



HUSKY OIL OPERATIONS LTD
JOB # I-795
UNIT # RCAA-07058
QPS CERTIFIED: QCC-44406

COMPONENTS

INLET SEPERATOR:

V-110
MAKE: PYRAMID CORPORATION
YEAR BUILT: 2007
MAWP: 550 PSI @ 600°F
CRN NO: OH08030.23
SERIAL NO: 07-2967-000B

SCREW COMPRESSOR:

C-210
MAKE: ROTORCOMP VERDICHTER
MODEL NO: NK60-GAS
INLET PRESS: MIN 0 PSI /MAX 1 PSI
MAWP DISCHARGE: 218 PSI @ 230°F
CAPACITY: 52 CFM
20 HP @ 8000 RPM
SERIAL NO: G.41004

SCREW DRIVE MOTOR:

D-310
MAKE: SUNFAB
MODEL NO: M-012WV-B4KU
27HP MAX CONTINUOUS
4800RPM MAX CONTINUOUS
SERIAL NO.: 328727

HYDRAULIC MANIFOLD:

HM-330
MAKE: HY POWER
MODEL NO: HM027107
SERIAL NO: 41116
C/W EY-3301 BY-PASS SOLENOID
MAKE: VICKERS
MODEL NO: SV3E-16-0-0-12DU 12 VDC
C/W EY-3302 SOFT START SOLENOID
MAKE: VICKERS
MODEL NO: SV3E-16-0-0-12DU 12 VDC
C/W RO-3302 SOFT START RESTRICTION ORIFICE
PART NO: 2993
ORIFICE SIZE: 3/32"



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OIL & GAS COOLER:

E-510

MAKE: GLOBAL HEAT TRANSFER
PART NO.: GHT-490
MAWP: 302PSI @ 350°F
CRN NO: OH7426.213
SERIAL NO.: 0704126024

HYDRAULIC FAN MOTOR:

D-320

MAKE: PARKER
MODEL NO: MGG20010 BC1A3
SERIAL NO: RB-2112

DISCHARGE SCRUBBER:

V-120

MAKE: PYRAMID CORPORATION
YEAR BUILT: 2007
MAWP: 550 PSI @ 600°F
CRN NO: OH08030.23
SERIAL NO: 07-2967-0000A

PUMP:

P-610

MAKE: SANDPIPER
MODEL NO: PCC5, GABTXNSX
MWP: 100 PSI
FLOW RATE: 0-15 gpm
SERIAL NO: 1517592

FILTERS:

F-810 / F-820

MAKE: FLAIR
MAWP: 232 PSI @ 149°F
FILTER MODEL NO: HF 90
ELEMENT MODEL NO: HFD 90
CRN NO: OH5142.51263
C/W DIFFERENTIAL PRESSURE GAUGE



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RIGHT DRYING TOWER:

V-140
MAKE: PYRAMID CORPORATION
YEAR BUILT: 2007
MAWP: 600 PSI @ 400°F
MDMT: -20°F @ 600 PSI
CORRISION ALLOWANCE: .0625"
CRN NO: OH08027.23
SERIAL NO: 07-2966-0000K
C/w ACTIVATED ALUMINA STRAINERS
MAKE: CROWN WEST
PART NO: STRAINERAA
LOT NO: CWC544862A

LEFT DRYING TOWER:

V-130
MAKE: PYRAMID CORPORATION
YEAR BUILT: 2007
MAWP: 600 PSI @ 400°F
MDMT: -20°F @ 600 PSI
CORRISION ALLOWANCE: .0625"
CRN NO: OH08027.23
SERIAL NO: 07-2966-0000N
C/w ACTIVATED ALUMINA STRAINERS
MAKE: CROWN WEST
PART NO: STRAINERAA
LOT NO: CWC544862A

HEATER:

H-410
MAKE: CATA-DYNE
MODEL NO: MKII 1224
STARTING VOLTS: 120
SERIAL NO: 323697
c/w HV-4104
EXHAUST VENT HOOD

FLOW METER:

FM-1401
MAKE: ROOTS METER
MODEL NO: 8C175
MAX PRESSURE: 174 PSI
SERIAL NO: 0723459



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PSV'S:

PSV-1101 PRESSURE SAFETY VALVE

MAKE: MERCER
MODEL NO: 91-17D51V01E1
CRN NO: OG8841.5C
SCFM: 60
SET PRESSURE: 15 PSI
SERIAL NO: 329207

PSV-2101 PRESSURE SAFETY VALVE

MAKE: MERCER
MODEL NO: 91-17D51V07E1
CRN NO: OG8841.5C
SCFM: 329
SET PRESSURE: 150 PSI
SERIAL NO: 330369

PSV-1401 PRESSURE SAFETY VALVE

MAKE: MERCER
MODEL NO: 91-17D51V06E1
CRN NO: OG8841.5C
SCFM: 188
SET PRESSURE: 80 PSI
SERIAL NO: 329238

CONTROL VALVES:

LC-1101 LEVEL CONTROLLER

MAKE: MURPHY
MODEL NO: L1200NDVO
PART NO: 15700078; P4054

PRV-1101 PRESSURE RELIEF VALVE

MAKE: FISHER
MODEL NO: 289H-42
SPRING RANGE: 4-15 PSI

LCV-1201 LEVEL CONTROL VALVE

MAKE: WATSON MCDANIEL
MODEL NO: PMD 1810-400
MAWP: 600 PSIG @ 500°F
CRN: OE3324.52



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FCV-3101 FLOW CONTROL VALVE

MAKE: PARKER
MODEL NO: N600S-11KW
MAWP: 5000 PSI
FLOW RATE: 8 GPM

BPCV-1401 BACK PRESSURE CONTROL VALVE

MAKE: KIMRAY
MODEL NO: 130 SGT BP
MAWP: 300 PSI
DESIGN PRESSURE: 300 PSI

PCV-1102 PRESSURE CONTROL VALVE

MAKE: KIMRAY
MODEL NO: 1.2 SGT OPR
MAWP: 175 PSI / SPRING RANGE 2.5 PSI

ACV-1401 AIR CONTROL VALVE

FAIL OPEN
MAKE: BURKERT
MODEL NO.: NPT 1/2" PMED 232 PSI
PILOT PRESSURE RANGE: 29 -145 PSI
PART NO: 454612

ACV-1301 AIR CONTROL VALVE

FAIL CLOSE
MAKE: BURKERT
MODEL NO.: NPT 1/2" PMED 232 PSI
PILOT PRESSURE RANGE: 39-145 PSI
PART NO: 454626

ACV-1302 / ACV-1402 AIR CONTROL VALVE FAIL CLOSE

MAKE: BURKERT
MODEL NO.: NPT 1/2" PMED 232 PSI
PILOT PRESSURE RANGE: 39-145 PSI
PART NO: 454626



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TCV-2101 PRESSURE OIL MIXING THERMOSTATIC VALVE

MAKE: AMOT
MODEL: 3/4CMAT18001
TEMPERATURE SET: 180°F

PCV-1301 PRESSURE CONTROL VALVE

MAKE: FISHER
MODEL: 67CFR-601SC
SPRING RANGE: 0-125 PSI
MAX SUPPLY: 250 PSI

PCV-1302 PRESSURE CONTROL VALVE

MAKE: FISHER
MODEL: 67CFR-601SC
SPRING RANGE: 0-125 PSI
MAX SUPPLY: 250 PSI

PCV-1401 PRESSURE CONTROL VALVE

MAKE: FISHER
MODEL NO: 627-496
SPRING RANGE: 5-20 PSI
1/2" ORIFICE

PCV-1402 PRESSURE CONTROL VALVE

MAKE: FISHER
MODEL NO: 627-499
SPRING RANGE: 70-150 PSI
1/2" ORIFICE

PCV-4101 PRESSURE CONTROL VALVE

MAKE: FISHER
MODEL NO: 912

TCV-4101 TEMPERATURE CONTROL VALVE

MAKE: CCI THERMAL
MODEL NO: AC-TC-4000N-7



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COMPONENTS CONTINUED

PCV-4102 PRESSURE CONTROL VALVE
MAKE: CCI THERMAL
MODEL NO: RTZ-11-15B

ESDV-4101 100% SHUT OFF VALVE
MAKE: CCI THERMAL
MODEL NO: ASV-375
MAX. PRESSURE: ½ PSI

ELECTRICAL:

LSH-1101 LEVEL SWITCH HIGH
MAKE: KIMRAY
MODEL NO: 2200 SLS M/OS
MAWP: 2000 PSI

PSL-2101 LOW SUCTION PRESSURE SWITCH
MAKE: CCS
MODEL NO: 646GE1
SET RANGE: 1.2 - 16 PSI
SET @ 0.5 PSI DECREASING
SERIAL NO.: 271381-0507-23

PSH-2101 HIGH DISCHARGE PRESSURE SWITCH
MAKE: CCS
MODEL NO: 6900GE18
SET RANGE: 30 - 375 PSIG
SET @ 145 PSI INCREASING
SERIAL NO.: 272049-0507-3

TSH-2101 HIGH DISCHARGE TEMPERATURE SWITCH
MAKE: CCS
MODEL NO: 6900TUE16
SET RANGE: 185 - 315°F
SET @ 215°F INCREASING
SERIAL NO.: 271381-0507-16

TW-2101 THERMOWELL
SIZE: 1" x ½" x 6" STEM x 3/8" BORE
MATERIAL: 316 SS



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GY-1401 SOLENOID

MAKE: ASCO
MODEL NO: EF8320G200 12V

GY-1301 / GY-1302 SOLENOID

MAKE: ASCO
MODEL NO: EF8320G200 12V

PANEL ELECTRICAL:

DRYER SWITCHING PANEL

MAKE: PYRAMID CORPORATION
CAT NO: ANNUNCIATOR PANEL
QPS CERTIFIED: QCC-44138
12 VDC / 6 AMPS
Mounted in
INDUSTRIAL CONTROL PANEL
ENCLOSURE
MAKE: HOFFMAN
CAT NO: CSD12126W
c/w PROGRAMMABLE LOGIC CONTROL
MAKE: EATON
CAT NO.: EZ719-DA-RC

HS-9101 HAND SWITCH

MAKE: ALLEN-BRADLEY
MODEL: 800T-H2, 800T-XD1P

RB-9101 RESET BUTTON

MAKE: ALLEN-BRADLEY
MODEL: 800T-XD1P

PRESSURE GAUGES & TEMPERATURE INDICATORS:

PI-1101 PRESSURE INDICATOR

MAKE: WIKA SS LF
SCALE: 0-30 PSI / 0-205 KPA
SIZE: 1/4" LM X 2 1/2" FACE

PI-1102 PRESSURE INDICATOR

MAKE: WIKA
SCALE: -30" HG TO 15 PSI
SIZE: 1/4" LM X 1 1/2" FACE



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COMPONENTS CONTINUED

PI-2101 PRESSURE INDICATOR

MAKE: WIKA SS LF
SCALE: 0-200 PSI / 0-1350 KPA
SIZE: 1/4" LM X 2 1/2" FACE

PI-3101 PRESSURE INDICATOR

MAKE: WIKA SS LF
SCALE: 0-5000 PSI / 0-34000 KPA
SIZE: 1/4" LM X 2 1/2" FACE

PI-1301 / PI-1401 PRESSURE INDICATOR

MAKE: WIKA SS LF
SCALE: 0-200 PSI / 0-1350 KPA
SIZE: 1/4" LM X 2 1/2" FACE

PI-1402 PRESSURE INDICATOR

MAKE: WIKA
SCALE: 0-300 PSI
SIZE: 1/4" LM X 1" FACE

PI-1403 PRESSURE INDICATOR

MAKE: WIKA SS LF
SCALE: 0-200 PSI / 0-1350 KPA
SIZE: 1/4" LM X 2 1/2" FACE

PI-1302 PRESSURE INDICATOR

MAKE: WIKA SS LF
SCALE: 0-160 PSI / 0-1100 KPA
SIZE: 1/4" LM X 2 1/2" FACE

PI-1303 PRESSURE INDICATOR

MAKE: WIKA SS LF
SCALE: 0-160 PSI / 0-1100 KPA
SIZE: 1/4" LM X 2 1/2" FACE

TI-2101 / TI-5101 TEMPERATURE INDICATOR

MAKE: TREND
SCALE: 50 TO 500°F / 10 TO 260°C
SIZE: 1/2" CBM X 3" FACE X 2 1/2" STEM



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TW-2102 / TW-5101 THERMOWELL
SIZE: 1" x 1/2" x 2 1/2" STEM x STD BORE
MATERIAL: 316 SS

TI-1301 / TI-1401 TEMPERATURE
INDICATOR
MAKE: TREND
SCALE: 0 TO 250°F / -20 TO 120°C
SIZE: 1/2" CBM X 3" FACE X 4" STEM

TW-3101 / TW-1401 THERMOWELL
SIZE: 1" x 1/2" x 4" STEM x STD BORE
MATERIAL: 316 SS

MISC:

SG-1101 / SG-1102 SIGHT GLASS
MAKE: LUBE DEVICES INC.
MODEL NO: LSP51-06

SG-1201 SIGHT GLASS
MAKE: LUBE DEVICES INC.
MODEL NO: LSP51-06

SG-1301 / SG-1401 SIGHT GLASS
MAKE: LUBE DEVICES INC.
MODEL NO: LSP51-06



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VALVES:

1 1/2" Y STRAINER
MAKE: ALBERTA STRAINER
MODEL: 1 1/2" YS800 C.S. SCR D
HEAT CODE: 2980D

1 1/2" FP SWING CHECK VALVE
MAKE: NEWCO
FIG.: BR-507
800-PSI WOG
HEAT CODE: BDDO / BDOR

1 1/2" x 8 1/2" FLEX HOSE
MAKE: FLEXTECH
MAWP: 488 PSI @ 70°F
CRN: OD.2887.123456
SERIAL: PC060127

1" FP SS BALL VALVE
MAKE: MA STEWART
MODEL: G-2
2000-PSI WOG
CRN: OC0374.123456789
HEAT CODE: 0906, 1006

1" FP PISTON CHECK VALVE
MAKE: NEWCO
FIG.: BR-305
800-PSI WOG
HEAT CODE: BEIP / BECT

1" x 1/2" x 8 1/2" FLEX HOSE
MAKE: FLEXTECH
MAWP: 750 PSI @ 70°F
CRN: OD.2887.123456
SERIAL: PC060167

3/4" HYDRAULIC HOSE
MAKE: AEROQUIP
PART NO.: FC659-12 DN19
SAE 100R12
MAWP: 4000 PSI



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COMPONENTS CONTINUED

1/2" FP SS BALL VALVE
MAKE: MA STEWART
MODEL: G-2
2000-PSI WOG
CRN: OC0374.123456789
HEAT CODE: 0206, 0906, 1206

1/2" SWING CHECK VALVE
MAKE: NEWCO
FIG.: B-503
800-PSI WOG
HEAT CODE: BDTX / BEBL

1/2" HYDRAULIC HOSE
MAKE: AEROQUIP
PART NO.: GH781-8
EN857/2SC/12/2005
MAWP: 4250 PSI

3/8" RP SS BALL VALVE
MAKE: W & F
MODEL: MH 27906

1/4" F X F NEEDLE BALL VALVE
MAKE: ANDERSON GREENWOOD
MODEL NO: H5RDC-2
MAWP: 6000 PSI @ 200°F

1/4" F X M NEEDLE BALL VALVE
MAKE: ANDERSON GREENWOOD
MODEL NO: H5RDC-22
MAWP: 6000 PSI @ 200°F

TUBING: 1/2" X 0.035 WALL
HEAT CODE: 4507046

3/8" X 0.035 WALL
HEAT CODE: 672-1337

1/4" X 0.035 WALL
HEAT CODE: 672-0867



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FITTINGS:

DESCRIPTION:	GRADE:	HEAT NO:
2" FS THRD UNION 3000	SA-105N	UU4
2" FS THRD 90° ELL 2000	SA-105N	FIE
2" X 1/2" FS THRD RED TEE 3000	SA-105N	ERF
2" X 2 1/2" XS NIPPLE	SA-106B	56071
2" X 1 1/2" XS SWAGE TBE	SA234-WPB	B621
2" FS THRD PLUG	SA-105N	EEK
1 1/2" FS THRD UNION 3000	SA-105N	UP5
1 1/2" FS THRD 90° ELL 2000	SA-105N	2571
1 1/2" FS THRD TEE 2000	SA-105N	H88
1 1/2" X 5" XS NIPPLE	SA-106B	60553
1 1/2" X 3" XS NIPPLE	SA-106B	60553
1 1/2" X 2 1/2" XS NIPPLE	SA-106B	AI91, 55523
1 1/2" X 2" XS NIPPLE	SA-106B	PWS
1 1/2" X 1" XS SWAGE TBE	SA234-WPB	33798
1 1/2" X 1/4" XS SWAGE TBE	SA234-WPB	33798
1" FS THRD UNION 3000	SA-105N	UU, UX4
1" FS THRD 90° ELL 2000	SA-105N	DSL
1" FS THRD TEE 2000	SA-105N	TE4
1" FS THRD CROSS 3000	SA-105N	HBO
1" X 1/2" FS THRD RED TEE 3000	SA-105N	H89, 2610
1" FS THRD COUPLING 3000	SA-105N	LLCB, DXBA, AB079
1" X 8" XS NIPPLE	SA-106B	88T, AI92
1" X 7" XS NIPPLE	SA-106B	R4D
1" X 6 1/2" XS NIPPLE	SA-106B	AI92
1" X 6" XS NIPPLE	SA-106B	9WF, AH75, 86S
1" X 5 1/2" XS NIPPLE	SA-106B	62885
1" X 5" XS NIPPLE	SA-106B	62885
1" X 4" XS NIPPLE	SA-106B	62885
1" X 3 1/2" XS NIPPLE	SA-106B	FB5650
1" X 3" XS NIPPLE	SA-106B	62885
1" X 2 1/2" XS NIPPLE	SA-106B	AG71, 62885
1" X 2" XS NIPPLE	SA-106B	S3T, AI92



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FITTINGS CONTINUED:

DESCRIPTION:	GRADE:	HEAT NO:
1" X 1/2" XS SWAGE TBE	SA234-WPB	78196
1" X 1/4" XS SWAGE TBE	SA234-WPB	78196, AIEE
1" X 1/4" XS BUSHING	SA-105N	C15
1" FS THRD PLUG	SA-105N	2381, 2605
3/4" FS THRD 90° ELL 2000	SA-105N	GU1
3/4" FS THRD TEE 2000	SA-105N	TM6
3/4" X 5" XS NIPPLE	SA-106B	23627
3/4" X 4" XS NIPPLE	SA-106B	93440
3/4" X 1/2" XS BUSHING	SA-105N	2362
3/4" X 1/2" XS SWAGE TBE	SA234-WPB	AIAC
1/2" FS THRD UNION 3000	SA-105N	152AAAA
1/2" FS THRD 90° ELL 2000	SA-105N	AB038
1/2" FS THRD TEE 2000	SA-105N	TN9
1/2" X 8" XS NIPPLE	SA-106B	QXW
1/2" X 7" XS NIPPLE	SA-106B	AI90, NDL
1/2" X 6" XS NIPPLE	SA-106B	64239
1/2" X 5 1/2" XS NIPPLE	SA-106B	64239
1/2" X 5" XS NIPPLE	SA-106B	55175
1/2" X 4 1/2" XS NIPPLE	SA-106B	55175
1/2" X 4" XS NIPPLE	SA-106B	NDL, 64239, 89Q
1/2" X 3 1/2" XS NIPPLE	SA-106B	R7Y
1/2" X 3" XS NIPPLE	SA-106B	55175
1/2" X 2 1/2" XS NIPPLE	SA-106B	55175
1/2" X 2" XS NIPPLE	SA-106B	55175
1/2" X 1 1/2" XS NIPPLE	SA-106B	QXW, AI90
1/2" X 1/4" XS SWAGE	SA234-WPB	2144
1/2" FS THRD PLUG	SA-105N	LBTT, 2580
3/8" X 1 1/2" XS NIPPLE	SA-106B	95492
3/8" X 1/4" XS SWAGE TBE	SA234-WPB	75988



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DESCRIPTION:	GRADE:	HEAT NO:
1/4" FS THRD 90° ELL 2000	SA-105N	FRBS, 2314
1/4" FS THRD TEE 3000	SA-105N	2144
1/4" FS THRD CROSS 2000	SA-105N	TP7, TE3
1/4" X 3" XS NIPPLE	SA-106B	55287
1/4" X 2" XS NIPPLE	SA-106B	Q5F
1/4" X 1 1/2" XS NIPPLE	SA-106B	Q5F
1/4" FS THRD PLUG	SA-105N	MZ, B, CALA

PIPE:

2" SCH 80 SMLS PIPE	SA-106B	2-CC
1 1/2" SCH 80 SMLS PIPE	SA-106B	1.5-Q
1" SCH 80 SMLS PIPE	SA-106B	1-LB
1/2" SCH 80 SMLS PIPE	SA-106B	.5-N



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MECHANICAL INFORMATION

COMPRESSOR OIL

SUMMIT NGP-100

SYNTHETIC BLEND LUBRICANT

SUPPLIED BY CHRIS PAGE & ASSC.

COMPRESSOR COALESCING FILTER

C/w COMPRESSOR C-210

PART NO: 12476

MAWP: 250PSI @ 230°F

COMPRESSOR OIL PARTICULATE FILTER

C/w COMPRESSOR C-210

PART NO: R2979

MAWP: 250PSI @ 230°F

ROOTS METER LUBE OIL

H.V.I R&O AW ISO VG15 METER OIL

PETROLEUM HYDROCARBON

AMERICAN REFINING GROUP INC.

DRYING TOWER MEDIA

ALCOA INDUSTRIAL CHEMICALS

ACTIVATED ALUMINA (ALL GRADES) SOLID F-200

ALUMINUM OXIDE

SUPPLIED BY BRENNTAG STINNES LOGISTICS