108747

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

(ALTERNATIVE FORM FOR SINGLE CHAMBER, COMPLETELY SHOP-FABRICATED VESSELS ONLY)

AS REQUIRED BY THE PROVISIONS OF THE ASME CODE RULES, SECTION VIII, DIVISION 1

ITEM NO.: HAL-4310 P.O. NO.: 101910-255G

-			-		- Contract				E 5 5 5 1 5	IFCT	CLIABINITI	000	D CATOOS	A OK 740°	15-3017	
1. Mai	nufactured	and c			-		AINEY CORPORA		Name an	id addi	ress of manufa	clurer	)			
2 4 4		for	c	HITE	RRA ENER	RGY PARTNE	RS, LP,C/o ALLIA	NCE E	NGINEE	ERING	G, 16340 PA	RK T	TEN PLACE [	DRIVE, HOL	ISTON, TX 77084	
Z. IVI a I	nufactured	101.			Activity desired and an activity and activity activity and activity activity and activity activity and activity activit					1						
3. Loc	ation of in	tallati nzoni <i>a</i>	ion: AL AIKHI	N G	ULTERRA I	ENERGY PART	NERS, LP,C/o ALLIA	INCE EN	IGINEER (Nan	iNG, ne and	16340 PARK daddress)	TEN		HOUSTON,		
4. Тур			AR VESS			<u>6-1B-A</u> erial No.)	<u>N/A</u> (CRN)		501601BHDR (Drawing No.)				<u>5591</u> (Nat'l Bd. No.)	<u>2005</u> (Year bullt)		
r Tho	chamical a	riz. Or vi nd nhs	ert., tan usical n	roper	ties of all	parts meet t	he requirements	of mat				e	ASME BOI	LER AND P	RESSURE VESSEL	
2, 1116	The decion	constr	uction	and w	orkmanshi	p conform to	ASME Rules, Section	on VIII, I	Division	1.	Name of Contract o			2001		
CODE.	The design	CONTACT	acmon.			•								Year N/A		
to:			03				N/A Code Case	Mor	Carles Ca		None-population and annual section of the section o		Special Ser	vice per UG-1.	20 (d)	
-	Tube		nda (Da g Shee				Code Case	1404.								
6. Shell: SA516-70N 1-3/8" 1/8" SPAN 0'1-9/16" FLAT: 1'2-7/8"X 6' 10-1/8" Length (overall											i) (ft. & in.)					
Mat'i (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (it. &										imin :	N/A		N/A	N/A		
7. Seams: CORNER JOINT NONE 100% 1130 1111 1311 1311 1311 1311 1311											No. of Courses					
		ng. (vvei Sngl., La							/L\ 5.6.	-41	Sngl.,	Lap. E		6-70N		
8. He	ads: (a)	Mat'l_				A516-70N c. No., Grade)		-	(b) Ma	at 1				o., Grade)		
1	Location (	op,	Minin	num	Corrosion	Crown	Knuckle		Elliptical				Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)	
	Bottom, E	ıds)	Thick			Radius	Radius	Rat		Apex Angle N/A		N/A	÷	N/A		
а	a TOP & BOTTOM 1-1/4			1/8"	SPAN:	0' 5-1/4"	N/			N/A		N/A	* *	N/A		
b	END PLA	TES	5/8		1/8"	SPAN:	0' 5-1/4"	N/	<u> </u>		14174	-				
If removable, bolts used (describe other fastenings) (Mat'l Spec. No., Gr., Size, No.)																
9.	9 MAWP 2382 PSIAT MAX. TEMP. 350															
	design me	tal ten	np.	-		-20	F at	23	82 p	si. I	Rydro., pneu. Or	comb.	test pressure	309	7 psi.	
10. N	ozzles, ins	ectio	n, and	safet	y valve o	oenings:							How		Location	
	Purpose	N		Diar	Diam. Type		Material		1		Reinforcement Material	Attached		(Header)		
	(Inlet,Outlet,Drain)		73	or Si 6"-15		JWN / PIPE	SA105 / SA10	6-B	SCH,160		INTEGRAL	UW16.1(a)		FRONT HEADER		
	INLET/OUTLET 2/2			3/4		OUPLING	SA105		6000# 11		INTEGRAL	UW16.1(a)		RE	AR HEADER	
VEN	r / DRAIN		/ 1	714		.00101110										
		<del> </del>														
L		Skirt:	l	N/.	A LUC	- N	I/A LEGS	N	/A C	OTHE	R CL	AMP	ED Attac	hed: BC	OLTED TO FRAME	
	upports:						1. \	(N	o.)		(0	escrik	se) (	far tha falla	(Where and How)	
12. R	emarks: Mar	ufactu	rer's Pa	ertial D	ata Report	ts properly ide	vo.) Intified and signed	l by Cor	nmission	ned in	ispectors hav	e bee	en turnisneo i	ioi tile tollo	And items of the	
repo							lame of part, item nu									
m. 1 m.	rc.(403) CA	170 1	ר טייט	v ก กล	. VA VA "E	x 40' 0"STF		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	rg. v	,		•				
	VDLE: (6)						. 0.	5" x 6'	10-1/8"							
	ARPY IMPA					&(c)"	** (	)' 5" x	1' 1/8"					**************************************		
"CO	NICTOLICTE	) IN A	CCOR	DANC	E WITH A	PPENDIX 28	" "RT	PER C	USTOM	1ER S	PECIFICATI	2NC	II			
							CERTIFICATE OF	SHOP	COMPL	JAN	CE					
Ma.c	ortify that th	ne state	ments	made	in this rep	ort are correct	t and that all detai	ls of de	sign, ma	ateria	l, constructio	n, an	id workmansl	nip of this v	essel conform	
toth	e ASMF Cod	e for P	ressure	Vessel	s, Section	VIII, Division1.	*U* Certificate of	Author	rization	No.	120	007	expires	3-Jun	2005	
Date	· Ma	rch 1	5, 20	05	Co. nam		GEA RAINEY CO	ORPOR	ATION		Signed		Flh	(Representa	tive)	
							(Manufac		INICOC	CTIO	M			(Nepieserile		
							CERTIFICATE O			at	14	POR'	T OF CATO	OSA. OK 74	1015-3017	
Ves	sel constru	ted by	/	-	GEA RAI	NEY CORP.,	5202 W. CHANN	erd of	Pollor a	nd P	raccure Vess	el In	spectors and	/ or the St	ate or Province of	
I, th	e undersigr	ed, ho	olding	a valid	l commiss	ion issued by	the National Bo	ard or	oner a	ENEC	A INCHRAI	JCF (	COMPANY	OF TEXAS	ate or Province of	
	0	KLAH	AMC			d employed				-	7-05	and	state that	to the bes	t of my knowledge	
have	e inspected	the co	mpone	ent des	scribed in	this Manufac	turer's Data Repo	ort on								
and	bellef, the	Manu	ufactu	rer ha	s constru	cted this pre	ssure vessel in a	ccoras	ar imel	llari z	roncerning ti	ie nr	essure vessel	described in	n this Manufacturer's	
this	certificate n	either 1	the Ins	pector	nor his en	nployer make:	s any warranty, ex his employer sh	all ba i	iahla in	neu, t	manner fo	r an	v personal i	njury or pr	operty	
Dat	a Report.	urthe	rmore	, neitl	her the in	spector nor	ms employer sn	un ue i actian	innic II	. uniy						
dan						or connect	ed with this Insp				Comm	nission	ıs	NB 7003,	A, OK 355	
Dat	e: <u>N</u>	arch	15, 2	(005	_Signed:		Authorized	Inspecto	1)	Zuit.	Brand Com		(Nat'l Board	(incl. endorse	ments,) State, Prov. and No.	

108747

## FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS (Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only) As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

/ 1/	t (n at a d	الفروم فريرو	المطالعين	CNAITU	COB	ainear	ing Inc	6211.9	30th W	Aven	io Tule	a Oklahoma 74132				
Manufactured and certified by     Manufactured for				SMITHCO Engineering, Inc., 6211 S. 39th W. Avenue, Tulsa, Oklahoma 74132  ENI PETROLEUM CO INC HOUSTON, TX 77002  Plane and address of manufacture)												
		-			CIVITE INCOLLEUM CO INC. 1000310N, 174 77002  (Illame and address of purchaser)											
	ocation of Ins					Observation of the second of t								2009		
	ype <u>Horiz</u>	(Horiz, or vari la											(Year toil)			
														SEL CODE.		
Th	ne design, cor	nstruction	, and wo	rkmansh	ip confe	orm to A	ASME Rule	es, Sectio	n VIII, Div	ision 1		2007	Year			
to									Code Case Nos				Special Service per UG-12			
				16 GR-7	<u>0 N</u>	Fr 1.0	100/ Bk 1.	625		low. (In.)	_ <u>F</u> 1	0' 7.8125"/Bk 1' 3,				
7. S	eams: Corr	ner Joint	ı,— —	R.T. (\$pot	or Full)	10	00 EN(%)	— — н.	T. Temp. (°F)		Tinva (h	Ginh (Welded, Otal Spot Lap, Bun)	A.T. (Spot, Fask or Full)	1 No or Courses		
8. H	eads: (a) Mal	(I	(a) C	overs: S	(Spec	No , Grade)		1	Conical	b) Matl		(D) Ends: 5A-516 GR-	/O N (Spac. No., Grade)			
	Location (Top. Minimum Bottom, Ends Thickness			Corresion Allowance		Crown Knuckle Radius Radius		Eliptical Ratio	1		ica!	Flat Diame	ter	Side to Préseura (Convex or Conceve)		
(a)	Fr/Bk	0.500	/0.500	0.1250							2.812	25/2.6250 x 32.4375		Flat		
(b)	Fr/Bk	0.500	/0.500	0.1250		2.8125/2.6250 x 15.3125/15.3125							Flat			
lf e	removable, b	olts used	(describe	e other fa	stenina	ıs)		1	N/A							
			,		•	) · (					(Matl., Sp	ec. No., Gr., Size, No.)				
9, MAWP 200 psi at max, temp 300 (internal) (external)											(Feylermati)					
1.4	lin daalan ma	stal tamp	` '	000						si Hur	ydro., pneu., or-comb. test pressure 260					
	lin, design me	,					Ta	1_200	με	oi. Ilyc	по., рнее	<del>i,, or como</del> , test pressu		) ps		
10. 1	lozzles, inspe	No.	Diam		1			Material			Nominal	Reinforcement	How	Location		
(Inle	st, Outet, Drain)	110.	0/ 8		''	po			and the special particular special particular special		Thickness	Material	Anached	-		
Inlet/Outlet		1/1	4"150/								0.531	Integral	UW-16.1(a)	Front Head		
Vent/Drain		2	1.0		6000CPLG							Integral UW-16.1(a)		Back Head		
1 em	p/Press	4	1.0/.75	6000C		OCPLG SA-105						Integral	UW-16.1(a)	Front Head		
11 0	Sunnorde: Skir	te	 No		iae			Logo	4	i	Othor		Attached Wels	ded to covers		
												(Describe) ectors have been furnis				
12. [	teillains, ivia	nuiaciuie	n S railla	ıı Dala N	eborre	nohan	/ identified	and sign	ed by Ooi	HIHOOK	nieu irisp	ectors mave been mink	med for the followin	g tems of the report.		
-							(Nam	e of part, item	number, Mfgr	s name an	f identifying a	tamp)	and the second			
	pact testing o									SOR I	UBE O	IL	A. William dillocate West No. accounts May a post of March			
	y Plate: From les: SA-249								125			annica de la companya		***************************************		
Fro	nt: Construc	eted in co	onforma	nce with	i appei	ndix 28	Back: C	Construct	ed per U	W13						
p						С	ERTIFIC	ATE OF	SHOP	/FIEL	о сом	PLIANCE	Towns on the Park State of the Commission of the			
						re corre	ect and tha	t all detai	ls of desig	ın, mat	erial, con	struction, and workman				
	e for Pressure		, Section				ertificate of HTHCO E				175	expires Feb	ruary 28th ,	2009 .		
Date	11-2	1-2008		\	o. nam	6 21VI		(Manufacturer	)			Signed V. (a)	(Representative)			
Vess	sel constructe	ed by	SMITH	CO Eng	ineerii	ng, Inc	CEHT	IFICATE	OF SHOP/	FIELD	at	Tulsa, Okla	homa			
								l Board of	f Boiler an			sel Inspectors and/or th		ol		
	Oklaho			** **			and emplo	-		Se		urance Company of T		A . I. F. t.		
	inspected the									SMF O		0 <u>///</u> , and station VIII, Division 1. By	ate that, to the best			
												lescribed in this Manufa				
												amage or loss of any ki				
	ection.	1511.	O	٥,				1	Jodh .			Commississis	NB12736 A	A OK914		
Date		HDi	1	510	jned _	_	(Auj)	orized Inspec	101)			Commissions	(Nati Board (incl. endorseme			
						(										