

TEXASGULF CANADA LTD.

REPORT ON GEOPHYSICAL WORK BRISTOL, DENTON, CARSCALLEN, THORNLOE TOWNSHIPS

N.T.S. 42 A 5/6

CLAIMS: P 528149 - 175

P 528179 - 208

P 528235 - 241

P 528255 - 272

P 528275 - 313

TEXASGULF CANADA LTD. REPORT ON GEOPHYSICAL WORK BRISTOL, DENTON, CARSCALLEN & THORNLOE TOWNSHIPS

INTRODUCTION:

During May, 1981, a combined airborne electromagnetic and magnetic survey was flown over a number of Townships west of Timmins. Within the flying area are a total of 121 claims owned by Texasgulf Canada Ltd. These claims are located in Bristol, Carscallen, Denton and Thornloe Townships.

These claims occur in four groups of contiguous claims. In the northeast corner of Bristol Township, Bristol 66 consists of 38 claims. Bristol 51 and Bristol 41, located along the west boundary of the Township consist of 19 and 7 claims respectively. Bristol 11, which includes claims in the area of the common corner of Bristol, Carscallen, Denton and Thornloe Townships, has a total of 57 claims.

An assortment of geophysical surveys as well as some diamond drilling has previously been done on a number of these claims.

SURVEY DETAILS:

Flight lines traversed all claims in north-south orientations. Line spacing was (1/8) one-eighth mile.

The electromagnetic survey used the Barringer/Questor Mark VI Input (R) System. A Sonotek P.M.H. 5010 Proton Magnetometer was used to record the magnetic values. Both instruments are fully described in the Appendix.

SURVEY RESULTS:

Bristol 66

Conductive zones occur on the northern and southern edges of the claim group. Both Mineral Estates Mines and Hollinger Consolidated Mines have done geophysics and drilling on parts of this

claim group. Mineral Estates drilled the northern conductor on the Godfrey - Bristol boundary and intersected graphite. The magnetic trend is mainly north-south which reflects the orientation of the diabase dikes in this area. The east-west trending magnetic high on claims 528195, 528196, 528156 and 528157 reflects the east-west orientation of the mafic volcanics.

Bristol 51

A conductive zone trends north-westerly through the southern portion of the claim group. This north-westerly trend is confirmed by the magnetics. Again the diabase dikes in this area add a north-south component to the magnetic picture. Previous work by Hollinger Mines consisted of geophysics and drilling of the conductive zone. No economic mineralization was intersected.

Bristol 41

No conductive zones were detected on this seven claim group. Magnetic trends are generally north-south, and as usual this mainly is due to the influence of diabase dikes. There is no record of drilling on this claim group.

Bristol 11

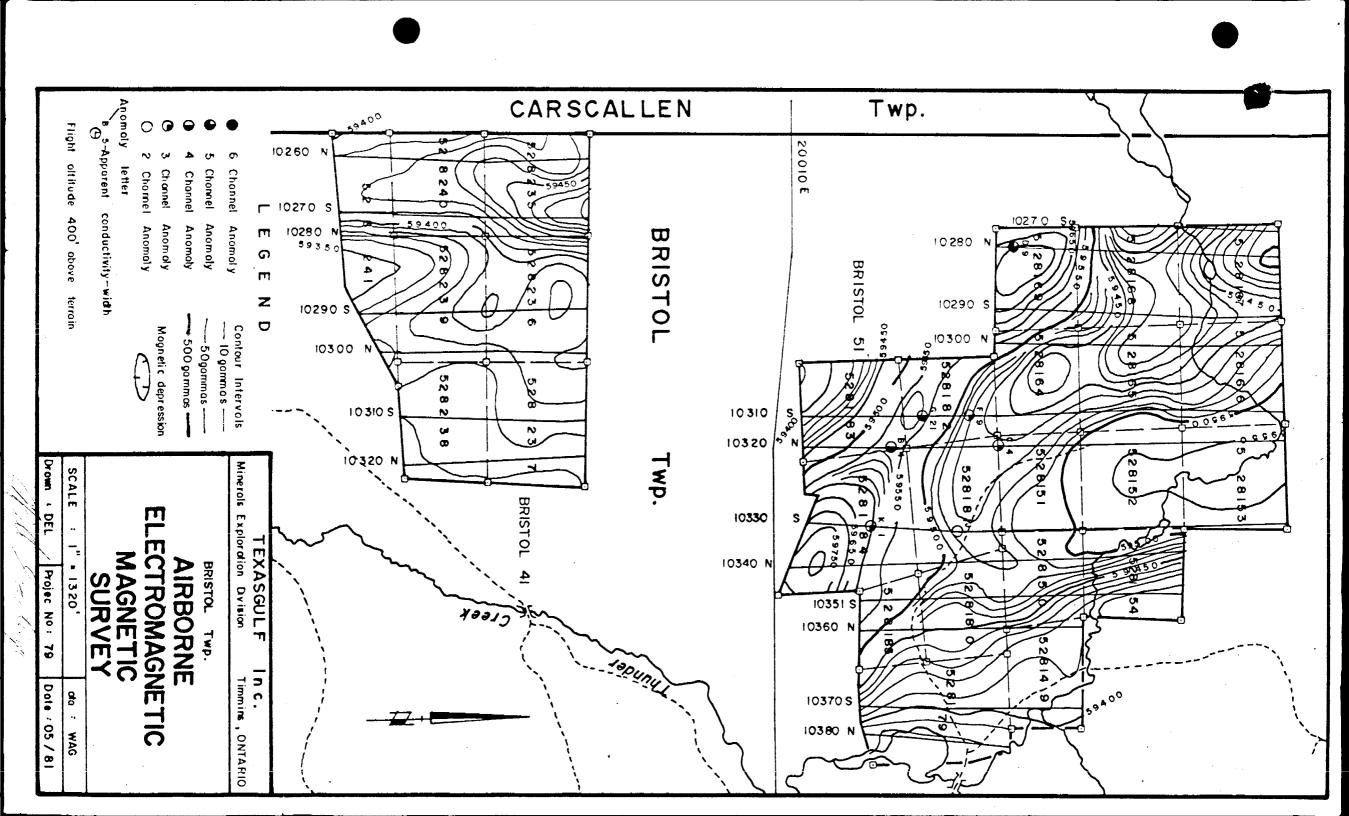
Two main conductive zones appear on this claim group. Both are located in Carscallen Township; one in the north-west corner of the claim group; the other trending northeasterly across the centre of the Carscallen claims. The magnetics confirm this north-easterly trend. Drilling and geophysical surveys have been run over portions of the claim group by Hollinger Mines and Mill Hill Mines. Hollinger's drilling was in the vicinity of the central conductive zone. Graphite was intersected.

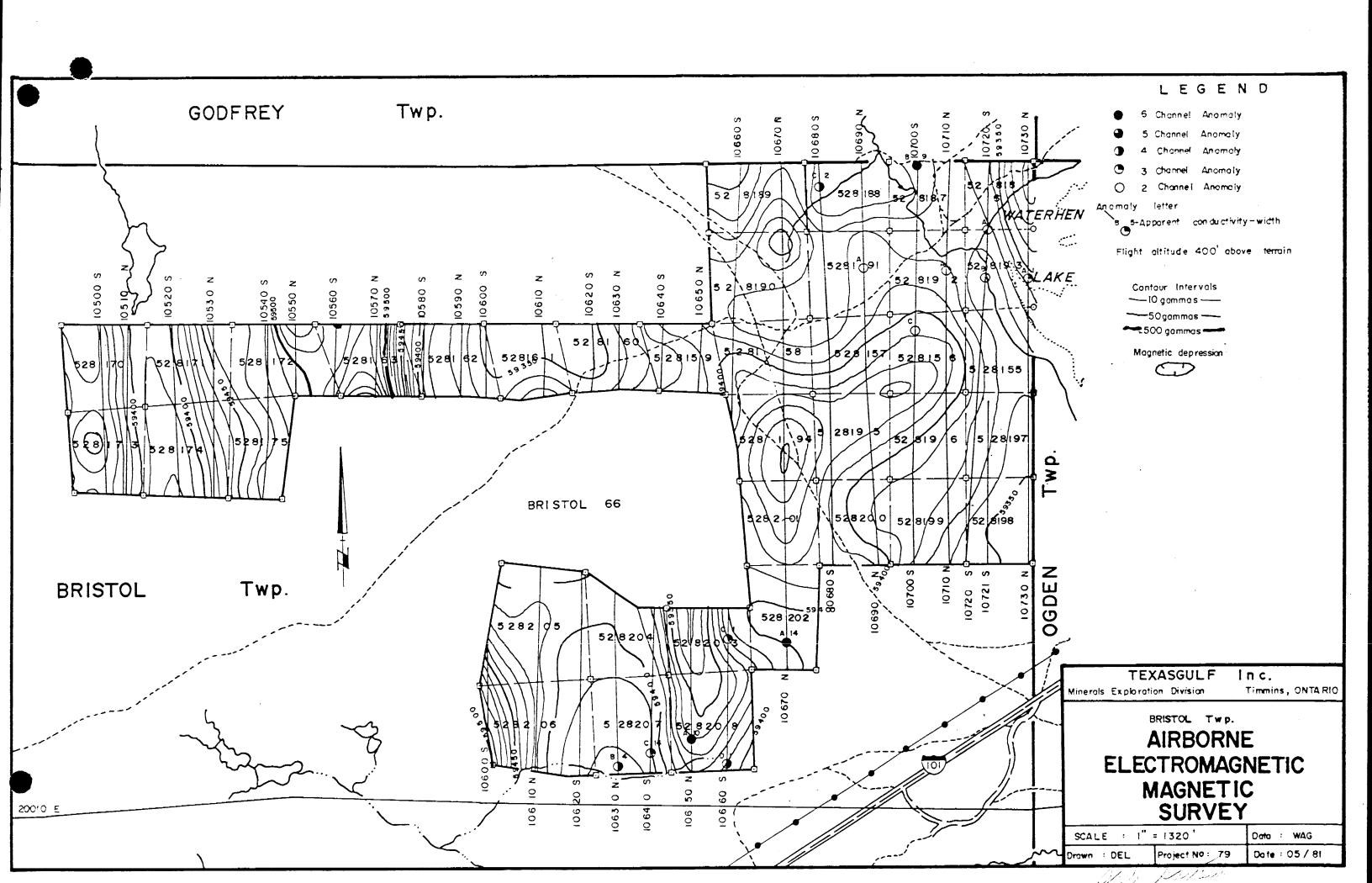
CONCLUSIONS AND RECOMMENDATIONS:

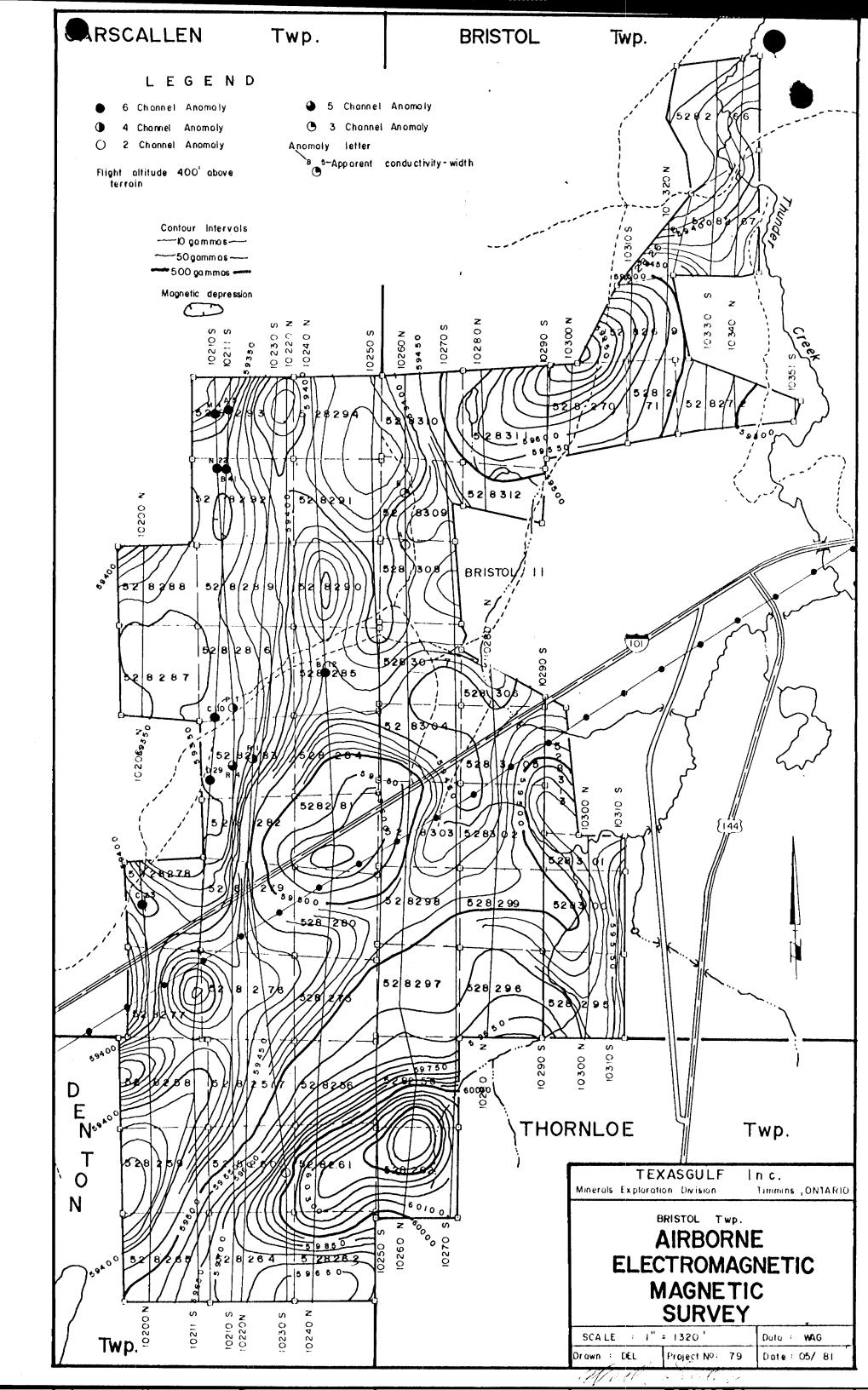
The magnetic features and conductive zones give a good indication of the strike direction of the underlying bedrock. Since

this area generally has very high potential for gold mineralization, a program of overburden drilling based on a geological interpretation of geophysical data should be initiated. This would aid in defining geology as well as providing geochemical results to aid in determining the location of any gold deposits.

WILL GASTEIGER









OFFICE USE ONLY

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GEOPHYSICAL – GEO TECHNICAL 1



2A06NW0303 2.3888 CARSCALLEN

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TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s)Airborn	ne Geophysical	
Township or Area Bristol, De	enton, Carscallen, Thornloe	MINING OF A IMC TO A VED CED
Claim Holder(s)Texasgr		MINING CLAIMS TRAVERSED List numerically
P.O. Box 1140, 571 Moneta	a Ave., Timmins, Ontarion P4N	
Survey CompanyQuesto:	r Surveys Limited	P 528149
Author of Report W.A. Gaste	eiger	P(prefix) 528150 (number) P 528151
Address of Author P.O. Box	1140, Timmins, Ontario	
Covering Dates of SurveyMa	arch 1981 - May 1981	P 528153 - 528154
Total Miles of Line Cut		P 528155
Total falles of Tane Gat		P 528157
SPECIAL PROVISIONS		528158
CREDITS REQUESTED	DAYS per claim	P 528159
	GeophysicalElectromagnetic	P 528160 P 528161
ENTER 40 days (includes		P 528162
line cutting) for first	Magnetometer	
survey.	-Radiometric	P 528164
ENTER 20 days for each	Other	P 528166
additional survey using	Geological	
same grid.	Geochemical	P 528168
AIDDODAIR CORDITS (Special pr	أستنا فيستن المتناب ويتراف التعليقات والتراث والتراث الأراع أنان والمتناق الأنان فاستاد والأالات يتشاه المتاد	P 528170
	rovision credits do not apply to airborne surveys)	
Magnetometer Electroma	agnetic Radiometric er days per claim)	P 528172
/		
DATE: May 13/8/ SIGI	NATURE Will Sorteige	P 528174 P
	Author of Report of Agent	_
		
	0.400	SEE ATTACHED LIST ALSO
Res. Gcol. Qua	difications <u>21/78</u>	_
Previous Surveys		
File No. Type Date	Claim Holder	
		7
•••••••••••••••••••••••••••••••••••••••		
•••••••••••••••••••••••••••••••••••••••		
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	•••••••••••••••••••••••••••••••••••••••	TOTAL CLAIMS

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

4	
- U	

N	Number of Stations		Number o	f Readings	
S	tation interval		Line spaci	ng	
P	rofile scale				
C	Contour interval				
· k	Instrument				***************************************
MAGNETIC	Accuracy - Scale constan	t			
3	Diurnal correction metho-	d			
- 4	Base Station check-in inte	rval (hours)			
	Base Station location and	value			
ונ	Instrument				
ELECTROMAGNETIC	Coil configuration				
3	Coil separation				
7	Accuracy				
	•	☐ Fixed transmitter		☐ In line	☐ Parallel line
	Frequency				
1					
	Parameters measured				
	Instrument				
	Scale constant				
7 7 7	Corrections made				
11 / 12					
51	Base station value and loc				
	Elevation accuracy				
	Instrument				
	Method Time Doma	in	☐ Fre	equency Domain	
	Parameters - On time		Fre	equency	
RESISTIVITY	- Off time		Ra	nge	
	- Delay time .				
	- Integration	time			
RES	Power				
1	Electrode array				
	Electrode spacing		· · · · · · · · · · · · · · · · · · ·		
	Type of electrode				

INDUCED POLARIZATION



SELF POTENTIAL Range____ Instrument_____ Survey Method _____ Corrections made_____ RADIOMETRIC Instrument____ Values measured _____ Energy windows (levels) Height of instrument_____Background Count_____ Size of detector_____ Overburden____ (type, depth - include outcrop map) OTHERS (SEISMIC, DRILL WELL LOGGING ETC.) Type of survey_____ Instrument _____ Accuracy____ Additional information (for understanding results)_____ AIRBORNE SURVEYS Type of survey(s) Magnetic and Electromagnetic Sonotek P.M.H. 5010 Proton Magnetometer and Mark VI Input (R)Airborne EM System Instrument(s) ____ (specify for each type of survey) Accuracy Magnetic + 1 Gamma E.M. approximately 50 p.p.m. (specify for each type of survey) Norman Britten Trislander Aircraft used___ 150 feet Sensor altitude.___ Navigation and flight path recovery method Navigation Using Semi-controlled mosiac, flight path recovery by comparing 35mm. film negatives with the mosiac to locate fiducial points Aircraft altitude____ 400 feet Line Spacing 660 feet 2000 miles Miles flown over total area___ Over claims only \sim 60 miles

GEOCHEMICAL SURVEY -- PROCEDURE RECORD



Numbers of claims from which samples taken				
Total Number of Samples				
Type of Sample(Nature of Material) Average Sample Weight		per cent p. p. m. p. p. b.		
Method of Collection	Cu Ph Zn Ni Co	Ag, Mo,	As,-(circle)	
Soil Horizon Sampled	Others			
Horizon Development	Field Analysis (tests)	
Sample Depth	Extraction Method	#-#		
Terrain	Analytical Method	· · · · · · · · · · · · · · · · · · ·	······································	
No. of the Control of	Reagents Used			
Drainage Development	Field Laboratory Analysis			
Estimated Range of Overburden Thickness			tests	
			,	
	A 1 . 134 . 1 1			
	Reagents Used			
SAMPLE PREPARATION (Includes drying, screening, crushing, ashing) Mesh size of fraction used for analysis	Commercial Laboratory (· ·	
Mesh size of fraction used for unarysis	Extraction Method			
	Analytical Method			
	Reagents Used		· · · · · · · · · · · · · · · · · · ·	
General	General ————————————————————————————————————			

P-528179	P-528235	P-528255	P-528275
P-528180	P-528236	P-528256	P-528276
P-528181	P-528237	P-528257	P-528277
P-528182	P-528238	P-528258	P-528278
P-528183	P-528239	P-528259	P-528279
P-528184	P-528240	P-528260	P-528280
P-528185	P-528241	P-528261	P-528281
P-528186		P-528262	P-528282
P-528187		P-528263	P-528283
P-528188		P-528264	P-528284
P-528189		P-528265	P-528285
P-528190		P - 528266	P-528286
P-528191		P-528267	P-528287
P-528192		P-528268	P-528288
P-528193		P-528269	P-528289
P-528194		P-528270	P-528290
P-528195		P-528271	P-528291
P-528196		P-528272	P-528292
P-528197			P-528293
P-528198			P-528294
P-528199			P-528295
P-528200			P-528296
P-528201			P-528297
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P-528203			P-528299
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P-528206			P-528302
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