



DOCUMENT NUMBER	DS-2-V-600	MR#	AB-0439-002-MAT-1100-001	PAGE	1	OF	3
CLIENT	Husky Energy	JOB No.	AB0439-002				
PROJECT	Ansell Compression Expansion	TAG NO.	2-V-600				
PLANT LOCATION:	07-27-51-19W5M	SERVICE	Sweet Gas Flare Knockout Drum				
SELLER/MANUFACTURER	PYRAMID PROCESS FABRICATORS	QUANTITY	1 (ONE)				

FLARE KO DRUM DATA SHEET

** SELLER / MANUFACTURER TO SPECIFY

DESIGN DATA (Note 7)

DESIGN CODES	ASME Section VIII Div 1	'U' STAMP	No
OPERATE (internal)	14 to 46	kPag	5 to 120 °C
OPERATE (external)	Atm	kPag	Ambient °C
DESIGN (internal)	345/FULL VACUUM	kPag	150 °C
DESIGN (external)	Atm	kPag	Ambient °C
HYDRO TEST	Required	kPag	
MDMT	-45	°C	
PWHT			
INTERNAL DIA.	1981 (78")	mm	
LENGTH (S/S)	5791 (19'-0")	mm	
☒ SWEET SERVICE	☐ SOUR SERVICE		
REGISTERED	☒ YES ☐ NO	PROVINCE OF	AB
TYPE	Cylindrical	HEAD	2:1 S.E
MATERIAL	SA 516-70N	SA 516-70N	
DESIGN THICK. (mm)	5/8 "	3/4 "	
CORROSION ALL. (mm)	3.2mm(0.125")	3.2mm(0.125")	
TOTAL MIN. THICK (mm)	**	**	
JOINT EFF (SHELL/HEAD)	1	1	

WEIGHTS

LESS INTERNALS (kg)	**	INTERNALS WT (kg)	**
OPERATING WT (kg)	**	HYDROTEST WT (kg)	**

SITE CONDITIONS (Note 2)

WIND PRESSURE (kPa)	EARTHQUAKE ZONE
RELATIVE HUMIDITY (%)	OTHER

INSULATION - NOTE 3

TYPE	Mineral Wool	THICKNESS	2" (50 mm)
CLADDING	Aluminum 0.02" (0.5mm)	TRACING	NOTE 11

NON-DESTRUCTIVE TESTING

RT	FULL UW-11(a) RT-1	VISUAL	100% after Hydro
WFMT	per Husky Spec	HARDNESS	per Husky Spec
MT	100% for lifting lugs	TESTING	per Husky Spec
UT	per Husky Spec		

MATERIALS OF CONSTRUCTION - (Note 8)

SHELL	SA516-70N	GASKET	316 SS spiral wound
HEADS	SA516-70N	STUD BOLTS	SA193 Gr. B7M
PIPE	SA333 Gr. 6	NUTS	SA194 Grade 2HM
FITTINGS	SA420 Gr. WPL 6	STRUCT	SA-36
FORGING / FLANGES	SA350-LF2 C1.1	INTERNAL	SA-36
NOZZ. NECKS	SA333 Gr.6	LIFTING LUGS	SA516-70N

FABRICATOR TO FURNISH

NOTES

☐	SKIRT & BASE RING	
☐	LEGS	
☒	SADDLES	c/w wear pads
☒	PLATFORM CLIPS	Required
☒	PLATFORMS	option - included
☒	LADDER CLIPS	Required
☒	LADDERS	option - included
☒	INSULATION RINGS	Required
☒	PIPE SUPPORT CLIPS	Required
☒	PIPE SUPPORTS	Required
☒	TOP DAVIT	Required
☒	MANWAY DAVIT	Required
☒	VENTILATION HINGE	Hinge required for ventilation nozzle blind
☐	PAINTERS TROLLEY	
☐	TRAY SUPPORT RINGS	
☐	SEAL PAN SUPPORT	
☐	MIST ELIMINATOR	
☐	MIST ELIMINATOR SUPPORT	
☐	BOOT	

NOTES

☐	DOWNCOMER SUPPORTS	
☐	ANCHOR BOLT CHAIRS	
☐	SUPPORT GRID	
☐	PIPE COIL	
☒	LIFTING LUGS	Required (Note 12)
☐	TAILING LUG	
☒	STEEL SKID	
☒	VESSEL SURFACE	SSPC-SP6/ self priming/ 2 coats Devguard 4338
☒	INTERNAL COATING	SSPC-SP6/ 2 Coats Rustoleum 7086
☒	GROUND LUGS	SSPC-SP5/ 2 Coats Devco Devchem 253
☒	INLET NOZZLE DEFLECTOR	One on each saddle
☒	SPECIAL NOZZLE BREAKER	included for nozzle N1-vapor inlet
☒	VORTEX BREAKER(S)	
☒	SYPHON DRAIN	Qty =2 included for nozzles N6 and N11
☒	STUDS & NUTS	Yes plus 10% spare
☒	GASKETS	Note 10
☒	BLIND FLANGES	
☐	EXPANSION CLIPS	
☐	CABLE TRAY CLIPS	

NOZZLE CONNECTION SCHEDULE (NOTE 6)

MARK	SIZE	QTY	09 Mar 07	RATING	TYPE	MARK	SIZE	QTY	SERVICE	RATING	TYPE
N1	8"	1	VAPOR INLET c/w DIVERTER	150#	RFWN	N8	2"	1	PRESSURE INDICATOR	150#	RFWN
N2	8"	1	VAPOR OUTLET	150#	RFWN	N9	3"	1	SPARE/ BLINDED	150#	RFWN
N3 A/B	3"	2	LT/LG BRIDLE	150#	RFWN	N10	10"	1	VENTILATION / BLINDED	150#	RFWN
N4	2"	1	HLSD	150#	RFWN	N11	3"	1	TRUCKOUT c/w vortex breaker, 3" Ball Valve RP and Camlock fitting	150#	RFWN
N5	3"	1	SPARE/ BLINDED	150#	RFWN	N12	2"	1	LIQUID INLET	150#	RFWN
N6	3"	1	DRAIN	150#	RFWN	M1	24"	1	MANWAY BLINDED (NOTE 5)	150#	RFWN
N7	2"	1	TEMP. INDICATOR	150#	RFWN						

REMARKS: ** Vendor to complete data and specify in quotation
See page 3 for NOTES

Rev	DESCRIPTION	DATE	PROC	MECH	LEAD	PE/PM
x	Issued for Review	26-Jan-07	DT	FC	TA	BC
A	Issued for Quotation	29 Jan 07	DT	FC	TA	BC
0	Issued for Purchase	28 Feb 07	AV	FC	MM	BC
1	Issued for Purchase	09 Mar 07	AV	FC	MM	BC
2	Issued for Purchase	19 Mar 07	AV	FC	MM	BC
3	Issued for Purchase	22 Mar 07	AV	FC	MM	BC
4	Issued for Purchase	23 Apr 07	AV/JG	FC	MM	BC

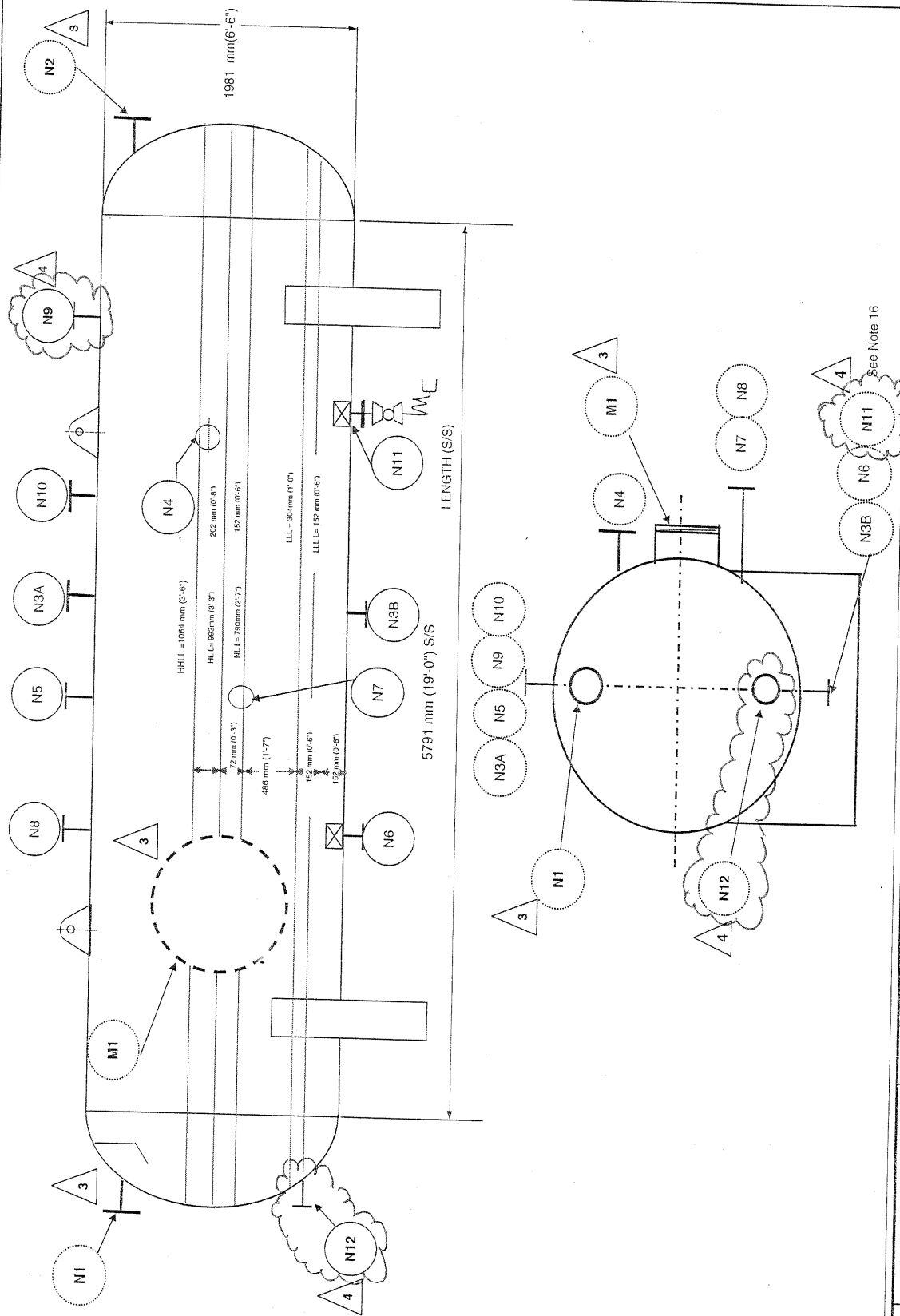
Data Sheet Number

Rev

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NOTE: FKOD NOZZLES ORIENTATION ARE PRELIMINARY



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CLIENT HUSKY ENERGY JOB AB-0439-002
PROJECT Ansell Compression Expansion TAG NO. 2-V-600
PLANT LOCATION: 07-27-51-19-W5M SERVICE Sweet Gas Flare knockout drum
SIZE 1981 mm ID x 5791 mm S/S QUANTITY 1

FLARE KO DRUM DATA SHEET

Seller/ Manufacturer: PYRAMID PROCESS FABRICATORS

ENGINEERING NOTES

- 1) *deleted*
- 2) Refer to the Site Data Sheet AB0439-002 DS-SITE for ambient design conditions.
- 3) The vessel must be fully insulated by the Selier based on Husky specs DS-MW-05
- 4) *deleted*
- 5) Manway handhold must be provided. Handhold is attached to the inside of the vessel.
- 6) Nozzle projections, measured from the OD of the vessel, must be a minimum of:
3 NPS and less: 150mm; 4 NPS to 10 NPS: 200mm; 12 NPS and greater: 250mm
- 7) The vessel is sized to accomodate 10 m³ HC Drain from the plant during emergency shut down.
- 8.) Material for construction must adhere to Husky Specs DS-MW-01 and PS-VT-01.
- 9.) The vessel must be registered by the Selier in Alberta.
- 10.) Gaskets from hydro- test shall not be reused- Selier shall furnish a full, new set of gaskets.
Extra gaskets shall also be provided for blinded connections.
- 11.) The vessel's half bottom is to be electrically heat traced to maintain vessel's content temperature to above 10°C.
- 12.) Lift lugs shall receive 100% MT.
- 13.) *deleted*
- 14.) The vendor to provide truck out connection with ball valve and camlock fitting
- 15.) KO drum 316SS nameplate.
- 16.) The truck out connection (N11), must be provided with 2" mineral wool c/w 0.02" smooth aluminum
cladding and with electrical heat tracing, self - regulating, HTSX, 120V input up to the end of the ball valve.



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