1 2 3 4 5 6 7 8 9 0

A B C

TK-211
FIBERGLASS WATER TANK
780 BBL

TK-212
FIBERGLASS WATER TANK
780 BBL

P-400A
CHARGE PUMP
MAKE;GRUNDFOS
MODEL: CRN45-2
220 USGPM @ 75PSI
316SS CONTRUCTION
15HP 575/3/60VOLT TEFC MOTOR

F-400A
SS 6 BAG WATER FILTER
MAKE: PECO
MODEL NO.: FS-1080-316SS-4F
CAP 300 GPM
MAWP: 150 PSI @ 225'F
FILTER: 5 MIL NOMINAL

F-401A
SS 6 BAG WATER FILTER
MAKE: PECO
FS-1080-316SS-4F
CAP 300 GPM
MAWP: 150 PSI @ 225'F
FILTER: 5 MIL NOMINAL

F-410A
SS 6 BAG WATER FILTER
MAKE: PECO
MODEL NO.: FS-1080-316SS-4F
CAP 300 GPM
MAWP: 150 PSI @ 225'F
FILTER: 1 MIL NOMINAL

F-411A
SS 6 BAG WATER FILTER
MAKE: PECO
MODEL NO.: FS-1080-316SS-4F
CAP 300 GPM
MAWP: 150 PSI @ 225'F
FILTER: 1 MIL NOMINAL

F-420A
SS CARTRIDGE WATER FILTER
MAKE: PECO
MODEL NO.: 36RX3H-316SS-4F
CAP 720 GPM
MAWP: 150 PSI @ 225'F
FILTER: 0.5 MIL NOMINAL

P-410A
WATER INJECTION PUMP
VENDOR: GARDNER DENVER
MODEL: GD-100T
CAPACITY: 340-680 m3/day
DRIVER: 100 HP TEFC
DP:1200 RPM, 575V/3P/60Hz
PISTON SIZE: 2 3/4

4" FRP VAPOUR
2-24-10-29-PFD-1000
TO FLARE

PVRV 211
PVRV 212
TK-211
WATER TANK
TK-212
WATER TANK
EQUALIZATION
168
600#
Z662 B31.3
CSA ASME
FG CS
M FE 211
211 ESDV
ESD 212
ESDV 212
TRUCK-OUT
SECONDARY CONTAINMENT

P-400A
CHARGE PUMP
P-400B
CHARGE PUMP
P-400C
CHARGE PUMP
F 400A
F 401A
F 410A
F 411A
F 420A
F 400B
F 401B
F 410B
F 411B
F 420B
FCV 420
P-400 FILETER BUILDING

PLUNGER PUMP P-410A
P-410B PLUNGER PUMP
PSV 410A
PSV 410B
FE 410
M
P-420 PUMP BUILDING

B-4000 SOURCE WELL
2-25-10-29W1M
FE 4000
4" 1500# FLEXPIPE
INJECTION
2-25-10-29 W1M
B31.3 ASME CX API
2662 B31.3 CSA FG CX
FUTURE WELL
SECONDARY CONTAINMENT EXTENTS

B-4100 INJECTION WELLS
FE 4100
FCV 4100
ESD 4100
ESDV 4100
2662 B31.3 CSA CX
B31.3 ASME API CX
WELL
SECONDARY CONTAINMENT EXTENTS
2" 2000# STAR
WATER INJECTION WELL

168
600#
Z662 B31.3 CSA FG CS
4" 2000# STAR
4-28-10-29 W1M
WATER INJECTION WELL
4" 2000# STAR
1-35-10-29W1M
WATER INJECTION WELL'S
4" 2000# STAR
7-30-10-28W1M
WATER INJECTION WELL'S
4" 2000# STAR
16-35-9-29W1M
WATER INJECTION WELL'S

STREAM NUMBER		1		2		3		4		5		6		7		8	9	10		·	
COMPONENT		OPER.	DESIGN	OPER.	DESIGN	OPER.	DESIGN	OPER.	DESIGN	OPER.	DESIGN	OPER.	DESIGN	OPER.	DESIGN	OPER.	DESIGN	OPER.	DESIGN	OPER.	DESIGN
OIL	m^3/DAY	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–				
WATER	m^3/DAY	400	1200	400	1200	400	2400	400	2400	400	2400	400	2400	400	2400	400	1200				
PROD. EMULSION	m^3/DAY	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–				
PROD. GAS	$10^3 m^3$/DAY	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–				
PRESSURE	PSI	300	740	30	740	30	740	10	100	30	100	1050	1480	10	100	1050	1480				
TEMPERATURE	°C	10	37	10	37	10	37	10	37	10	37	10	37	10	37	10	37				
LINE SIZE	in.	4		4		4		8		6		4		3		3					

REV	DESCRIPTION	BY	DATE	CHK	APP
0	ISSUED FOR CONSTRUCTION	JC	30MAY2013	BE	–

REFERENCE DRAWING
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NOTES:

TUNDRA OIL & GAS PARTNERSHIP

PROCESS FLOW DIAGRAM
12-24-10-29W1M

PROCESS FLOW DIAGRAM 4 OF 4
INJECTION SYSTEM

DRAWN BY:	SCALE:	AFE:	DRAWING NUMBER:	REV NO.
RM	NTS		12-24-10-29-PFD-1400	0

Figure 8