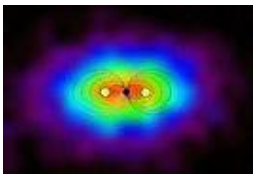

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ASX Release
9 December 2009

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Issued Capital:
Shares: 369,386,471
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ASX Symbol: JMS

Currently Exploring for:
- Iron Ore
- Manganese

Jupiter Mines Limited

HIGH-GRADE SAMPLING RESULTS FROM OAKOVER MANGANESE PROJECT

KEY POINTS

- **Rock chip assays grading up to 62.6% Mn and averaging 39.1% Mn within priority exploration area**
- **Significant potential for major manganese prospect identified from Landsat ETM interpretation and airborne VTEM geophysical survey**
- **Strategic ground position at Oakover increased to 890km^2 with new tenement application**
- **Oakover Project to become a key manganese focus for Jupiter moving forward**

Jupiter Mines Limited (**ASX:JMS**) is pleased to report encouraging exploration results from its 100%-owned **Oakover Manganese Project** in the Pilbara region of Western Australia including high-grade surface sampling results **assaying up to 62.6% Mn**.

In total, 47 rock chip samples (*summarised in Table 1*) were taken from anomalous areas identified from previous Landsat ETM interpretations with assays ranging from 5.5% to 62.6% manganese.

The 26 samples taken from the two priority areas, **C11 and C12**, averaged 39.1% manganese. Combined with geological mapping, these results indicate significant potential for a major manganese prospect.

C11 and C12 were also relatively coincident with two strong VTEM conductors, JOV2 and JOV-1b respectively, identified from a 1,200km line kilometre VTEM Geophysical Survey completed in early October.

The VTEM Survey was limited to the western tenement group of the Project area in the first instance, and was successful in identifying seven strong conductors and twelve moderate shallow conductors.

The target areas C11 and C12 were located in a priority area identified on E45/2641 (*see Figure 1*), which provided the focus for a Heritage Clearance Survey with the Njamal Traditional Owners, geological mapping and rock chip sampling. (*see Figure 2*).

In light of these positive exploration results, in November Jupiter improved its land position at the Oakover Project by applying for Exploration Licence ELA45/3457 (195km^2) which abuts the western tenement group (see Figure 1). This application covers the C3 VTEM conductor, the historic Myolla Bore Prospect and adds over 20km^2 of target lithologies to Jupiter's strategic ground position.

The Exploration Licence application ELA45/3340 over the Paterson Formation, pegged by Jupiter in June, was evaluated as part of the VTEM Survey, which determined that the exploration concept could not be supported. Consequently this application was relinquished.

Jupiter's Oakover Manganese Project now totals 890km^2 covering four granted Exploration Licences and one Application in the East Pilbara region of Western Australia.

Approximately 470km^2 of the Project area contains the Archean Carawine Dolomite (~0.5-3% Mn source) and the Pinjian Chert Breccia (host) which are the prospective geological units for Woodie Woodie style deposits. Mt Sydney, Ripon Hills and Shaw River Resources' Baramine Project are all located in Carawine Dolomite and Pinjian Chert.

The Oakover Project area also surrounds the historical Consolidated Minerals Ripon Hills mine area, and lies approximately 60km to the north of the operating Woodie Woodie mine, which has current production of over 900,000 tonnes of manganese ore per annum at an average grade of over 48%.

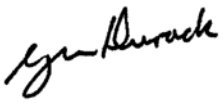
Access to regional infrastructure is excellent, with the sealed Ripon Hills road – which services the Telfer, Woodie Woodie and Nifty mines – traversing the Oakover Project area in the south, providing access to Port Hedland approximately 200kms to the west.

Jupiter is pleased with the initial exploration program to date, and geological models are now being developed to assist with ongoing exploration programs. Additional geophysical survey techniques such as Induced Polarisation (IP) and gravity that have been used by other manganese producers and explorers in the region will be evaluated for possible application on the Project.

With completion of the Heritage Survey and field activities conducted on the C11 and C12 anomalous areas, Jupiter will now progress the approval processes to install access roads and conduct an initial drill program in the first half of 2010. Further Heritage Clearance Surveys, geological mapping and sampling will be undertaken on the remaining identified anomalous areas on the Oakover Manganese Project in 2010.

The Oakover Manganese Project is a key manganese focus for Jupiter. The Company is well funded and will significantly advance this Project over the next year.

Yours faithfully
Jupiter Mines Limited



Greg Durack
Chief Executive Officer

The potential quantity and grade of the of the targets at Oakover Manganese Project, are conceptual in nature and are for exploration purposes only. There has been insufficient exploration and valuation to define a mineral resource and it is uncertain if future exploration will result in the determination of a mineral resource.

Exploration Manager: Charles William Guy Competent Person

The information in this announcement that relates to Exploration Results is based on information compiled by Mr Charles William Guy who is a Member of the Australian Institute of Geoscientists and a full- time employee of Jupiter Mines Limited. Charles William Guy has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity that he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Charles William Guy consents to the inclusion in the announcement of the matters based on his information in the form and context in which it appears Charles William Guy holds the position of Exploration Manager with Jupiter Mines Limited.

Sample_ID	Prospect	Easting	Northing	Mn %	Fe%	P%	LOI 1000
OKCE090034	C9A	273451	7645989	**60.7**	1.14	0.014	11.85
OKCE090035	C9A	273512	7646001	19.6	13.5	0.018	7.91
OKCE090036	C9A	273556	7646063	**56.5**	2.85	0.0132	9.62
OKCE090037	C9B	274132	7646060	8.18	50.1	0.018	12
OKCE090038	C9B	274221	7646121	**48.9**	9.23	0.0228	11.15
OKCE090039	MN14	272631	7646046	8.04	12.1	0.0182	5.03
OKCE090040	C8A	269458	7646962	22.2	6.22	0.0863	5.56
OKCE090041	MN18	269851	7649694	15.15	14.6	0.0905	6.07
OKCE090042	C9A	271628	7646565	**49.8**	8.39	0.0405	9.32
OKCE090043	MN17	270239	7648733	**32.9**	5.82	0.0413	7.53
OKCE090044	C7	273521	7648534	**35.9**	10.6	0.0206	7.97
OKCE090045	C7	273542	7648664	**54.5**	4.25	0.0261	10.05
OKCE090046	C10	275809	7648007	29	12.9	0.0233	8.87
OKCE090047	C11	276657	7643963	**45.3**	12.35	0.0377	9.98
OKCE090048	C11	276842	7643701	**44.1**	14.75	0.0263	10.15
OKCE090049	C11	276968	7643605	29.2	21.3	0.0211	9.41
OKCE090050	C11	276352	7644661	**45.9**	3.42	0.0981	8.38
OKCE090051	C11	276424	7644614	28.2	3.91	0.0301	5.65
OKCE090052	C11	277103	7643112	**42.6**	18.25	0.043	10.5
OKCE090053	C11	277137	7643004	**48.2**	12.4	0.1155	10.7
OKCE090054	C11	277192	7642944	**52.9**	6.02	0.0273	11.3
OKCE090055	C11	277235	7642879	28.8	5.95	0.046	7.33
OKCE090056	C11	277350	7642777	**61**	3.92	0.0717	10.05
OKCE090057	C11	277352	7642962	27.1	30.5	0.017	9.21
OKCE090058	C11	277210	7643202	**38.7**	19.9	0.0244	10.95
OKCE090059	C11	277601	7642656	**32.1**	24.7	0.0424	11.15
OKCE090060	C11	278067	7642518	**47.4**	15.6	0.0437	10.25
OKCE090061	C12	275808	7642323	**43.4**	10.75	0.0354	12.7
OKCE090062	C12	276247	7642048	**44.8**	17.6	0.0519	10.85
OKCE090063	C11	276513	7644044	0.446	57.5	0.0851	10.7
OKCE090064	C11	276600	7644035	**47.9**	11.3	0.0275	10.95
OKCE090065	C11	276703	7644429	**62.6**	3.44	0.0653	9.87
OKCE090066	C11	276513	7644492	20.5	36.4	0.0658	10.25
OKCE090067	C11	278530	7643760	**62.4**	1.665	0.0617	9.82
OKCE090068	C11	278588	7643793	**45.6**	17.6	0.0673	10.2
OKCE090069	C11	277555	7643939	10.4	33.1	0.0685	8.06
OKCE090070	C11	275982	7645393	**50.2**	8.79	0.03	10.25
OKCE090071	C11	275900	7645348	26.1	1.155	0.0168	5.32
OKCE090072	C11	276028	7645240	**30.1**	18.45	0.159	8.81
OKCE090073	MN2	290713	7669590	18	37.5	0.0359	9.22
OKCE090074	CB	257329	7663155	**51.6**	9.66	0.0224	12.5
OKCE090075	CB	257288	7662808	**47.1**	7.14	0.0136	13.2
OKCE090076	MN5	257323	7662561	26.6	27.6	0.0237	11.1
OKCE090077	MN6	259439	7664102	**45.5**	1.565	0.0299	9.51
OKCE090078	MN6	259675	7664192	5.46	6.54	0.0592	2.92
OKCE090079	MN7	260399	7662924	26.2	4.69	0.0245	7.85
OKCE090080	MN8	260854	7661266	21.5	19.45	0.0284	9.99

Table 1: Oakover Mn prospects: rock chip locations and lab data.
ALS Chemex Perth – whole rock XRF (FUSION) method 12 MGA ZONE 51

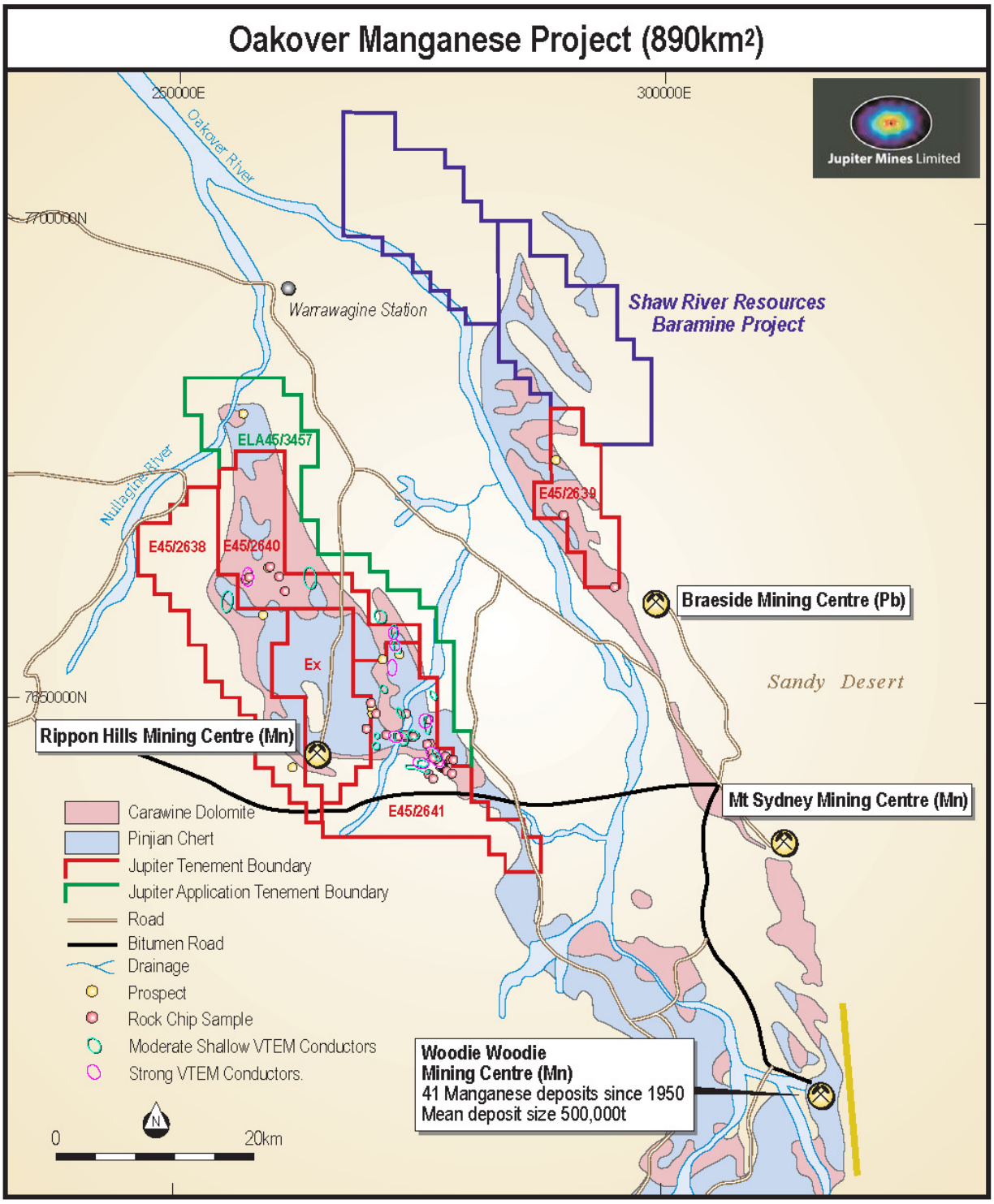


Figure 1 - Oakover Manganese Project

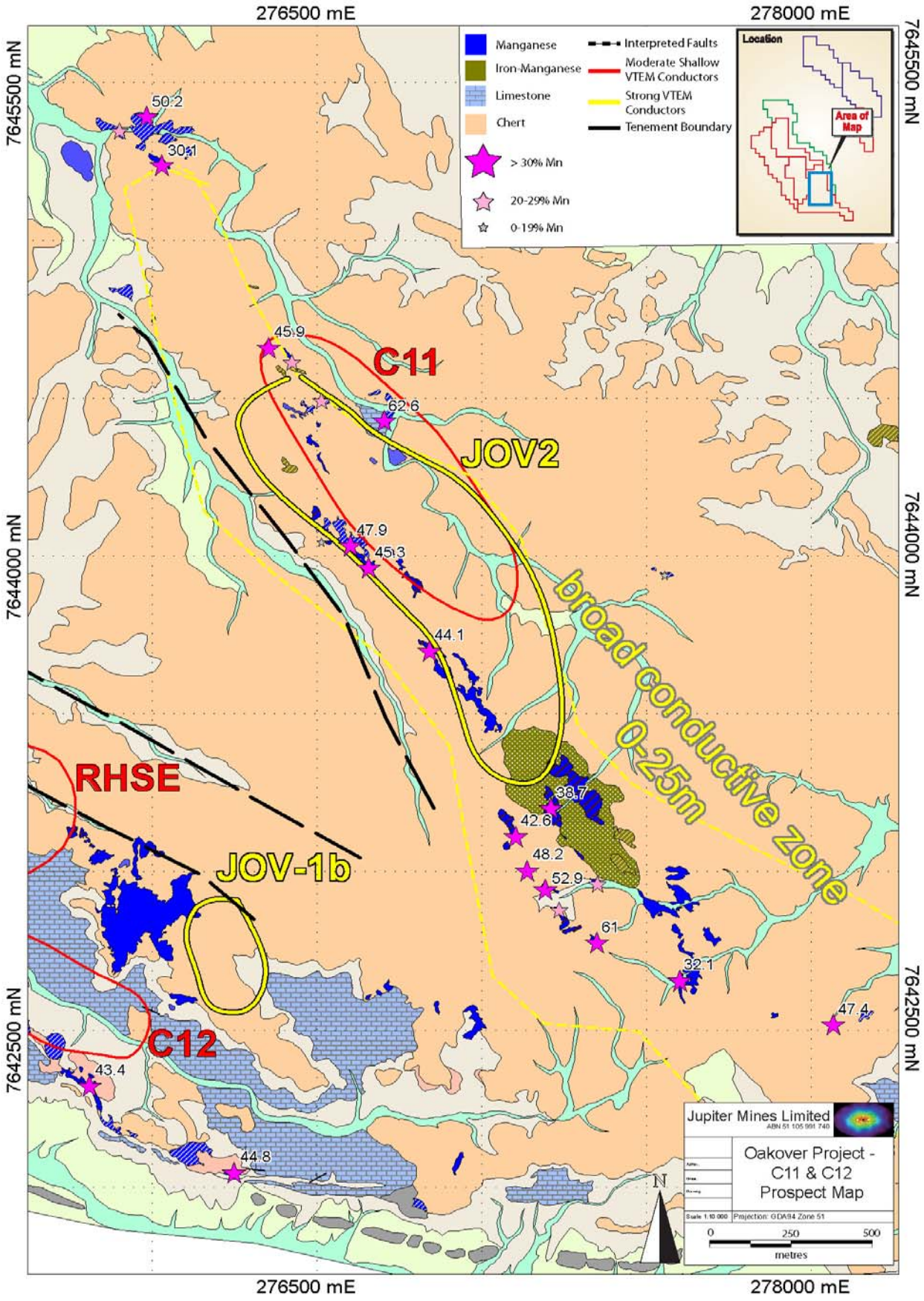


Figure 2 - E45/2641 Landsat ETM and VTEM Manganese Anomalies

Figure 3 - VTEM C11 prospect (E45/2641)

Figure 4 – VTEM C11 prospect (E45/2641) avg 39.1% Mn from 26 rock chips

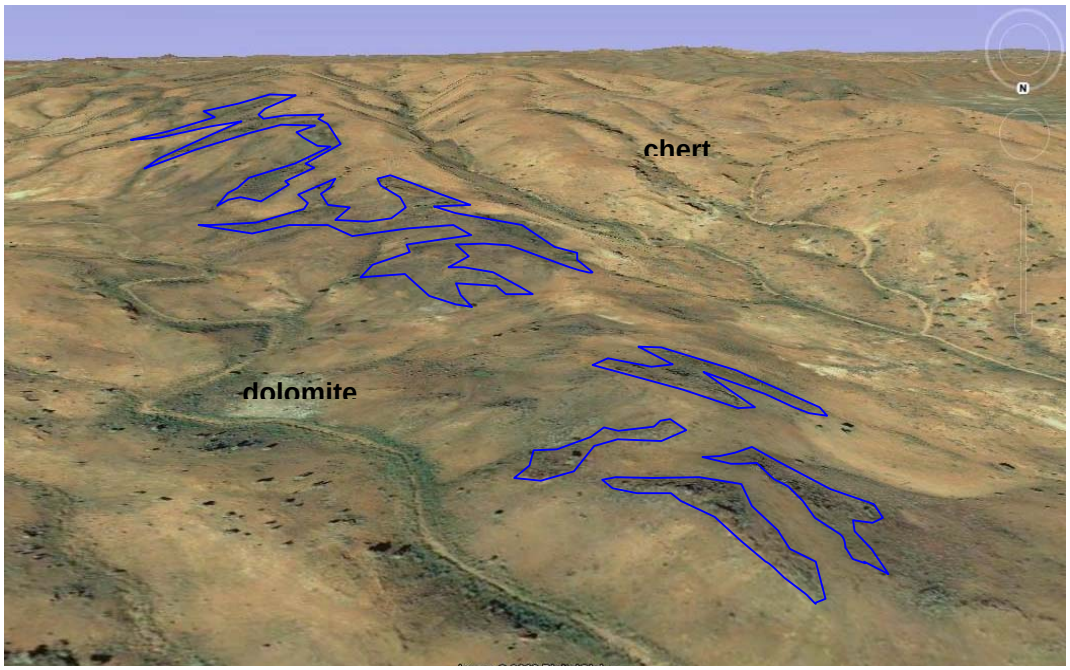


Figure 5 – Google Image of C11 from the NE showing mapped Manganese

Figure 6 – Massive manganese at surface on C11

C11 Prospect

Figure 7 – Heritage Survey with Njamal Elder on Ripon Hills South East (C11)

Figure 8 – VTEM C11 prospect (E45/2641)