**P-210/215/220/225/230/270**
**CORROSION INHIBITOR PUMPS**

**P-280**
**METHANOL PUMP**

**T-550**
**CORROSION INHIBITOR TANK**
CAPACITY: 50 BBL (7950 L)

**T-560**
**METHANOL TANK**
CAPACITY: 500 GALLON (2273 L)

**c-F1-J/94-O-8**
MAX WELLHEAD SHUT-IN PRESSURE: 34,000 kPag
EXPECTED FLOWING PRESSURE: 3,500 TO 7200 kPag
WELLHEAD TEMPERATURE: 70-110°C
GAS FLOW: 150-450 E3 m³/D
WATER FLOW: 650 m³/D
$H_2S$ CONTENT: 10-350 ppm (LICENSED TO 500 ppm)

**c-G1-J/94-O-8**
MAX WELLHEAD SHUT-IN PRESSURE: 34,000 kPag
EXPECTED FLOWING PRESSURE: 3,500 TO 7200 kPag
WELLHEAD TEMPERATURE: 70-110°C
GAS FLOW: 150-450 E3 m³/D
WATER FLOW: 650 m³/D
$H_2S$ CONTENT: 10-350 ppm (LICENSED TO 500 ppm)

**c-H1-J/94-O-8**
MAX WELLHEAD SHUT-IN PRESSURE: 34,000 kPag
EXPECTED FLOWING PRESSURE: 3,500 TO 7200 kPag
WELLHEAD TEMPERATURE: 70-110°C
GAS FLOW: 150-450 E3 m³/D
WATER FLOW: 650 m³/D
$H_2S$ CONTENT: 10-350 ppm (LICENSED TO 500 ppm)

**c-I1-J/94-O-8**
MAX WELLHEAD SHUT-IN PRESSURE: 34,000 kPag
EXPECTED FLOWING PRESSURE: 3,500 TO 7200 kPag
WELLHEAD TEMPERATURE: 70-110°C
GAS FLOW: 150-450 E3 m³/D
WATER FLOW: 650 m³/D
$H_2S$ CONTENT: 10-350 ppm (LICENSED TO 500 ppm)

**c-J1-J/94-O-8**
MAX WELLHEAD SHUT-IN PRESSURE: 34,000 kPag
EXPECTED FLOWING PRESSURE: 3,500 TO 7200 kPag
WELLHEAD TEMPERATURE: 70-110°C
GAS FLOW: 150-450 E3 m³/D
WATER FLOW: 650 m³/D
$H_2S$ CONTENT: 10-350 ppm (LICENSED TO 500 ppm)

**c-K1-J/94-O-8**
MAX WELLHEAD SHUT-IN PRESSURE: 34,000 kPag
EXPECTED FLOWING PRESSURE: 3,500 TO 7200 kPag
WELLHEAD TEMPERATURE: 70-110°C
GAS FLOW: 150-450 E3 m³/D
WATER FLOW: 650 m³/D
$H_2S$ CONTENT: 10-350 ppm (LICENSED TO 500 ppm)

PI 2622 | ESDV 2620 | SET @ 3950 kPag | PV 2626 | FE 2627
PI 2512 | ESDV 2510 | SET @ 7200 kPag | PV 2516 | FE 2517
PI 2522 | ESDV 2520 | SET @ 7200 kPag | PV 2526 | FE 2527
PI 2532 | ESDV 2530 | SET @ 7200 kPag | PV 2536 | FE 2537
PI 2542 | ESDV 2540 | SET @ 7200 kPag | PV 2546 | FE 2547
PI 2552 | ESDV 2550 | SET @ 7200 kPag | PV 2556 | FE 2557

| HC GAS FLOW: 450 E3m³/D |
|---|
| WATER FLOW: 650 m³/D |
| PRESSURE: 3900 kPag |
| TEMPERATURE: 95°C |

| HC GAS FLOW: 450 E3m³/D |
|---|
| WATER FLOW: 650 m³/D |
| PRESSURE: 7200 kPag |
| TEMPERATURE: 95°C |

| HC GAS FLOW: 4500 E3m³/D |
|---|
| WATER FLOW: 6500 m³/D |
| PRESSURE: 7200 kPag |
| TEMPERATURE: 95°C |

| HC GAS FLOW: 4500 E3m³/D |
|---|
| WATER FLOW: 6500 m³/D |
| PRESSURE: 3900 kPag |
| TEMPERATURE: 95°C |

P-270
P-210
P-280
P-215
P-220
P-225
P-230

TEST HEADER
GROUP HEADER #1
GROUP HEADER #2

PRODUCED GAS DIL-W007-C-020-B TO B-250 TEST HEADER
METHANOL DIL-W007-C-020-B TO WELLHEADS
LP GAS DIL-W007-C-020-B TO B-250 HEADER #2
HP GAS DIL-W007-C-003-A TO PIG LAUNCHER L-104
LP GAS DIL-W007-C-000-C TO LP GAS HEADER

CONTINUATION ON DIL-W007-C-020-B

PRODUCED GAS DIL-W007-C-020-B FROM GROUP HEADER #2
PRODUCED GAS DIL-W007-C-020-B TO V-240 TEST SEPARATOR
PRODUCED GAS DIL-W007-C-020-B FROM GROUP HEADER #1
CORROSION INHIBITOR DIL-W007-C-020-B TO CHEMICAL PUMPS

**B-250**
**METER/TEST SEPARATOR SKID**

CONTINUATION ON DIL-W007-C-020-B

**T-560**

**T-550**

| PROJECT REVISION | | | | | |
|---|---|---|---|---|---|
| REV No | DATE (YYYY-MM-DD) | DESCRIPTION | DRAFTED BY | CHECKED BY | APPROVED BY |

| REFERENCE DRAWINGS | |
|---|---|
| DRAWING No | TITLE |

| NEXEN REVISION | | | APPROVAL | | |
|---|---|---|---|---|---|
| REV No | DATE (YYYY-MM-DD) | DESCRIPTION | DRAFTED BY | CHECKED BY | APPROVED BY |
| 2 | 2016-06-17 | AS-BUILT (DNS DESIGN - BC0078) | DSK | MF/AM | |
| 1 | 2014-12-10 | ISSUED FOR AS-BUILT (SMCI NE13-02197) | AOC | TWJ | MJH |
| 0 | 2012-10-25 | DRAFT TEMPLATE (NEXEN) | | | |

PROFESSIONAL STAMP | PERMIT STAMP

DATE

A CNOOC LIMITED COMPANY

**DILLY CREEK - WELLSITE EXPANSION**
**WELLHEADS**
**PROCESS FLOW DIAGRAM**

| PROJECT NUMBER | LOCATION | SCALE |
|---|---|---|
| BC0078 | c-1-J/94-O-8 | NTS |
| EPC NAME | | EPC DRAWING No. |
| SOLARIS - MCI | | NE13-02197 |
| NEXEN DWG No | | SHEET No / REV |
| DIL-W007-C-020-A | | 1 OF 2 / 2 |

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CONTINUATION
ON DIL-W007-C-020-A

PRODUCED GAS
DIL-W007-C-020-A
TO GROUP HEADER #2

PRODUCED GAS
DIL-W007-C-020-A
FROM TEST HEADER

PRODUCED GAS
DIL-W007-C-020-A
TO GROUP HEADER #1

CORROSION INHIBITOR
DIL-W007-C-020-A
TO CHEMICAL PUMPS

CONTINUATION
ON DIL-W007-C-020-A

METHANOL
DIL-W007-C-020-A
TO WELLHEADS

## P-235/240/245/260/265
## CORROSION INHIBITOR PUMPS

## V-240
## TEST SEPARATOR
SIZE: 762mm ID x 3048mm S/S
DP = 9200 kPag

**c-L1-J/94-0-8**
MAX WELLHEAD SHUT-IN PRESSURE: 34,000 kPag
EXPECTED FLOWING PRESSURE: 3,500 TO 7200 kPag
WELLHEAD TEMPERATURE: 70-110°C
GAS FLOW: 150-450 E3 $m^3$/D
WATER FLOW: 650 $m^3$/D
$H_2S$ CONTENT: 10-350 ppm (LICENSED TO 500 ppm)

**c-M1-J/94-0-8**
MAX WELLHEAD SHUT-IN PRESSURE: 34,000 kPag
EXPECTED FLOWING PRESSURE: 3,500 TO 7200 kPag
WELLHEAD TEMPERATURE: 70-110°C
GAS FLOW: 150-450 E3 $m^3$/D
WATER FLOW: 650 $m^3$/D
$H_2S$ CONTENT: 10-350 ppm (LICENSED TO 500 ppm)

**c-N1-J/94-0-8**
MAX WELLHEAD SHUT-IN PRESSURE: 34,000 kPag
EXPECTED FLOWING PRESSURE: 3,500 TO 7200 kPag
WELLHEAD TEMPERATURE: 70-110°C
GAS FLOW: 150-450 E3 $m^3$/D
WATER FLOW: 650 $m^3$/D
$H_2S$ CONTENT: 10-350 ppm (LICENSED TO 500 ppm)

**c-O1-J/94-0-8**
MAX WELLHEAD SHUT-IN PRESSURE: 34,000 kPag
EXPECTED FLOWING PRESSURE: 3,500 TO 7200 kPag
WELLHEAD TEMPERATURE: 70-110°C
GAS FLOW: 150-450 E3 $m^3$/D
WATER FLOW: 650 $m^3$/D
$H_2S$ CONTENT: 10-350 ppm (LICENSED TO 500 ppm)

**c-P1-J/94-0-8**
MAX WELLHEAD SHUT-IN PRESSURE: 34,000 kPag
EXPECTED FLOWING PRESSURE: 3,500 TO 7200 kPag
WELLHEAD TEMPERATURE: 70-110°C
GAS FLOW: 150-450 E3 $m^3$/D
WATER FLOW: 650 $m^3$/D
$H_2S$ CONTENT: 10-350 ppm (LICENSED TO 500 ppm)

PI 2562 | ESDV 2560 | SET @ 7200 kPag | PV 2566 | FE 2567
PI 2572 | ESDV 2570 | SET @ 7200 kPag | PV 2576 | FE 2577
PI 2582 | ESDV 2580 | SET @ 7200 kPag | PV 2586 | FE 2587
PI 2592 | ESDV 2590 | SET @ 7200 kPag | PV 2596 | FE 2597
PI 2612 | ESDV 2610 | SET @ 7200 kPag | PV 2616 | FE 2617

| HC GAS FLOW: 450 E3$m^3$/D |
|---|
| WATER FLOW: 650 $m^3$/D |
| PRESSURE: 7200 kPag |
| TEMPERATURE: 95°C |

P-235
P-240
P-245
P-260
P-265

TEST HEADER
GROUP HEADER #1
GROUP HEADER #2

| HC GAS FLOW: 450 E3$m^3$/D |
|---|
| WATER FLOW: 650 $m^3$/D |
| PRESSURE: 7200 kPag |
| TEMPERATURE: 95°C |

| HC GAS FLOW: 4500 E3$m^3$/D |
|---|
| WATER FLOW: 6500 $m^3$/D |
| PRESSURE: 7200 kPag |
| TEMPERATURE: 95°C |

| HC GAS FLOW: 4500 E3$m^3$/D |
|---|
| WATER FLOW: 6500 $m^3$/D |
| PRESSURE: 3900 kPag |
| TEMPERATURE: 95°C |

FE 2400 | PV 2402
V-240
FIT 2410 | LV 2410

**B-250**
**METER/TEST SEPARATOR SKID**

PRODUCED GAS
DIL-W007-C-020-A
FROM c-F1-J WELLHEAD

PRODUCED GAS
DIL-W007-C-020-A
FROM c-F1-J WELLHEAD

| PROJECT REVISION | | | | | |
|---|---|---|---|---|---|
| REV No | DATE (YYYY-MM-DD) | DESCRIPTION | DRAFTED BY | CHECKED BY | APPROVED BY |

| REFERENCE DRAWINGS | |
|---|---|
| DRAWING No | TITLE |

| NEXEN REVISION | | | APPROVAL | | |
|---|---|---|---|---|---|
| REV No | DATE (YYYY-MM-DD) | DESCRIPTION | DRAFTED BY | CHECKED BY | APPROVED BY |
| 2 | 2016-06-17 | AS-BUILT (DNS DESIGN - BC0078) | DSK | MF/AM | |
| 1 | 2014-12-10 | ISSUED FOR AS-BUILT (SMCI NE13-02197) | AOC | TWJ | MJH |
| 0 | 2012-10-25 | DRAFT TEMPLATE (NEXEN) | | | |

PROFESSIONAL STAMP | PERMIT STAMP

DATE

A CNOOC LIMITED COMPANY

**DILLY CREEK - WELLSITE EXPANSION**
**WELLHEADS**
**PROCESS FLOW DIAGRAM**

| PROJECT NUMBER | LOCATION | SCALE |
|---|---|---|
| BC0078 | c-1-J/94-0-8 | NTS |
| EPC NAME: SOLARIS - MCI | | EPC DRAWING No.: NE13-02197 |
| NEXEN DWG No: DIL-W007-C-020-B | | SHEET No: 2 OF 2 |
| | | REV: 2 |

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