

## FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS

Corrected  
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(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)

As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by Smith Industries, Inc., 3509 East Hwy. 158, Midland, Texas, 79706, USA

(Name and address of Manufacturer)

2. Manufactured for Energen Resources Corporation, 605 Richard Arlington Jr. Blvd N., Birmingham, Alabama, 35203, USA

(Name and address of Purchaser)

3. Location of Installation Not Known

(Name and address)

4. Type Vertical 15-S112 NA SPC2V-2x6(250)-1 1781 2015  
(Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (Year built)5. ASME Code, Section VIII, Division 1 2013/ N/A None None  
(Edition and Addenda, if applicable (date)) (Code Case numbers) (Special service per UG-120(d))6. Shell: SA-53B .375" 0 in 2' 0.0" (OD) 6' 0.0"  
(Material spec. number, grade) (Nominal thickness) (Corr. allow.) (Inner diameter) (Length (overall))

## Body Flanges on Shells

No.	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Location	Bolting			
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

7. Seams: Dbl. Butt None 70% NA NA Dbl. Butt None 70% 1  
[Long. (welded, dbl., sngl., lap, butt)] [R.T. (spot or full)] (Eff. %) (H.T. temp) (Time, hr) [Girth. (welded, dbl., sngl., lap, butt)] [R.T. (spot or full)] (Eff. %) (No. of courses)8. Heads: (a) Material SA-516-70 N (b) Material SA-516-70 N  
(Spec. no., grade) (Spec. no., grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	BOTTOM	.236"	0	0.0"	0	2:1	0	0.0"	0	Concave
(b)	TOP	.236"	0	0.0"	0	2:1	0	0.0"	0	Concave

## Body Flanges on Heads

No.	Location	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Bolting			
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
(a)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A

9. MAWP 250 psi - at max. temp. 150 °F -  
(Internal) (External) (Internal) (External)Min. design metal temp. -20 °F at 250 psi . Hydro, pneu., or comb. test pressure 325 psi .Proof test N/A .

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Inlet	1	4"	Rfso	SA-106B	SA-105	.337"	0	None	Welded	Type 4	Shell
Fluid Out	1	3"	Rfso	SA-106B	SA-105	.300"	0	None	Welded	Type 4	Shell
Gas Out	1	4"	Rfso	SA-106B	SA-105	.337"	0	None	Welded	Type 4	Head
Relief, Drain	2	2"	Rfso	SA-106B	SA-105	.218"	0	None	Welded	Type 4	Head/Shell
Gauge Glass, Pres. Ind.	3	1/2"	Cplg	SA-105		6000#	0	None	Welded		Shell
Supply Gas	1	1/2"	Cplg	SA-105		6000#	0	None	Welded		Head
LLC	1	2"	Cplg	SA-105		3000#	0	None	Welded		Shell

11. Supports: Skirt Yes Lugs 0 Legs 0 Other NA Attached Btm. Head/Welded  
(Yes or no) (Number) (Number) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors, have been furnished for the following items of the report:

N/A  
(Name of part, item number, Manufacturer's name and identifying stamp)Applicable Para. UG-20(f), UG-125  
For Non-Corrosive Service

## CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. "U" Certificate of Authorization Number 36304  
expires December 29, 2015.

Date 06/19/2015

Co. name

Smith Industries, Inc.

Signed

  
(Representative)

(Manufacturer)

## CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Smith Industries, Inc. at 3509 East Hwy. 158, Midland, Texas, 79706, USA  
I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and employed by  
HSB Global Standards, of Hartford, CT

have inspected the component described in this Manufacturer's Data Report on May 6, 2015,  
and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME BOILER  
AND PRESSURE VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any  
warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector  
nor his/her employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

Date 06/19/2015

Signed

  
(Authorized Inspector)

Commissions

12612AB, TX1723

[National Board (incl. endorsements)]