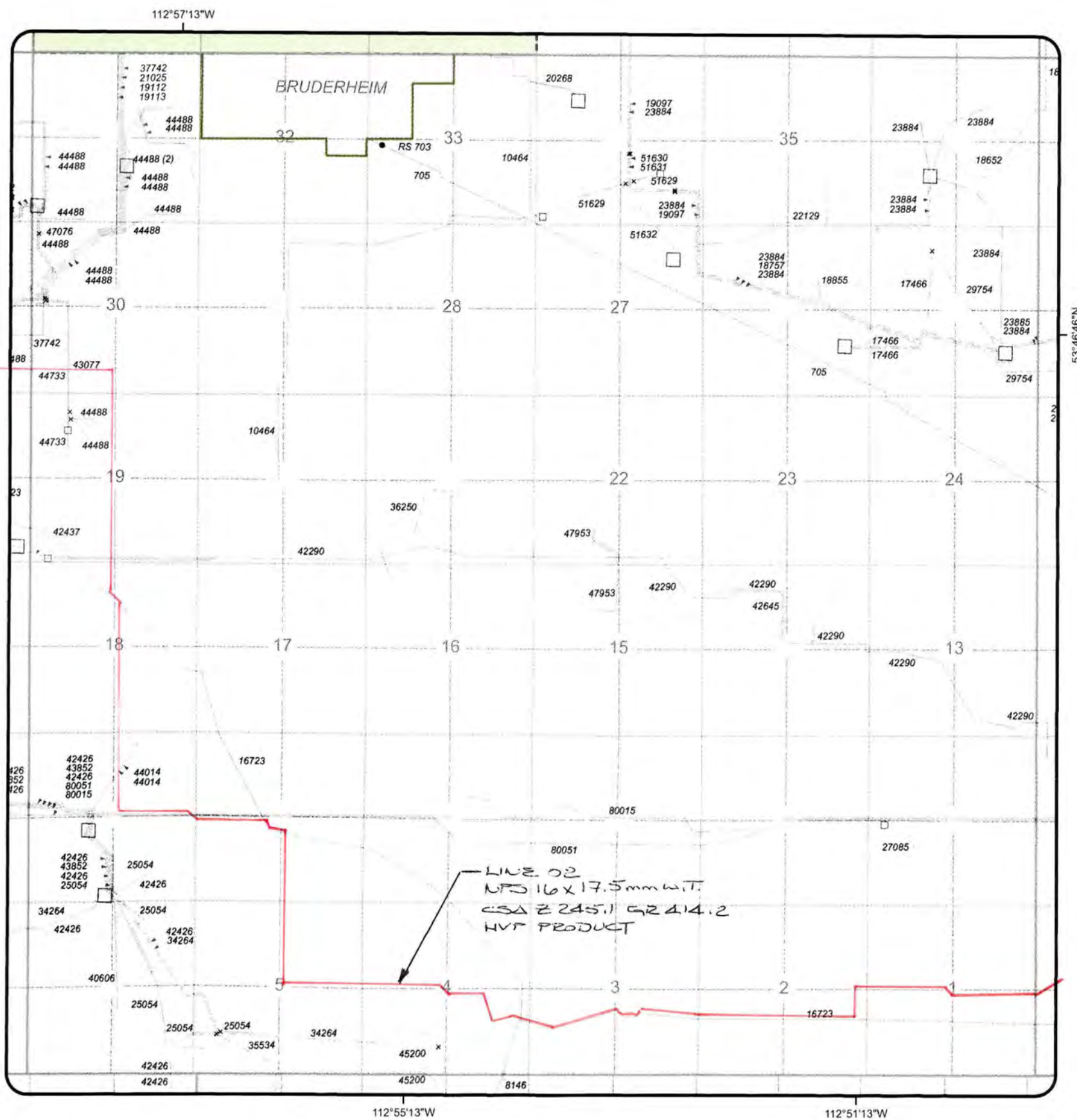
**ALL PIPELINES IN
TWP 055- 21W4**

**REVISION DATE:
10 July 2010**

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

LEGEND

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



Coordinate System: 10TM



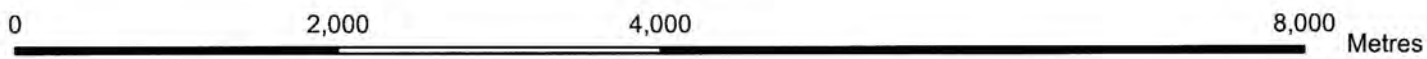
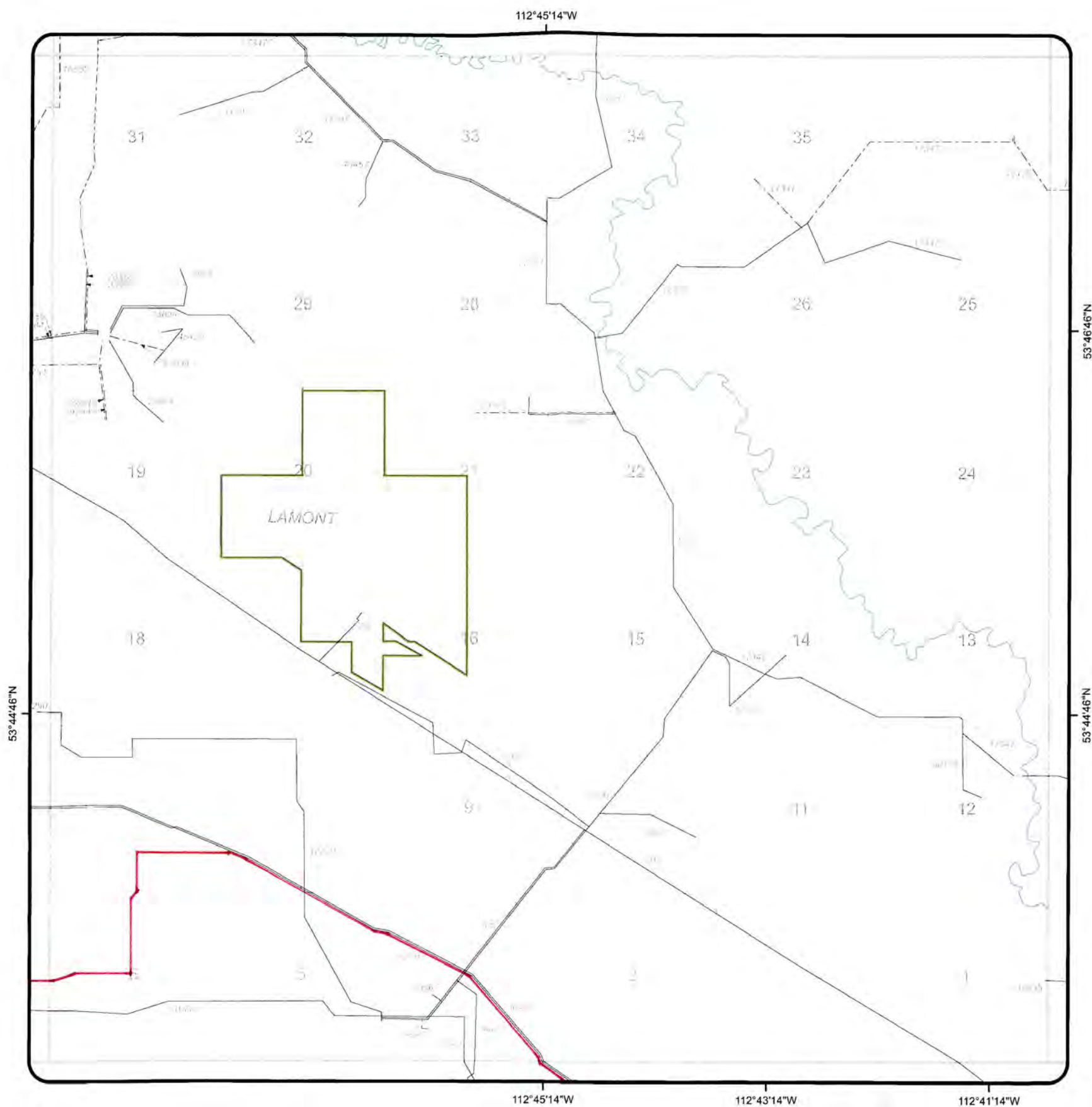
**ALL PIPELINES IN
TWP 055- 20W4**

**REVISION DATE:
11 May 2010**

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

LEGEND

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



Coordinate System: 10TM



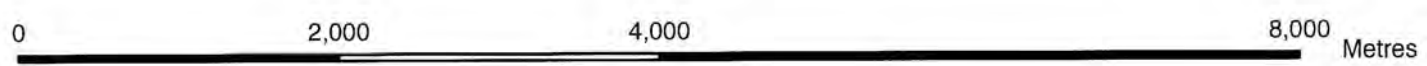
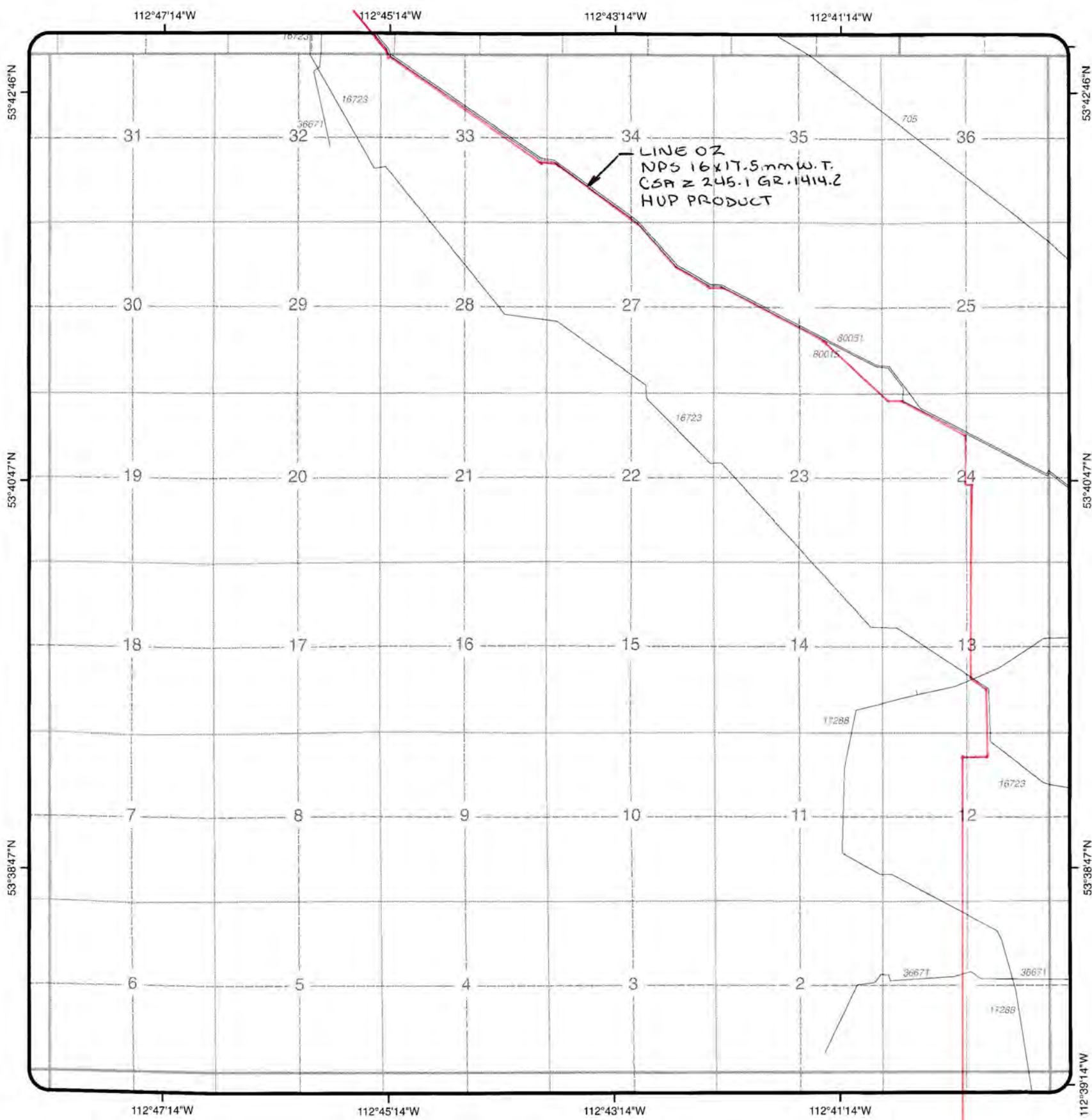
**ALL PIPELINES IN
TWP 055- 19W4**

**REVISION DATE:
27 August 2009**

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

LEGEND

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



Coordinate System: 10TM



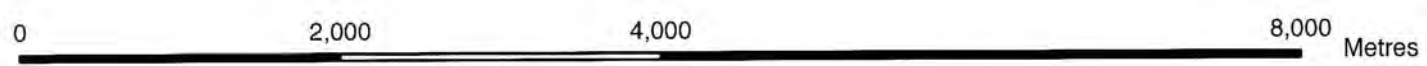
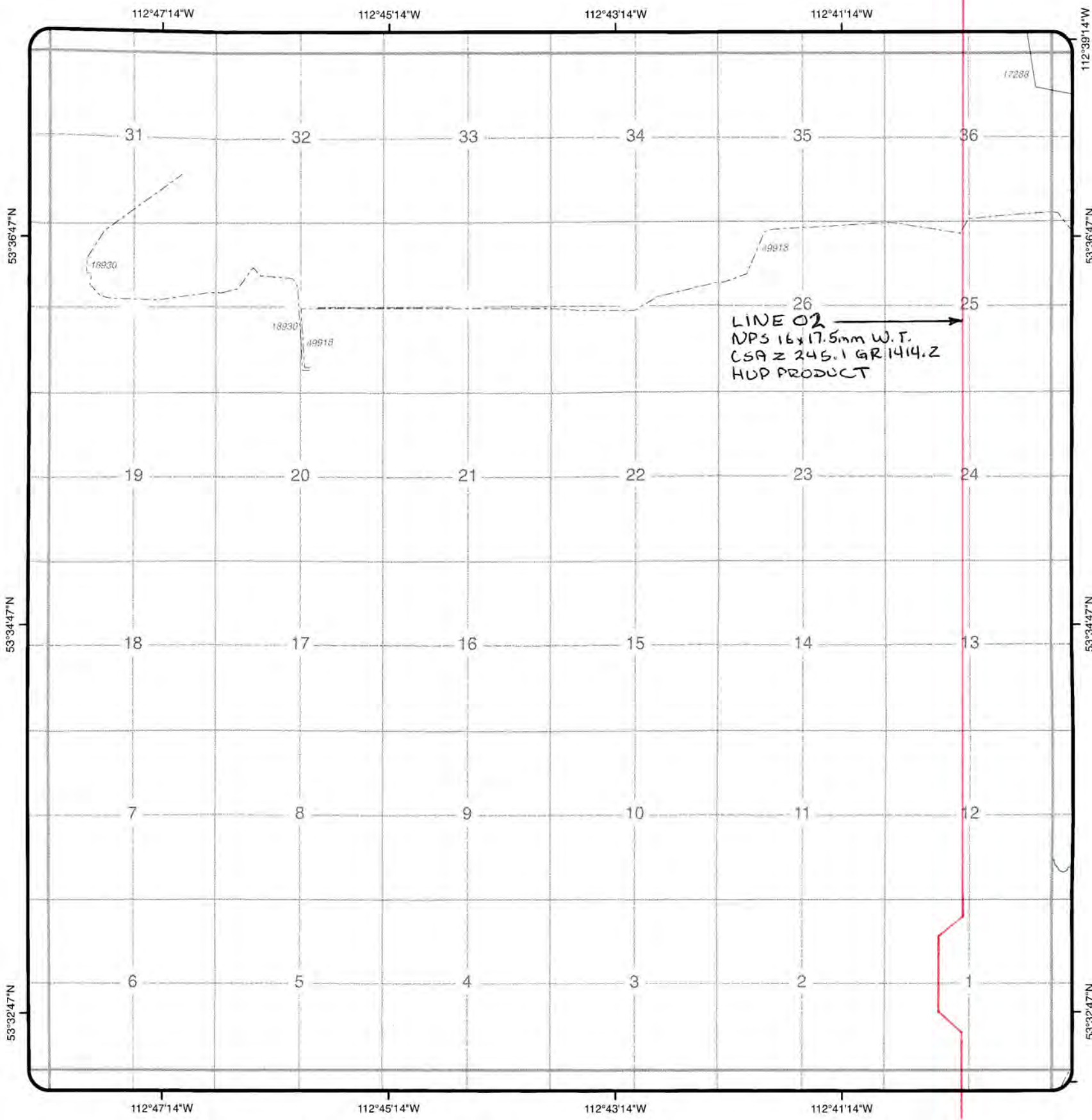
**ALL PIPELINES IN
TWP 054- 19W4**

**REVISION DATE:
27 February 2008**

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

LEGEND

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



Coordinate System: 10TM



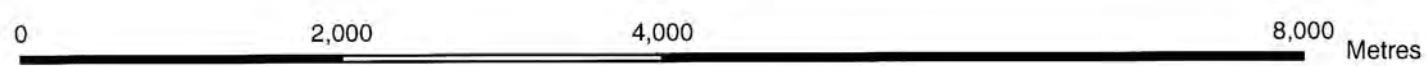
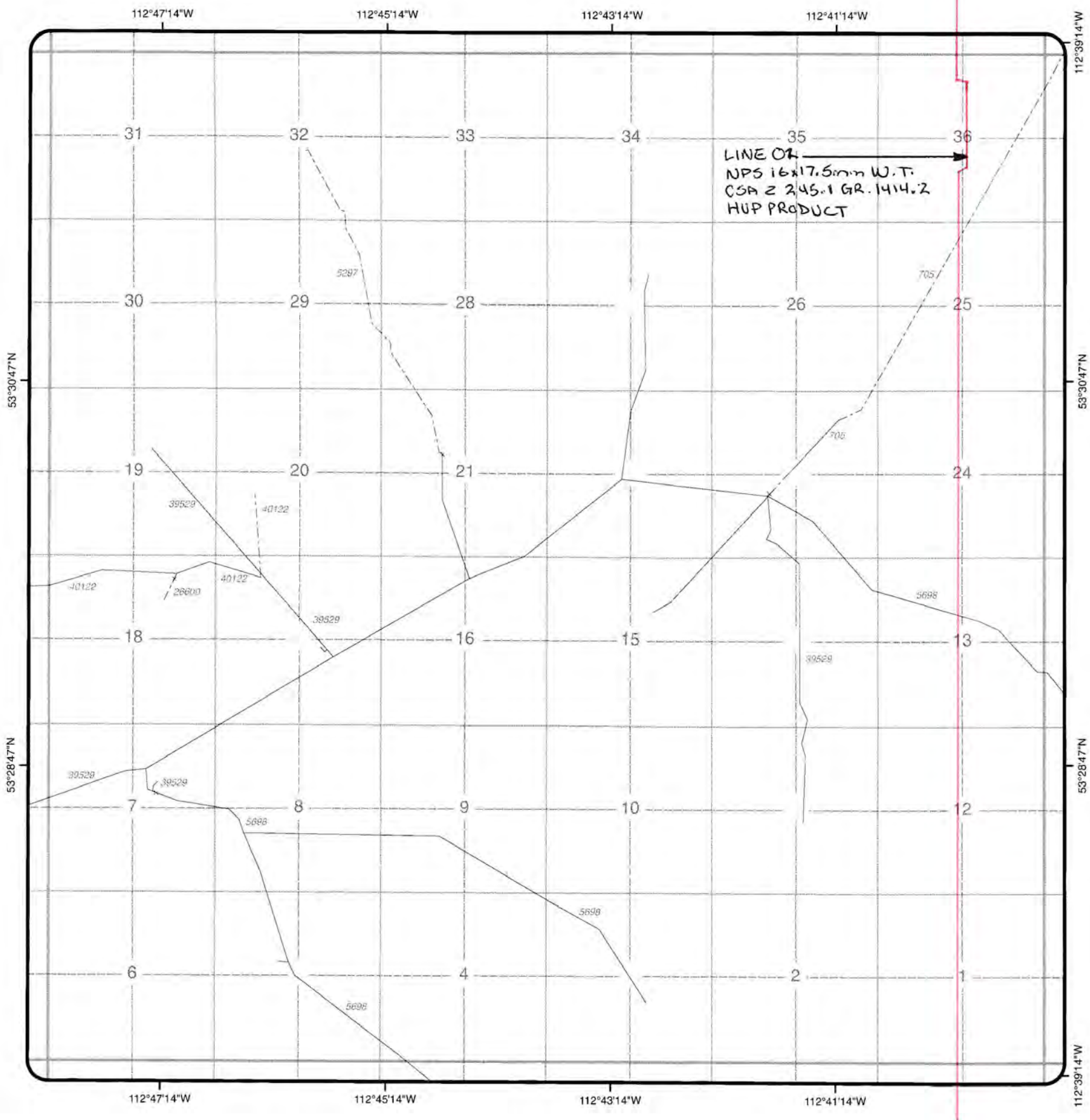
**ALL PIPELINES IN
TWP 053- 19W4**

**REVISION DATE:
27 February 2008**

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

LEGEND

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



Coordinate System: 10TM



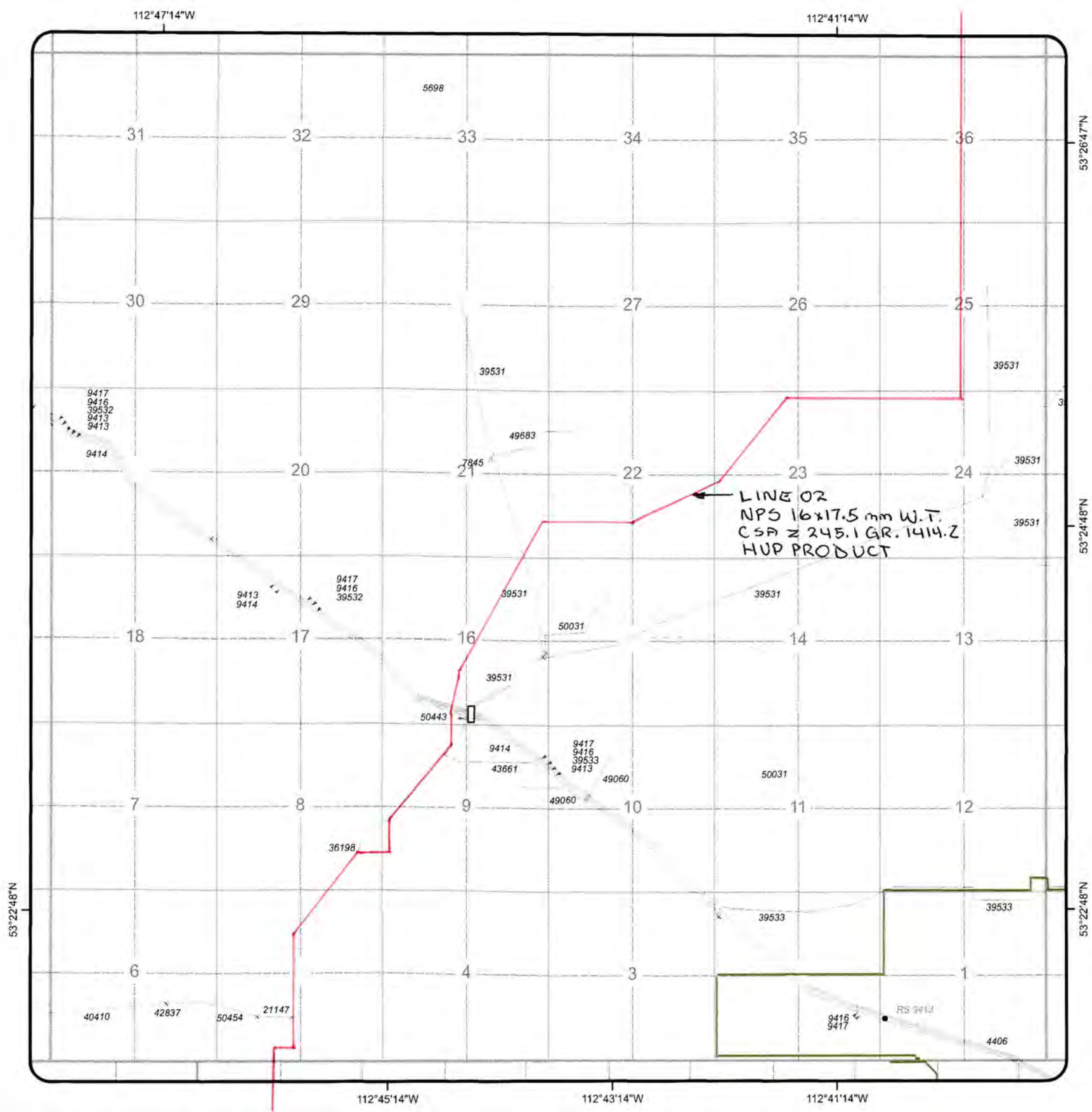
**ALL PIPELINES IN
TWP 052- 19W4**

**REVISION DATE:
02 April 2008**

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

LEGEND

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



Coordinate System: 10TM



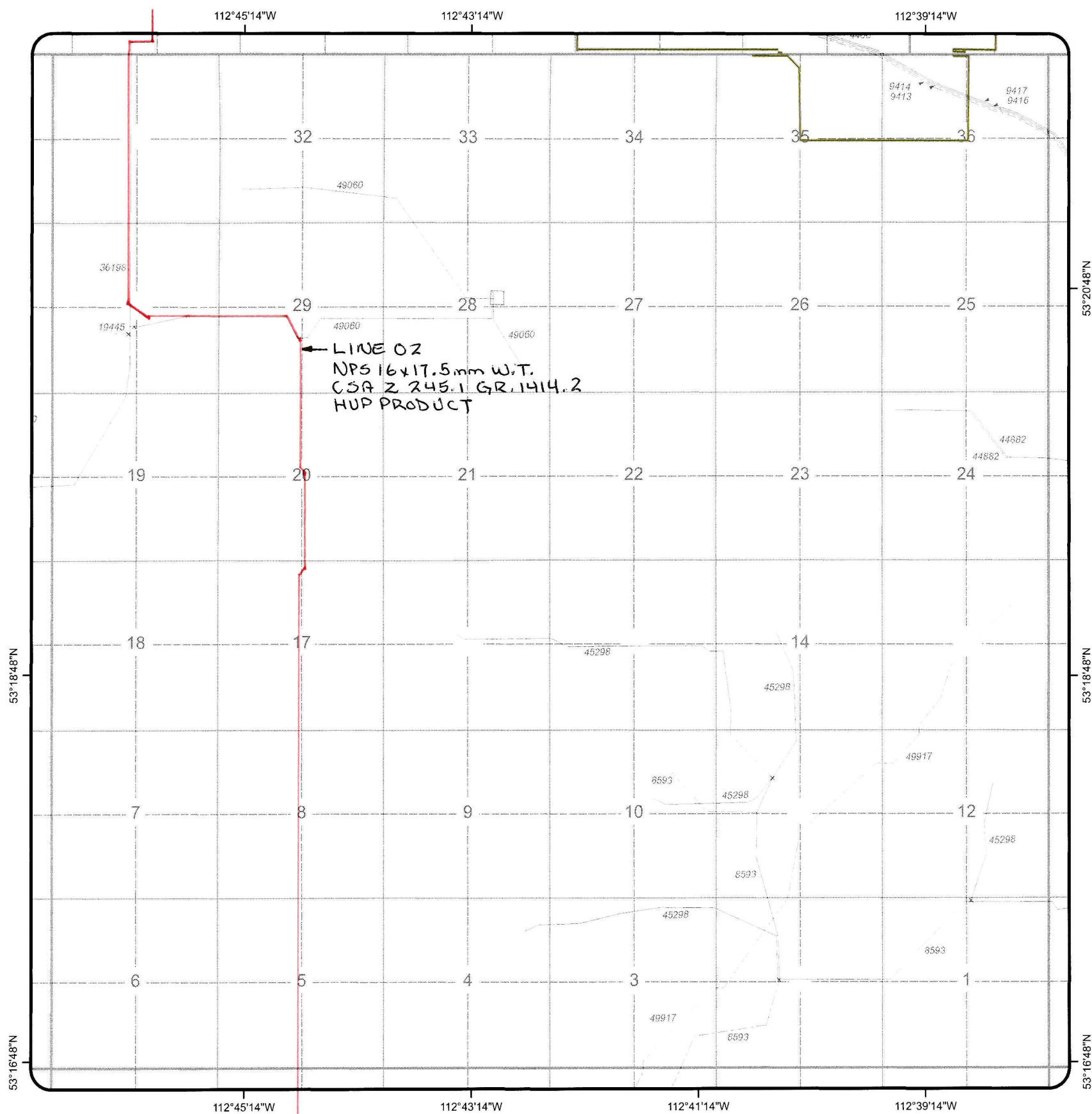
**ALL PIPELINES IN
TWP 051- 19W4**

**REVISION DATE:
28 January 2009**

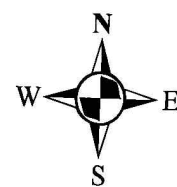
CAUTION
 - THIS PLOT REPRESENTS THE BEST INFORMATION AVAILABLE TO THE BOARD AT THIS TIME.
 - SPECIFIC PIPELINE LOCATIONS SHOULD BE OBTAINED FROM SURVEY PLANS, OWNERS AND FIELD OBSERVATION BEFORE DIGGING.
 - LOW-PRESSURE GAS DISTRIBUTION LINES ARE NOT SHOWN.
 CONTACT THE GAS DISTRIBUTOR IN THIS AREA FOR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

LEGEND

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



LINE 02
 NPS 16x17.5mm W.T.
 CSA Z 245.1 GR. 1414.2
 HUP PRODUCT



Coordinate System: 10TM



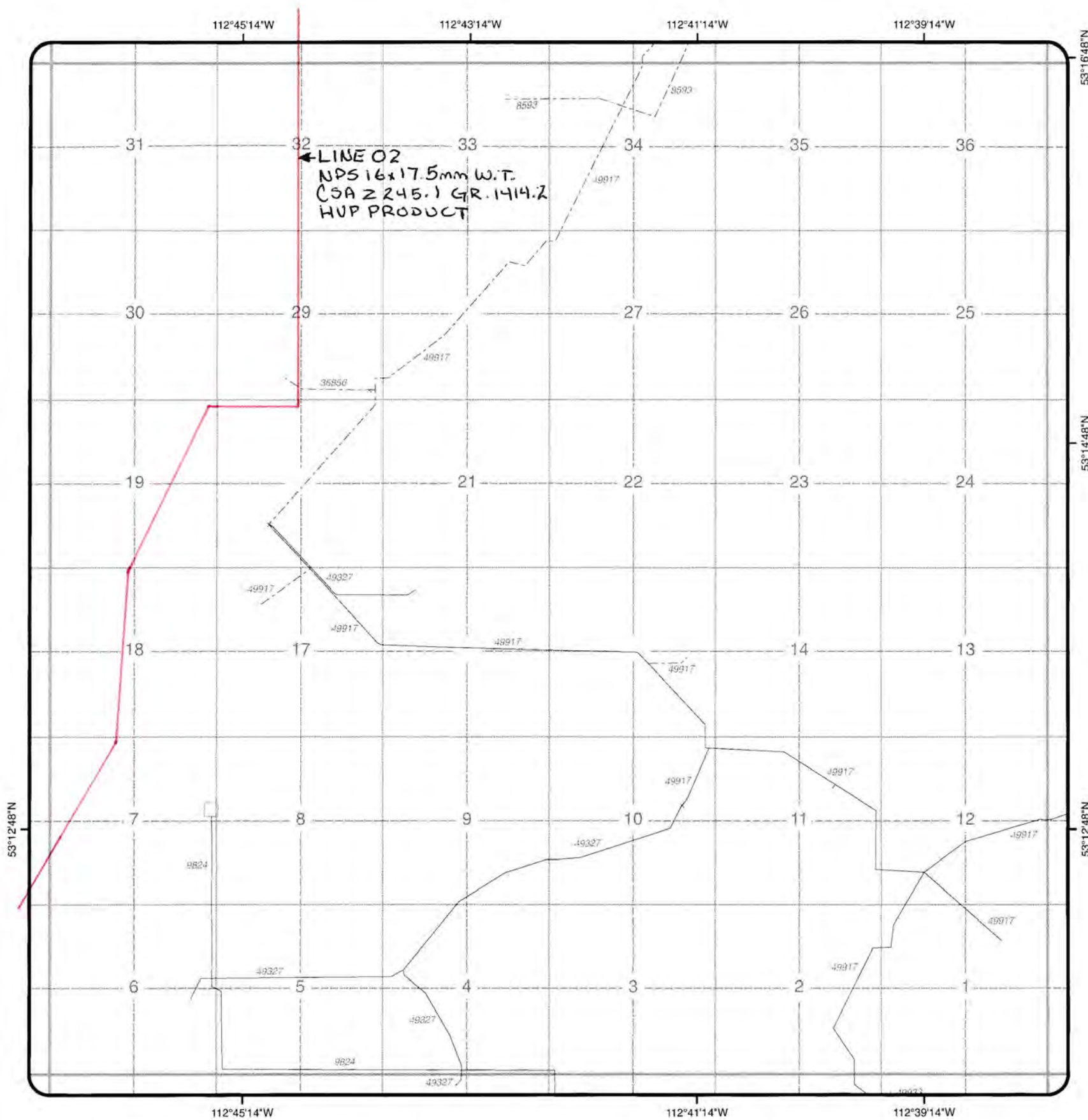
**ALL PIPELINES IN
 TWP 050- 19W4**

**REVISION DATE:
 22 September 2008**

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

LEGEND

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



Coordinate System: 10TM



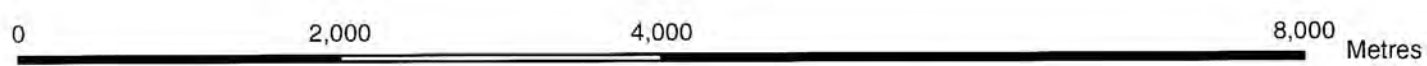
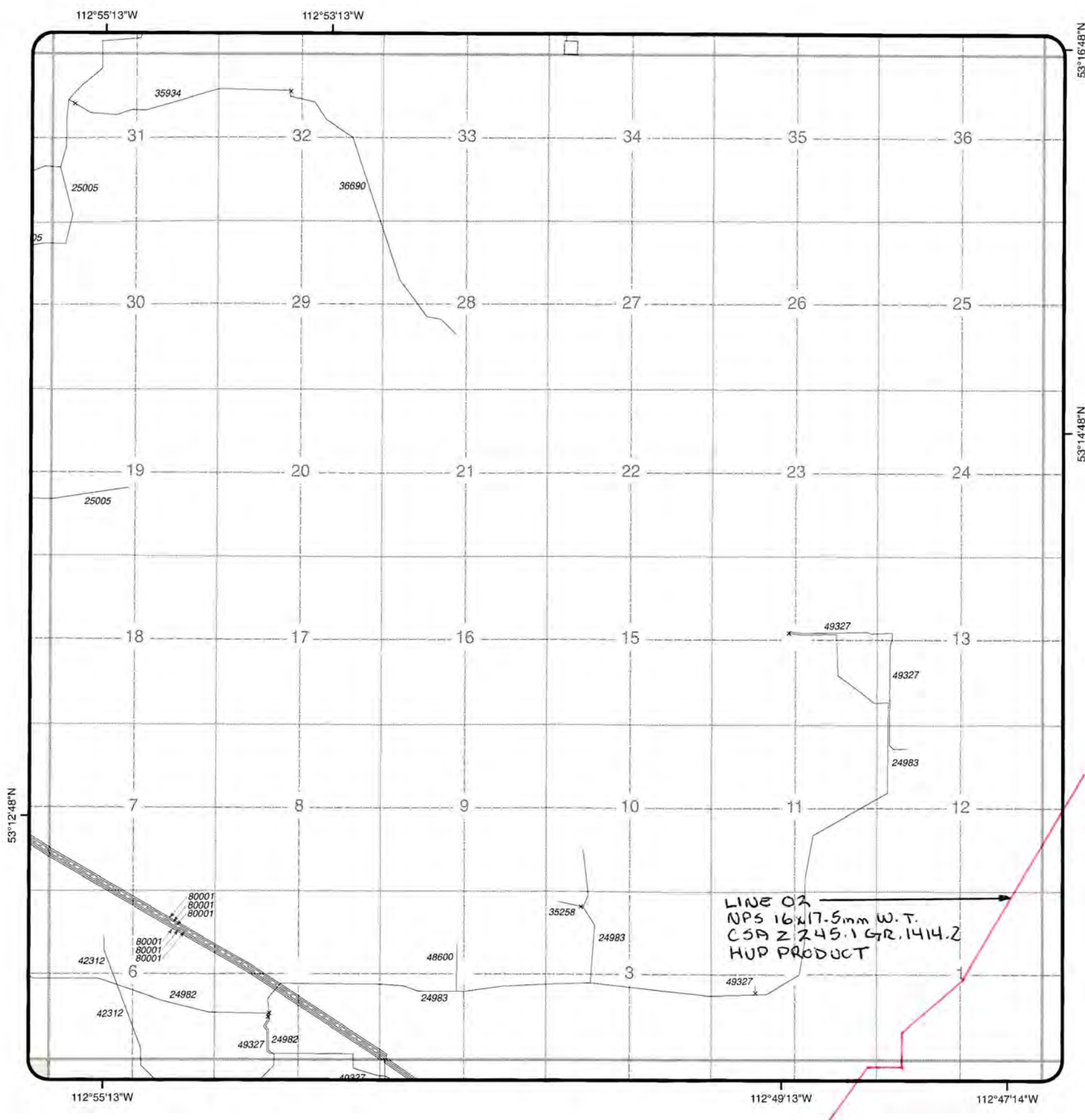
**ALL PIPELINES IN
TWP 049- 19W4**

**REVISION DATE:
12 January 2009**

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

LEGEND

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



Coordinate System: 10TM



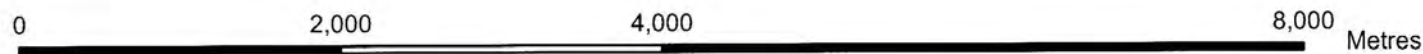
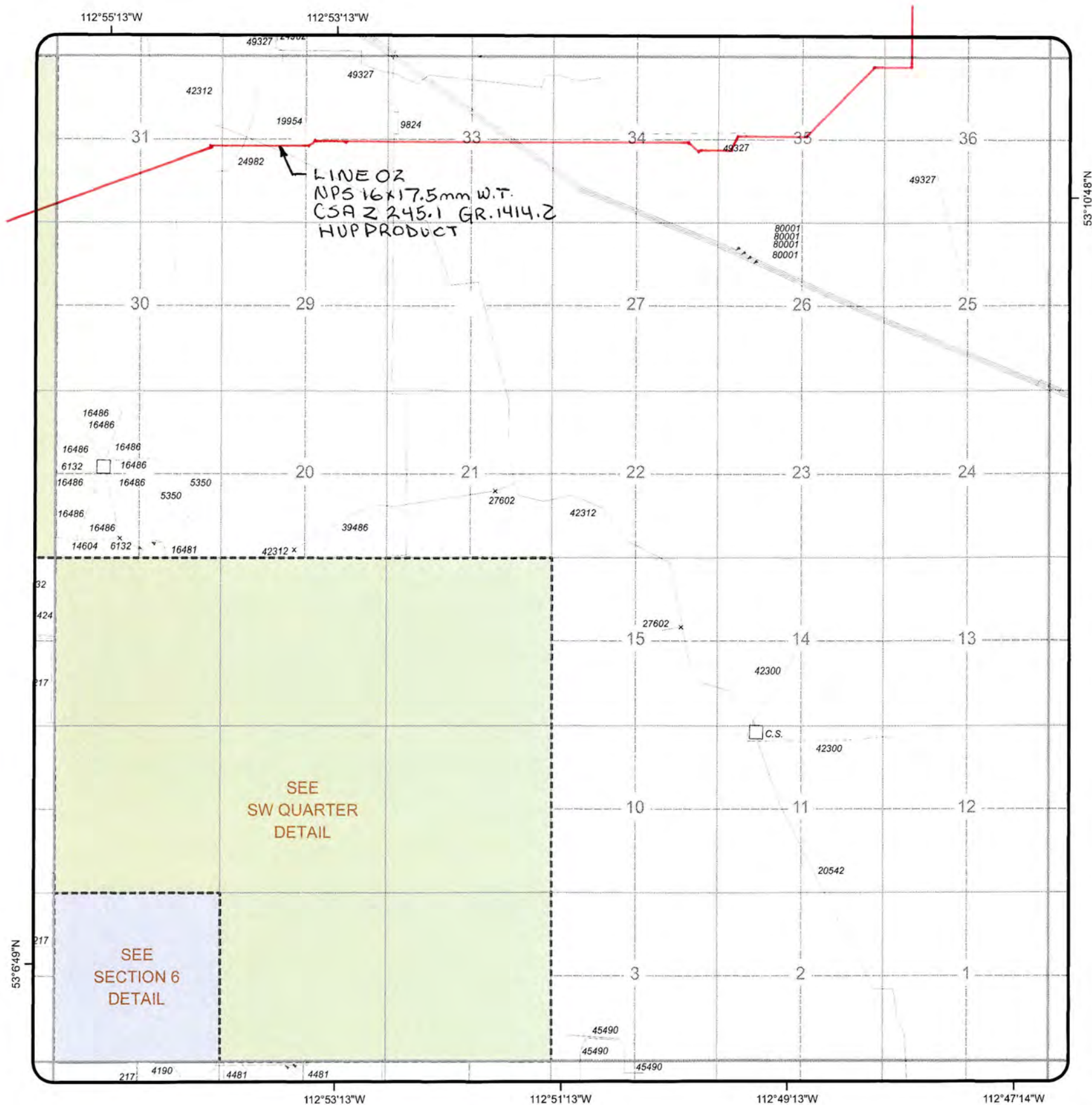
**ALL PIPELINES IN
TWP 049- 20W4**

**REVISION DATE:
28 January 2009**

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

LEGEND

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



Coordinate System: 10TM



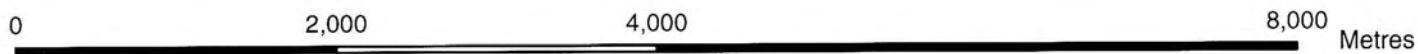
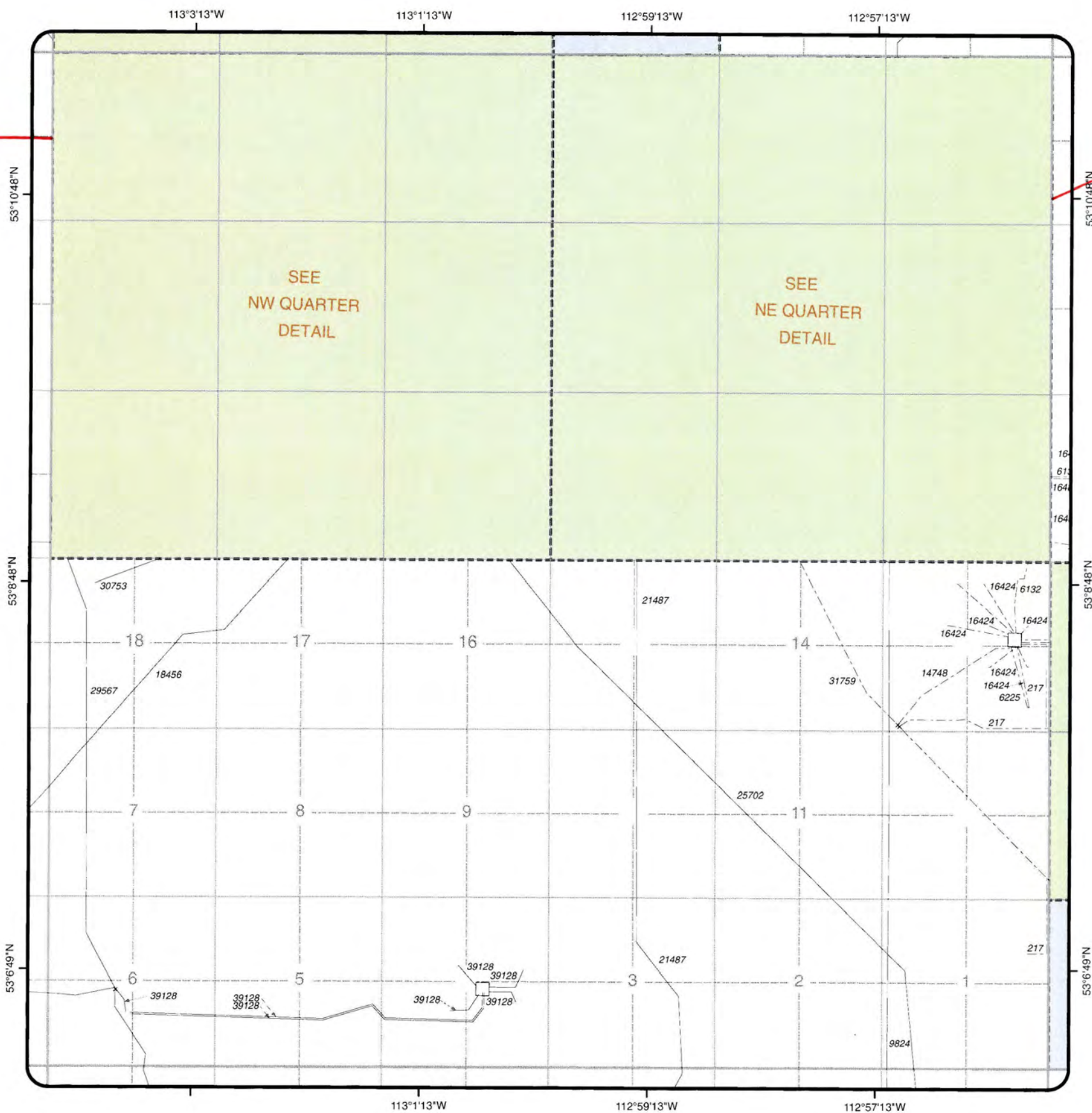
ALL PIPELINES IN
TWP 048- 20W4

REVISION DATE:
19 November 2008

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

LEGEND

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



Coordinate System: 10TM



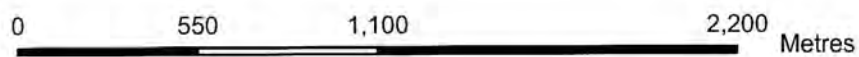
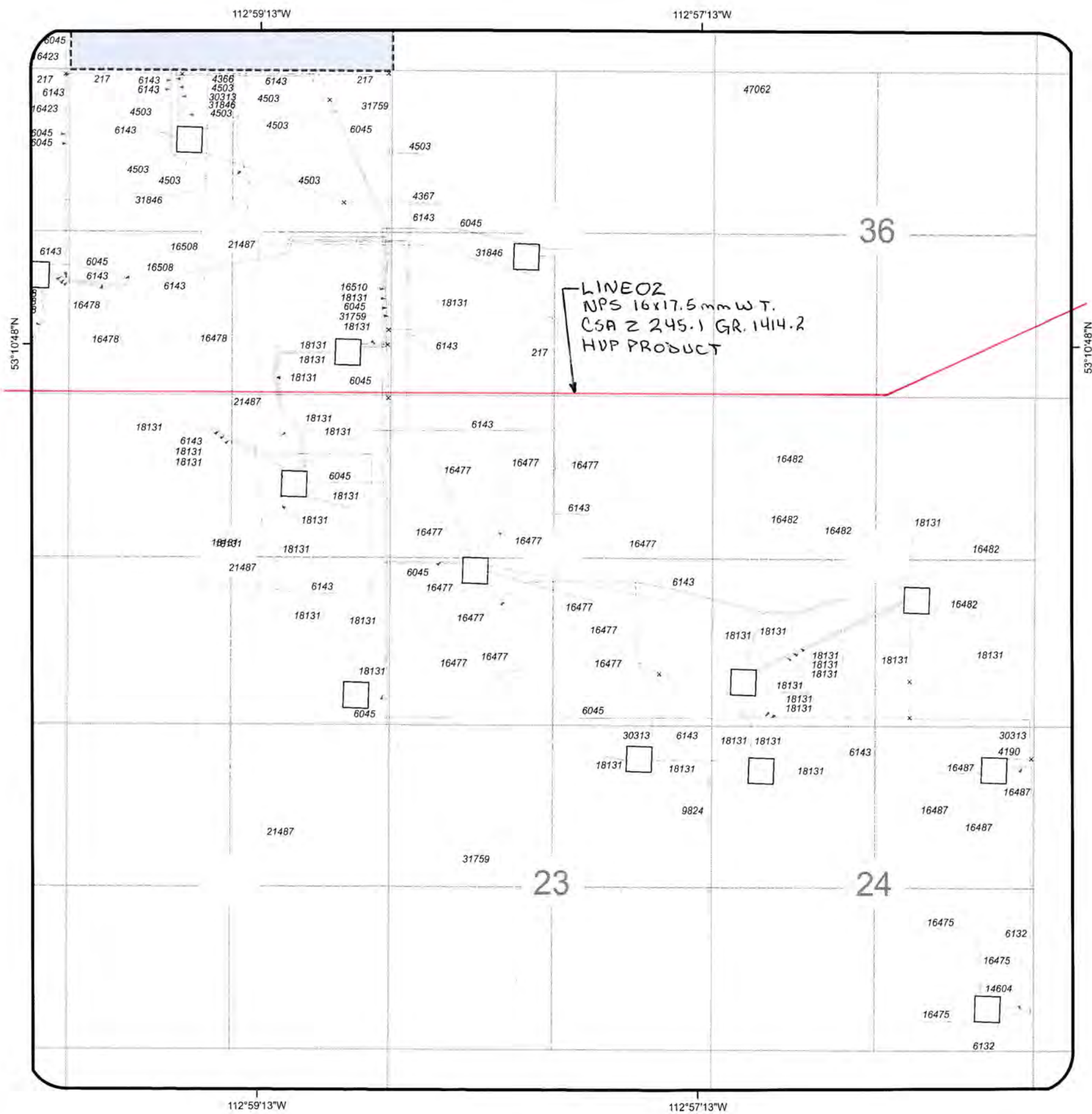
**ALL PIPELINES IN
TWP 048- 21W4**

**REVISION DATE:
10 March 2008**

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

LEGEND

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



Coordinate System: 10TM



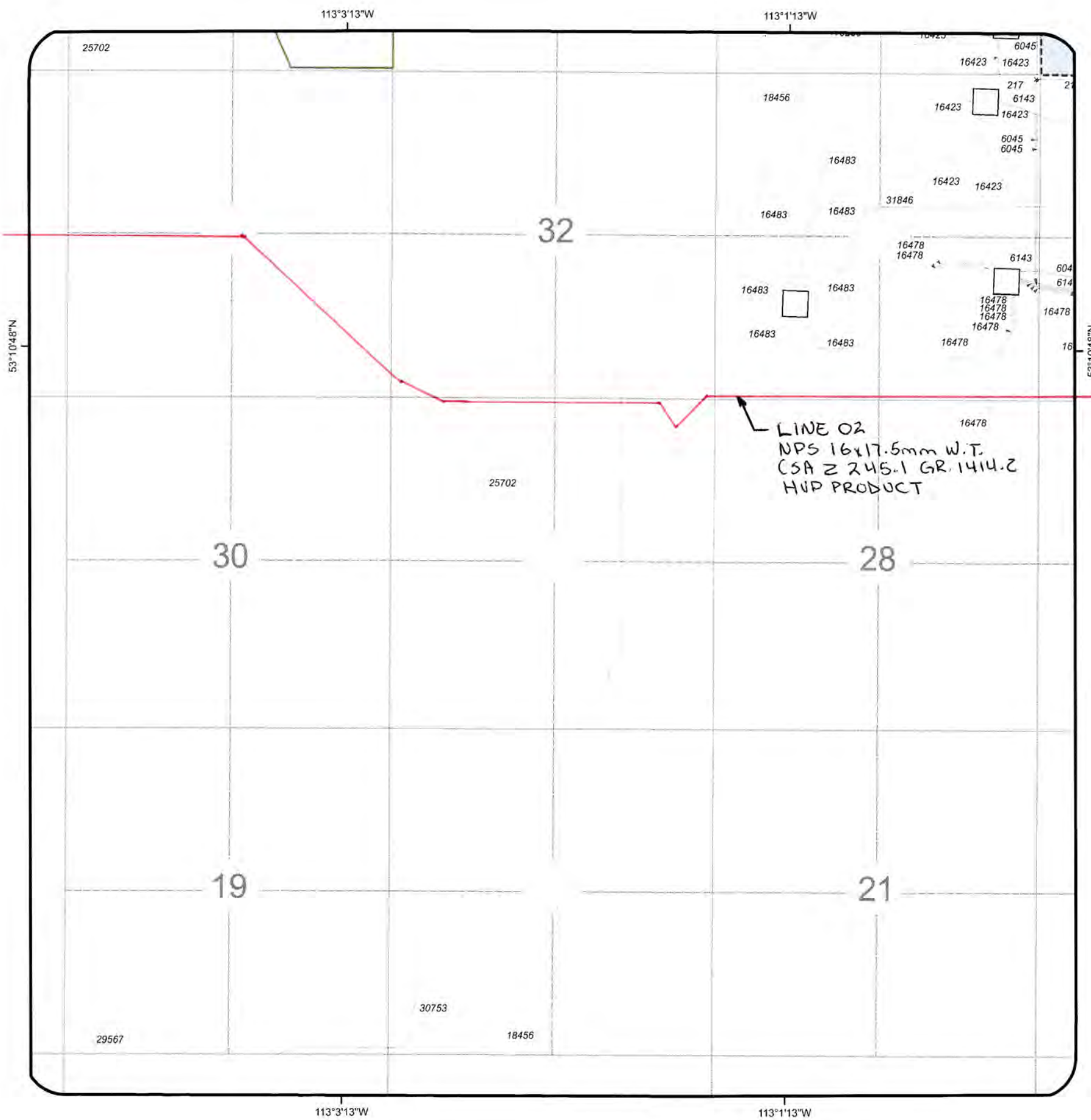
**ALL PIPELINES IN
NE . 048- 21W4**

**REVISION DATE:
27 February 2008**

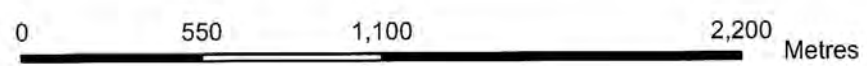
CAUTION
 - THIS PLOT REPRESENTS THE BEST INFORMATION AVAILABLE TO THE BOARD AT THIS TIME.
 - SPECIFIC PIPELINE LOCATIONS SHOULD BE OBTAINED FROM SURVEY PLANS, OWNERS AND FIELD OBSERVATION BEFORE DIGGING.
 - LOW-PRESSURE GAS DISTRIBUTION LINES ARE NOT SHOWN.
 CONTACT THE GAS DISTRIBUTOR IN THIS AREA FOR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

LEGEND

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



LINE 02
 NPS 16x17.5mm W.T.
 CSA Z 245.1 GR. 1414.2
 HVP PRODUCT



Coordinate System: 10TM



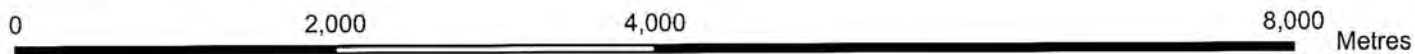
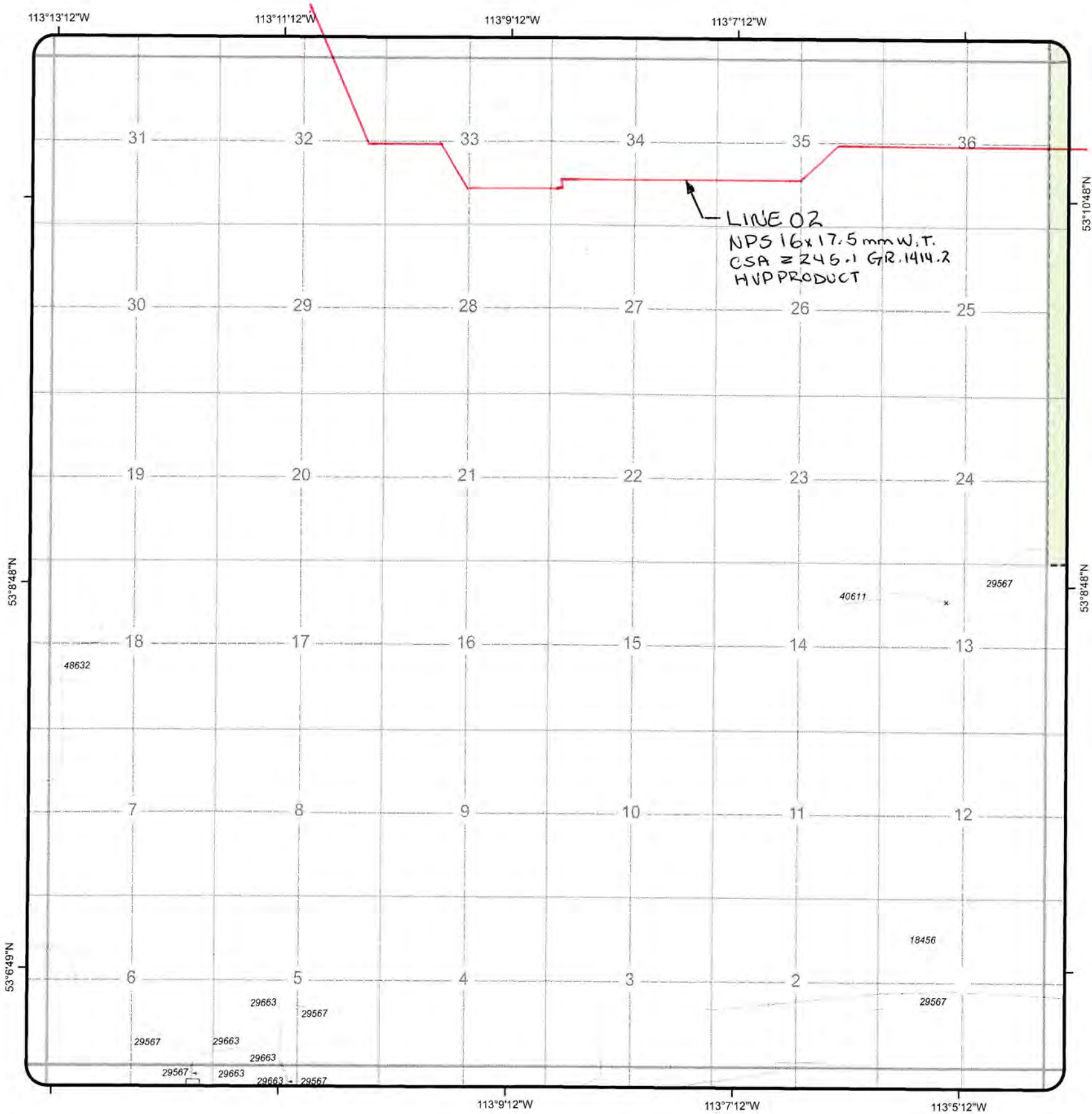
**ALL PIPELINES IN
 NW . 048- 21W4**

**REVISION DATE:
 27 February 2008**

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

LEGEND

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



Coordinate System: 10TM



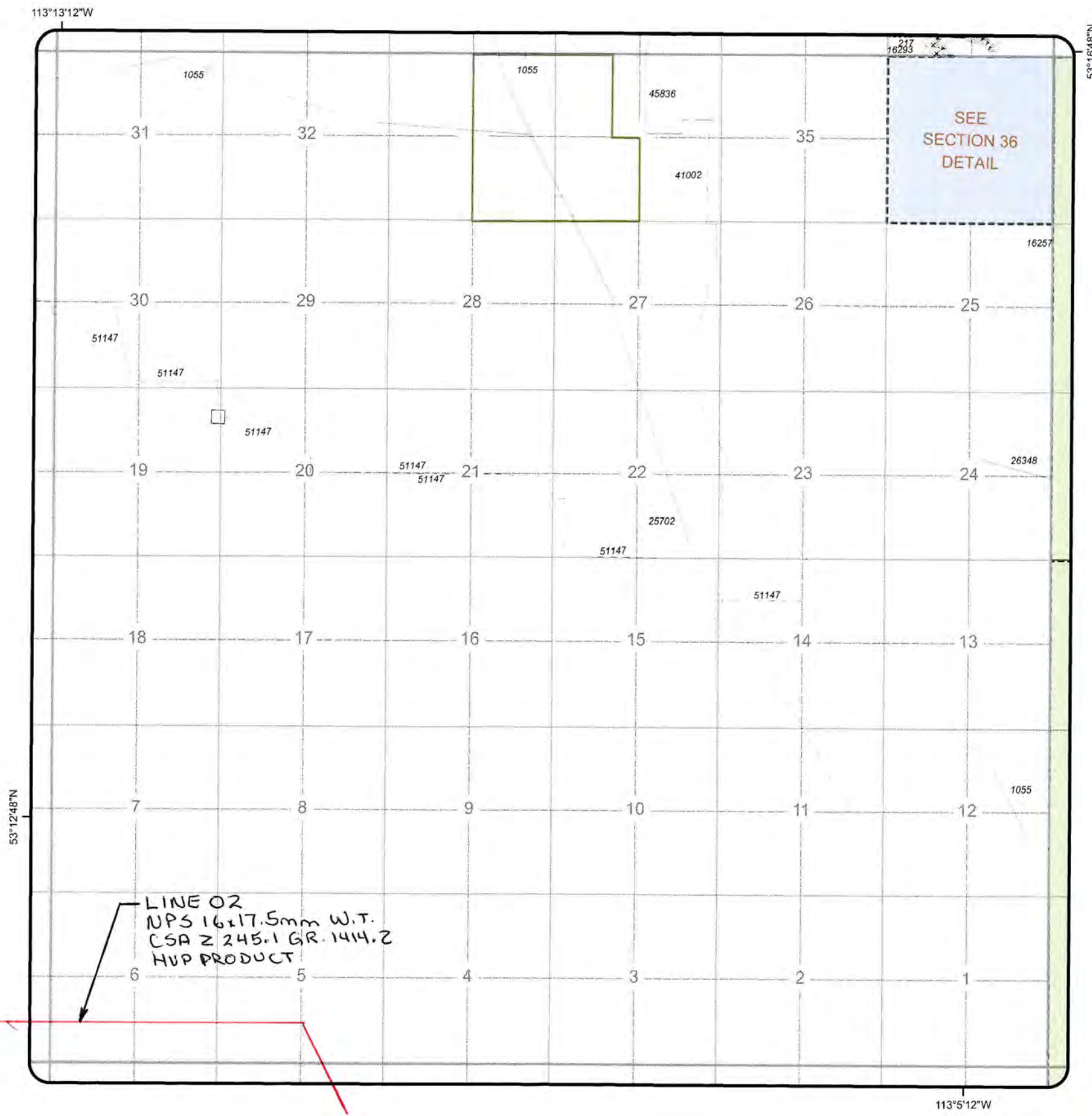
**ALL PIPELINES IN
TWP 048- 22W4**

**REVISION DATE:
27 February 2008**

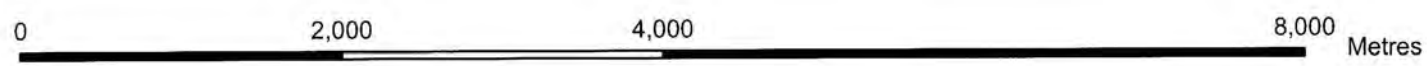
CAUTION
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 CONTACT THE GAS DISTRIBUTOR IN THIS AREA FOR LINE LOCATION

LEGEND

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



LINE 02
 NPS 16x17.5mm W.T.
 CSA Z 245.1 GR. 1414.2
 HVP PRODUCT



Coordinate System: 10TM



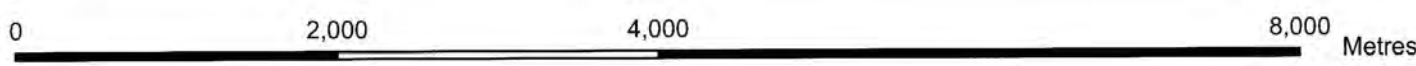
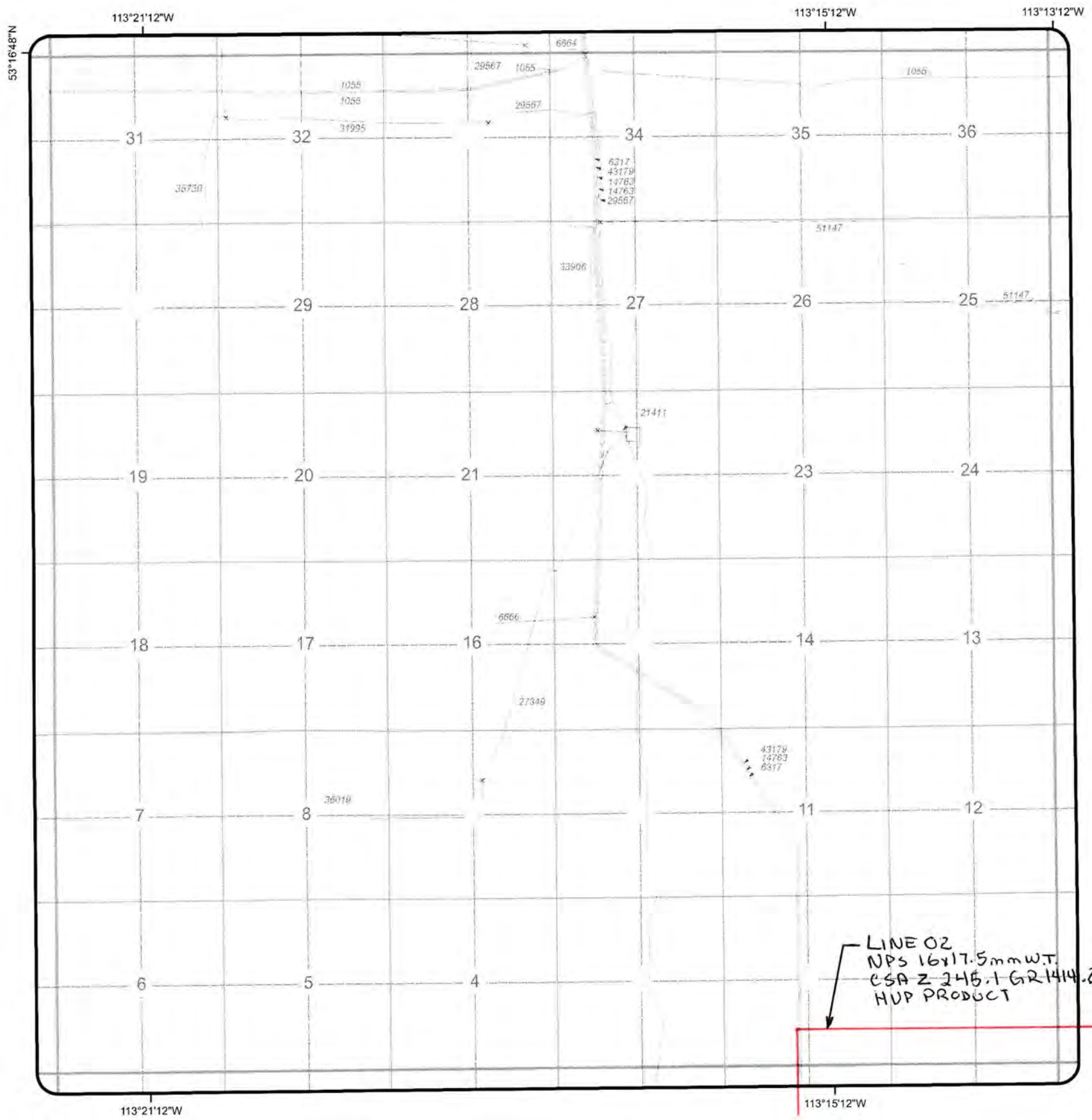
**ALL PIPELINES IN
 TWP 049- 22W4**

**REVISION DATE:
 21 January 2009**

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

LEGEND

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



Coordinate System: 10TM



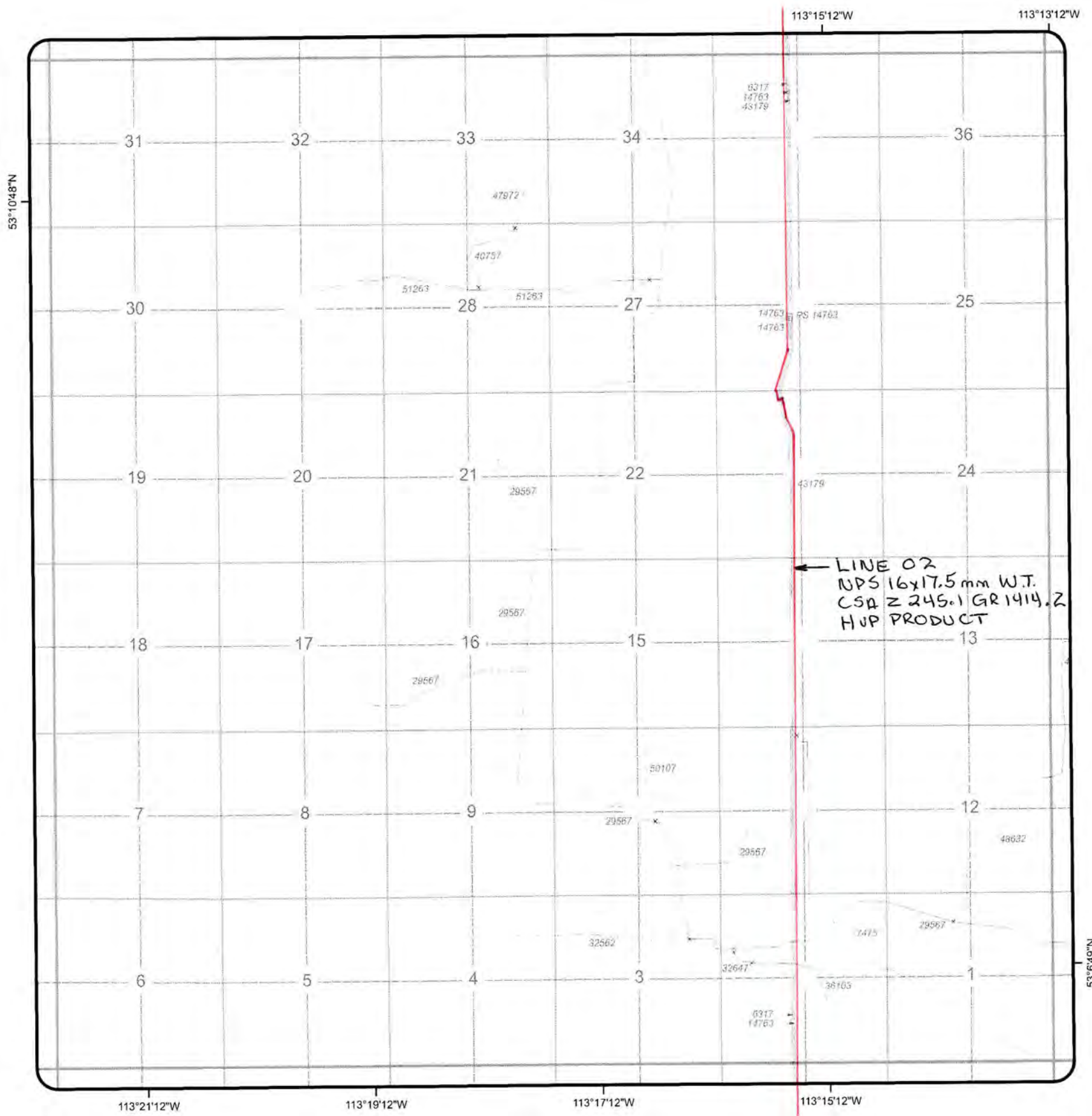
**ALL PIPELINES IN
TWP 049- 23W4**

**REVISION DATE:
21 January 2009**

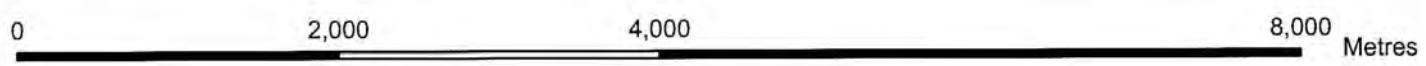
CAUTION
 - THIS PLOT REPRESENTS THE BEST INFORMATION AVAILABLE TO THE BOARD AT THIS TIME.
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 - LOW-PRESSURE GAS DISTRIBUTION LINES ARE NOT SHOWN.
 CONTACT THE GAS DISTRIBUTOR IN THIS AREA FOR LINE LOCATION

LEGEND

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



LINE 02
 NPS 16x17.5 mm W.T.
 CSA Z 245.1 GR 1414.2
 HUP PRODUCT



Coordinate System: 10TM



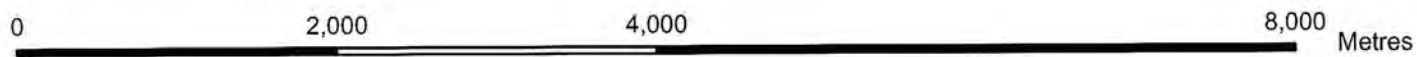
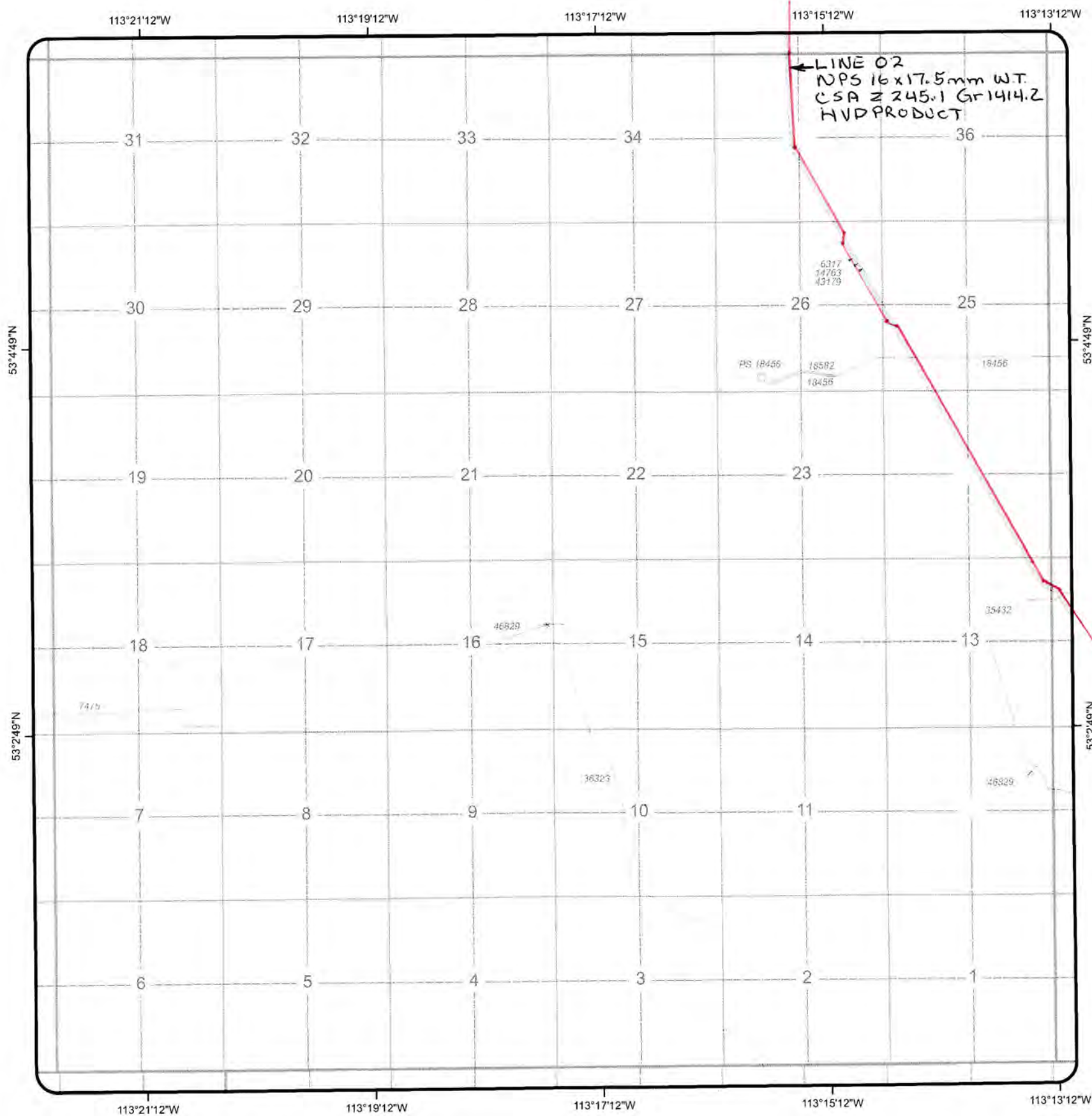
**ALL PIPELINES IN
 TWP 048- 23W4**

**REVISION DATE:
 22 January 2009**

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

LEGEND

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



Coordinate System: 10TM



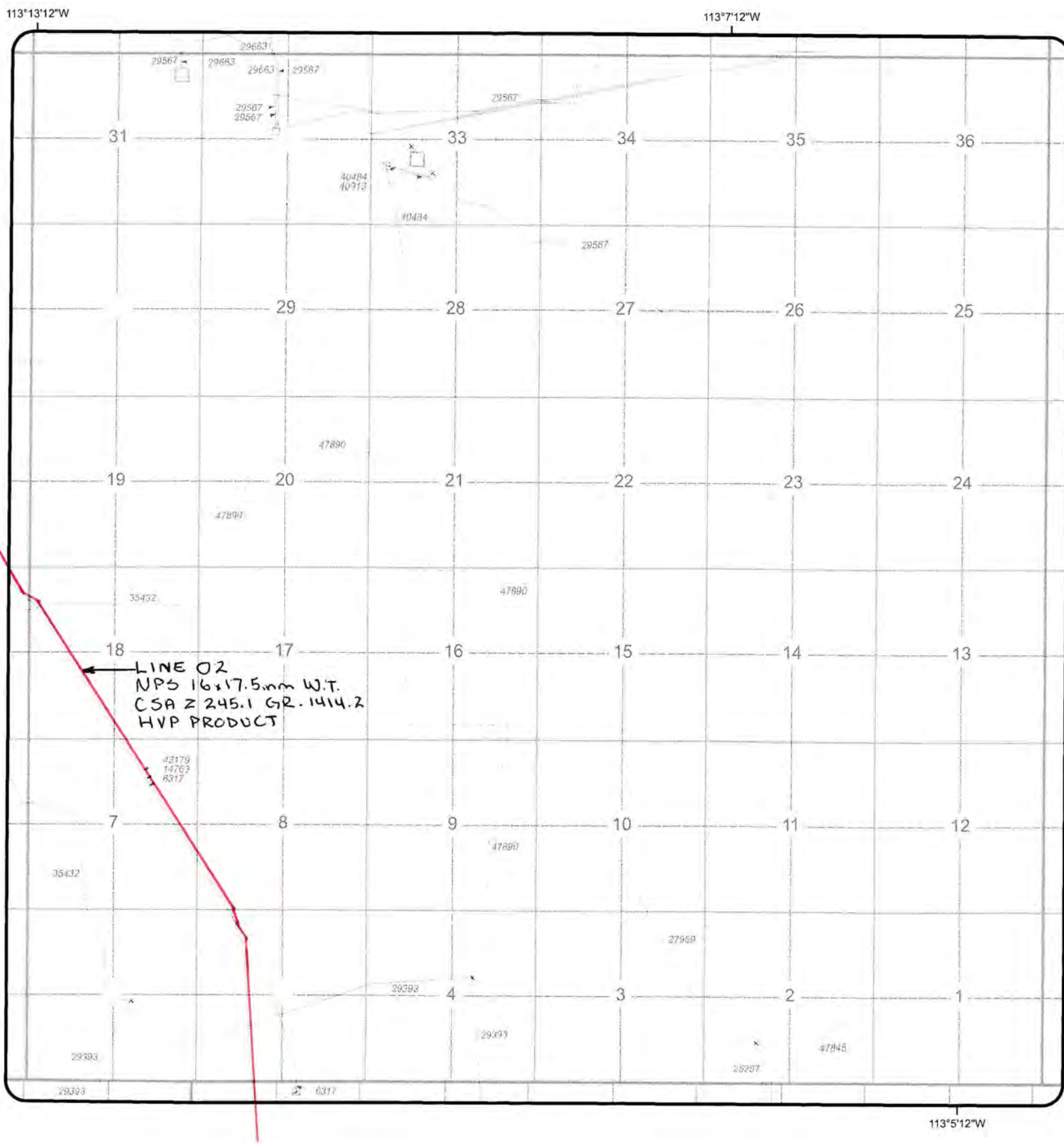
**ALL PIPELINES IN
TWP 047- 23W4**

**REVISION DATE:
27 February 2008**

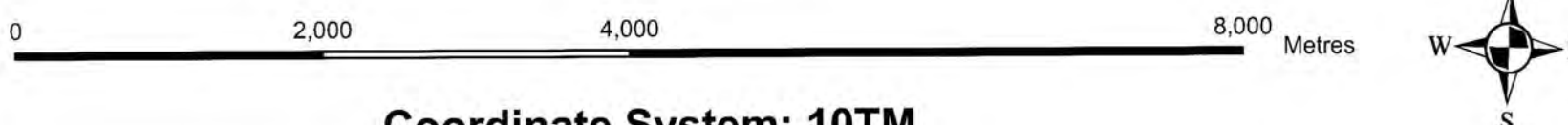
CAUTION
 - THIS PLOT REPRESENTS THE BEST INFORMATION AVAILABLE TO THE BOARD AT THIS TIME.
 - SPECIFIC PIPELINE LOCATIONS SHOULD BE OBTAINED FROM SURVEY PLANS, OWNERS AND FIELD OBSERVATION BEFORE DIGGING.
 - LOW-PRESSURE GAS DISTRIBUTION LINES ARE NOT SHOWN.
 CONTACT THE GAS DISTRIBUTOR IN THIS AREA FOR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

LEGEND

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



LINE 02
 NPS 16x17.5mm W.T.
 CSA Z 245.1 GR. 1414.2
 HVP PRODUCT



Coordinate System: 10TM



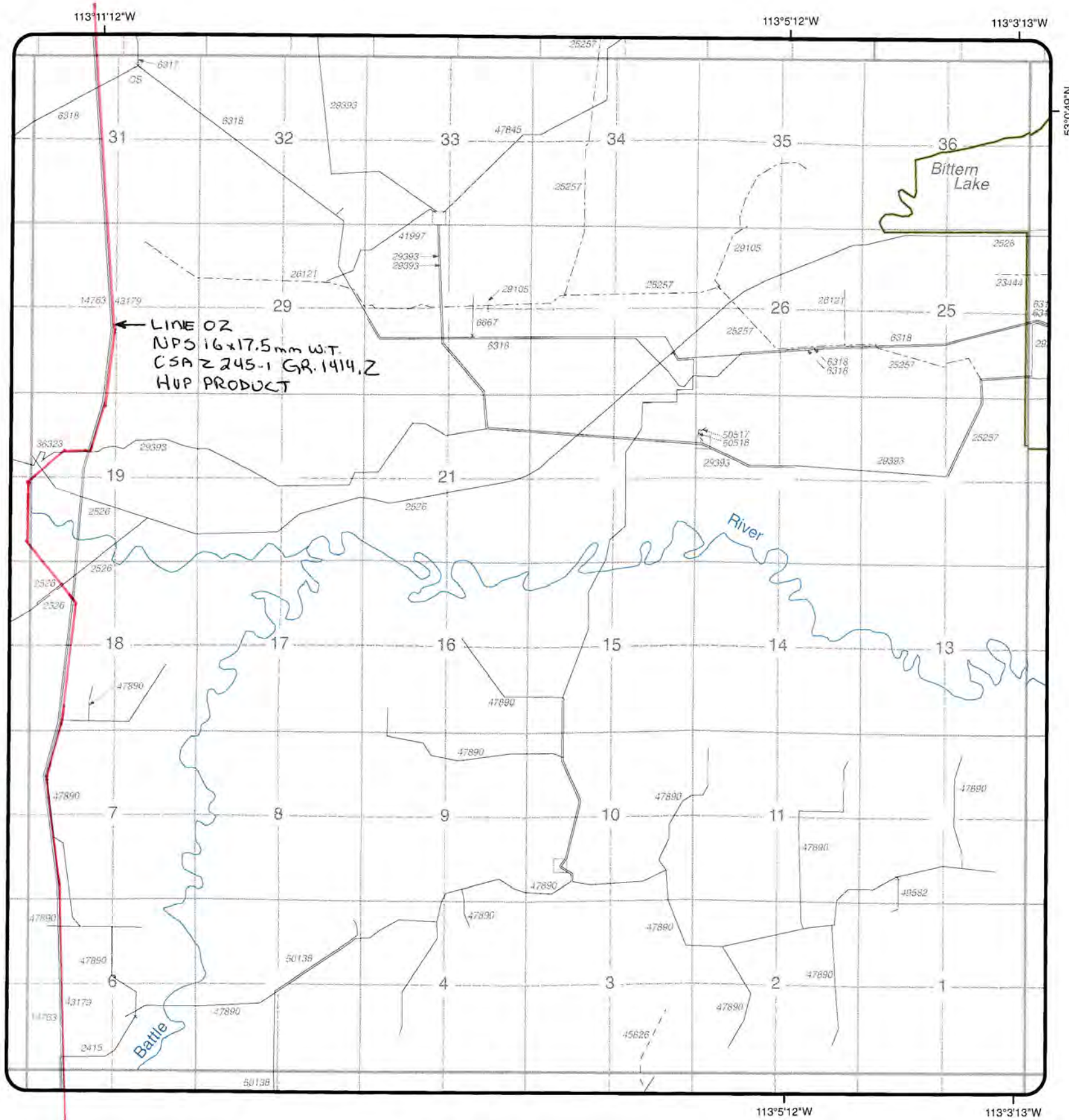
ALL PIPELINES IN
 TWP 047- 22W4

REVISION DATE:
 22 October 2008

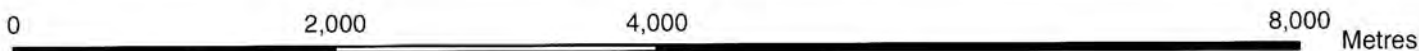
CAUTION
 - THIS PLOT REPRESENTS THE BEST INFORMATION AVAILABLE TO THE BOARD AT THIS TIME.
 - SPECIFIC PIPELINE LOCATIONS SHOULD BE OBTAINED FROM SURVEY PLANS, OWNERS AND FIELD OBSERVATION BEFORE DIGGING.
 - LOW-PRESSURE GAS DISTRIBUTION LINES ARE NOT SHOWN.
 CONTACT THE GAS DISTRIBUTOR IN THIS AREA FOR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

LEGEND

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



← LINE OZ
 NPS 16x17.5mm W.T.
 CSA Z 245-1 GR. 1414, 2
 HUP PRODUCT



Coordinate System: 10TM



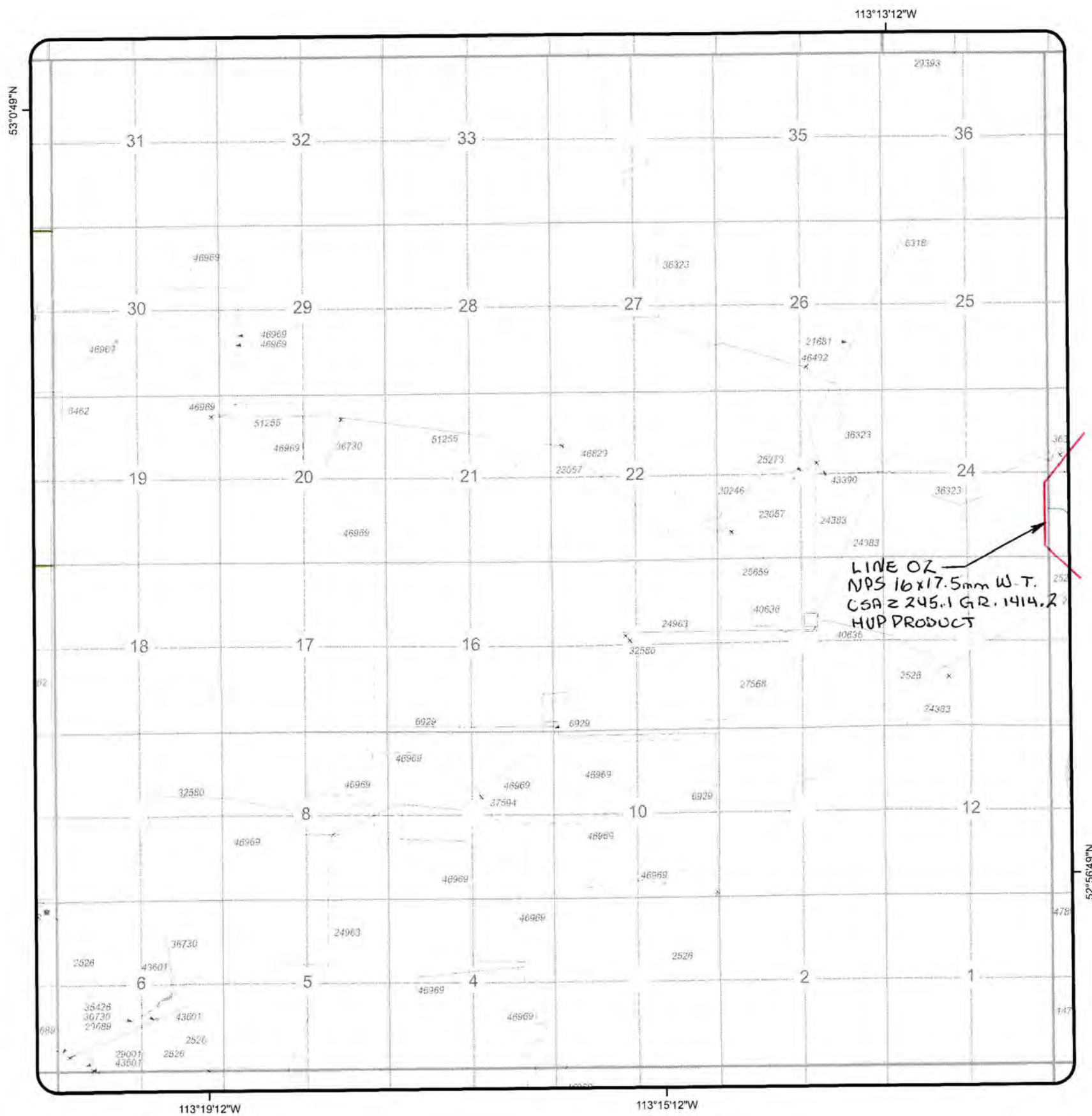
**ALL PIPELINES IN
 TWP 046- 22W4**

**REVISION DATE:
 28 January 2009**

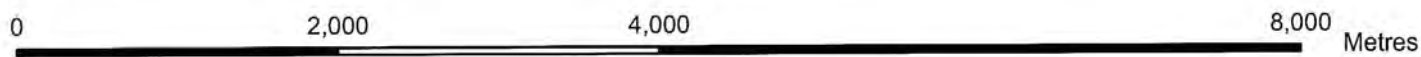
LEGEND

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

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



LINE 02
 NPS 16x17.5mm W.T.
 CSA Z 245.1 GR. 1414.2
 HUP PRODUCT



Coordinate System: 10TM



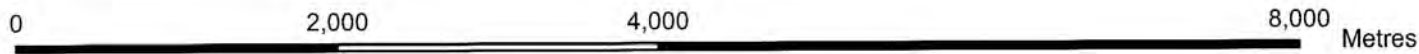
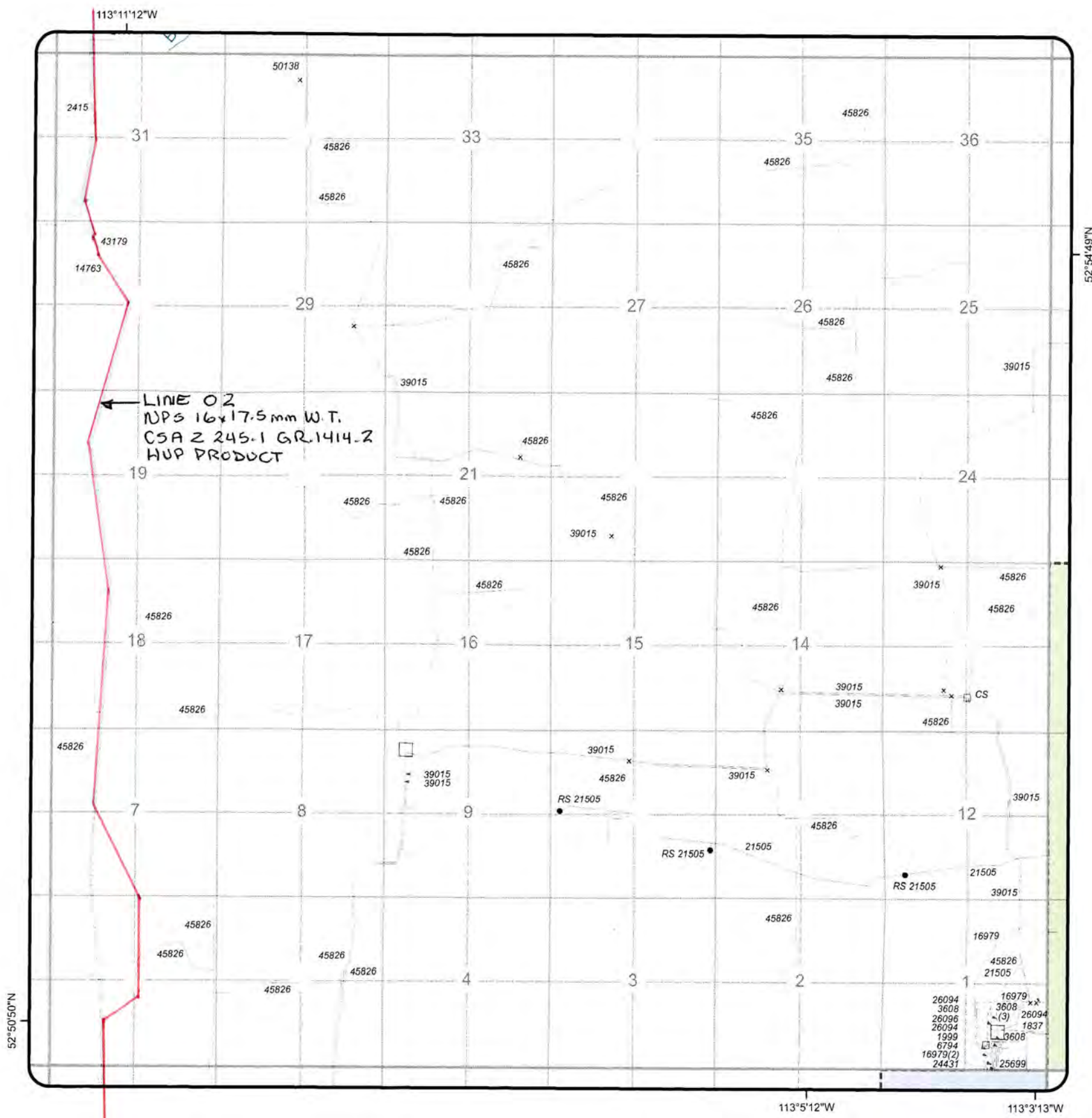
**ALL PIPELINES IN
 TWP 046- 23W4**

**REVISION DATE:
 20 January 2009**

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

LEGEND

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



Coordinate System: 10TM



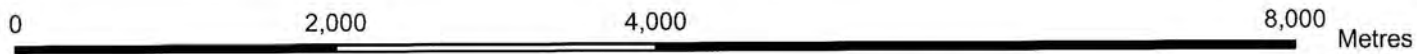
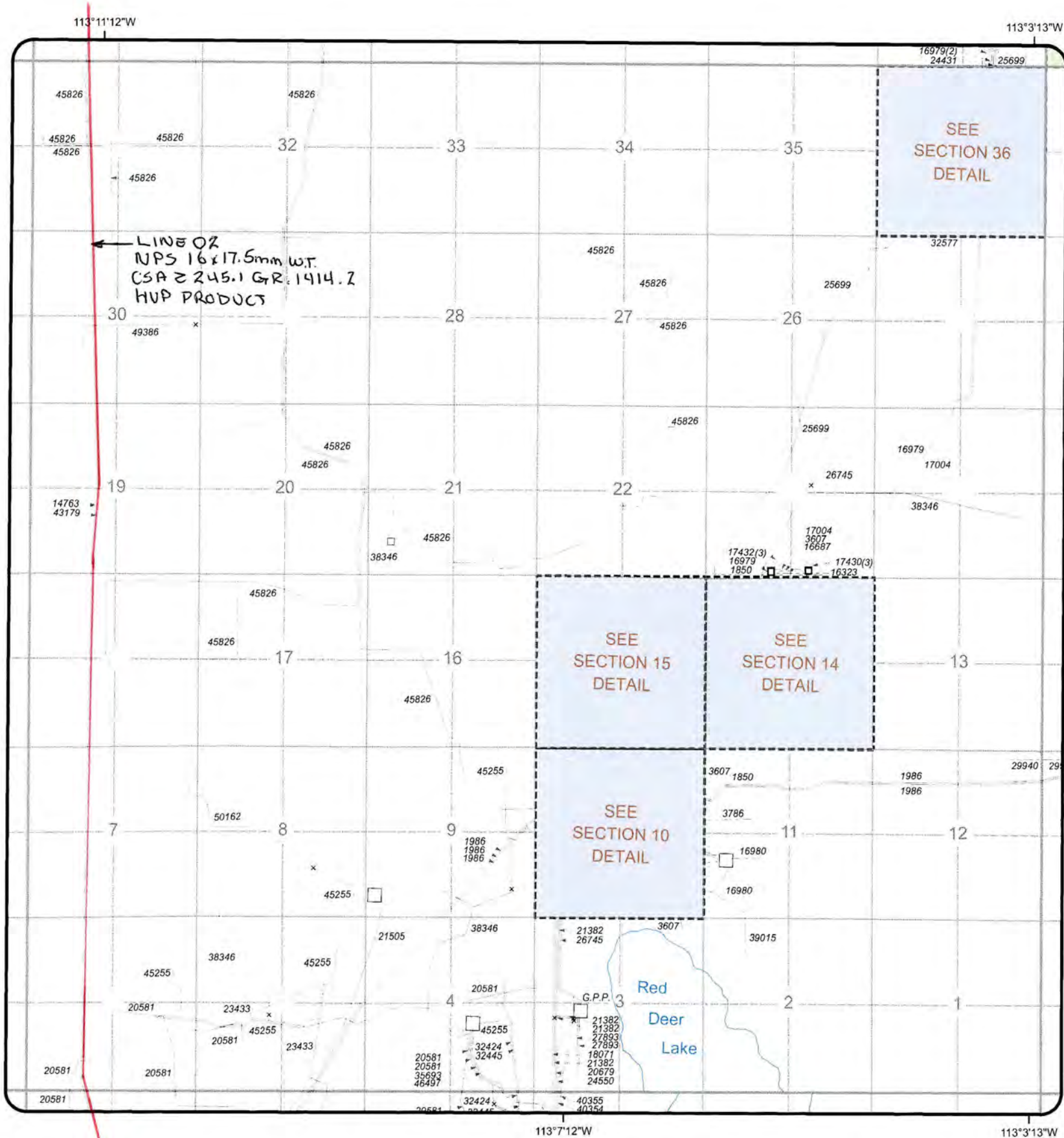
**ALL PIPELINES IN
TWP 045- 22W4**

**REVISION DATE:
28 January 2009**

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

LEGEND

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



Coordinate System: 10TM



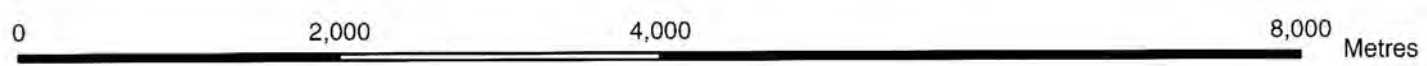
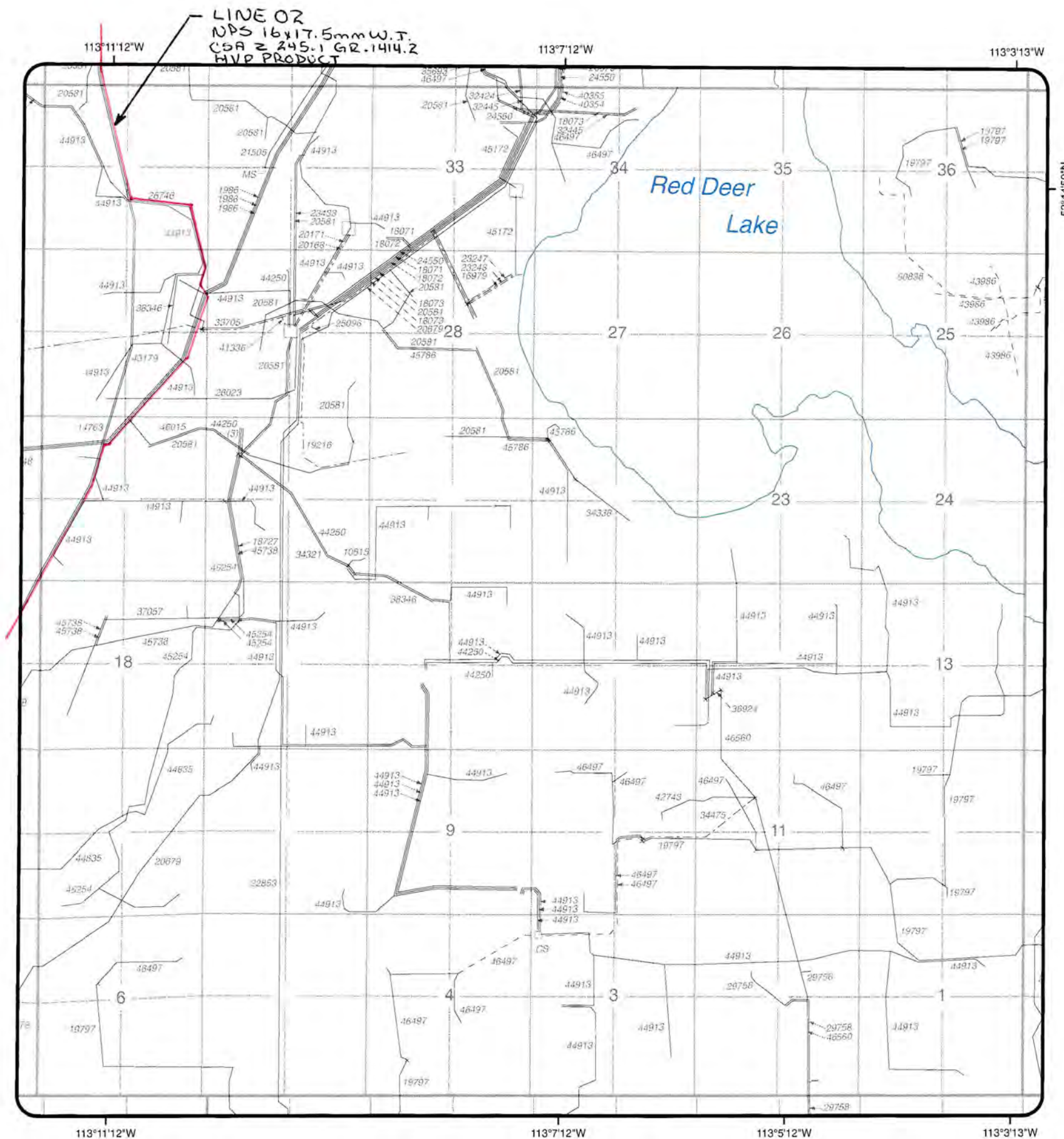
**ALL PIPELINES IN
TWP 044- 22W4**

**REVISION DATE:
03 February 2009**

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

LEGEND

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



Coordinate System: 10TM



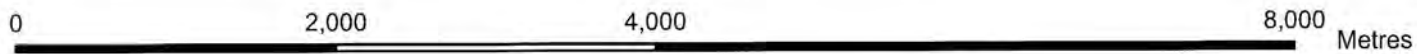
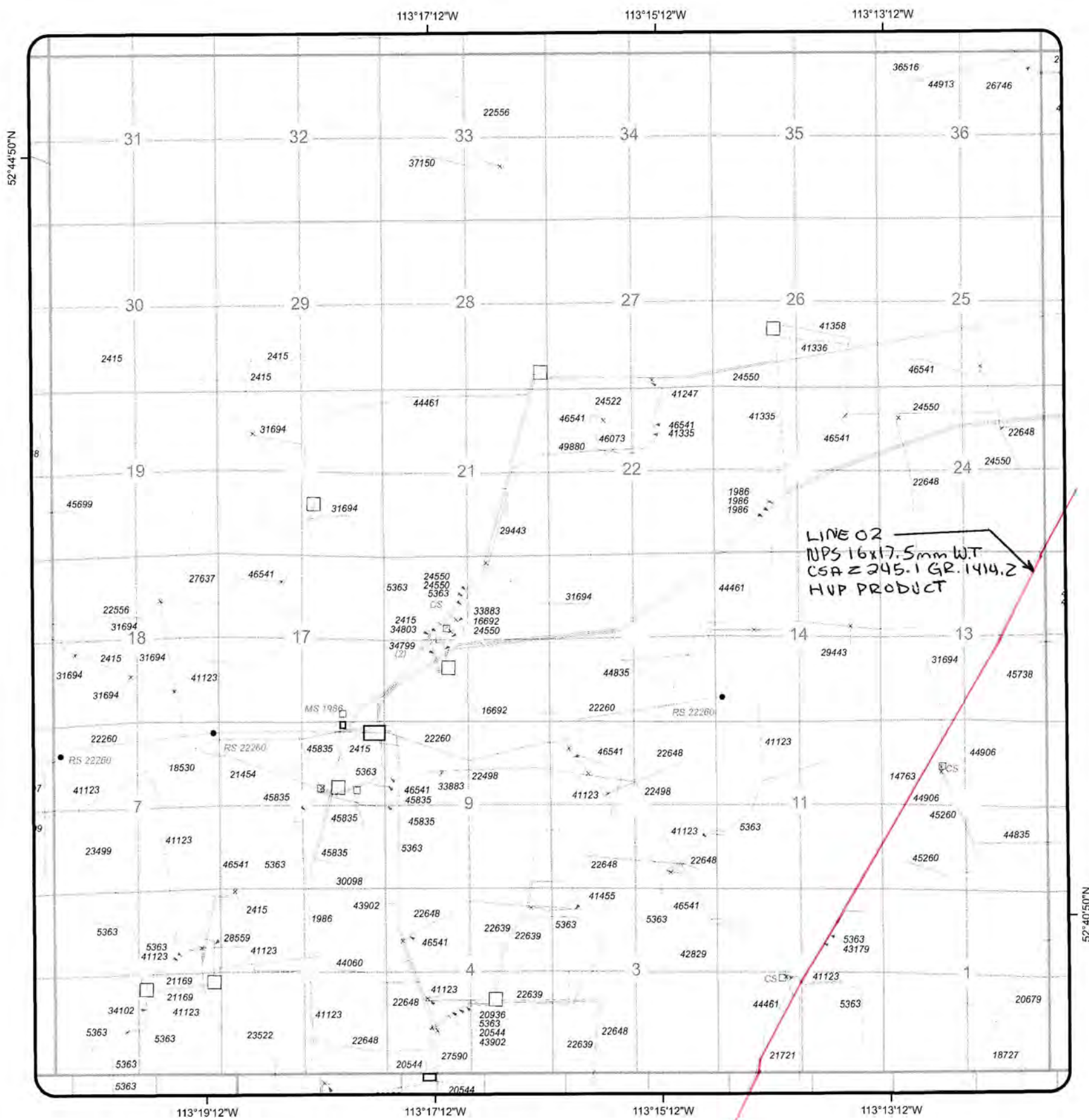
**ALL PIPELINES IN
TWP 043- 22W4**

**REVISION DATE:
27 January 2009**

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

LEGEND

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



Coordinate System: 10TM



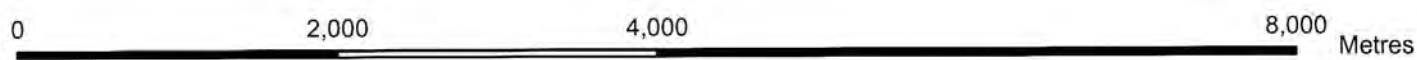
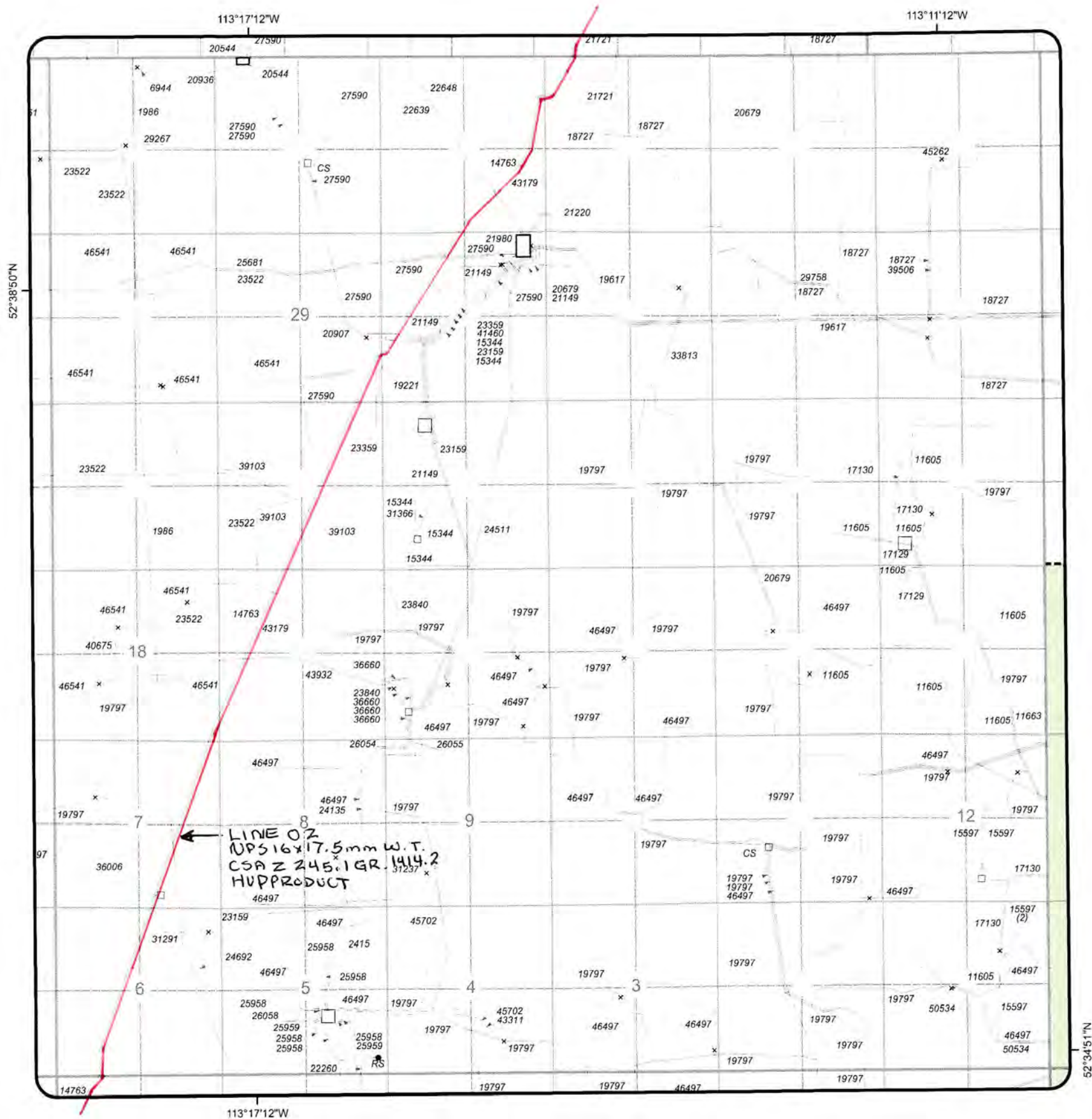
**ALL PIPELINES IN
TWP 043- 23W4**

**REVISION DATE:
12 February 2009**

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

LEGEND

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



Coordinate System: 10TM



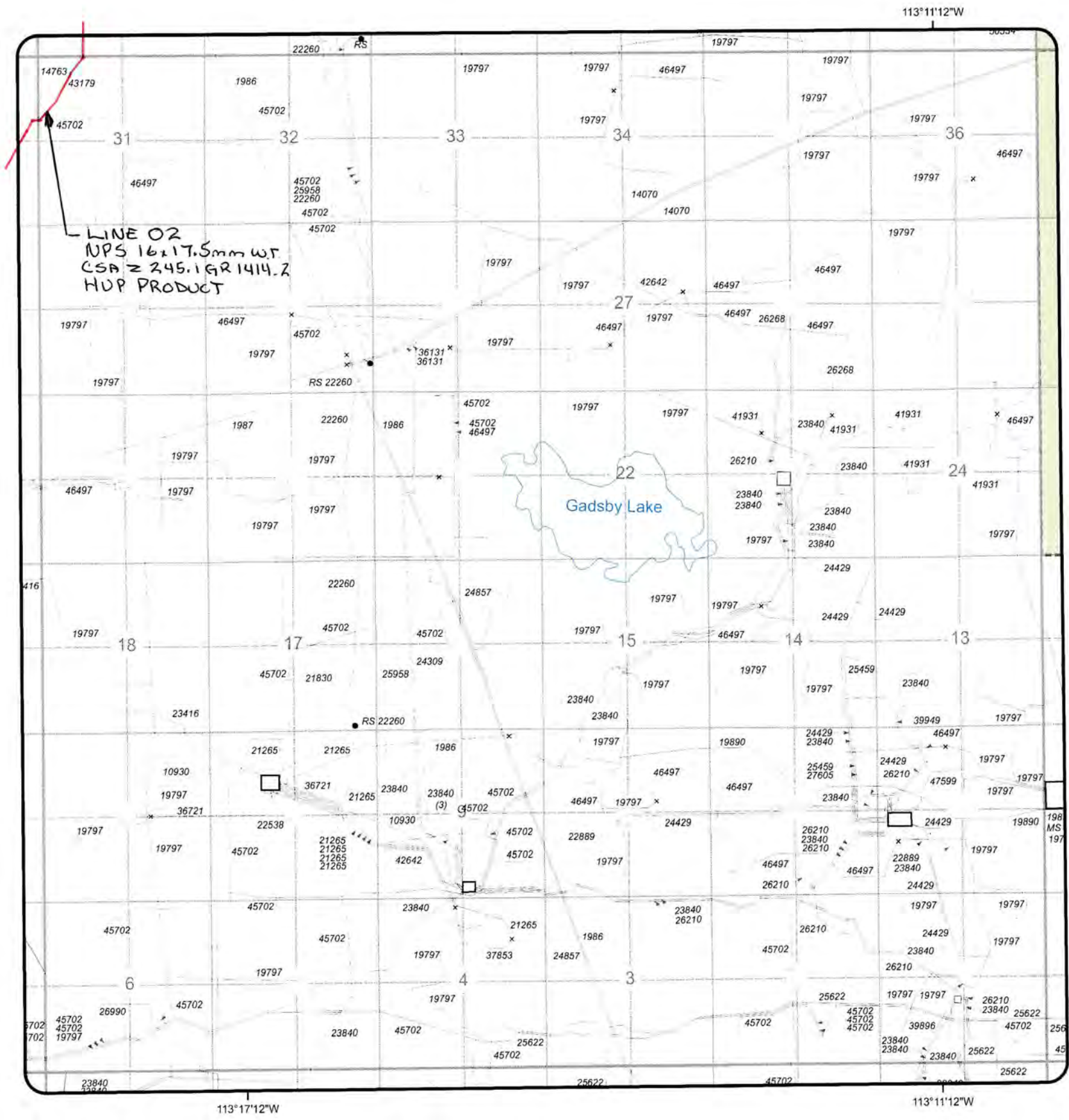
**ALL PIPELINES IN
TWP 042- 23W4**

**REVISION DATE:
12 February 2009**

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

LEGEND

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



Coordinate System: 10TM



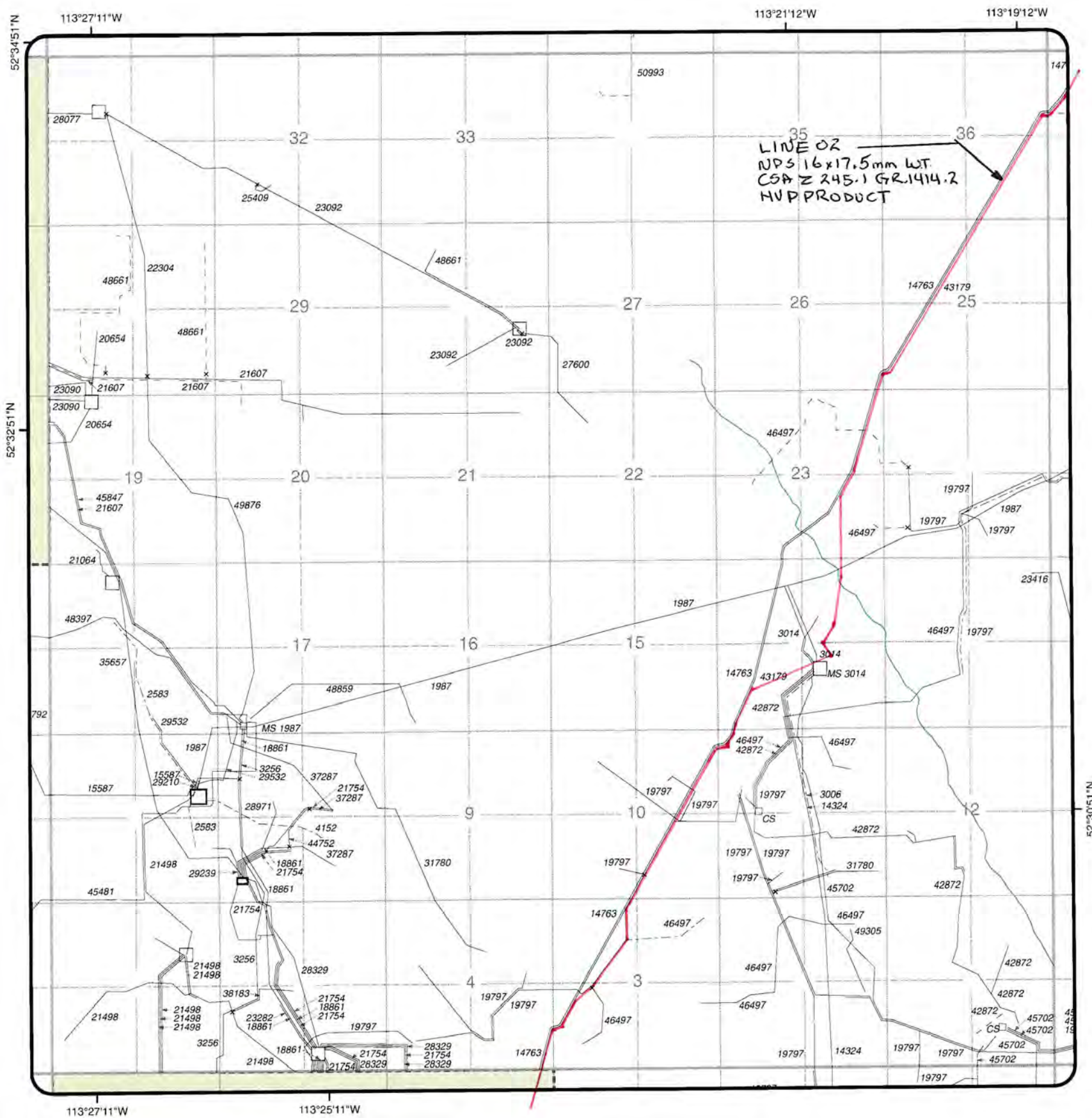
**ALL PIPELINES IN
TWP 041- 23W4**

**REVISION DATE:
09 February 2009**

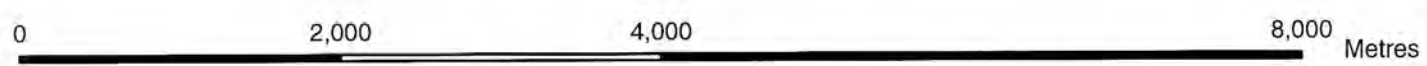
CAUTION
 - THIS PLOT REPRESENTS THE BEST INFORMATION AVAILABLE TO THE BOARD AT THIS TIME.
 - SPECIFIC PIPELINE LOCATIONS SHOULD BE OBTAINED FROM SURVEY PLANS, OWNERS AND FIELD OBSERVATION BEFORE DIGGING.
 - LOW-PRESSURE GAS DISTRIBUTION LINES ARE NOT SHOWN.
 CONTACT THE GAS DISTRIBUTOR IN THIS AREA FOR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

LEGEND

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



LINE OR
 NPS 16x17.5mm WT
 CSA Z 245.1 GR.1414.2
 HVP PRODUCT



Coordinate System: 10TM



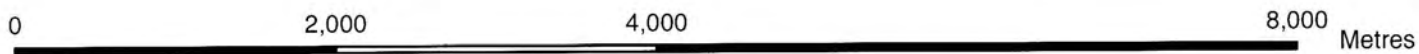
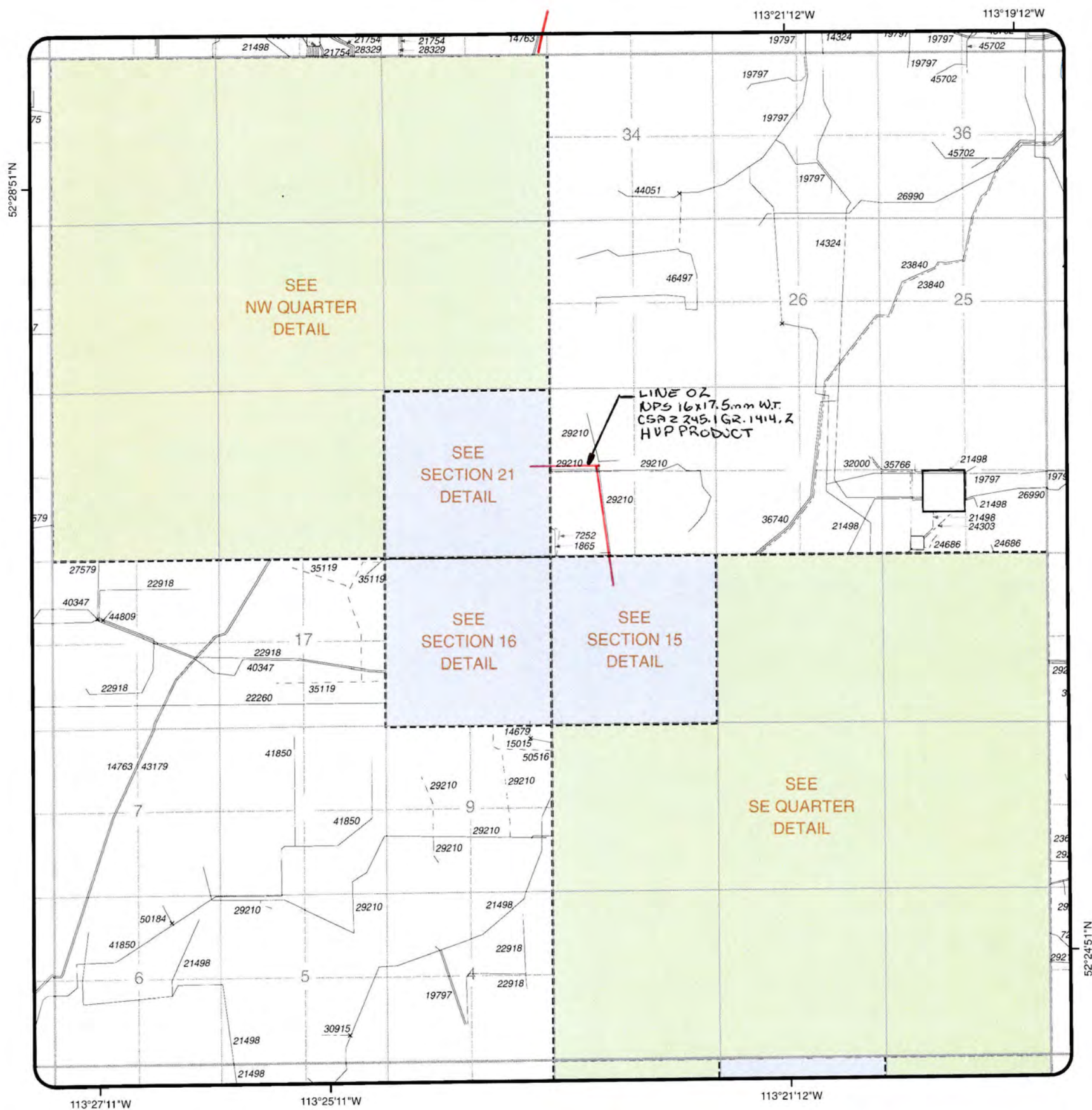
**ALL PIPELINES IN
 TWP 041- 24W4**

**REVISION DATE:
 27 January 2009**

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

LEGEND

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



Coordinate System: 10TM



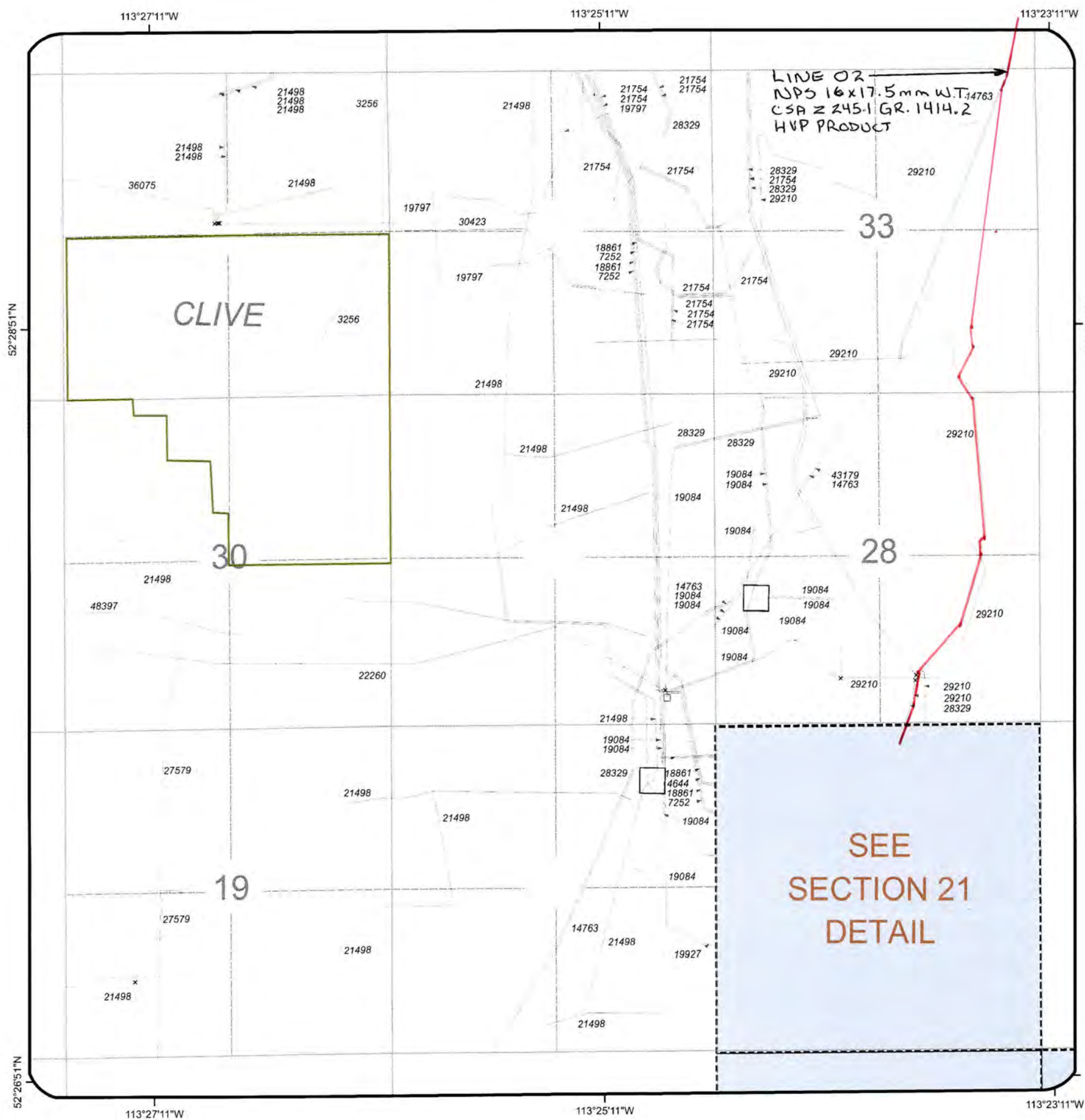
**ALL PIPELINES IN
TWP 040- 24W4**

**REVISION DATE:
06 February 2009**

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

LEGEND

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



Coordinate System: 10TM



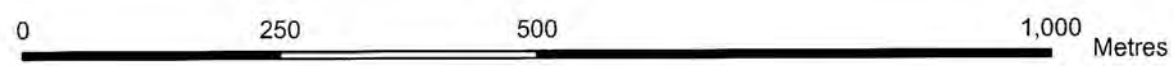
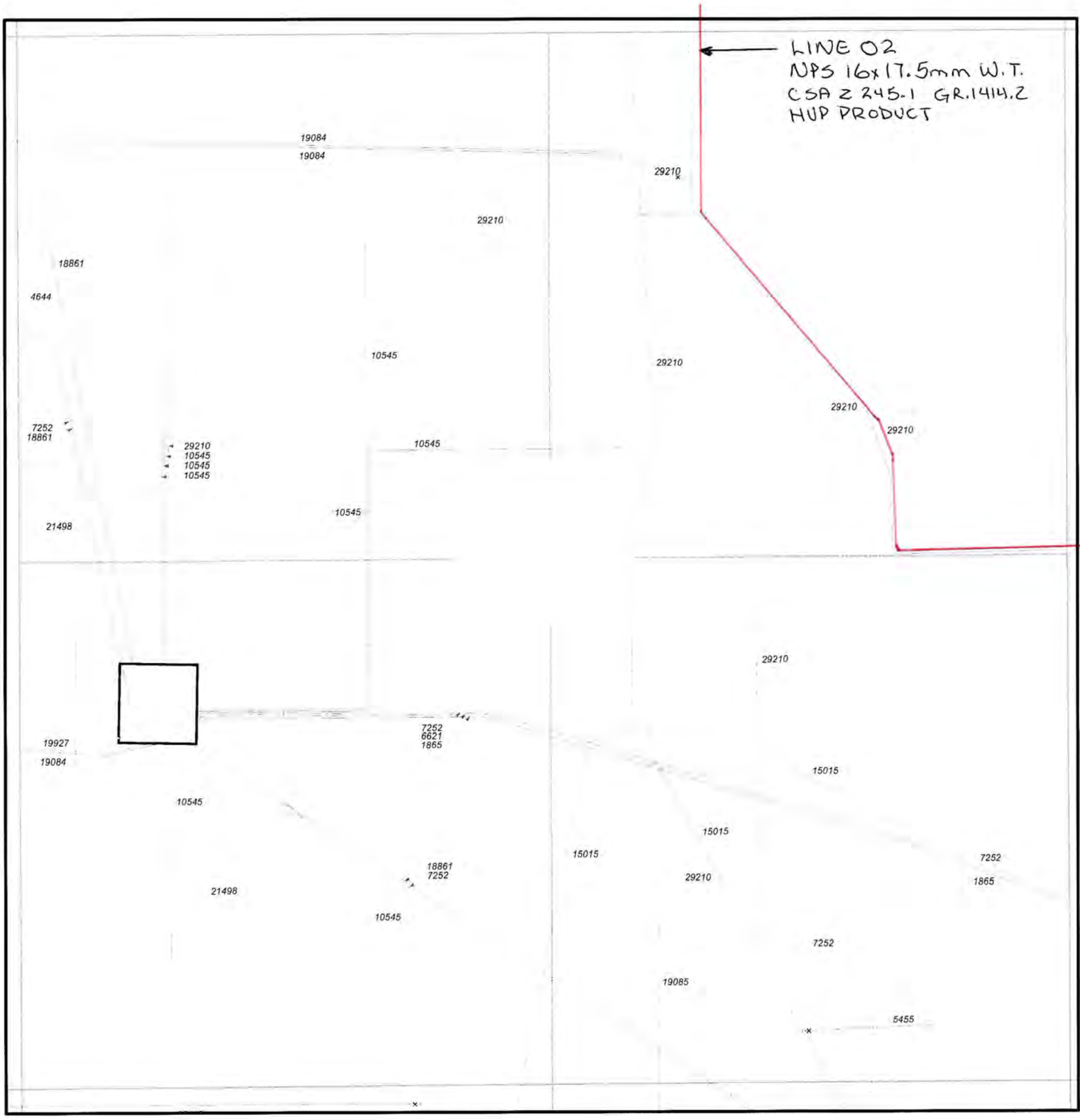
**ALL PIPELINES IN
NW . 040- 24W4**

**REVISION DATE:
04 September 2008**

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

LEGEND

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



Coordinate System: 10TM



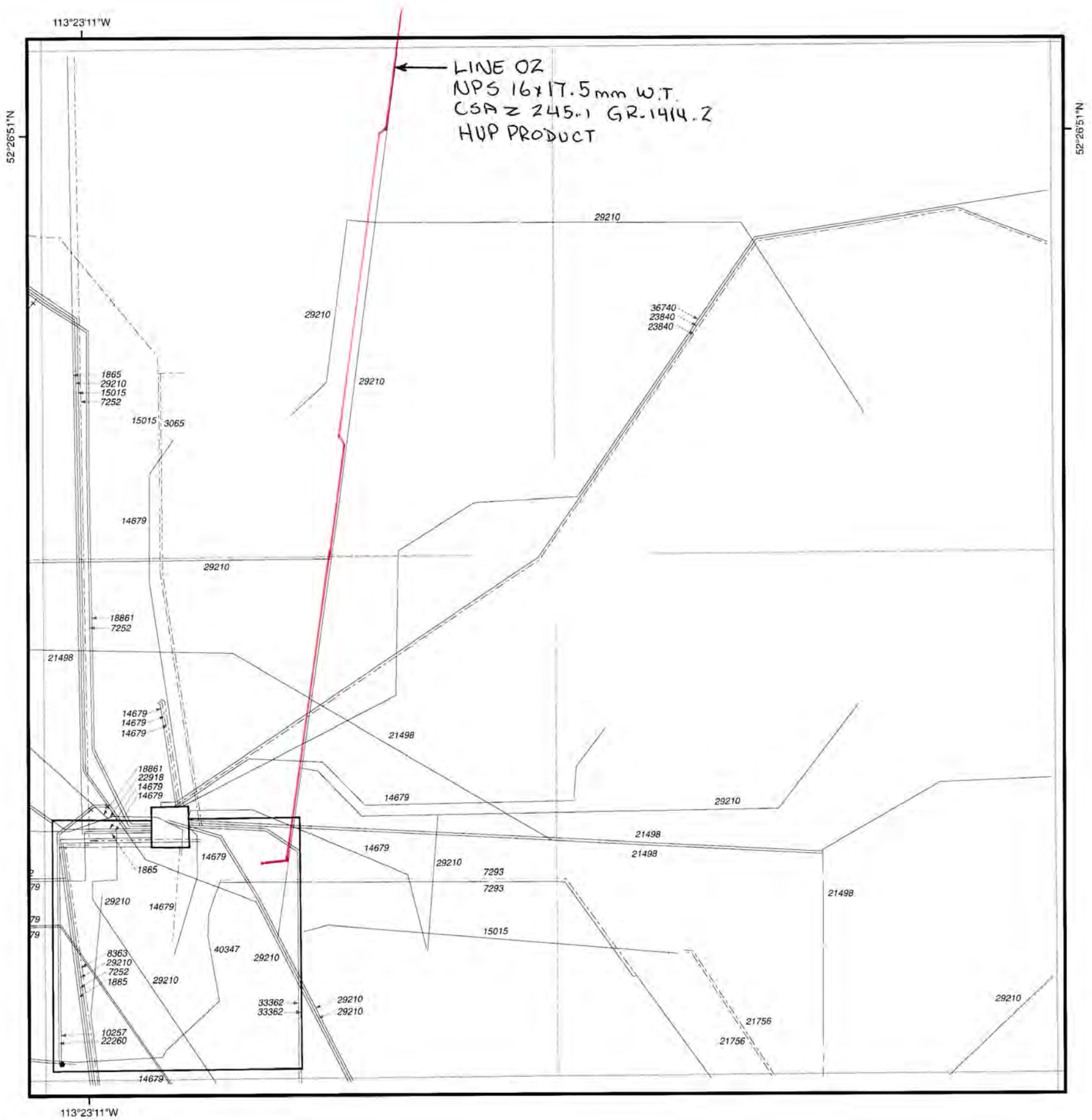
**ALL PIPELINES IN
SEC 21 TWP 040- 24W4**

**REVISION DATE:
04 September 2008**

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

LEGEND

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



Coordinate System: 10TM



**ALL PIPELINES IN
SEC 15 TWP 040- 24W4**

**REVISION DATE:
27 February 2008**

CAUTION
 - THIS PLOT REPRESENTS THE BEST INFORMATION AVAILABLE TO THE BOARD AT THIS TIME.
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 - LOW-PRESSURE GAS DISTRIBUTION LINES ARE NOT SHOWN.
 CONTACT THE GAS DISTRIBUTOR IN THIS AREA FOR LINE LOCATION

LEGEND

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

Enhance Energy Inc. and North West Redwater Partnership

APPENDIX viii ACTL Block Valve Schematic



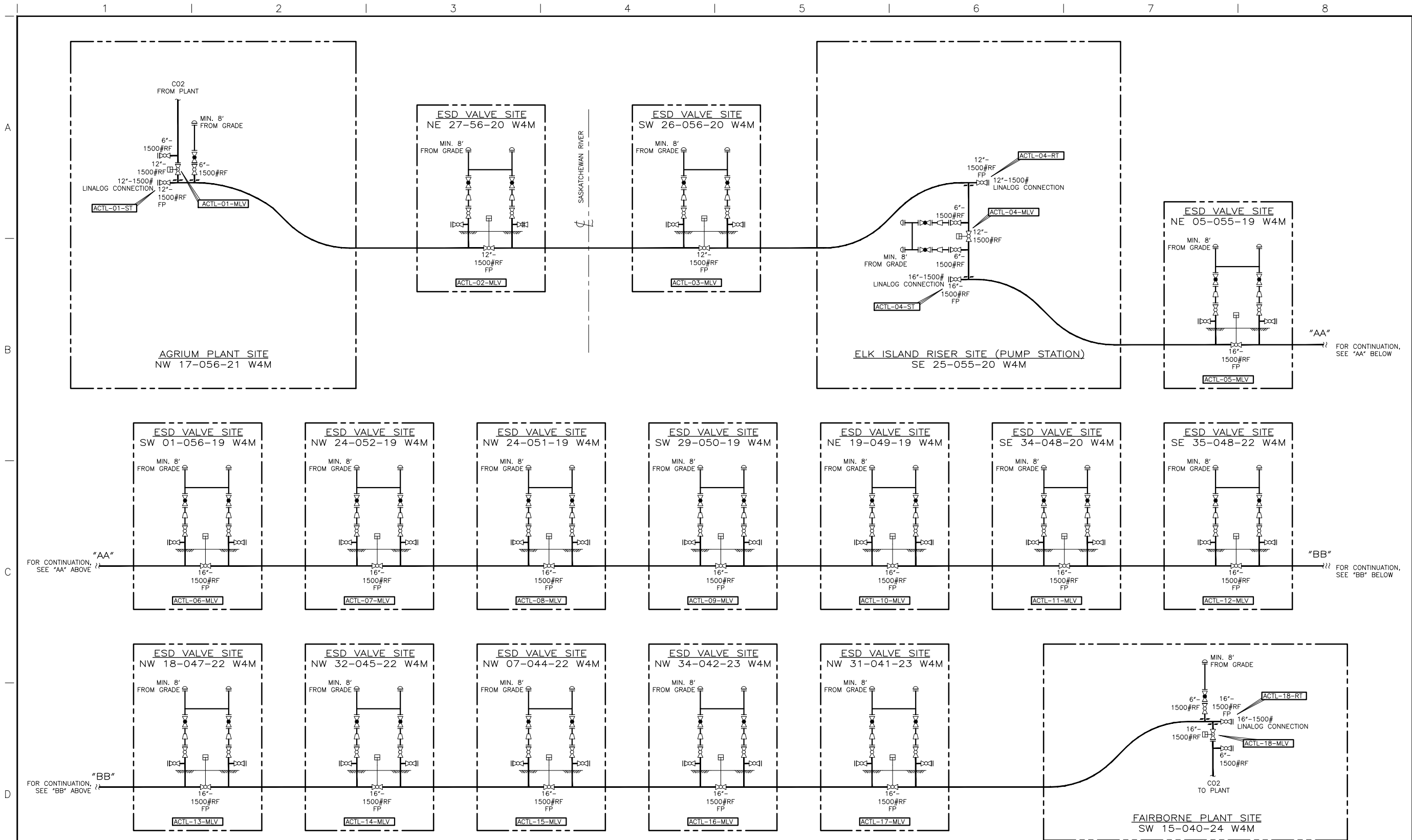
Sun Ray Reflection, by Mathew Wong, a local Alberta painter



ACTL

**Government
of Alberta** ■





REFERENCE DRAWINGS	DWG. NO.	NO.	DATE	PROJECT DESCRIPTION	PROJ.	BY	APPD.

ISSUE STAGE	DATE	BY	CHKD.	APPD.
A - ISSUED FOR REVIEW	11-02-11	RSN	SAW	

ENGINEER'S STAMP

PERMIT No. P10437

PROFESSIONAL STAMP AFFIXED ABOVE SHALL APPLY ONLY TO REV(S) 0

S.A.W. ENGINEERING LTD.

ENHANCE ENERGY INC.

SITE TYPE: CO2 TRUNKLINES

MAIN L.S.D.: -

SCALE: NONE

EPDM No.: SAW-11-004

TITLE: CO2 TRUNKLINES SYSTEM SCHEMATIC

AREA: ALBERTA

FILE NO.: 11-004-SCH-0001