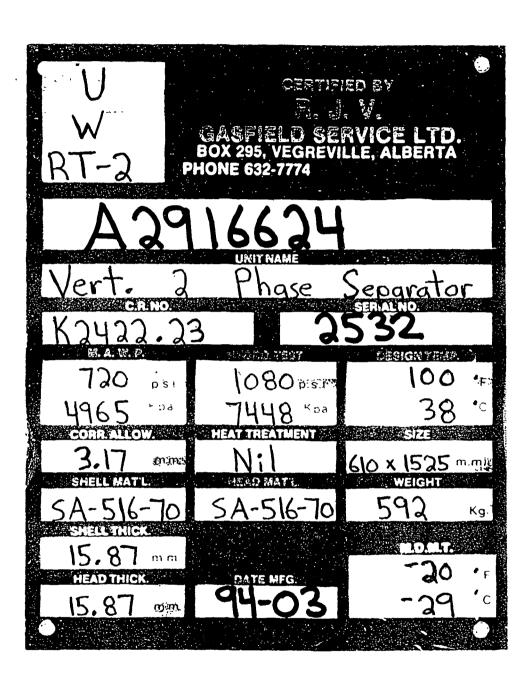
•	:-		, (A	ternative F	orm for Sin	TURER'S DA gle Chamber, isions of the A	Complete	y Sho	o-Fabricate	d Vessels Onl	Y1(1)	91667	24
1.	1 Manufactured	and car	rtified by_	R.J.V.	Gas Fiel	d Service	s Ltd.,	490	1-47St.	Vegrevil	le, AB T	9C 1C3	
	ianufactured	for_HU	sky Oil	Operation	s Ltd., 1	9th Fl. West	ern Canac	la Pla	ce, 707-8	th Ave. S.	W. Calgary,	AB T2P 1H	5
3.	Location of in	stallatio	on	11-5	-48-24 <i>-</i> V	V3 Marsha	ll Fiel	d	1				
4.	· , ,	rtica		25	32 s serial Na.)	K2422	.23 <u>v</u> 9	0-306	j .		N/A	1994	
5.						neet the requi				100	2 Edition	AND PRES	
	. 199	2 Add	denda				N/A Code Case Nos.				v N/	A	
6		A-516	Addenda (Date	:)	.625"(1	5.87) .12)	22.75'	'(578 mm)	Special Service per UK	0"(1525 i	.mn)
			I. (Spec. No., Gr	•	Nom, Thi	:. (m.) Co	rr. Allow, (in.) N/A		- •	S.W.B.	Spot W	11(a)5(b)	.1
7	Seams:	Long (Well Sngl., La	o, Buttl	R.Y. (Sport SA-516-70			Tomp. (F)	N/A	(r) G	irth (Welded, Obl. Sngl., Lap, Bertl)	R.T. (Spot, or Ful	Partial, No o	d Courses
3.	Heads: (a) Ma	ıtl			ec. Na , Grødel		(b)	Mati		SA-516-7	() pec. No., Grade)		
	Location (Top. Bottom, Ends)	1	nimum ckness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptic Ratio		Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press (Convex or Con	
(a)	Top		"(15 . 87)	.125"(3.			2:1					Concave	
(0)	Botton		"(15.87)		17)		2:1					Concave	
11	f removable, bo	orts used	i (describe	other rasteni	ngs)				(Mett., Spec. No.,	Gr., Size, No J			
	MAWP		/ 20°C\	(4965 Kpa			at max, ter				(38°) 7448 Kpa)	100 1080	°F
r	Min. design met			20。		<u>(ca)720</u> _{psi. Hy}	dro., pneu.,	or comb	, test pressur	e	1440 NB)	1000	psı
	Purpose	No	Diam	Tyrne		Matl	I	om		orcement	How	Locat	ion
	et Outlet, Drain) et	NI.	or Size		SA-	-106-B/SA-10	—————	XXS		Mati	Weld	Shell	
	let	N2	2"(60.3			-106-B/SA-10		XXS			Weld	Top H	æd _
J.L	.C.	N3	3"(88.9) REWIN.		-106-B/SA-10		XXS			Weld	Shell	
Vat	er-Dump	N4	2"(60.3	B) REWIN	SA-	-106-B/SA-10	5 Sch.	XXS		 T-T-	Weld	Shell	
١.	Supports: Skir	τ <u>Υ</u> Θ	S Lu	(No.1	Legs	Other	<u> </u>	(Describs)	A	ttached	eld to Head	nd howl	
2.	Remarks: Man	ufacture	er's Partial	Data Report	properly id	entified and sign	ned by Com	mission	ed Inspector	s have been fu	rnished for the	following iten	ns of
	the report:	······································		···-	(Name of part, item numb	oer, Migr's, name s	nd identityi	ng rtimp)				
	Vol	ume -	- 18.1	5 Cu. Ft	. (.514	m³) Vert	ical 2	Phas	e Separ	ator			
						irements a			raph UG	20(f)			
	Нуа	rosta	atical.	Ly teste		e Vertical							
14	la carrifu that	the state	remeatr M	ada la etile co		RTIFICATE OF					dalien - n - ble	of etile voccel	con-
	orm to the ASA	AE Code				rect and that a Division 1, "U"			-			ily 12 , 19.	<u>96</u> .
	Date MAR 1 6	1994	c	o. name _Rad	V. Gas F	ield Service	s Ltd.		Signed		(Representative)		
	essel construct	•		Gas Field	Services			at40	01-47 Str	eet, Vegre		190 103	
١,		ed, hol erta	ding a val		n issued by ndemployed	the National B	tment of			ssel Inspector	and/or the St	ate or Provinc	e of
						er's Data Repor		R 1 6			, and state		
n						ted this pressur							
						ces any warrant r nor his empio							
	r a loss of any l	kind ari				- //	ıλαι энι¶il De	ilable	in any mani			property out	-
	MAR 1 6				long	///	<u> </u>	Com	missions	Alberta	· 31	Poor and No I	

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

			7=		TOTAL GOOD !	tales, Section VIII, B.		
' '1anufactur	ed and cert	ified by R	J.V. Gas	Field Services L	td., 4901-47 S	treet, Vegreville,	AB T9C 1C3	
								AD mon 11 m
						a Place, 707-8th Ar	e. 5.w., carg	iry, AB 12P 1H5
3. Location o	f installatio	n	11-5-4	18-24-W3 Mar	shall Field	and address		
ı. Туре <u>V</u>	ertical	L		2532	K2422.23		N/A	1994
	(Horiz.	, vert., tank, etc)		(Mfgr's serual No.)	(CRN)	(Dwg)	N/A (Nat'l Bd No.)	(Year built)
Data R	eport							
Item No	umber		,	-,	Re	mark s	 	
Purpose	No.	Dia.	Туре	Matl.	Nom. Thk.	Rein. Matl.	How Attached	Loc.
.s.v.		2"(60.3)		SA-106-B/SA-105	Sch. XXS		Weld	Stell
rspection				SA-105	# 6000		Weld	Shell
L.S.D.	_Cl	1날(48.3		SA-105	# 6000		Weld	Shell
ight glæs		3/4"(26.	7) Colg.	SA-105	# 6000		Weld	Shell
rain	_C3	2"(60.3)		SA-106-B/SA-105	# 6000		Weld	Bottom Head
ress. Ind.	_04	낭"(21.3)		SA-105	# 6000		Weld	<u>Shell</u>
enp. Ind.	<u>C5</u>	3/4"(26.	7) Colg.	SA-105	# 6000		Weld	Shell
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	MAR 1 6	1994			رسم الناماء صـــ	riam rt-d	X	/
·				Co. nameRaJaVa_	Manufacturer)	ДСS_LTOSigne€	(Rep	resentativel
_	MAR 1 6	1994		DIA.	6/1		371	#31
Date				Signed Con	Authorized Inspector I	Commissions	(Natl Board (incl endor	sements), State Prov. and No 1



Saskatchewan



Protection Services Branch Boiler & Pressure Vessel Safety 1870 Albert Street Regina, Saskatchewan S4P 3V7

(306)787-4490 FAX: (306)787-9273

PLEASE DO NOT SEND REMITTANCE WITHOUT A COPY OF THIS INVOICE WHICH IS DUE WITHIN 30 DAYS

Municipal Services Division

February 7, 1995

R.J.V. GAS FIELD SERVICES LTD. 4901 - 47 STREET VEGREVILLE, ALBERTA T9C 1C3

> #327 Reg. of Design File #04457/0456F

Dear Sirs:

With reference to your letter respecting registration of **Drip Bottle**, **Drawing KMF1-88**, **Rev 0** for legal use in the Province of Saskatchewan, please note we have surveyed, approved, registered and allotted same registration C.R.N. **0H0102.23**.

We are returning herewith, one copy of the **drawings** stamped with the above registration number and should point out that every vessel must be constructed strictly in accordance with the registration design drawing.

Sincerely,

John Gosselink

Design and Registration

/ok encl.

RJV

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSEL (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only

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1 29/662	. /
1 47/662	4
7 7 7	1

			As Re	quired by	the Provision	ons of the ASME	Code Rul	es, Section V	III, Division 1	Y	116624
١.	'nufactured	and cert	ifled by_R.	J.V. G	as Field	Services L	td., 491	01-47St.	Vegrevill	e, AB T	9C 1C3
ζ.	Manufactured :	for His	ky Oil Op	actions	Ltd., 19t	h Fl. Western	Canada Pl	ace, 707-8	th Ave. S.W	i. Calgary,	AB T2P 1H5
3.	Location of in	oitalları	n	11-5-	48-24 - W3	Marshall	Field	ms.)			
۵.	Type Ver	tica	1	253	32	K2422.23	<u>v90-</u> 30	06 .		N/A	1994
	(Mc	of or well	-	Detige's	m'el 4a.)	ICRNI	(De	Ne.3	INn),	8d. No.1	[Your built]
						the requirement to ASM			1 007	Edition	AND PRESSURE
	1001	ההג כ	ema			N	/\			N/	Δ
	10	- PAGE	enda			Contin C	/A			Soutiel Sandy per UK	
6.	Shell:S	A-516	-70 Spec No. Greet		_625"(15	.87) .125"(3.17)	22.75	(578 mm)	6	0"(1525 mm)
			S.W.B.			00% N/A			S.W.B.		U(a)5(b) 2
		Seed, Land		R,T, Goet e	Fugi ((n. (x) H.T. Temp.			sent (Nelded, Dol., Sayl, Lop, 6-11)	R.T. (Spot	
В.	Heads: (a) Ma		SA	-516-70	c. No , Grade)		_ (b) Mati		SA-516-70		
	Bottom, Ends)			lowance	Crown Radius	Knuckle Radius	Filipt•cal Ratio	Conical Aper Angle	Hemispher-cal Radrus	Flat Diameter	Side to Pressure (Convex or Concave)
(2)	Tap	.625"	(15.87) .	125"(3.1	.7)		2:1			7 1	Concave
(0)	Botton	.625"	(15,87).	125"(3.)	.7)		2:1				Concave
ŧ	f removable, bo	l to used	(describe at)	er fastenir	ngs)			IMed., Spec No.,			
			14	VE 1600	220			- d., 200	Gr., Mrs. 201	12091	100
3	P. ~ WP			965 Kpa)			ux. Temp,		- (**	(38°) (448 Kba)	100 °F
			-29°C) -		at (4500 M	B)720 psi. Hydro	pneu., or cor	nb. test pressur	e	110 1411)	psi.
_	Purpose lei, Outlet, Drains	No No	Oiam or Size	Type		Matt	Nom. Thk,		larcement Mati	How Attached	Location
'n	let	NI	2"(60.3)	REWN	SA-1	06-B/SA-105	Sch. XX			Weld	Shell
	tlet	N2	2"(60.3)	REWN		06-B/SA-105	Sch. XX	_		Weld	Top Head
,_I	L.C.	NB	3"(88.9)	REWN	SA-1	.06-B/SA-105	Sch. XX			Weld	Stell
b	ter-Dimp	N4	2"(60.3)	REWN	SA-1	.06-B/SA-105	Sch. XX	5		Weld	Shell
	Supports: Skin	Ye	E Lugs	(No.I	Legs	Other			TTACH OC WE	ld to Head	-d borl
		(***	or res	(140.)		INID.	(D-scrip	=1		(Manager)	
	the report:	ufactur	ers Partial De	ta Report		ntified and signed i			rs have been fur	nished for the	following Itams of
	Vol	ume -	- 18.15	Cu. Ft		m³) Vertica			ator		
						rements as					
	Hyd	rost	atically	teste	d in the	Vertical P	osition				
_					CER	TIFICATE OF SH	OP COMPLI	ANCE			
1	We certify that	the sta	tements mad	s in this re	port are corre	ect and that all de	talls of design	gn, meterial, c	onstruction, and	workmanshi	of this vessel con-
,	form to the AS	ME Cod				Jivision 1. "U" Cer		uthorization t	19.562	xpires_J	uly 12 , 19.96.
-	Date_MAR 1		Co. r	ame_Kau	V. GES FI	eld Services I	Ш	Signed		(Fermina)	
	Vessel constitue	twi bu	R.J.V. G	as Field	CEI Services	ITIFICATE OF SE	HOP INSPEC	4901-47 St	reet, Vegrev	rille, AB	T9C IC3
	, the undersig	ned, ho		commission	on issued by	the National Boers	of Boller	and Pressure V			tate or Province of
		erta_	Donesie desir		Manufacture		ant of Lat			and	that, to the best of
						ed this pressure ve					rision 1. By signing
	this conditionte	nelther	the Inspecto	nor his e	mployer make	es any warranty, e	xpressed or	Implied, conc	erning the press	ure vessel desc	ribed in this Manu-
											ar property damage
	or a loss of any	kind ar				- //			- 7	1 31	
	Date MAR 1 6	1934	Signe	0/1	Est 1.	(a) (moneton)	с	ommlætions	Alberta	7 / rd4	core, France, and Mar.)

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET

		A	Required E	by the Provisions of	the ASME Code	Rules, Section VIII, D	ivision 1	
Ianufactu	red and cer					Street, Vegreville,		
2. Manufectu	red for	isky Oil	Operation	s Ltd., 19th Fl.	, Western Cana	da Place, 707-8th A	we. S.W., Calo	ETV. AB TOP 1H5
3. Location o	installatio	on	11-5-	-48-24-W3 Mar	shall Field	1		
1. Type	ertica] .,		2532 Meters, serial No.1	K2422.23	V90-306	N/A (Na:7, Bd. No.1	1994
Date R	EDOCT					to-spi	(Na:7, Bd. No.1	(Your Built)
Item N		,	,		- Re	emark ş		
Purpose	No.	Dia.	Type	Matl.	None Thike	Rein. Matl.	[[]	
.S.V.	N5	2"(60.3)	REWN	SA-106-B/SA-105		Telli fatt.	How Attached	Loc.
spection	No aso	13"(48.3) Cola.	SA-105	# 6000		Weld	Srell
L.S.D.	a	15"(48.3) Colq.	SA-105	# 6000		Weld	Shell
ight glass	C2 asb	3/4"(26.		SA-105	# 6000		Weld Weld	Stell
cain	_C3	2"(60.3)		SA-106-B/SA-109			Weld	Srell
ress. Ind.	C#	3"(21.3)		SA-105	# 6000		Weld	Bottom Head
ID. Ind.	<u>C</u>	3/4"(26.	7) Colg.	SA-105	# 6000		Weld	Sell
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375376				Co. name R.J.V.	as Field Servi	es Lita signe	Soli.	
4T0	AR 1 6 1	954		PIL	6/1		Alberta	
			\$	ignoo	Mortes Property	Commissions _		
2/821					//		[Nest Board (mct. endorsame	mil State Prop. and No.!

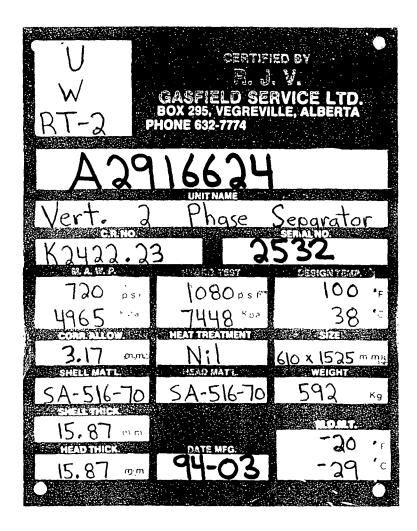


FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only) As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1 1. Manufactured and certified by R.J.V. Gas Field Services Ltd., 4901-47St. Vegreville, AB anufactured for Hisky Oil Operations Ltd., 19th Fl. Western Canada Place, 707-8th Ave. S.W. Calgary, AB T2P 1H5 11-5-48-24-W3 Marshall Field Location of installation K2422.23 V90-306 2532 1994 Vertical 5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE 1992 Edition VESSEL CODE. The design, construction, and work manship conform to ASME Rules, Section VIII, Division 1_ 1992 Addenda N/A N/A cial Service per UG-120(d) 60"(1525 mm) .125"(3.17) 22.75"(578 mm) SA-516-70 625" (15.87) 6. Shell: Diam. I.D. (ft. & in.) Length (overell) (ft. & in.) Long'l S.W.B. Spot W 11(a)5(b) 2 100% N/A Circ. S.W.B. Full R.T. (Spot or Full) En. (%) H.T. Temp. (F) Long. (Welded, Dbl., Sngl., Lap, Butt) Time (hr) Girth (Welded, Dbl R.T. (Spot, Partial, or Full) No. of Course Soul. Lap. Bert SA-516-70 SA-516-70 8. Heads: (a) Matl. (b) Mati. No Grade Location (Top. Bottom, Ends) Hemispherical Radius Corrosion Knuckle Elliptical Radius Thickness Allowance Radius .625"(15.87) .125"(3.17) (a) 2:1 Concave .625"(15.87) .125"(3.17) 2:1 Chroave Botton If removable bolts used (describe other fastenings) (Matt. Spec No. Gr Suze No.) 720 (38°) (4965 Kpa) _psi at max, temp,_ or design metal temp. (-29°C) -20 oF at (4965 Kpa)720 psi. Hydro., pneu., or comb. test pressure (7448 Kpa) 1080 zzles, inspection and safety valve openings: Diam. or Size Purpose (Inlet, Outlet, Drain) Reinforcement Location 2"(60.3) RFWN SA-106-B/SA-105 Sch. XXS Weld Shell Inlet NI Outlet 2"(60.3) SA-106-B/SA-105 Sch. XXS Weld Top Head Sch. XXS SA-106-B/SA-105 Weld Shell NB 3"(88.9) REWN L.L.C. Shell 2"(60.3) REWN SA-106-B/SA-105 Sch. XXS Weld NA Water-Dump Weld to Head Yes 2. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following Items of the report: (.514 m3) Vertical 2 Phase Separator Volume - 18.15 Cu. Ft. Exempt from impact test requirements as per Paragraph UG 20(f) Hydrostatically tested in the Vertical Position. CERTIFICATE OF SHOP 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 Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorizaged MAR 1 6 1994 Co. Rame R. T.V. Con Biold Countries and Contribution of Authorizaged Contribution of Contr expires Co. name R.J.V. Cas Field Services Ltd Signed CERTIFICATE OF SHOP INSPECTION
PS Ltd. 4901-47 Street, Vegreville, AB T9C ICS Vessel constructed by R.J.V. Gas Field Services Ltd. I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and/or the State or Province of Department of Labour and employed by____ have inspected the component described in this Manufacturer's Data Report on_ and state that, to the best of . 19_ m. I nowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing artificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his 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 Alberta # 3/ Clar Metoria _ Commissions

[Nat'l Board (and, endorsements), State, Prov. and No.)

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1 nufactur	ed and certi	fied by R	.J.V. Gas 1	Field Services L	td., 4901-47 S	street, Vegreville,	AB T9C 1C3	
2 Manufactur	ed forHt	sky Oil	Operations	Ltd., 19th F1.,	Western Canad	la Place, 707-8th A	we. S.W., Calg	ery, AB T2P 1H5
3. Location o	f installation		11-5-4	8-24-W3 Mar	shall Field	and address)		
4 Type	ertical	vers, tank gtc l		2532 Migral serial No I	K2422.23	V90-306	N/A	1994 (Year built)
Data R Item No					Re	emark s		
Purpose	No.	Dia.	Туре	Matl.	Nom. Thk.	Rein. Matl.	How Attached	Loc.
P.S.V.	N5	2"(60.3)	REWIN	SA-106-B/SA-105	Sch. XXS		Weld	Shell
Inspection	No asb	1½"(48.3) Colg.	SA-105	# 6000		Weld	Shell
I.L.S.D.	a	1날"(48,3) Colg.	SA-105	# 6000		Weld	Shell
Sight glass	C2 a&b	3/4"(26.		SA-105	# 6000		Weld	Shell
Drain	C3	2"(60.3)	RFWN	SA-106-B/SA-109	# 6000		Weld	Bottom Head
Press. Ind.	_C4	<u> ነ"(21.3)</u>	Colq.	SA-105	# 6000		Weld	Shell
lemp. Ind.		3/4"(26.		SA-105	# 6000		Weld	Stell
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Date	MAR 1 6	1994		Co. name R.J.V.	Gas Field Sen	zices Ltd.	X Solo	
J410	11.50	1001			(Martitalphren)	Jigile Jigile		esentative)
Date	MAR : 6	1224		Signed 115	flan	Commissions	Alberta ²	31
					Authorized Unpector)		Nati Board linet endors	emental State Prov. and No I



VIEL TAR PRIMARY

\$,4=610-70



5545-89 Street, EDMONTON, Alberta T6E 5W9 Phone. (403) 468-6722 Fax: (403) 466-5155

QCC-001 REV. 0 DATE:AUG. 19/93 APPROVED BY. 5.2.

CERTIFICATE OF COMPLIANCE - HEADS # 2532

CUSTON	ŒR	ROV GASFIEL	0=10			PACKI	NG SLIP	H 331.	37
PURCHA	SE ORDER	788				PAGE	OF	2	
TYPE		SED.1				MATE	UAL	SA 511	TMOFO
INSIDE CR	OWN RADIUS					DISTOR ION	UCKLE KAD		
						тніск	INESS		
QTY		HEAT #	MFG FILE	SIZE	NO	M.	MIN.	BRINELL HARDNESS	FORMING PROCEDURE
2	924BM-	32823	TIYY	24'0.0.		750	.740		
3	26516-	62800	TI 49	24"O.D.		150	.737		
1	B4916-	27033	TI42	24"00		750	ر ۱۲۵ .		
١	26516-		TI39	24"O-D	`	150	<i>i</i> 733		
3	84916-3	17032	TI38	24"0-0.		750	.740		
1	924BM-	32827	TI45	24"00		750	,733		
l	9248m-	-33191	TI4B	24100		30	.740		
1	869am.	27625A	T£50	24'00.		757)	1731		1
	3852M	- 60940	TI43	24"00.		150،	.731		
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