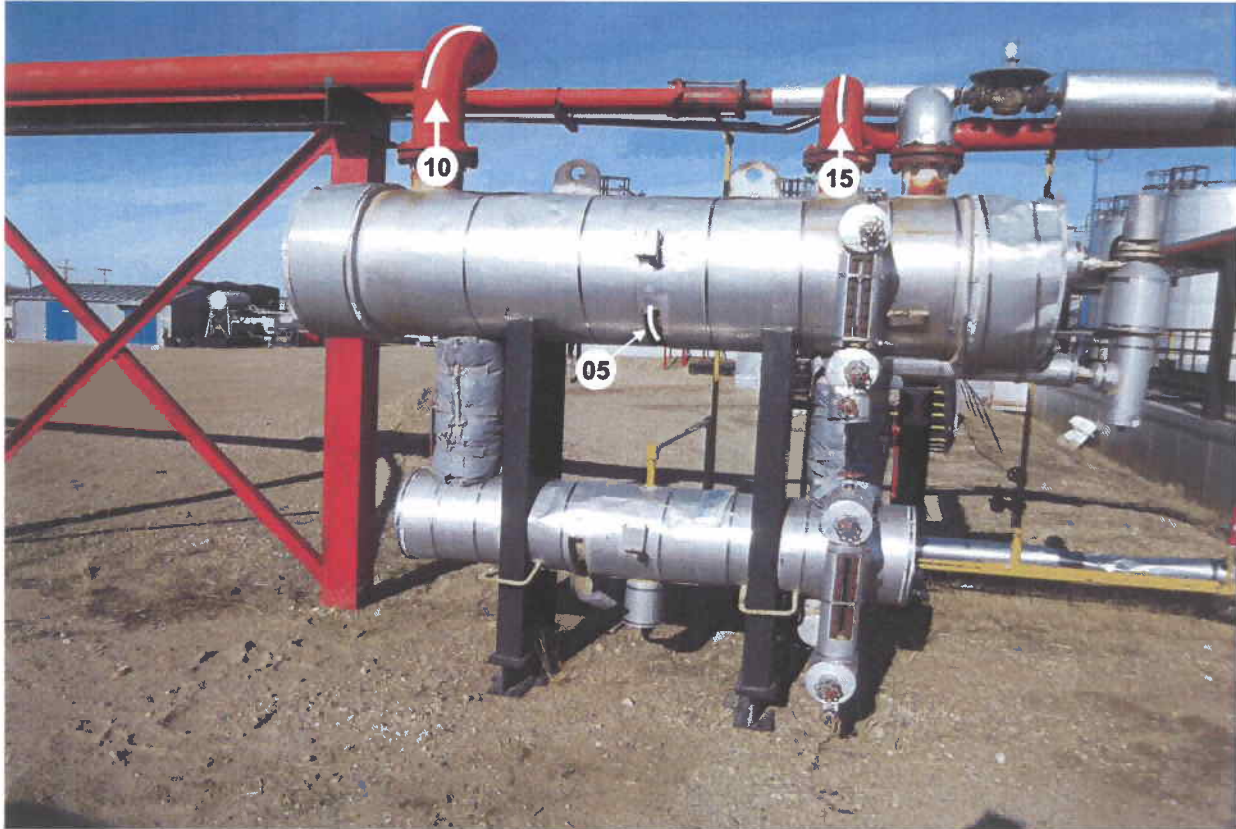
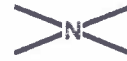


GENERAL PRESSURE VESSEL INFORMATION						
District: Lloydminster			Skid No.:			
Facility: AB NORTH			Location (LSD): 10-34-051-04W4			
Name & Equip No: FLARE KNOCKOUT DRUM - 1000218			Orientation: Horizontal			
Company: Husky 62066381			Cost Code:			
Status: Operating			Operating Province: Alberta			
Unit:						
ABSA						
Plant:			Vessel:			
Process:			Special:			
Amount(\$):						
PRESSURE VESSEL NAMEPLATE DATA						
Registration Number:			Registration Number (Other):			
Serial Number: F-1018			CRN Number:			
MAWP: 15.00 (psi)		103.42 (Kpa)	AT temperature: 150.00 (F)		65.56 (C)	
Size (diam. x length): 24.00 x 120.00(In)		609.60 x 048.00 (mm)	Manufacturer: FLO-SKID MANUFACTURING INC			
X-Ray: RT3		Lining Or Coated:				
Year Built: 1985		Heat Treatment: No				
Code parameters:		Corrosion allowance: (In)		0.00 (mm)		
		Manway: No				
PIPING NAMEPLATE DATA						
Primary Flange Rating: 150		ASME B16.5 - Table 2-1.1 @ 150F:		285 (psi)		
Pressure Use For TMin: Vess Design Press		Piping Operating Press:		15 (psi)		
Stress Value: 20000 (psi)		E Value:		1		
Comments:						
SERVICE CONDITIONS-INDICATE ALL THAT APPLY						
Sweet <input checked="" type="checkbox"/>		Sour	Oil	Gas	Water	
Amine		LPG	Condensate	Air	Glycol	
Other (Describe):						
COMPONENTS						
Name	Joint Efficiency	Outside Diameter(in.)	Head Type	Material Type	Stress Value (PSI)	Nominal Thickness(Inch)
SHELL	0.85	24.00		Unknown	15000	
HEAD	1.00	24.00	Flat	Unknown	15000	
GENERAL COMMENTS						
PREVIOUS TAG# 3008834 PIC: 95 - 98.						



OWNER: HUSKY	SERIAL # F-1018	NOTES
EQUIPMENT NAME: FLARE KNOCKOUT DRUM	NB#	
REGISTRATION #	OWNER ID	
EQUIPMENT #		

## ULTRASONIC CORROSION SURVEY REPORT

EQUIP NAME: FLARE KNOCKOUT DRUM  
 PROV REG:  
 EQUIP #: 1000218

SERIAL #: F-1018  
 CRN:

DISTRICT: Lloydminster  
 FACILITY: AB NORTH  
 LSD: 10-34-051-04W4

### SUMMARY

TYPE	LAST INSPECTION	INSPECTION INTERVAL (YEARS)	CORROSION RATE (IN/YR)		REMAINING HALF LIFE (YEARS)	GOVERNING INSPECTION INTERVAL	NEXT INSPECTION DATE
			SHORT TERM	LONG TERM			
VESSEL	May 10, 2012	5.0	0.0032	0.0032	40.7	REGULATORY	May 10, 2017
PIPING	May 10, 2012	5.0	0.0057	0.0057	24.3		

### VESSEL SURVEY READINGS

POINT NUMBER	TYPE	POINT DATA (INCH)			SURVEY READINGS			CALCULATIONS			Flag	
		NOM.	C.A.	NOM-CA	DATE	LOW	AVG	T Req (inch)	short term corr rate	long term corr rate		remaining half life
05	Shell	0.0000	0.0000	0.0000	May 10/12	0.271	0.285	0.014	0.0032	0.0032	40.7	NO COMMENTS
					Oct 13/10	0.276	0.280	0.014				

### PIPING SURVEY READINGS

POINT NUMBER	TYPE	POINT DATA (INCH)			SURVEY READINGS			T Req (inch)	CALCULATIONS			Flag
		NOM.	Mill Tot./CA	NOM- CA	DATE	LOW	AVG		short term corr rate	long term corr rate	remaining half life	
10	90L 8 STD	0.3220	0.0403	0.2818	May 10/12	0.302	0.320	0.003	0.0000	0.0000	99.0	NO COMMENTS
					Oct 13/10	0.302	0.315	0.003				
15	90L 6 STD	0.2800	0.0350	0.2450	May 10/12	0.279	0.300	0.002	0.0057	0.0057	24.3	NO COMMENTS
					Oct 13/10	0.288	0.300	0.002				

## Field Inspection Report

- Husky

1,213

<b>Registration #:</b>		<b>Equipment Name:</b>	FLARE KNOCKOUT DRUM	<b>Province:</b>	
<b>District:</b>	Lloydminster	<b>LSD:</b>	10-34-051-04W4	<b>Location:</b>	AB NORTH
<b>CRN:</b>		<b>Skid Number:</b>		<b>Service:</b>	
<b>Manway:</b>	No	<b>Coating:</b>		<b>Equipment Number:</b>	1000218
<b>MAWP (psi):</b>	15.00 (psi)	<b>Temp:</b>	150.00 (F)	<b>Serial Number:</b>	F-1018
<b>Outstanding NCR's:</b>	No	<b>No.:</b>	0		
<b>General:</b>					


## Safety Valves

Side:	MAWP (psi)	MAWP (kPa)	PSV No.	Set Press (psi)	Set Press (kPa)	Capacity Imperial	Imperial Units	Capacity Metric	Metric Units
	15.00	103.42			0.00		SCFM		
<b>Status:</b>	Operating		<b>Examination Methods:</b>			<b>Access:</b>	EXTERNAL		<b>Cleaning:</b>

## External Inspection

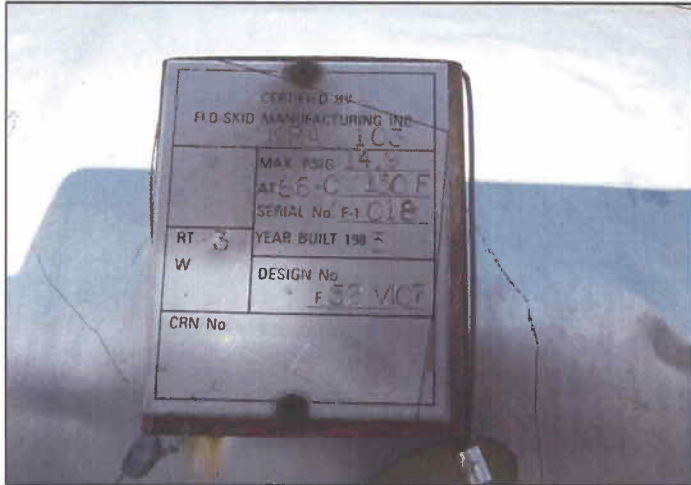
<b>Inspection Date:</b>	May 10, 2012	<b>Inspection Interval:</b>	60	<b>Next Insp. Date:</b>	May 10, 2017
<b>Item</b>	<b>Condition</b>	<b>Inspection Comments</b>			
Insulation	Accept	SOME MINOR DENTING NOTED.			
External Condition	N/A	UNDER INSULATION.			
Leakage	Accept	NO LEAKAGE NOTED.			
Skirt/Saddle	Accept	SADDLE IN GOOD CONDITION.			
Anchor Bolts	N/A	WELDED TO PILINGS.			
Concrete Foundation	N/A				
Ladder/Platform	N/A				
Nozzle	N/A	UNDER INSULATION.			
Gauges	N/A	NO GAUGES NOTED.			
External Piping	Accept	WELL SUPPORTED AND CONNECTED.			
Valving	Accept	NO LEAKS NOTED.			
PSV	N/A	ATMOSPHERIC VESSEL.			
NDE Methods	Accept	UT/VT.			
Other	N/A				
<b>Recommendations:</b>	FIT FOR SERVICE.		<b>Inspected By:</b>	Roger Dlugosz	<b>ABSA PESL #:</b> 000566

**INSPECTOR :** I have witnessed/done the above inspections and certify that they have been done in accordance with our approved manual and that the information is accurate. I certify that the status of the Pressure equipment detailed here is:

<b>Suitable to be returned to service</b>	Yes	<b>Repairs complete(AB-40 attached)</b>	
<b>Repairs are still required:</b>		<b>Suggested Inspection interval:</b>	60
<b>Inspector:</b>	Roger Dlugosz	<b>ABSA PESL #:</b>	000566
<b>Signature:</b>			<b>Date:</b> May 10, 2012

*Ray Trachuk* JUL 10 2012 *Syn*





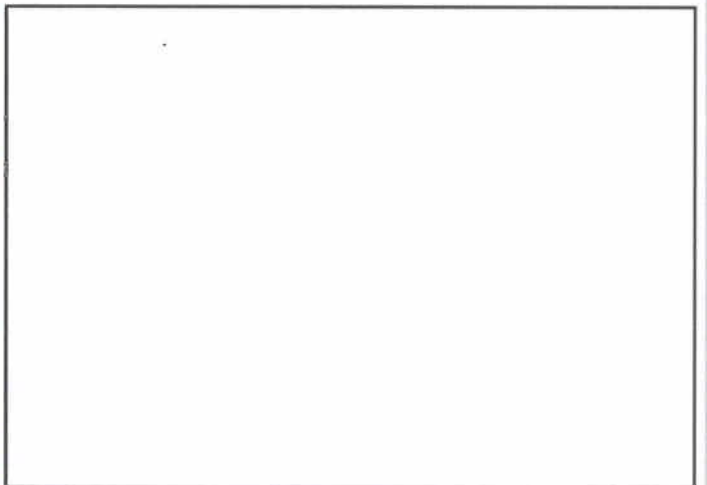
NAMEPLATE



OVERALL



PSV



OWNER: HUSKY	SERIAL # F-1018	NOTES
EQUIPMENT NAME: FLARE KNOCKOUT DRUM	NB#	
REGISTRATION #	OWNER ID	
EQUIPMENT #		