

GENERAL NOTES

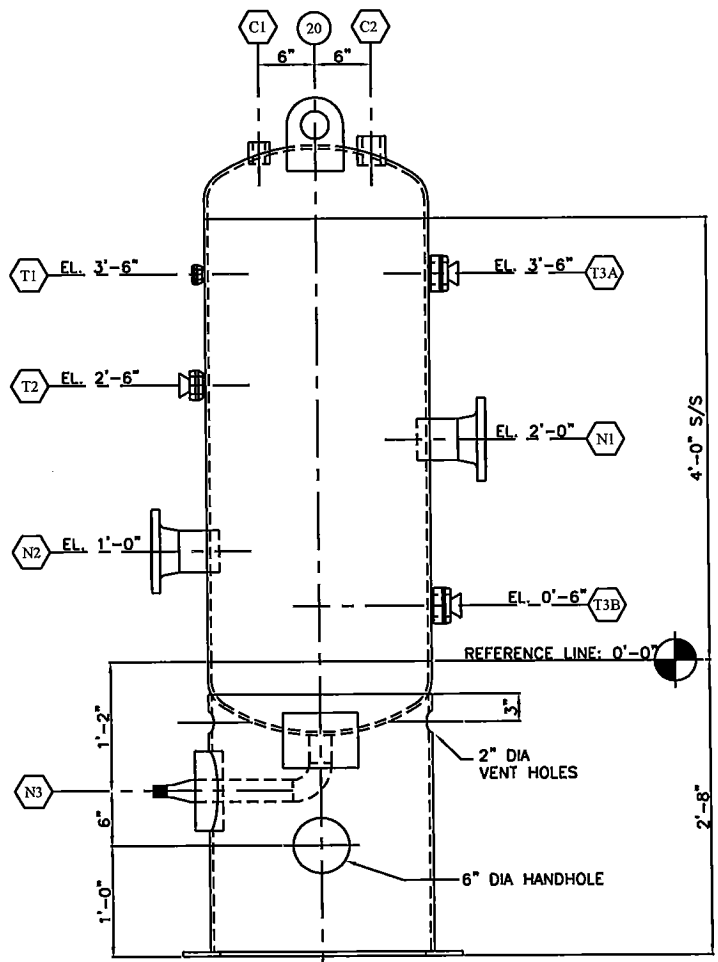
- 1. QUALITY CONTROL PROGRAM NUMBER: AQP-1317(S)
- 2. WELDING PROCEDURE REGISTRATION NUMBER: WP1970.2
- 3. MAGNETIC PARTICLE TESTING:
  - ALL EXTERNAL FILLET WELDS
- 4. HEAD MATERIAL: SA-516-70N
- 5. FLANGE MATERIAL: SA-105-N
- 6. PIPE & SHELL MATERIAL: SA-106-B
- 7. PLATE MATERIAL: SA-36
- 8. BOLTING MATERIAL: SA-193-B7M/SA-194-2HM
- 9. EXTERNAL SANDBLAST: SSPC-SP6 (COMMERCIAL)
- 10. EXTERNAL COATING:
  - PRIME: ONE (1) COAT SHOP PRIMER
  - FINISH: ONE (1) COAT INDUSTRIAL ENAMEL (WARM GREY)
- 11. ALL BOLT HOLES TO STRADDLE CENTERLINE
- 12. ALL OPENINGS TO BE COVERED PRIOR TO SHIPPING
- 13. ALL OUTSIDE PROJECTIONS ARE TO BE MEASURED ALONG THE CENTERLINE OF THE NOZZLE
- 14. ALL INSIDE PROJECTIONS ARE TO BE MEASURED ON THE SHORT SIDE OF THE NOZZLE
- 15. FABRICATION TOLERANCES AS PER BILTON DRAWING NUMBER TOL2002
- 16. HOLE IN SHELL SIZES
  - 3/4" TOL: 3/4" DIA HOLE
  - 1 1/2" TOL: 1 1/2" DIA HOLE
  - 2" TOL: 2" DIA HOLE
- 17. VESSEL TO BE REGISTERED IN ALBERTA
- 18. SERIAL NUMBER: 15360

NOZZLE SCHEDULE

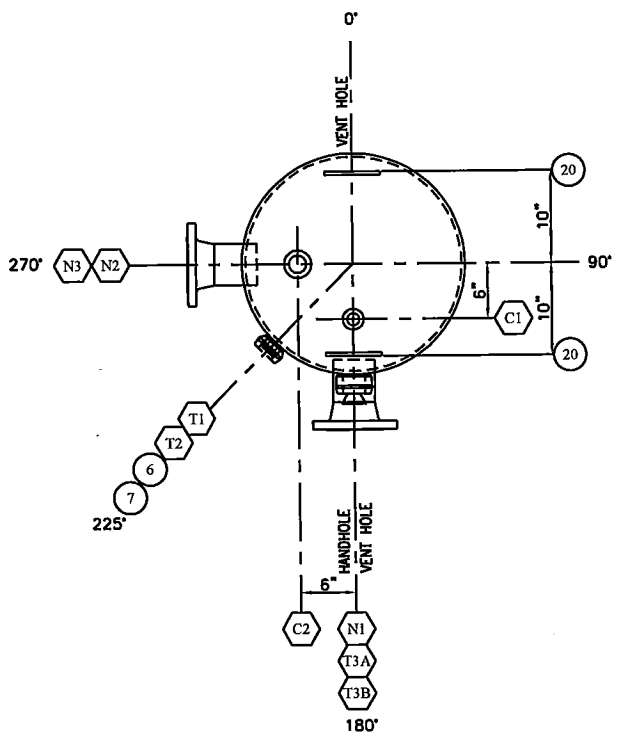
| MARK  | QTY | DESCRIPTION     | NPS   | CLASS | TYPE | PROJECTION |         | WELD DETAIL | WELD |   |   |   | REPAD | BILL OF MATERIALS ITEM NUMBER |
|-------|-----|-----------------|-------|-------|------|------------|---------|-------------|------|---|---|---|-------|-------------------------------|
|       |     |                 |       |       |      | INSIDE     | OUTSIDE |             | A    | B | C | D |       |                               |
| N1    | 1   | INLET           | 4     | 150   | RFWN | 1"         | 6"      | 1.2         | 1/4  | - | - | - | -     | 8,9                           |
| N2    | 1   | OUTLET          | 4     | 150   | RFWN | 1"         | 6"      | 1.2         | 1/4  | - | - | - | -     | 8,9                           |
| N3    | 1   | DRAIN           | 2     | -     | PIPE | FLUSH      | SHOWN   | 4           | 1/4  | - | - | - | -     | 10,11,12,13                   |
| C1    | 1   | PSV             | 1     | 6000  | CPLG | 1/4"       | -       | 2           | 1/4  | - | - | - | -     | 14                            |
| C2    | 1   | OUTLET          | 1 1/2 | 6000  | CPLG | 1/4"       | -       | 2           | 1/4  | - | - | - | -     | 15                            |
| T1    | 1   | PI              | 3/4   | 6000  | TOL  | -          | -       | 4           | 1/4  | - | - | - | -     | 16                            |
| T2    | 1   | SPARE           | 1 1/2 | 6000  | TOL  | -          | -       | 4           | 1/4  | - | - | - | -     | 17,18                         |
| T3A/B | 2   | INSPECTION PORT | 2     | 3000  | TOL  | -          | -       | 4           | 3/8  | - | - | - | -     | 19,20                         |

BILL OF MATERIALS

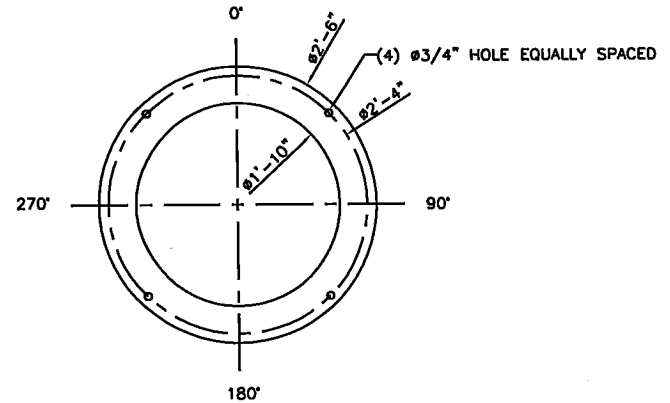
| ITEM | QTY | REF.      | PART No. | DESCRIPTION                                            | MATERIAL   | WEIGHT |
|------|-----|-----------|----------|--------------------------------------------------------|------------|--------|
| 1    | 2   | HEAD      | 1-001375 | 3/8" THK (0.321" MIN) x 24" OD 2:1 S.E. HEAD           | SA-516-70N | 188#   |
| 2    | 1   | SHELL     | 1-003402 | 24" PIPE SCH STD x 4'-0" LG (BBE)                      | SA-106-B   | 380#   |
| 3    | 1   | SKIRT     | 1-003462 | 24" PIPE SCH 10 x 2'-4" LG (CBE)                       | SA-53B     | 148#   |
| 4    | 1   | SKIRT     | 1-003379 | PIPE OPENING: 8" PIPE SCH STD x 3" LG (RBE)            | SA-106-B   | 9#     |
| 5    | 1   | BASE      | 2-001078 | 1/2" THK x 30" OD x 22" ID                             | SA-36      | 46#    |
| 6    | 1   | NAMEPLATE | 2-000219 | 6" x 8" NAMEPLATE BRACKET                              | SA-569     | 2#     |
| 7    | 1   | NAMEPLATE | 1-001701 | 6" x 8" ALUMINUM NAMEPLATE                             | ALUMINUM   | 1#     |
| 8    | 2   | N1,N2     | 1-003875 | 4" x CLASS 150 RFWN FLG SCH 160                        | SA-105-N   | 30#    |
| 9    | 2   | N1,N2     | 1-003371 | 4" PIPE SCH 160 x 4 1/2" LG (BOE,ROE)                  | SA-106-B   | 6#     |
| 10   | 1   | N3        | 1-008065 | 2" x 1" SWAGE NIPPLE SCH XXH (BXT) SCARF 2" TO SCH 160 | SA-105-N   | 2#     |
| 11   | 1   | N3        | 1-003359 | 2" PIPE SCH 160 x 4 1/8" LG (BOE,COE)                  | SA-106-B   | 3#     |
| 12   | 1   | N3        | 1-003359 | 2" PIPE SCH 160 x 9" LG (BBE)                          | SA-106-B   | 3#     |
| 13   | 1   | N3        | 1-000680 | 2" x 90° LR BW ELBOW SCH 160                           | SA-234-WPB | 3#     |
| 14   | 1   | C1        | 1-000530 | 1" x CLASS 6000 FULL CPLG                              | SA-105-N   | 2#     |
| 15   | 1   | C2        | 1-009906 | 1 1/2" x CLASS 6000 FULL CPLG                          | SA-105-N   | 2#     |
| 16   | 1   | T1        | 1-006114 | 3/4" on 24" x CLASS 6000 THREAD-O-LET                  | SA-105-N   | 1#     |
| 17   | 1   | T2        | 1-003328 | 1 1/2" on 24" x CLASS 6000 THREAD-O-LET                | SA-105-N   | 2#     |
| 18   | 1   | T2        | 1-001965 | 1 1/2" DIA HEX PLUG                                    | SA-105-N   | 4#     |
| 19   | 2   | T3A/B     | 1-006035 | 2" on 24" x CLASS 3000 THREAD-O-LET                    | SA-105-N   | 4#     |
| 20   | 2   | T3A/B     | 1-001966 | 2" DIA HEX PLUG                                        | SA-105-N   | 6#     |
| 21   | 2   | LIFT LUG  | 2-000241 | 3/8" THK x 6" W x 8" LG                                | SA-516-70N | 8#     |



ELEVATION VIEW



ORIENTATION VIEW



BASEPLATE DETAIL

DESIGN SPECIFICATIONS

DESIGN & FABRICATE TO: 2007 ASME BOILER & PRESSURE VESSEL CODE SEC VIII, DIV 1 2008 ADDENDA  
DESIGN PRESSURE & TEMPERATURE: 285 PSI @ 100°F  
MINIMUM DESIGN METAL TEMP: -20°F @ 285 PSI  
IMPACT TESTS: EXEMPT PER UG-20(1)(1-5)  
RADIOGRAPHY: 100% AS PER UW-11(a)  
POST WELD HEAT TREATMENT: NONE AS PER UCS-56  
HYDROSTATIC TEST PRESSURE: 370 PSIG. PREHEAT: 50°F  
CORROSION ALLOWANCE: 1/8" MAWP: 285 PSI @ 100°F  
HEAD THK. MIN.: 0.321" VOLUME: 14.2 CuFt. 0.41 CuM  
WEIGHT EMPTY: 900 LBS WEIGHT FULL: 2010 LBS

BARRICK ENERGY INC.

DE-AERATOR VESSEL - TAG V-210  
24" OD x 4'-0" S/S x 285 PSI MAWP  
DATE: 12/14/09 SALE ORDER: 001721  
SHEET: 1 OF 5 JOB ORDER: D1214  
DRAWN BY: JAH SIZE: D  
PURCHASE ORDER: 71049P-026  
LOCATION: 02-02-069-22 WSM DRAWING NO.: C967-1  
CRN DWG: BWM-296-09 APP'D: REV. 2  
CRN NUMBER: V0613.2

| WELD DETAIL NUMBER | REGISTERED WELDING PROCEDURE NUMBER |               |               | BACKWELD/GOUGE |
|--------------------|-------------------------------------|---------------|---------------|----------------|
|                    | ROOT                                | HOT PASS      | FILL & CAP    |                |
| 1                  | BWM-19 (GMAW)                       | BWM-22 (GMAW) | BWM-22 (GMAW) | N/A            |
| 2,3,4,6,7          | BWM-19 (GMAW)                       | BWM-19 (GMAW) | BWM-19 (GMAW) | N/A            |
| 5                  | BWM-01 (GMAW)                       | BWM-03 (SAW)  | BWM-03 (SAW)  | N/A            |

|                                                   |                                                                       |                                                                       |                                                                |   |             |   |           |   |      |   |             |   |       |
|---------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------|---|-------------|---|-----------|---|------|---|-------------|---|-------|
| 1                                                 | WELD NECK FLANGE                                                      | 2                                                                     | NOZZLE NECK                                                    | 3 | NOZZLE NECK | 4 | THREDOLET | 5 | SEAM | 6 | ATTACHMENTS | 7 | SKIRT |
|                                                   |                                                                       |                                                                       |                                                                |   |             |   |           |   |      |   |             |   |       |
| $\alpha=75^\circ(15^\circ)$<br>$\phi=1/8"(1/16")$ | $\alpha=40^\circ(15^\circ)$<br>$\phi=1/8"(1/16")$<br>$h=1/16"(1/16")$ | $\alpha=40^\circ(15^\circ)$<br>$\phi=1/8"(1/16")$<br>$h=1/16"(1/16")$ | $\alpha=60^\circ(15^\circ)$<br>$\phi=1/8"(1/16")$<br>$h=3/32"$ |   |             |   |           |   |      |   |             |   |       |

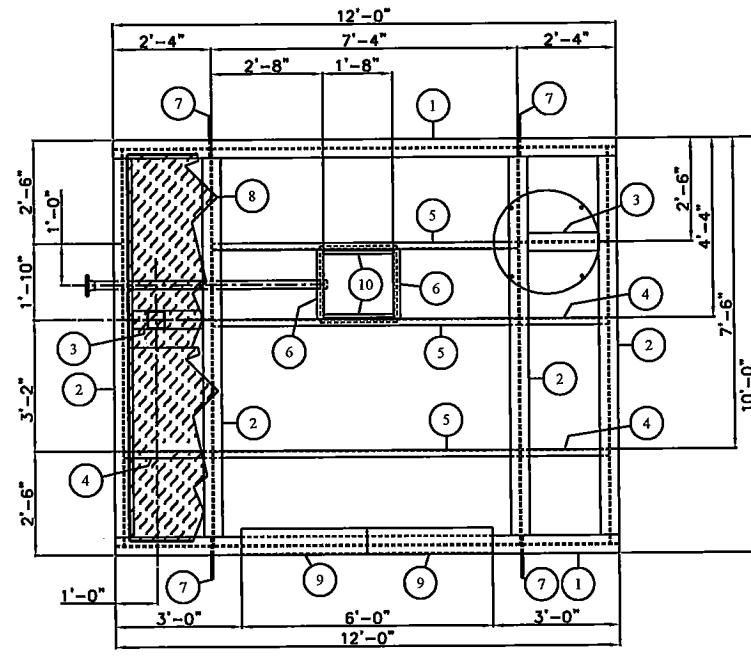
| REV. NO. | DATE     | REVISION                        | BY  | APP'D |
|----------|----------|---------------------------------|-----|-------|
| A        | 01/19/10 | ISSUED FOR APPROVAL             | JAH |       |
| 0        | 01/25/10 | ISSUED FOR FABRICATION          | JAH |       |
| 1        | 01/27/10 | REVISED RADIOGRAPHY & ADDED MPI | JAH |       |
| 2        | 03/29/10 | AS BUILT                        | JMB |       |

**BILTON**  
Welding & Manufacturing Ltd.

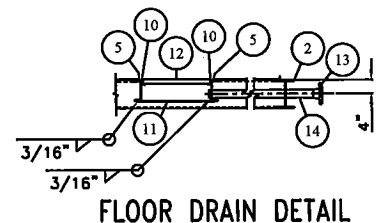
BOX 6106  
5815 37 Street  
INNISFAIR, AB  
CANADA  
403-227-7799  
1-888-227-4923  
FAX 227-7796

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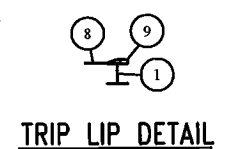
CERTIFIED  
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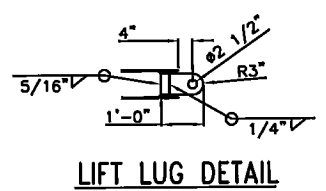
PLAN VIEW



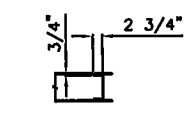
FLOOR DRAIN DETAIL



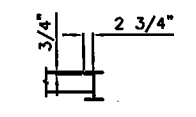
TRIP LIP DETAIL



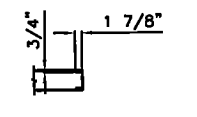
LIFT LUG DETAIL



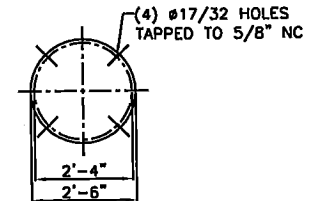
COPE DETAIL #1



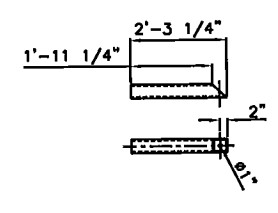
COPE DETAIL #2



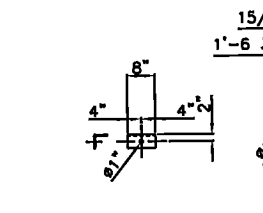
COPE DETAIL #3



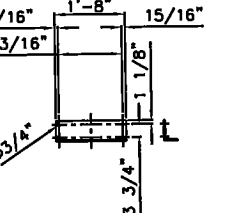
VESSEL BASEPLATE



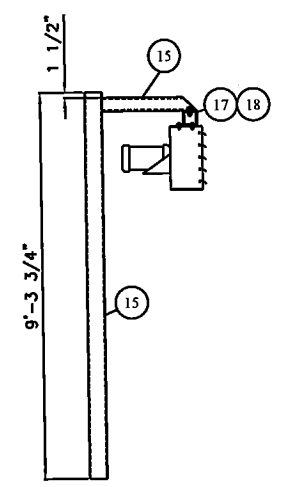
HEATER MOUNT



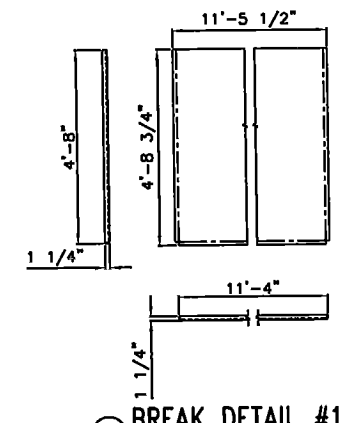
HEATER MOUNT



HEATER MOUNT



HEATER STAND



BREAK DETAIL #1  
(2) REQUIRED

GENERAL NOTES

- 1. WELD PROCEDURE: GM-1/MC-1
- 2. SANDBLAST: SSPC-SP6 (COMMERCIAL)
- 3. PRIME: ONE (1) COAT PRIMER
- 4. PAINT: ONE (1) COAT INDUSTRIAL ENAMEL (WARM GREY)
- 5. 1 1/2" SPRAY FOAM INSULATION U/S OF CHEKERPLATE
- 6. APPROXIMATE WEIGHT: 3,700 LBS

BILL OF MATERIALS

| ITEM | QTY | REF.        | PART No. | DESCRIPTION                                                              | MATERIAL   | WEIGHT |
|------|-----|-------------|----------|--------------------------------------------------------------------------|------------|--------|
| 1    | 2   | MAIN        | 1-003664 | W8018 x 12'-0" LG                                                        | G40.21-50W | 432#   |
| 2    | 4   | MAIN        | 1-003664 | W8018 x 9'-6 1/2" LG (SEE COPE DETAIL #1)                                | G40.21-50W | 688#   |
| 3    | 2   | MAIN        | 1-003664 | W8018 x 2'-1 1/8" LG (SEE COPE DETAIL #1)                                | G40.21-50W | 75#    |
| 4    | 3   | CROSSBRACE  | 1-000399 | C608.2 x 2'-1 1/8" LG (SEE COPE DETAIL #2)                               | G40.21-50W | 52#    |
| 5    | 3   | CROSSBRACE  | 1-000399 | C608.2 x 7'-3 3/4" LG (SEE COPE DETAIL #2)                               | G40.21-50W | 180#   |
| 6    | 2   | CROSSBRACE  | 1-000399 | C608.2 x 1'-8" LG                                                        | G40.21-50W | 14#    |
| 7    | 4   | LIFT LUG    | 2-000378 | 1/2" THK x 6" W x 12" LONG (SEE DETAIL)                                  | SA-36      | 20#    |
| 8    | 2   | FLOOR       | 1-009926 | 3/16" THK CHECKERPLATE 4'-8 3/4" W x 11'-5 1/2" LG (SEE BREAK DETAIL #1) | SA-36      | 1435#  |
| 9    | 2   | TRIP LIP    | 2-000485 | 1/4" THK CHECKER PLATE 2" H x 3'-0" LG TRIP LIP                          | SA-36      | 25#    |
| 10   | 2   | FLOOR DRAIN | 1-000016 | 1/4" THK x 1 1/4" ANGLE x 1'-8" LG                                       | SA-36      | 3#     |
| 11   | 1   | FLOOR DRAIN | 2-000659 | SUMP BOTTOM 3/16" THK x 22" W x 22" LG                                   | SA-36      | 12#    |
| 12   | 1   | FLOOR DRAIN | 1-000096 | 1 1/4" x 3/16" SERRATED BARGRATE x 1'-7" W x 1'-7 1/2" LG                | SA-36      | 20#    |
| 13   | 1   | FLOOR DRAIN | 1-000975 | 2" x CLASS 150 RFWN FLG SCH XH                                           | SA-350-LF2 | 6#     |
| 14   | 1   | FLOOR DRAIN | 1-003419 | 2" PIPE SCH XH x 5'-6 1/2" LG (BOE,ROE)                                  | SA-333-GR6 | 34#    |
| 15   | 1   | HEATER      | 1-002525 | 5" x 0.188" HSS x 9'-3 3/4" LG                                           | G40.21-50W | 188#   |
| 16   | 1   | HEATER      | 1-002524 | 4" x 0.375" HSS x 2'-3 1/4" LG (SEE DETAIL)                              | SA-36      | 76#    |
| 17   | 1   | HEATER      | 1-000041 | 4" x 4" x 3/8" ANGLE x 8" LG (SEE DETAIL)                                | SA-36      | 8#     |
| 18   | 1   | HEATER      | 1-000052 | 6" x 4" x 3/8" ANGLE x 1'-8" LG (SEE DETAIL)                             | SA-36      | 36#    |
| 19   | 1   | BOLT        | 1-000220 | 3/4" DIA x 2" LG BOLT                                                    | GR.5       | -      |
| 20   | 4   | BOLT        | 1-000207 | 5/8" DIA x 2" LG BOLT                                                    | GR.5       | -      |
| 21   | 1   | BOLT        | 1-001900 | 3/4" DIA NUT                                                             | GR.5       | -      |
| 22   | 4   | BOLT        | 1-001898 | 5/8" DIA NUT                                                             | GR.5       | -      |
| 23   | 2   | BASEPLATE   | 2-001501 | V-200/205 BASE: 1/2" THK x 30" OD (SEE DETAIL)                           | SA-36      | 200#   |

FILE PATH:

CERTIFIED  
AS BUILT

**EF-210**  
**BUILDING EXHAUST FAN**  
ET16-1 EXPLOSION PROOF  
1/4HP, 120 VAC, 1PH, 60Hz  
CLASS 1, DIV 1 GROUP C&D  
c/w STORM HOOD

**S-210**  
**STRAINER**  
BASKET STRAINER  
4" x CLASS 150  
ALBERTA MODEL 4BFS150N (NACE)

**V-210**  
**DE-AERATOR VESSEL**  
24" OD x 4'-0" S/S  
285 PSI @ 100°F  
C.A.: 1/8"  
SERIAL #: 15360  
CRN: TBD  
BUILT: 2010

**BH-210**  
**BUILDING HEATER**  
MODEL: RUFFNECK FX5-480360-050-T  
5KW, 480 VAC, 3PH, 60Hz  
MOTOR: 1/2HP, 1725RPM  
CLASS 1, DIV 1 GROUP C&D

**P-211**  
**OXYGEN INJ. PUMP**  
MODEL: -  
CAPACITY: - GPM  
DISCHARGE PRESS: - PSI

## INSTRUMENTATION

| TAG         | QTY | PART No. | DESCRIPTION                                                                                             |
|-------------|-----|----------|---------------------------------------------------------------------------------------------------------|
| BH-210      | 1   | 1-007253 | RUFFNECK ELECTRIC HEATER MODEL: FX5-480-360-050-T                                                       |
| S-210       | 1   | 1-009927 | 4" x CLASS 150 BASKET STRAINER ALBERTA MODEL 4BFS150N (NACE)                                            |
| FI-210      | 1   | 1-009928 | 1" NPT L.J. STAR SIGHT FLOW INDICATOR MODEL: 1408-CA-2H                                                 |
| ARV-210     | 1   | 1-009929 | 1 1/2" NPT FMC TECHNOLOGIES AIR ELIMINATOR HEAD MODEL: 538502006RB                                      |
| ESDV-210    | 1   | 9-000750 | 4" x CLASS 150 RF BALL VALVE FUSION MODEL: 324-FR-040-F-01-N1-AA (NACE)                                 |
| ZSC/ZSO-210 | 1   | 9-000751 | TOPWORX POSITION MONITOR MODEL: DXP-L21GNEB (SUPPLIED BY OTHERS)                                        |
| EY-210A/B   | 2   | 9-000752 | 1/4" NPT ASCO EF8320G202-24 3-WAY SOLENOID VALVE (SUPPLIED BY OTHERS)                                   |
| XV-210      | 1   | 9-000588 | 3" x CLASS 300 KTM 3-WAY BALL VALVE MODEL: E03132L-32ET-30L                                             |
|             |     |          | c/w EL-O-MATIC ES0500.U2A04A.27K2 ACTUATOR (SUPPLIED BY OTHERS)                                         |
| ZS1/ZS2-210 | 1   | 9-000751 | TOPWORX POSITION MONITOR MODEL: DXP-L21GNEB (SUPPLIED BY OTHERS)                                        |
| PI-210      | 1   | 9-000753 | 4" FACE 0-300 PSI WINTERS PRESSURE INDICATOR (SUPPLIED BY OTHERS)                                       |
| PSV-210     | 1   | 9-000754 | 1" MNPT x 1" FNPT FARRIS RELIEF VALVE MODEL: 27DA33-M20 SET@1965 kPa (SUPPLIED BY OTHERS)               |
| TE/TW-210   | 1   | 9-000755 | 3/4" NPT -100-260°C 3 WIRE RTD ELEMENT w/ 1 1/2" THERMOWELL (SUPPLIED BY OTHERS)                        |
| FE/FIT-210  | 1   | 9-000756 | MICROMOTION CORROUS ELITE FLOW METER w/ 2700 TRANSMITTER MODEL: CMF300A355K2B4E222 (SUPPLIED BY OTHERS) |
| DR-210      | 1   | 9-000757 | AMETEK DREXELBROOK WATER CUT MONITOR: 509-0077-955-00/700-1202-001-0030.08A (SUPPLIED BY OTHERS)        |
| PDIT-210    | 1   | 9-000748 | ROSEMOUNT 3051CD2A52A1B4C6TR DIFFERENTIAL PRESSURE TRANSMITTER (SUPPLIED BY OTHERS)                     |
| PRV-210     | 1   | 9-000758 | 1/2" NPT FISHER 0-125 PSI PRESSURE REGULATOR (SUPPLIED BY OTHERS)                                       |
| PIT-210     | 1   | 9-000759 | ROSEMOUNT PRESSURE INDICATING TRANSMITTER MODEL: 2088G252A1M584C6 (SUPPLIED BY OTHERS)                  |

## PIPING

| ITEM | QTY | PART No. | DESCRIPTION                                                                 | MATERIAL   |
|------|-----|----------|-----------------------------------------------------------------------------|------------|
| 1    | 2   | 1-009930 | 4" x CLASS 150 RF FP BALL VALVE FUSION MODEL: 324-FR-040-F-01-N1-AA (NACE)  | A-216 WCB  |
| 2    | 1   | 1-009962 | 3" x CLASS 150 RF FP BALL VALVE FUSION MODEL: 324-FR-030-F-01-L1-AA (NACE)  | A-352-LCC  |
| 3    | 3   | 1-009886 | 4" x CLASS 150 RF SWING CHECK VALVE NEWAY MODEL: 4S1RC12NC (NACE)           | A-352-LCC  |
| 4    | 9   | 1-009891 | 1" x CLASS 2000 FP BALL VALVE FUSION MODEL: 428-TF-010-F-08-N1-AA (NACE)    | A-216 WCB  |
| 5    | 2   | 1-009931 | 1" x CLASS 2000 FP SPRING RETURN BALL VALVE NUTRON MODEL: T3-F10520L (NACE) | A-352-LCC  |
| 6    | 1   | 1-009892 | 3/4" x CLASS 2000 FP BALL VALVE FUSION SERIES 428-TF-007-F-08-N1-AA (NACE)  | A-216 WCB  |
| 7    | 1   | 1-009893 | 1/2" x CLASS 2000 FP BALL VALVE FUSION SERIES 428-TF-005-F-08-N1-AA (NACE)  | A-216 WCB  |
| 8    | 7   | 1-009978 | 1" x CLASS 800 SWING CHECK VALVE KF MODEL: SC08015XU-M-1 (NACE)             | A-216 WCB  |
| 9    | 2   | 1-005006 | 3/4" MNPT x 1/2" FNPT x CLASS 6000 NEEDLE VALVE CENTURY MODEL: CM21M64DONT  | 316SS      |
| 10   | 3   | 1-009932 | 4" x CLASS 150 BLEED RING, TAPPED TO 1" NPT                                 | SA-S16-70N |
| 11   | 1   | 1-009933 | 3" x CLASS 300 BLEED RING, (2) 1" NPT TAPS                                  | SA-S16-70N |

## GENERAL NOTES:

### PIPING DETAILS:

1. PIPING DESIGNED & FABRICATED TO ASME B31.3 & S.A.W. ENGINEERING MATERIAL CLASSIFICATIONS A1, A1S & A2S
2. ALL THREADED FITTINGS SHALL BE CLASS 3000
3. 1/2" TO 1-1/2" THREADED PIPE TO BE SCH 160
4. TUBING MATERIAL: 3/8" - 0.035" WALL 316SS SEAMLESS c/w 316SS SWAGelok FITTINGS 1/2" - 0.049" WALL 316SS SEAMLESS c/w 316SS SWAGelok FITTINGS
5. ALL INSTRUMENTS & VALVES SHALL BE IDENTIFIED WITH STAINLESS STEEL TAGS
6. DRAIN ALL WATER FROM ALL INSTRUMENTS

### ELECTRICAL DETAILS: SUPPLY & INSTALLATION

1. (1) PENDANT MOUNT CLASS 1 ZONE 2 175Watt MH FIXTURE c/w SWITCH
2. (1) WALL MOUNT CLASS 1 ZONE 2 70Watt HPS FIXTURE
3. (3) FIBERGLASS JUNCTION BOXES c/w TERMINALS
4. (1) ESD BUTTON c/w RAIN HOOD
5. (1) RECEPTACLE

### ELECTRICAL DETAILS: INSTALLATION OF SUPPLIED ITEMS

1. (1) DET-TRONICS PIRECLA1A1W1 IR LEL SMART HEAD c/w REMOTE CALIBRATION
2. (1) DET-TRONICS GTH2S100P H2S SMART HEAD
3. (1) DET-TRONICS X3301A4N13W1 FIRE SMART HEAD
4. (1) RUFFNECK HEATER c/w ON/OFF SWITCH MODEL: FX5-480360-050-T
5. (1) EXHAUST FAN CONNECTION c/w HAND/AUTO SWITCH & THERMOSTAT
6. (8) CONNECTIONS OF DESCRETES
7. (2) CONNECTIONS OF ANALOGS

| REV. NO. | DATE     | REVISION                       | BY  | APP'D |
|----------|----------|--------------------------------|-----|-------|
| A        | 12/14/09 | ISSUED FOR APPROVAL            | JAH |       |
| B        | 01/19/10 | REVISED AS PER CLIENT MARK-UPS | JAH |       |
| 0        | 01/25/10 | ISSUED FOR FABRICATION         | JAH |       |
| 1        | 01/28/10 | REVISED ESDV-210               | JAH |       |
| 2        | 03/29/10 | AS BUILT                       | JMB |       |

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1-888-227-4923  
FAX 227-7796

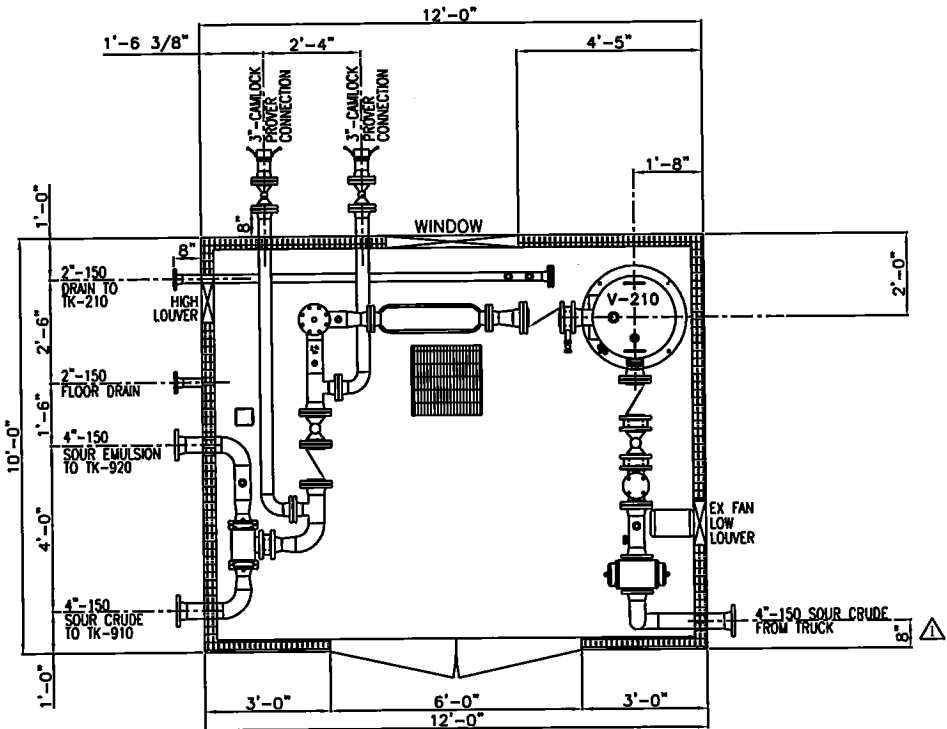
**BARRICK ENERGY INC.**  
SOUR CRUDE TRUCK OFF LOADING SKID - TAG: SK-210  
P&ID  
DATE: 12/14/09  
SHEET: 3 OF 5  
DRAWN BY: JAH  
PURCHASE ORDER: 71049P-026  
LOCATION: 02-02-069-22 WSM  
APP'D BY:

SALE ORDER: 001721  
JOB ORDER:  
D1214  
DRAWING NO.:  
C967-3  
SIZE: D  
REV: 2

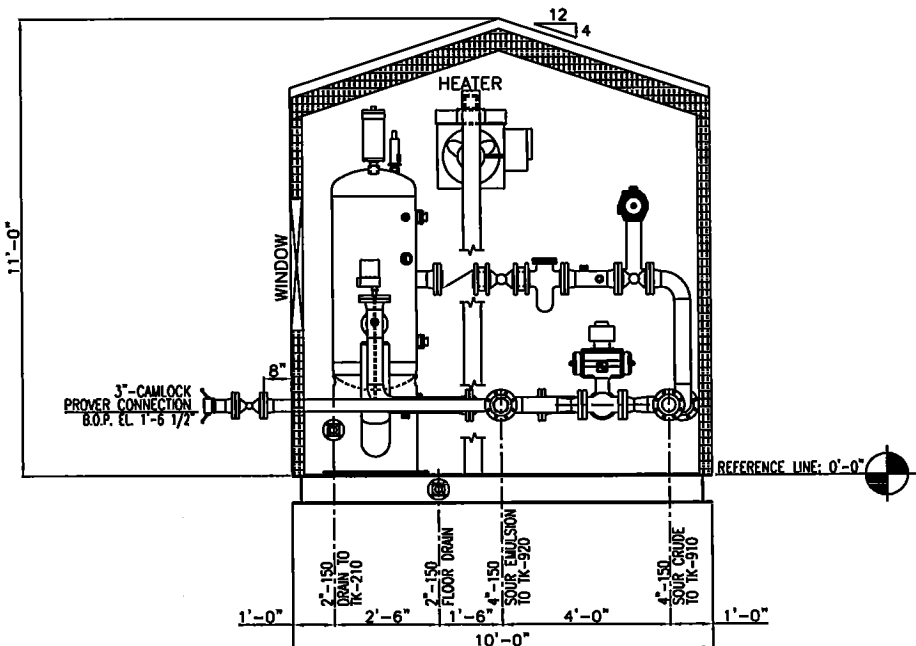
CERTIFIED  
AS BUILT

BUILDING DETAILS

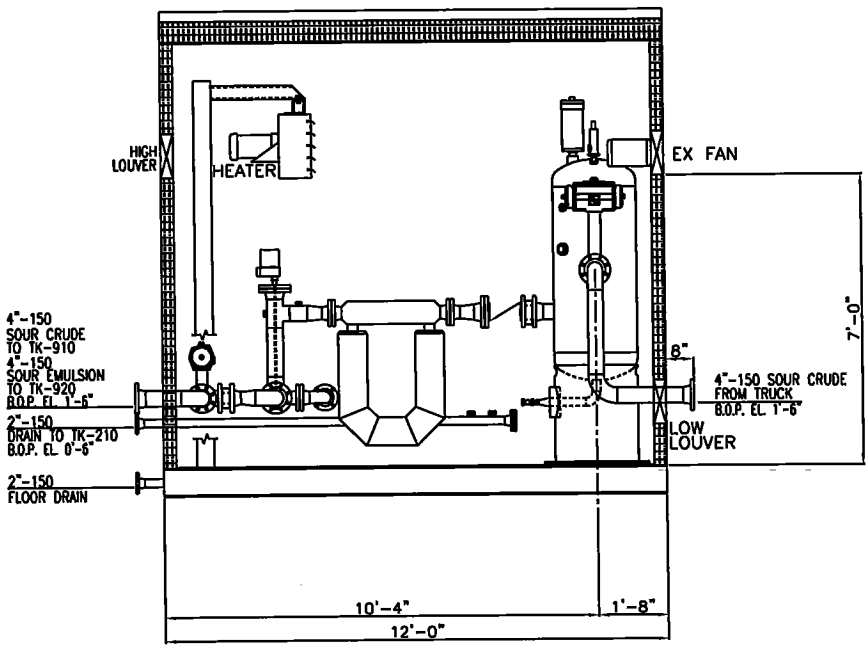
- 1. ROOF:  
EXTERIOR: 22 Ga, PREPAINTED (BLUE)  
INTERIOR: 24 Ga WHITE FLUTED ALUMINUM  
INSULATION: R-20 FIBREGLASS  
VAPOUR: 6 MIL POLY
- 2. WALLS:  
EXTERIOR: 22 Ga, PREPAINTED (BLUE)  
INTERIOR: 24 Ga WHITE FLUTED ALUMINUM  
INSULATION: R-12 FIBREGLASS  
VAPOUR: 6 MIL POLY
- 3. TRIM & FLASHING: 22 Ga, PREPAINTED (GOLD)
- 4. (1) 6'-0" x 7'-0" INSULATED MAN DOOR c/w  
-PANIC HARDWARE  
-(2) SINGLE GLAZED FIXED I.W.G WINDOW  
-WEATHERSTRIPPING, CANOPY, THRESHOLD & CHECK CHAIN  
-DOOR RAISED 2" TO ACCOMMODATE DRIP LIP
- 5. (1) 36" x 36" DOUBLE GLAZED SLIDING WINDOW c/w SCREEN
- 6. (2) 12" x 12" ADJUSTABLE LOUVERS c/w SCREEN & WEATHERHOOD
- 7. (1) ET12-1 EXPLOSION PROOF EXHAUST FAN w/ HOOD
- 8. (2) 12ft EAVESTROUGHS WITH DOWNSPOUTS
- 9. (2) 12ft ICE RAKE
- 10. TOTAL PACKAGE SHIPPING WEIGHT: 6,500 LBS
- 11. SHIPPING DIMENSIONS: 11'-4" W x 11'-10" H x 13'-8" LG



PLAN VIEW



VIEW A-A



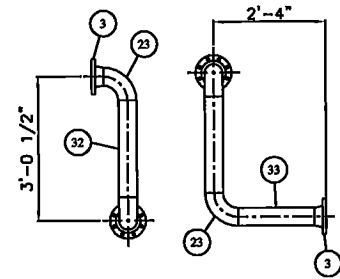
ELEVATION VIEW

| REV. NO. | DATE     | REVISION                              | BY  | APP'D | <b>BILTON</b><br>Welding & Manufacturing Ltd.<br><small>This drawing is property of BILTON WELDING &amp; MANUFACTURING LTD and is loaned to the recipient for their confidential use only. In consideration of the loan of this drawing, the recipient promises and agrees that it shall not be used in any way detrimental to the interests of BILTON WELDING &amp; MANUFACTURING LTD, that it shall be returned upon request, and shall not be reproduced, copied, lent, or otherwise disposed of, directly or indirectly, without the written consent of BILTON WELDING &amp; MANUFACTURING LTD.</small> | <b>BARRICK ENERGY INC.</b><br>SOUR CRUDE TRUCK OFF-LOADING SKID - TAG: SK-210<br>GENERAL ARRANGEMENT |                            |                     |        |
|----------|----------|---------------------------------------|-----|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------|---------------------|--------|
| A        | 01/19/10 | ISSUED FOR APPROVAL                   | JAH |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DATE: 12/30/09                                                                                       | SALE ORDER: 001721         |                     |        |
| 0        | 01/25/10 | ISSUED FOR FABRICATION                | JAH |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SHEET: 4 OF 5                                                                                        | JOB ORDER:                 | D1214               | SIZE D |
| 1        | 01/28/10 | REVISED SOUR CRUDE TRUCK-IN LOCATIONS | JAH |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DRAWN BY: JAH                                                                                        | PURCHASE ORDER: 71049P-026 | DRAWING NO.: C967-4 | REV. 2 |
| 2        | 03/29/10 | AS BUILT                              | JMB |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LOCATION: 02-02-069-22 WSM                                                                           | APP'D BY:                  |                     |        |

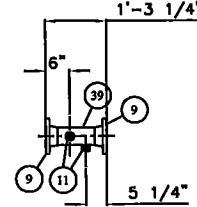
CERTIFIED  
AS BUILT

# GENERAL NOTES

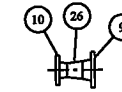
1. QUALITY CONTROL PROGRAM NUMBER: AQP-1317(S)
2. WELDING PROCEDURE REGISTRATION NUMBER: WP1970.2
3. WELD PROCEDURE:  
A1S SPOOLS (REG TEMP) = BWM-1 (GMAW)  
A2S SPOOLS (LOW TEMP) = BWM-15 (GMAW)
4. PIPING SPECIFICATIONS:  
SPOOLS 1.6-11 (LOW TEMP)  
DESIGN & FABRICATED TO: B31.3 - 2008 ED. NFS &  
S.A.W. ENGINEERING LTD. PIPING SPECIFICATION A2S  
DESIGN PRESSURE: 285 PSI @ 100°F/-49°F  
C.A.: 1/8"  
RADIOGRAPHY: 100% BUTT WELDS  
10% SW FOR FIT UP  
MPI: 100% OF ALL FILLET WELDS  
PWHT: NIL  
IMPACT: EXEMPT AS PER TABLE 323.2.2  
HYDRO TEST: 428 PSIG  
SPOOLS 2-5  
DESIGN & FABRICATED TO: B31.3 - 2008 ED. NFS &  
S.A.W. ENGINEERING LTD. PIPING SPECIFICATION A1S  
DESIGN PRESSURE: 285 PSI @ 100°F/-20°F  
C.A.: 1/8"  
RADIOGRAPHY: 100% BUTT WELDS  
10% SW FOR FIT UP  
MPI: 100% OF ALL FILLET WELDS  
PWHT: NIL  
IMPACT: EXEMPT AS PER TABLE 323.2.2  
HYDRO TEST: 428 PSIG
5. EXTERNAL FINISH  
SANDBLAST: SSPC-SP6 (COMMERCIAL)  
PRIME: ONE (1) COAT PRIMER  
FINISH: ONE (1) COAT INDUSTRIAL ENAMEL (WARM GREY)



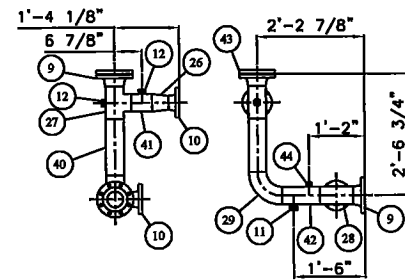
**SPOOL 1**  
LOW TEMP



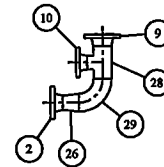
**SPOOL 2**



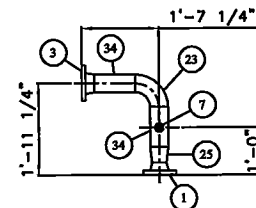
**SPOOL 3**



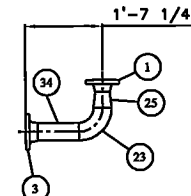
**SPOOL 4**



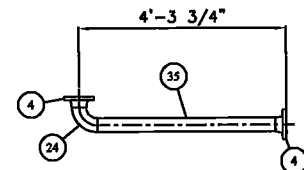
**SPOOL 5**



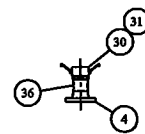
**SPOOL 6**  
LOW TEMP



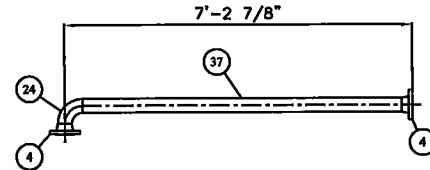
**SPOOL 7**  
LOW TEMP



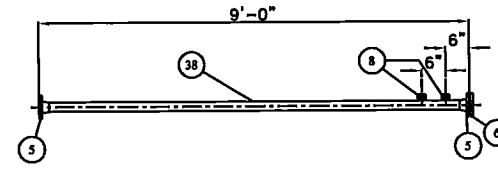
**SPOOL 8**  
LOW TEMP



**SPOOL 9**  
LOW TEMP  
(2) REQUIRED



**SPOOL 10**  
LOW TEMP



**SPOOL 11**  
LOW TEMP

# BILL OF MATERIALS

| ITEM | QTY | REF. | PART No. | DESCRIPTION                                               | MATERIAL    | WEIGHT |
|------|-----|------|----------|-----------------------------------------------------------|-------------|--------|
| 1    | 2   | -    | 1-006755 | 3" x CLASS 300 RFWN FLG SCH STD                           | SA-350-LF2  | 46#    |
| 2    | 1   | -    | 1-000897 | 3" x CLASS 300 RFWN FLG SCH STD                           | SA-105-N    | 23#    |
| 3    | 4   | -    | 1-000984 | 4" x CLASS 150 RFWN FLG SCH STD                           | SA-350-LF2  | 60#    |
| 4    | 6   | -    | 1-001257 | 3" x CLASS 150 RFWN FLG SCH STD                           | SA-350-LF2  | 60#    |
| 5    | 2   | -    | 1-000975 | 2" x CLASS 150 RFWN FLG SCH XH                            | SA-350-LF2  | 12#    |
| 6    | 1   | -    | 1-000972 | 2" x CLASS 150 RF BLIND FLG                               | SA-350-LF2  | 4#     |
| 7    | 1   | -    | 1-003758 | 1" on 4 x CLASS 3000 THREAD-O-LET                         | SA-350-LF2  | 2#     |
| 8    | 2   | -    | 1-008503 | 1" on 2 x CLASS 3000 THREAD-O-LET                         | SA-350-LF2  | 4#     |
| 9    | 6   | -    | 1-000918 | 4" x CLASS 150 RFWN FLG SCH STD                           | SA-105-N    | 90#    |
| 10   | 4   | -    | 1-000896 | 3" x CLASS 150 RFWN FLG SCH STD                           | SA-105-N    | 40#    |
| 11   | 3   | -    | 1-003322 | 1" on 3-36" x CLASS 3000 THREAD-O-LET                     | SA-105-N    | 6#     |
| 12   | 2   | -    | 1-007396 | 3/4" on 1 1/2-36" x CLASS 3000 THREAD-O-LET               | SA-105-N    | 3#     |
| 13   | 4   | -    | 1-009733 | 3" x CLASS 300 RF GRAPHITE FILLED "CG" FLEX GASKET B16.20 | 316SS       | -      |
| 14   | 15  | -    | 1-001300 | 4" x CLASS 150 RF GRAPHITE FILLED "CG" FLEX GASKET B16.20 | 316SS       | -      |
| 15   | 8   | -    | 1-001297 | 3" x CLASS 150 RF GRAPHITE FILLED "CG" FLEX GASKET B16.20 | 316SS       | -      |
| 16   | 1   | -    | 1-001292 | 2" x CLASS 150 RF GRAPHITE FILLED "CG" FLEX GASKET B16.20 | 316SS       | -      |
| 17   | 8   | -    | 1-007069 | 3/4" DIA x 6 1/4" LG STUD                                 | SA-193-B7M  | -      |
| 18   | 16  | -    | 1-002643 | 3/4" DIA x 4 1/4" LG STUD                                 | SA-193-B7M  | -      |
| 19   | 24  | -    | 1-005616 | 5/8" DIA x 5 3/4" LG STUD                                 | SA-193-B7M  | -      |
| 20   | 108 | -    | 1-002627 | 5/8" DIA x 3 1/2" LG STUD                                 | SA-193-B7M  | -      |
| 21   | 48  | -    | 1-001872 | 3/4" DIA NUT                                              | SA-194-2HM  | -      |
| 22   | 264 | -    | 1-001868 | 5/8" DIA NUT                                              | SA-194-2HM  | -      |
| 23   | 4   | -    | 1-007614 | 4" x 90° LR BW ELBOW SCH STD                              | SA-420-WPL6 | 24#    |
| 24   | 2   | -    | 1-001327 | 3" x 90° LR BW ELBOW SCH STD                              | SA-420-WPL6 | 24#    |
| 25   | 2   | -    | 1-009925 | 4" x 3" RED CONC SCH STD                                  | SA-420-WPL6 | 8#     |
| 26   | 3   | -    | 1-000454 | 4" x 3" RED CONC SCH STD                                  | SA-234-WPB  | 12#    |
| 27   | 1   | -    | 1-002984 | 4" TEE SCH STD                                            | SA-234-WPB  | 6#     |
| 28   | 2   | -    | 1-002982 | 4" x 3" RED TEE SCH STD                                   | SA-234-WPB  | 12#    |
| 29   | 2   | -    | 1-000695 | 4" x 90° LR BW ELBOW SCH STD                              | SA-234-WPB  | 12#    |
| 30   | 2   | -    | 1-000312 | 3" MALE x FNPT CAMLOCK                                    | ALUMINUM    | 3#     |
| 31   | 2   | -    | 1-000304 | 3" CAMLOCK CAP                                            | ALUMINUM    | 3#     |
| 32   | 1   | -    | 1-003431 | 4" PIPE SCH STD x 2'-0 1/4" LG (BBE)                      | SA-333-GR6  | 22#    |
| 33   | 1   | -    | 1-003431 | 4" PIPE SCH STD x 1'-6 3/4" LG (BBE)                      | SA-333-GR6  | 16#    |
| 34   | 3   | -    | 1-003431 | 4" PIPE SCH STD x 10" LG (BBE)                            | SA-333-GR6  | 27#    |
| 35   | 1   | -    | 1-003422 | 3" PIPE SCH STD x 3'-8 1/4" LG (BBE)                      | SA-333-GR6  | 28#    |
| 36   | 2   | -    | 1-003422 | 3" PIPE SCH STD x 4" LG (BOE,TOE)                         | SA-333-GR6  | 3#     |
| 37   | 1   | -    | 1-003422 | 3" PIPE SCH STD x 6'-7 3/8" LG (BBE)                      | SA-333-GR6  | 48#    |
| 38   | 1   | -    | 1-003419 | 2" PIPE SCH XH x 8'-6 3/4" LG (BBE)                       | SA-333-GR6  | 43#    |
| 39   | 1   | -    | 1-003368 | 4" PIPE SCH STD x 9" LG (BBE)                             | SA-106-B    | 10#    |
| 40   | 1   | -    | 1-003368 | 4" PIPE SCH STD x 1'-2" LG (BBE)                          | SA-106-B    | 12#    |
| 41   | 1   | -    | 1-003368 | 4" PIPE SCH STD x 5" LG (BBE)                             | SA-106-B    | 5#     |
| 42   | 1   | -    | 1-003368 | 4" PIPE SCH STD x 9 3/8" LG (BBE)                         | SA-106-B    | 7#     |
| 43   | 1   | -    | 1-005206 | 4" x CLASS 150 RF BLIND FLG, TAPPED TO 3/4" NPT           | SA-105-N    | 17#    |
| 44   | 1   | -    | 1-003316 | 1/2" on 3/4-36" x CLASS 3000 THREAD-O-LET                 | SA-105-N    | 1#     |

| REV. NO. | DATE     | REVISION                  | BY  | APP'D |
|----------|----------|---------------------------|-----|-------|
| 0        | 01/25/10 | ISSUED FOR FABRICATION    | JAH |       |
| 1        | 01/28/10 | REVISED LENGTH OF SPOOL 2 | JAH |       |
| 2        | 03/29/10 | AS BUILT                  | JMB |       |
|          |          |                           |     |       |
|          |          |                           |     |       |
|          |          |                           |     |       |
|          |          |                           |     |       |
|          |          |                           |     |       |
|          |          |                           |     |       |
|          |          |                           |     |       |

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| BARRICK ENERGY INC.                             |                     |  |  |
|-------------------------------------------------|---------------------|--|--|
| SOUR CRUDE TRUCK OFF-LOADING SKID - TAG: SK-210 |                     |  |  |
| SPOOLING DETAILS                                |                     |  |  |
| DATE: 01/22/10                                  | SALE ORDER: 001721  |  |  |
| SHEET: 5 OF 5                                   | JOB ORDER: D1214    |  |  |
| DRAWN BY: JAH                                   | REV. D              |  |  |
| PURCHASE ORDER: 71049P-026                      | DRAWING NO.: C967-5 |  |  |
| LOCATION: 02-02-069-22 WSM                      | REV. 2              |  |  |
| APP'D BY:                                       |                     |  |  |

CERTIFIED  
AS BUILT