



Australian Manganese Resources

Final Report EL 28609

“Mount Young East”

For the period
15/09/2011 to 20/10/2014

Titleholder: Australian Manganese Resources Pty Ltd
Operator: Australian Ilmenite Resources Pty Ltd (Managers and Receivers Appointed)
Target Commodities: Heavy Minerals, Iron Ore, Uranium
Project: Gulf Manganese
Date Granted: 15/09/2011
Datum/Zone: GDA94/53
1:250,000 Sheet: Mt. Young
1:100,000 Sheet: Mt. Young
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SUMMARY

This report covers activities on EL 28609 which was granted on 15th September 2011 for a period of six years to Australian Manganese Resources Pty Limited. EL28609 forms part of the eastern Group Tenements GR 271/13 (ELs 28586, 28588, 28589, 28607, 28608, **28609** and 28894) which were granted to Australian Manganese Resources Pty Ltd (AMR) at various dates in 2011 and 2012. Group reporting applies from February 2012. This report is the Final Report for EL28609 which was surrendered back to the Department of Mines and Energy on 15th September 2014.

The Project lies in the Batten Fault Zone within the Bauhinia Shelf of the Proterozoic McArthur Basin. The area has been historically subject to very limited exploration for manganese and other commodities by airborne geophysical methods at wide spacing that provides only basic information for an initial understanding.

The tenements are along the coast and close to the Gulf of Carpentaria. The tenements are situated within the Carpentaria Basin, a major Mesozoic-aged **sedimentary basin**. In Cretaceous times a major marine transgression laid down a sequence of sandstone, siltstone and conglomerate un-conformably over older rocks. Much of this sequence has been eroded with flat top mesas remnant in inland areas and cover (up to 100m thick) on coastal plains. Those portions of the tenements which are underlain by Cretaceous age sediments are considered to be prospective for manganese similar to that mineralization style found on Groote Eylandt.

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Very little field exploration was carried out during the life of this tenement due to other commitments in the area. However a comprehensive and complete review of all available data and deposit styles was undertaken as well as an inspection of all appropriate airborne geophysical methods and data sets available that might apply to the discovery of Manganese deposits under shallow cover.

At the conclusion of this exercise it was agreed that manganese style mineralization may be evident but the exploration license evaluation did not suggest any deposits of note.

INTRODUCTION

Background

Australian Manganese Resources Pty Ltd (AMR) holds eighteen granted exploration licenses and one exploration license application in the Gulf Country of the Northern Territory within the Bauhinia Shelf of the McArthur Basin Area.

This central group of AMR tenements that form GR 271/13 include ELs 28586, 28588, 28589, 28607, 28608, **28609** and 28894. This group was considered highly prospective for base metals and for significant manganese discovery. The locations of these tenements in relation to Cretaceous occurrences are shown in *Figure 1*. EL28609 is displayed in the central portion of the map and in *Figure 1a*. AMR has surrendered all EL's within this group and Group Reporting is therefore not required.

All tenements were selected on the basis of geological similarity to that at Groote Eylandt where economic manganese deposits are preserved under Cretaceous cover. It is noted that some of these tenements fall within The Limmen National Park.

EL 28609 extends from the coast inland for 20km. Most of the tenement is within the proposed Limmen National Park. There are occasional outcrops of Proterozoic rocks however most of the EL is underlain by recent alluvium and sand. It is likely that Cretaceous sediments are present beneath the sand cover. Exploration will be difficult close to the coast due to swampy ground and mangroves.

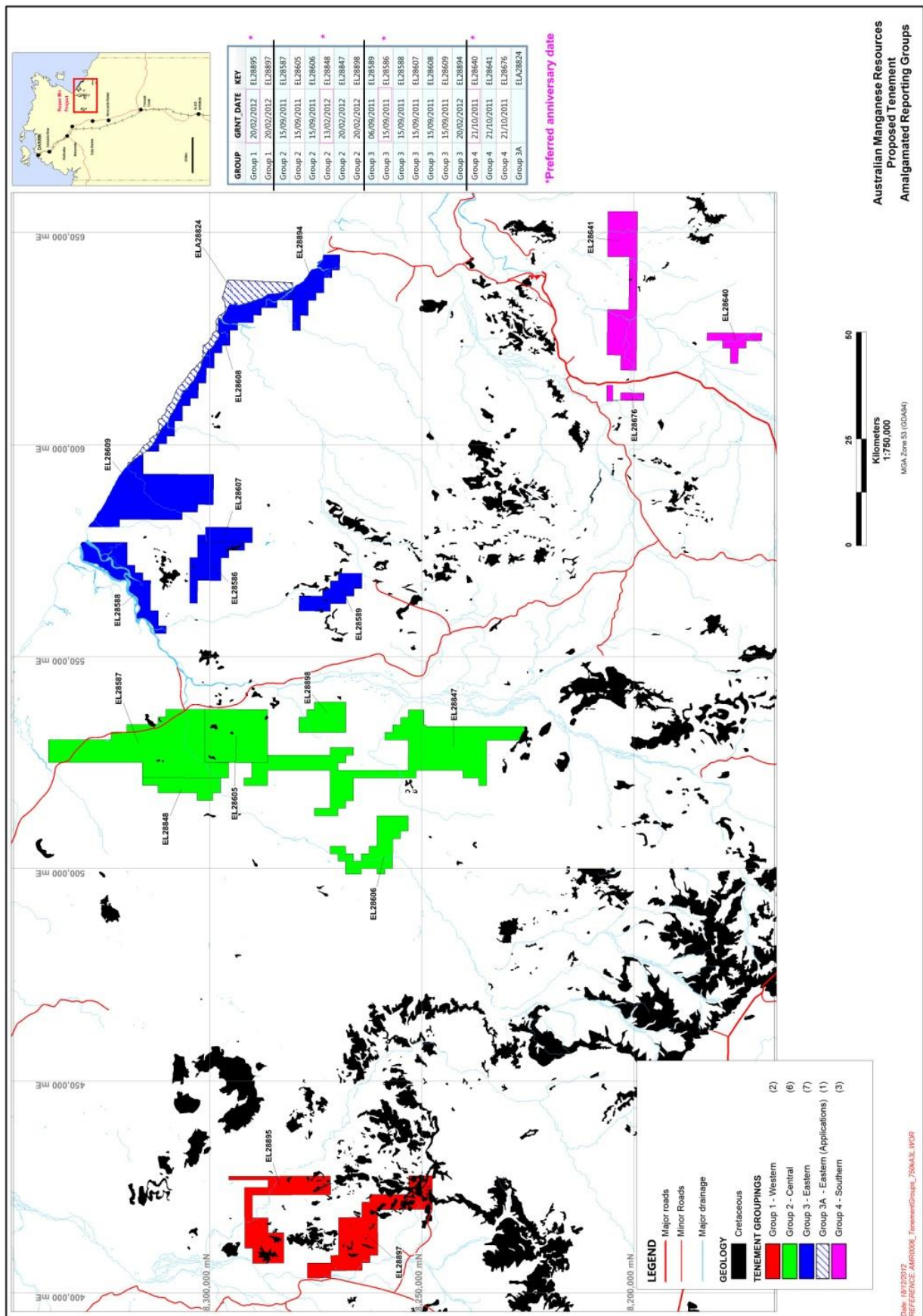
This final report for EL28609 covers all activities on the exploration license which was granted to Australian Manganese Resources Pty Limited on 15th September 2011.

Climate

The project area has an average annual rainfall between 600-800 millimeters with most falls between November and April. It presents a humid monsoonal climate, with mild dry winters and hot humid summers often with heavy monsoonal rains associated with tropical cyclones. During the wet season, portions of the area can be inaccessible for exploration activities.

Location and Access

The exploration lease is located stretching WNW to ESE along the coast of the Gulf of Carpentaria to 20km inland approximately 300km in an east by southeast direction from Mataranka and lies within NT Portion 1333 "Lorella" , NT Portion 1334 Limmen National Park. Access can best be accomplished by rotary wing helicopter or by vessel with most tracks in disrepair. The EL is bisected by Nyanantu and Manukalungku Creeks along with several other un-named water courses.



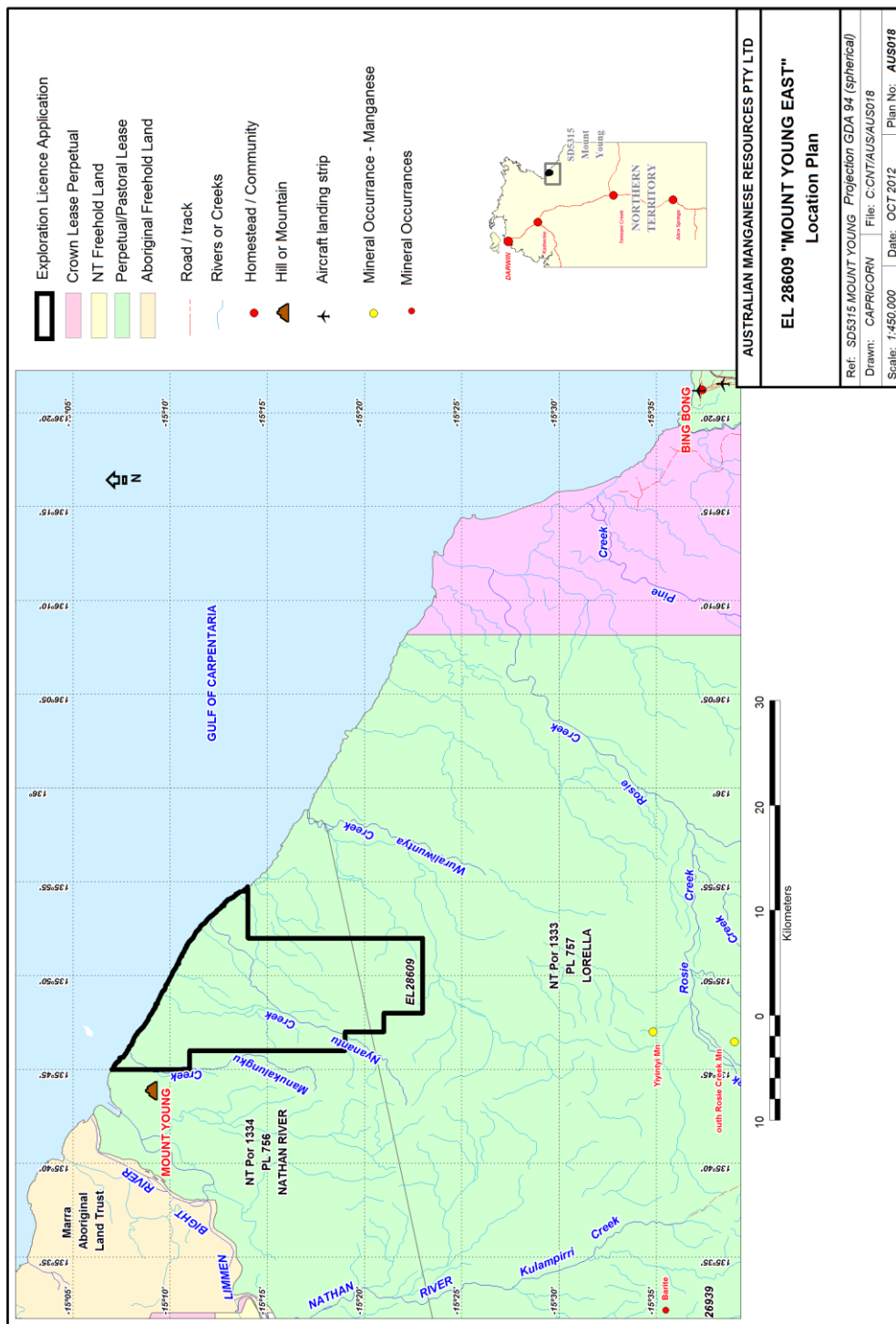


Figure 1a: EL28609 Location Plan.

TENURE

Mining/Mineral Rights

Exploration Licenses within the current Group Reporting GR 271/13 were granted to AMR Pty Ltd (Australian Manganese Resources Pty Limited) for a period of 6 years covering 286 sub blocks and 816 sq kms (*Table 1; Figure 2*). EL28609 was granted to AMR on the 15th September 2011.

Land Tenure

EL28609 resides within NT Portions 1334 the Limmen National Park and 1333 “Lorella”

Title Type_No.	Land Tenure	Grant date	Expiry date	Area Sq Km	Current Sub Blocks	Annual Report
EL28586	Pastoral	15/09/2011	14/09/2017	82.79	25	14/11/2013
EL28588	Pastoral	15/09/2011	14/09/2017	124.19	46	14/11/2013
EL28589	Pastoral	06/09/2011	05/09/2017	69.45	21	14/11/2013
EL28607	Pastoral	06/09/2011	05/09/2017	43.04	13	14/11/2013
EL28608	Pastoral	15/09/2011	14/09/2017	142.80	62	14/11/2013
EL28609	Pastoral	15/09/2011	14/09/2017	275.00	91	14/11/2013
EL28894	Pastoral/CLP	15/09/2011	14/09/2017	78.94	28	14/11/2013

Table 1: Exploration Licences: Details of Group Tenements GR 271/13.

Aboriginal and Heritage Sites

No archaeological or sacred site surveys have been carried out or conducted during the term of Exploration License 28609 by AMR.

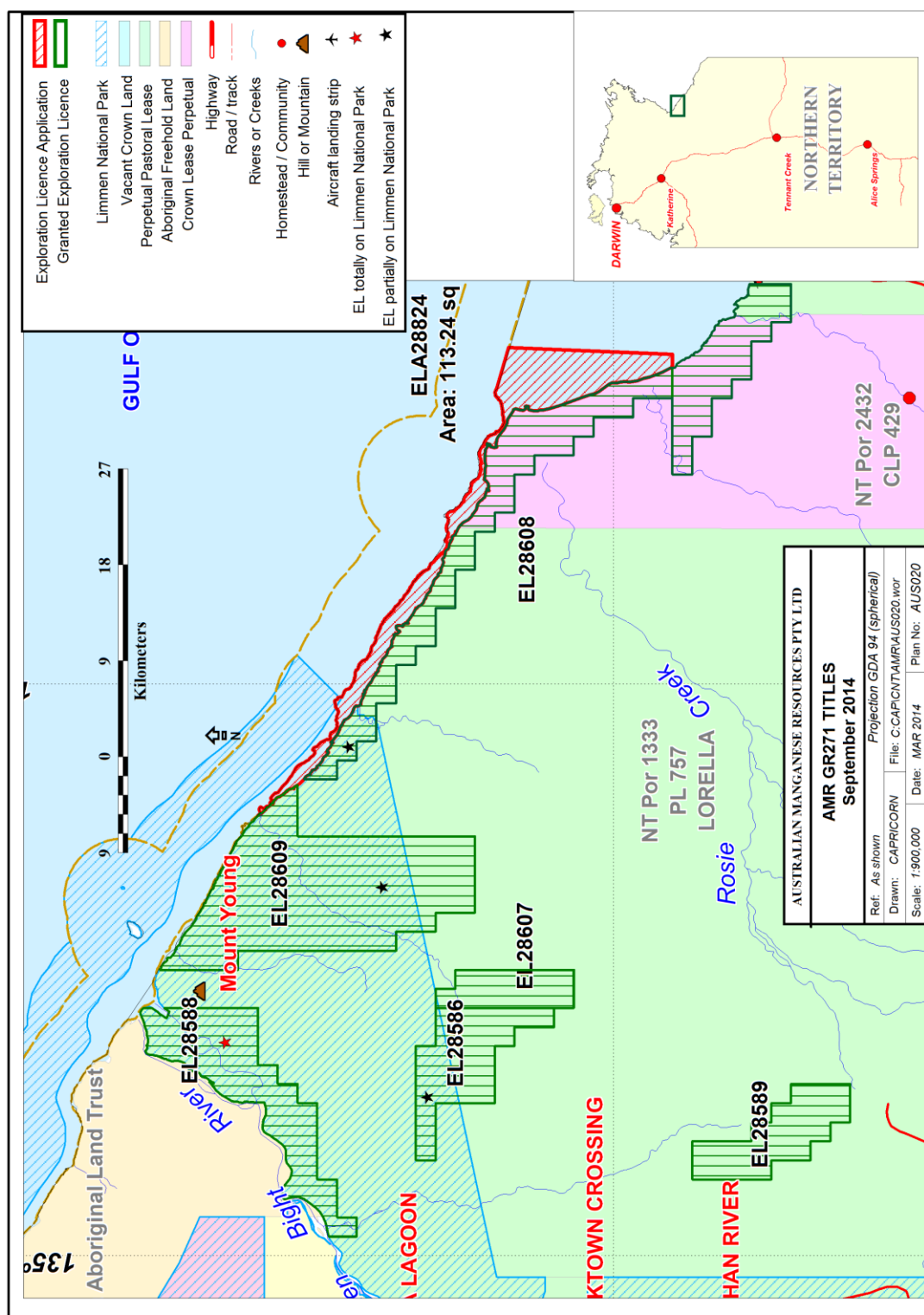


Figure 2: Eastern Group Tenements location plan (GR 271/13; 286 sub blocks) with EL28609 at 91 sub-blocks.

GEOLOGY

Regional Geology

EL28609 and all AMR Group 271 tenements are situated within the Carpentaria Basin, a major mesozoic-aged sedimentary basin. The Carpentaria Basin is a broad, north-trending intracratonic basin covering an area of about 600 000 km², about 20% of which is in Northern Territory waters. Most of the basin lies offshore within the Gulf of Carpentaria. The geology is shown on the Mt Young 1:250,000 geological sheet. The basin was formed as a gentle intracratonic downwarp in the Jurassic and Cretaceous and contains up to 1760 m of mainly Mesozoic clastic sediments (Burgess 1984). McConachie et al (1990) subdivided the basin into four sub-basins that are recognised by the characteristics of the basal Mesozoic sandstone or the basement they overlie.

Onshore in the west, the basin is flanked by Proterozoic rocks of the Arnhem and Mount Isa Inliers and the McArthur Basin, which the shelf succession overlies with angular unconformity. Basement highs separate the Carpentaria Basin from the Papuan Basin in the north and Eromanga Basin in the south.

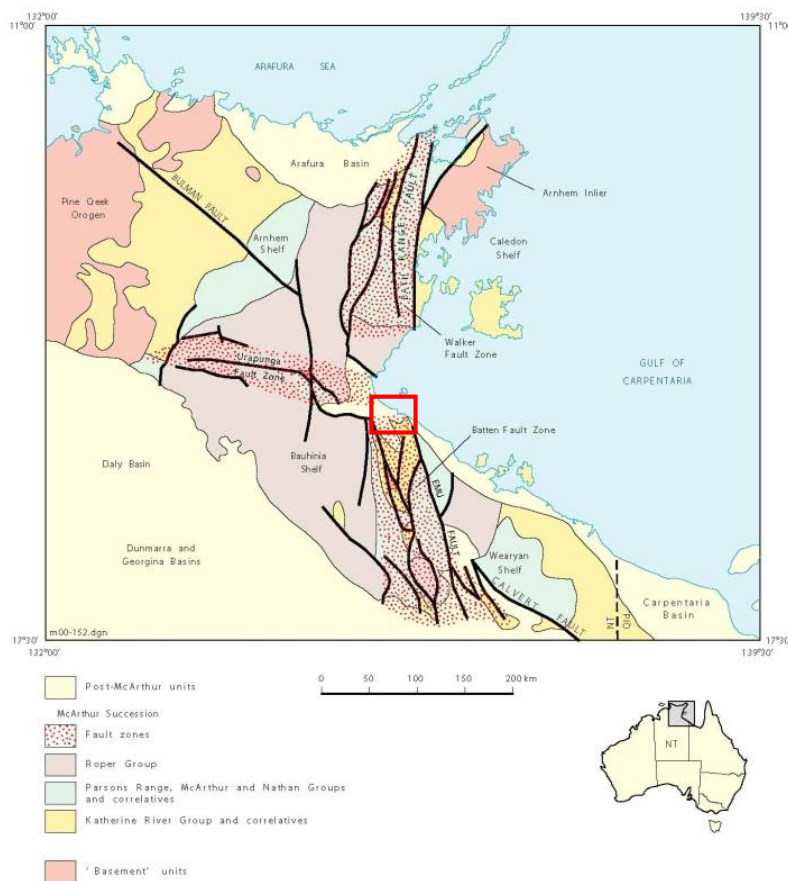


Figure 3: Regional Geology showing Project Location.

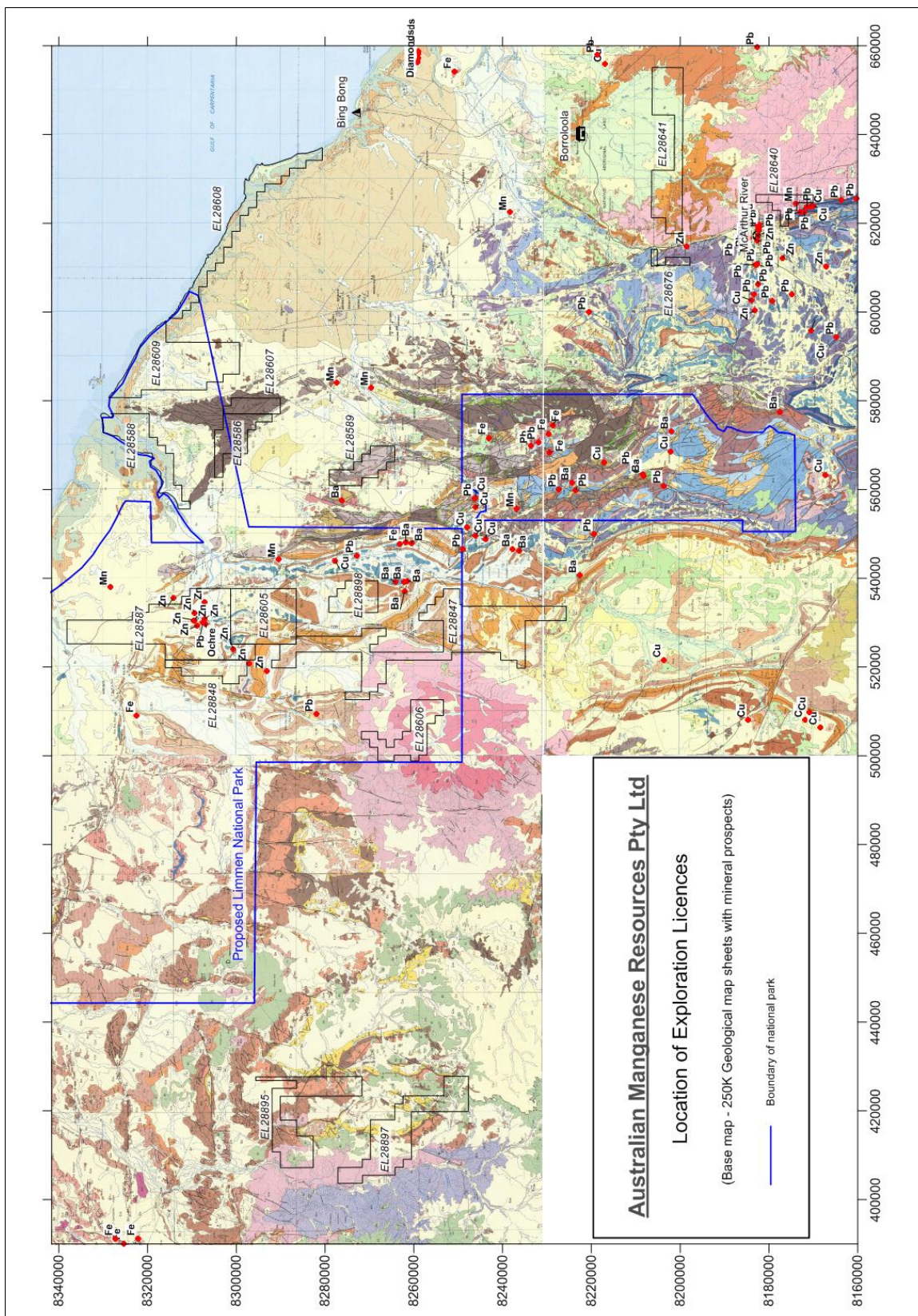
Local Geology

The tenements lie within the Carpentaria Basin at the edge with McArthur river Basin which is characterized on the east side to the Batten Fault Zone that hosts a large number of base metal prospects including the McArthur River lead-zinc mine. To the west of the Batten Fault Zone is the Bauhinia Shelf where the Roper Group contains the oolitic ironstones of the Sherwin Formation. The area to the east of the Batten Fault Zone is underlain by formations of the Wearyan Shelf.

In the Carpentaria Basin deposition commenced in the Jurassic with fluvial sandstone, minor siltstone and conglomerate in a series of basement depressions. Fluvial sandstone deposition was widespread during the Early Cretaceous. A Middle Cretaceous marine transgression brought paralic and then widespread shallow marine conditions to the basin, resulting in the deposition of a thick mudstone sequence. Pisolitic manganese was precipitated in protected coastal areas along the west coast of Groote Eylandt at this time. A late Middle Cretaceous regression resulted in the return of paralic conditions and deposition of the Normanton Formation. The Western Gulf Sub-basin is characterised by rugose basement palaeotopography and thin to absent basal Mesozoic sandstone. Fine marine sediments of the Rolling Downs Group constitute the bulk of the stratigraphic section in this sub-basin, which suggests that this part of the basin consisted of highlands with contemporaneous isolated valleys, infilled during the Jurassic-Early Cretaceous (McConachie et al 1990). Cretaceous strata of the onshore Western Gulf Subbasin consist of a thin sequence (max 100 m) of sandstone, siltstone and conglomerate, which is preserved as mesas and plateaux in a 150 km wide belt along the western margin of the Gulf of Carpentaria (Krassay 1994a). This belt represents the western epeiric shelf of the Carpentaria Basin and the extent of the Late Albian western shoreline.

During the Early to Middle Cretaceous, storm- and wavedominated siliciclastic sediments accumulated on this gently sloping shelf. The sequence has been studied by Krassay (1994b) who subdivided the previously named Mullaman Beds into the shallow marine, manganese-bearing Walker Creek Formation and the mainly fluvial Yirrkala Formation. Extensive bauxite deposits have developed over the latter on the Gove Peninsula.

Remote sensing methods such as satellite imagery, airborne geophysics and hyperspectral mapping can be used at a regional level for base metals exploration. Imagery and remotely sensed information may be the only way to locate drill targets within EL28609.



PREVIOUS EXPLORATION

Mining History

No previous mining has been conducted on EL28609 nor within the Group tenements.

Exploration by Previous Companies

Sporadic exploration over the western and southern margins of the Carpentaria Basin on the mainland has been conducted by various companies since 1964 (eg BHP 1964a, Chestnut et al 1967, Still 1971, Lockhardt 1977, Paterson 1997). A number of significant prospects (eg South Rosie Creek and Batten Creek) have been discovered in this region using the Groote Eylandt manganese model. Total production of manganese ore from the Northern Territory is about 50 Mt and is dominated by the Groote Eylandt operation.

BHP Minerals undertook exploration for manganese in the area covered by the AMR tenements during the early 1990's. The main techniques used were airborne and ground electromagnetic surveys (TEM) plus some drilling. Many spurious TEM anomalies were generated by saline water incursions in the coastal sediments. Minor intersections of manganese were found at the Brumby, Rosie Creek South and Yiyintyi prospects. Rosie Creek South is located close to a prominent hill of Yiyintyi Sandstone. The manganese mineralization is hosted by Cretaceous claystone at the unconformity with the underlying Yiyintyi sandstone (Ferenczi 2001).

The mineralization is represented as a stratiform, pisolitic manganese horizon within a glauconitic clay-stone which overlies a basal quartz sandstone. The Cretaceous sequence is up to 100m thick. The ore zone forms a sheet-like body up to 3m thick which occurs within a mineralized zone some 22km long and up to 6km wide. Current reserves are about 120Mt at 48% Mn.

Exploration Completed by AMR

No field exploration was carried out on EL28608 by AMR Pty Ltd, during the life of the granted tenement. Enquiries were made with Fugro Geophysical on the possibility of flying aeromagnetics to locate manganese under shallow cover in a similar way to the discovery of Groote Eylandt.

In addition, the intention to conduct helicopter based reconnaissance rock chip sampling and mapping was hampered by the lack of exploration funding. This was to be made available through the parent company Australian Ilmenite Resources. However that company was focused on trying to maintain its ilmenite production from Sill 80 on the Roper Heavy Minerals Project.

An extensive in-house desktop geological evaluation was carried out on all AMR held tenement in mid 2014 resulting in the surrender of EL28609.

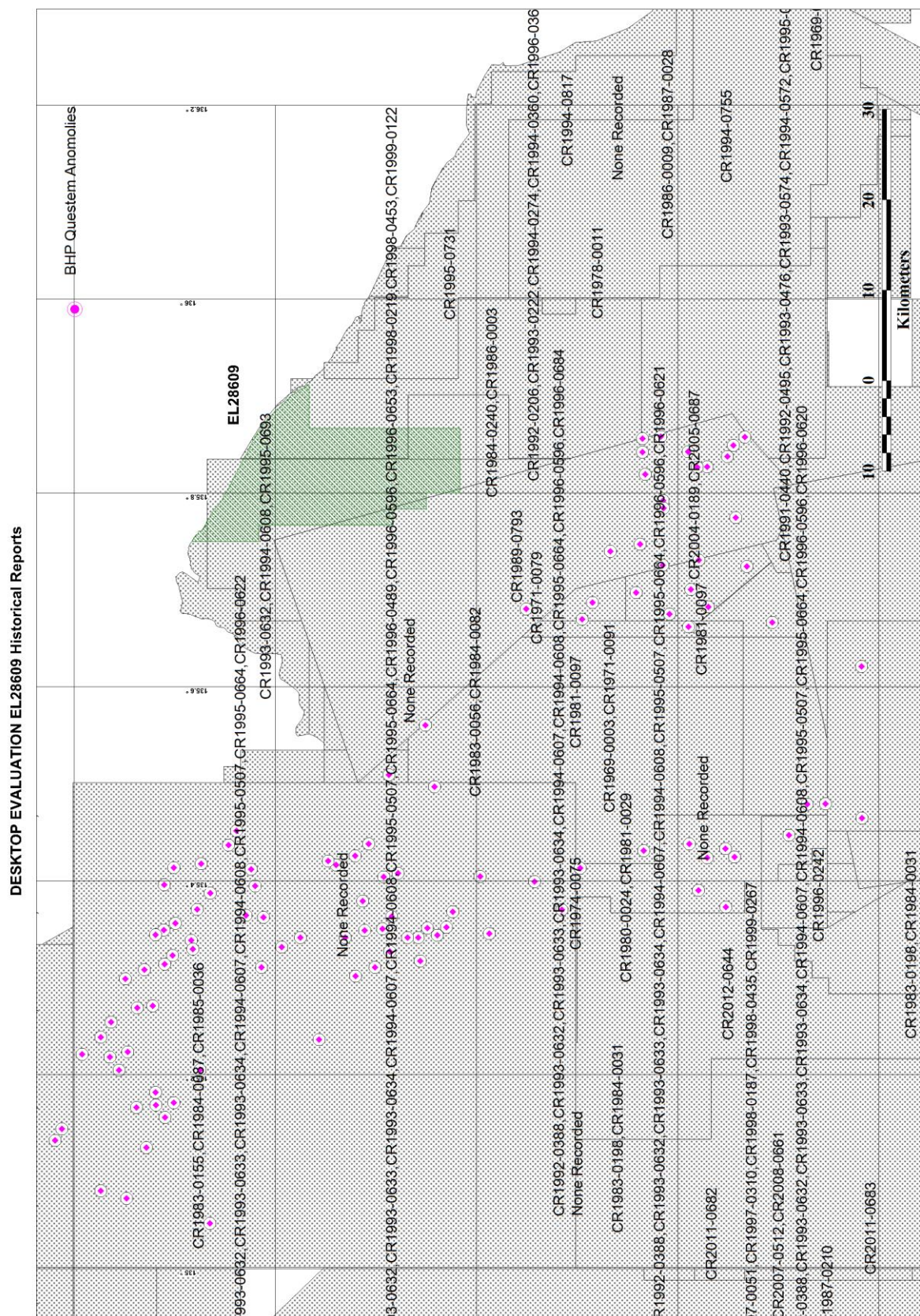


Figure 5: Desktop Evaluation datasets EL28609.

Data Sets Reviewed

TenNum	Granted	Ceased	AreaSqKM	ReportIDs	ID	_1	STATUS	EFFECTIVE DATE	GRNT DATE	EXPIRY_DATE
AP3069	19710212	19720211	989.1275164	CR1971-0079	6986	EL28586	grant	20110915	20110915	20170914
EL1070	19760504	19770503	1189.142781	CR1977-0062	6609	EL28586	grant	20110915	20110915	20170914
EL1071	19760504	19770503	1157.893373	CR1977-0062	6608	EL28586	grant	20110915	20110915	20170914
EL1744	19780418	19790417	1224.265043	CR1979-0058	6582	EL28586	grant	20110915	20110915	20170914
EL1907	19790814	19850813	798.3277817	CR1980-0076,CR1982-0141,CR1982-0339,CR1983-0258,CR1983-0259	7510	EL28586	grant	20110915	20110915	20170914
EL2175	19800129	19810128	412.9681244	CR1981-0097	7029	EL28586	grant	20110915	20110915	20170914
EL2176	19791107	19811106	1092.173564	CR1981-0097	7028	EL28586	grant	20110915	20110915	20170914
EL24664	20051221	20090609	457.6704482	None Recorded	4965	EL28586	grant	20110915	20110915	20170914
EL24778	20060427	20090609	469.1925017	None Recorded	4436	EL28586	grant	20110915	20110915	20170914
EL3486	19820301	19880228	1192.036086	CR1983-0056,CR1984-0082	6271	EL28586	grant	20110915	20110915	20170914
EL5785	19880907	19900808	817.9083864	CR1989-0793	6296	EL28586	grant	20110915	20110915	20170914
EL7261	19910524	19981222	1557.729119	CR1992-0388,CR1993-0632,CR1993-0633,CR1993-0634,CR1994-0607,CR1994-0608,CR1995-0507,CR1995-0664,CR1996-0489,CR1996-0596,CR1996-0653,CR1998-0219,CR1998-0453,CR1999-0122	723	EL28586	grant	20110915	20110915	20170914
EL7262	19910524	19960606	1470.878534	CR1992-0388,CR1993-0632,CR1993-0633,CR1993-0634,CR1994-0607,CR1994-0608,CR1995-0664,CR1996-0596,CR1996-0684,CR1971-0039,CR1971-0042,CR1972-0005,CR1972-0087	724	EL28586	grant	20110915	20110915	20170914
AP2589	19700211	19720210	5429.177319	CR1971-0058	7320	EL28587	grant	20110915	20110915	20170914
AP2820	19701203	19710602	10926.09136	CR1971-0058	7217	EL28587	grant	20110915	20110915	20170914
AP983			27230.2406	CR1963-0004,CR1977-0020	6697	EL28587	grant	20110915	20110915	20170914
EL1068	19760504	19770503	1062.332687	CR1977-0062	6611	EL28587	grant	20110915	20110915	20170914
EL1069	19760504	19770503	1070.760573	CR1977-0062	6610	EL28587	grant	20110915	20110915	20170914
EL1422	19771107	19791106	837.3260058	CR1980-0024,CR1981-0029	7202	EL28587	grant	20110915	20110915	20170914
EL24402	20050603	20090609	1434.633808	None Recorded	4696	EL28587	grant	20110915	20110915	20170914

EL24665	20060428	20120827	1213.107261	CR2008-0517,CR2010-0382,CR2011-0382	8493	EL28587	grant	20110915	20110915	20170914
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EL24778	20060427	20090609	469.1925017	None Recorded	4436	EL28588	grant	20110915	20110915	20170914
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EL7263	19910524	19960524	1638.024145		725	EL28605	grant	20110915	20110915	20170914
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CR1971-0039,CR1971-0042,CR1972-0005,CR1972-0087										
AP2589	19700211	19720210	5429.177319		7320	EL28606	grant	20110915	20110915	20170914
AP2820	19701203	19710602	10926.09136	CR1971-0058	7217	EL28606	grant	20110915	20110915	20170914
AP3322	19710805	19720804	4883.934021	CR1972-0035,CR1972-0087	6822	EL28606	grant	20110915	20110915	20170914
CR2003-0411,CR2004-0516,CR2005-0376,CR2005-0536,CR2006-0478,CR2006-0528,CR2007-0466,CR2007-0594,CR2008-0714										
EL22732	20020926	20080905	638.2123662		4080	EL28606	grant	20110915	20110915	20170914
CR2006-0467,CR2007-0512,CR2008-0661										
EL23771	20030819	20110818	37.76973767		7842	EL28606	grant	20110915	20110915	20170914
CR2006-0468,CR2007-0513,CR2008-0662										
EL23772	20030819	20110818	42.83474289		7845	EL28606	grant	20110915	20110915	20170914
EL25859	20070920	20120228	920.5017348	CR2011-0016,CR2011-0977	8535	EL28606	grant	20110915	20110915	20170914
EL26514	20080718	20120228	49.93036012	CR2011-0682	8532	EL28606	grant	20110915	20110915	20170914
EL26515	20080718	20120228	36.22733689	CR2011-0683	8534	EL28606	grant	20110915	20110915	20170914
EL3495	19820419	19840418	794.1454684	CR1983-0198,CR1984-0031	6198	EL28606	grant	20110915	20110915	20170914

EL4542	19840620	19900619	1487.505191	CR1985-0190,CR1986-0202,CR1987-0210	6085	EL28606	grant	20110915	20110915	20170914
EL4551	19840620	19900619	1628.194139	CR1985-0182	6075	EL28606	grant	20110915	20110915	20170914
EL7263	19910524	19960524	1638.024145	CR1992-0388,CR1993-0632,CR1993-0633,CR1993-0634,CR1994-0607,CR1994-0608,CR1995-0507,CR1995-0664,CR1996-0596,CR1996-0621	725	EL28606	grant	20110915	20110915	20170914
EL7264	19910524	19960524	1087.674511	CR1992-0388,CR1993-0632,CR1993-0633,CR1993-0634,CR1994-0607,CR1994-0608,CR1995-0507,CR1995-0664,CR1996-0596,CR1996-0620	726	EL28606	grant	20110915	20110915	20170914
EL7827	19921027	19951101	812.304826	CR1993-0482,CR1994-0434,CR1995-0093,CR1995-0442,CR1996-0015	910	EL28606	grant	20110915	20110915	20170914
EL8708	19950109	19990324	307.5419091	CR1996-0005,CR1997-0051,CR1997-0310,CR1998-0187,CR1998-0435,CR1999-0267	1571	EL28606	grant	20110915	20110915	20170914
EL9669	19961101	20061031	175.2577435	CR1997-0772,CR1998-0747,CR1999-0049,CR1999-0486,CR2000-0398,CR2000-0424,CR2001-0305,CR2002-0368,CR2003-0450,CR2004-0596,CR2005-0494,CR2006-0571	2758	EL28606	grant	20110915	20110915	20170914
AP3069	19710212	19720211	989.1275164	CR1971-0079	6986	EL28607	28607	20110915	20170914	
EL1070	19760504	19770503	1189.142781	CR1977-0062	6609	EL28607	28607	20110915	20170914	
EL1071	19760504	19770503	1157.893373	CR1977-0062	6608	EL28607	28607	20110915	20170914	
EL1744	19780418	19790417	1224.265043	CR1979-0058	6582	EL28607	28607	20110915	20170914	
EL1907	19790814	19850813	798.3277817	CR1980-0076,CR1982-0141,CR1982-0339,CR1983-0258,CR1983-0259	7510	EL28607	28607	20110915	20170914	
EL2176	19791107	19811106	1092.173564	CR1981-0097	7028	EL28607	28607	20110915	20170914	
EL24664	20051221	20090609	457.6704482	None Recorded	4965	EL28607	28607	20110915	20170914	
EL24778	20060427	20090609	469.1925017	None Recorded	4436	EL28607	28607	20110915	20170914	
EL25070	20060815	20090609	1496.904192	None Recorded	4783	EL28607	28607	20110915	20170914	
EL3486	19820301	19880228	1192.036086	CR1983-0056,CR1984-0082	6271	EL28607	28607	20110915	20170914	
EL5785	19880907	19900808	817.9083864	CR1989-0793	6296	EL28607	28607	20110915	20170914	

EL7261	19910524	19981222	1557.729119	CR1992-0388,CR1993-0632,CR1993-0633,CR1993-0634,CR1994-0607,CR1994-0608,CR1995-0507,CR1995-0664,CR1996-0489,CR1996-0596,CR1996-0653,CR1998-0219,CR1998-0453,CR1999-0122	723	EL28607	28607	20110915	20170914	
EL7262	19910524	19960606	1470.878534	CR1992-0388,CR1993-0632,CR1993-0633,CR1993-0634,CR1994-0607,CR1994-0608,CR1995-0664,CR1996-0596,CR1996-0684	724	EL28607	28607	20110915	20170914	
AP2357	19690731	19700730	1251.747639	CR1969-0005	7548	EL28608	grant	20110915	20110915	20170914
EL1301	19761102	19821101	661.4766817	CR1977-0150,CR1980-0073,CR1980-0074,CR1980-0127,CR1981-0042,CR1982-0024,CR1983-0170	7450	EL28608	grant	20110915	20110915	20170914
EL1424	19770316	19780315	627.0284495	CR1978-0011	7200	EL28608	grant	20110915	20110915	20170914
EL1425	19771028	19781027	1282.062692	CR1978-0011	7199	EL28608	grant	20110915	20110915	20170914
EL2072	19790613	19830324	1290.233569	CR1980-0171,CR1981-0230,CR1982-0284,CR1983-0123,CR1984-0118,CR1986-0015	7261	EL28608	grant	20110915	20110915	20170914
EL25070	20060815	20090609	1496.904192	None Recorded	4783	EL28608	grant	20110915	20110915	20170914
EL4678	19841025	19901024	820.3587594	CR1986-0009,CR1987-0028	5750	EL28608	grant	20110915	20110915	20170914
EL7261	19910524	19981222	1557.729119	CR1992-0388,CR1993-0632,CR1993-0633,CR1993-0634,CR1994-0607,CR1994-0608,CR1995-0507,CR1995-0664,CR1996-0489,CR1996-0596,CR1996-0653,CR1998-0219,CR1998-0453,CR1999-0122	723	EL28608	grant	20110915	20110915	20170914
EL7313	19910222	19941107	225.1152949	CR1992-0206,CR1993-0222,CR1994-0274,CR1994-0360,CR1996-0366	619	EL28608	grant	20110915	20110915	20170914
EL7824	19920713	19950703	295.1828637	CR1993-0632,CR1994-0608,CR1995-0693	908	EL28608	grant	20110915	20110915	20170914
EL8048	19930924	19941019	264.7781106	CR1994-0817	1154	EL28608	grant	20110915	20110915	20170914
EL8692	19950109	19950505	178.8282585	CR1995-0731	1563	EL28608	grant	20110915	20110915	20170914
EL880	19730405	19740404	1089.053901	CR1974-0076	4354	EL28608	grant	20110915	20110915	20170914

EL9545	19961107	19971024	1270.519796	None Recorded	2603	EL28608	grant	20110915	20110915	20170914
AP2357	19690731	19700730	1251.747639	CR1969-0005	7548	EL28609	grant	20110915	20110915	20170914
AP3069	19710212	19720211	989.1275164	CR1971-0079	6986	EL28609	grant	20110915	20110915	20170914
EL1070	19760504	19770503	1189.142781	CR1977-0062	6609	EL28609	grant	20110915	20110915	20170914
EL1301	19761102	19821101	661.4766817	CR1977-0150,CR1980-0073,CR1980-0074,CR1980-0127,CR1981-0042,CR1982-0024,CR1983-0170	7450	EL28609	grant	20110915	20110915	20170914
EL1907	19790814	19850813	798.3277817	CR1980-0076,CR1982-0141,CR1982-0339,CR1983-0258,CR1983-0259	7510	EL28609	grant	20110915	20110915	20170914
EL25070	20060815	20090609	1496.904192	None Recorded	4783	EL28609	grant	20110915	20110915	20170914
EL2966	19810805	19870804	79.47543086	CR1982-0209,CR1982-0340,CR1983-0258	6922	EL28609	grant	20110915	20110915	20170914
EL4362	19830914	19890913	430.422671	CR1984-0240,CR1986-0003	5178	EL28609	grant	20110915	20110915	20170914
EL5785	19880907	19900808	817.9083864	CR1989-0793	6296	EL28609	grant	20110915	20110915	20170914
EL7261	19910524	19981222	1557.729119	CR1992-0388,CR1993-0632,CR1993-0633,CR1993-0634,CR1994-0607,CR1994-0608,CR1995-0507,CR1995-0664,CR1996-0489,CR1996-0596,CR1996-0653,CR1998-0219,CR1998-0453,CR1999-0122	723	EL28609	grant	20110915	20110915	20170914
EL7262	19910524	19960606	1470.878534	CR1992-0388,CR1993-0632,CR1993-0633,CR1993-0634,CR1994-0607,CR1994-0608,CR1995-0664,CR1996-0596,CR1996-0684	724	EL28609	grant	20110915	20110915	20170914
EL7824	19920713	19950703	295.1828637	CR1993-0632,CR1994-0608,CR1995-0693	908	EL28609	grant	20110915	20110915	20170914
EL880	19730405	19740404	1089.053901	CR1974-0076	4354	EL28609	grant	20110915	20110915	20170914
AP1748	19670413	19680412	8539.453952	CR1968-0014,CR1969-0012,CR1971-0010	7727	EL28640	grant	20111021	20111021	20171020
AP3319	19710609	19720608	3859.627985	CR1972-0015,CR1973-0012,CR1974-0087	6823	EL28640	grant	20111021	20111021	20171020
AP510			6015.55478	CR1957-0006,CR1957-0007,CR1957-0008,CR1962-0012	6755	EL28640	grant	20111021	20111021	20171020
AP983			27230.2406	CR1963-0004,CR1977-0020	6697	EL28640	grant	20111021	20111021	20171020

EL1375	19761102	19791101	776.583475	CR1977-0044,CR1978-0087,CR1979-0013,CR1980-0050,CR1980-0064,CR1982-0263	7281	EL28640	grant	20111021	20111021	20171020
EL22351	20030805	20081201	624.8060344	CR2006-0531,CR2008-0623,CR2008-0975	4234	EL28640	grant	20111021	20111021	20171020
EL23515	20030704	20131014	227.4044263	CR2004-0300,CR2005-0479,CR2006-0077,CR2007-0103,CR2008-0127,CR2009-0135,CR2009-0632	8744	EL28640	grant	20111021	20111021	20171020
EL25616	20070823	20120813	61.15270483	CR2008-0127,CR2009-0135,CR2009-0570	8385	EL28640	grant	20111021	20111021	20171020
EL27308	20091013	20121024	520.027505	CR2011-0965	7983	EL28640	grant	20111021	20111021	20171020
EL3623	19821220	19881219	385.213594	CR1984-0030,CR1984-0219	5948	EL28640	grant	20111021	20111021	20171020
EL597	19720920	19770919	1207.714183	CR1973-0011,CR1973-0012,CR1974-0126,CR1974-0130,CR1974-0165,CR1975-0002,CR1976-0003,CR1976-0111,CR1976-0115,CR1976-0116,CR1977-0003,CR1977-0018,CR1977-0019	5966	EL28640	grant	20111021	20111021	20171020
EL598	19720920	19770919	1231.292674	CR1973-0012,CR1974-0025,CR1974-0127,CR1974-0157,CR1974-0165,CR1975-0001,CR1975-0161,CR1976-0110,CR1976-0111	5961	EL28640	grant	20111021	20111021	20171020
EL7297	19910524	19970523	1551.170748	CR1993-0650,CR1994-0640,CR1995-0631,CR1996-0478,CR1996-0631,CR1997-0495	745	EL28640	grant	20111021	20111021	20171020
EL8189	20031006	20090216	109.277736	CR2005-0629,CR2006-0646	3414	EL28640	grant	20111021	20111021	20171020
EL8969	19950220	19990129	161.3119103	CR1996-0302,CR1997-0253,CR1997-0391,CR1998-0353,CR1998-0508,CR1999-0235	1625	EL28640	grant	20111021	20111021	20171020
AP1748	19670413	19680412	8539.453952	CR1968-0014,CR1969-0012,CR1971-0010	7727	EL28641	grant	20111021	20111021	20171020
AP255			3040.720784	CR1971-0045	7397	EL28641	grant	20111021	20111021	20171020
AP2555	19700116	19720715	1117.551144	CR1971-0044,CR1971-0119,CR1972-0054,CR1972-0093,CR1974-0143	7395	EL28641	grant	20111021	20111021	20171020

AP3319	19710609	19720608	3859.627985	CR1972-0015,CR1973-0012,CR1974-0087	6823	EL28641	grant	20111021	20111021	20171020
AP510			6015.55478	CR1957-0006,CR1957-0007,CR1957-0008,CR1962-0012	6755	EL28641	grant	20111021	20111021	20171020
AP983			27230.2406	CR1963-0004,CR1977-0020	6697	EL28641	grant	20111021	20111021	20171020
EL1332	19761102	19821101	296.616753	CR1977-0044,CR1978-0087,CR1979-0013,CR1980-0064,CR1981-0028,CR1982-0228,CR1982-0263,CR1982-0393,CR1983-0022,CR1983-0045,CR1986-0015,CR2007-0661	7372	EL28641	grant	20111021	20111021	20171020
EL1375	19761102	19791101	776.583475	CR1977-0044,CR1978-0087,CR1979-0013,CR1980-0050,CR1980-0064,CR1982-0263	7281	EL28641	grant	20111021	20111021	20171020
EL22244	20030307	20110307	1439.719582	CR2009-0317	8314	EL28641	grant	20111021	20111021	20171020
EL22351	20030805	20081201	624.8060344	CR2006-0531,CR2008-0623,CR2008-0975	4234	EL28641	grant	20111021	20111021	20171020
EL25617	20070823	20081201	248.3806621	CR2008-0975	4609	EL28641	grant	20111021	20111021	20171020
EL5787	19880713	19980108	576.9046444	CR1989-0587,CR1990-0540,CR1990-0682,CR1991-0491,CR1991-0520,CR1992-0626,CR1993-0561,CR1994-0048,CR1994-0622,CR1995-0153,CR1995-0669,CR1997-0061	6294	EL28641	grant	20111021	20111021	20171020
EL598	19720920	19770919	1231.292674	CR1973-0012,CR1974-0025,CR1974-0127,CR1974-0157,CR1974-0165,CR1975-0001,CR1975-0161,CR1976-0110,CR1976-0111	5961	EL28641	grant	20111021	20111021	20171020
EL680	19721203	19731202	655.4482451	CR1974-0143	4879	EL28641	grant	20111021	20111021	20171020
EL7294	20001030	20060614	1110.536685	CR2001-0313,CR2002-0369,CR2003-0486,CR2004-0585,CR2004-0586,CR2005-0434,CR2006-0344	3557	EL28641	grant	20111021	20111021	20171020
EL7297	19910524	19970523	1551.170748	CR1993-0650,CR1994-0640,CR1995-0631,CR1996-0478,CR1996-0631,CR1997-0495	745	EL28641	grant	20111021	20111021	20171020
AP1748	19670413	19680412	8539.453952	CR1968-0014,CR1969-0012,CR1971-0010	7727	EL28676	grant	20111021	20111021	20171020

AP3319	19710609	19720608	3859.627985	CR1972-0015,CR1973-0012,CR1974-0087	6823	EL28676	grant	20111021	20111021	20171020
AP510			6015.55478	CR1957-0006,CR1957-0007,CR1957-0008,CR1962-0012	6755	EL28676	grant	20111021	20111021	20171020
AP983			27230.2406	CR1963-0004,CR1977-0020	6697	EL28676	grant	20111021	20111021	20171020
EL1332	19761102	19821101	296.616753	CR1977-0044,CR1978-0087,CR1979-0013,CR1980-0064,CR1981-0028,CR1982-0228,CR1982-0263,CR1982-0393,CR1983-0022,CR1983-0045,CR1986-0015,CR2007-0661	7372	EL28676	grant	20111021	20111021	20171020
EL22351	20030805	20081201	624.8060344	CR2006-0531,CR2008-0623,CR2008-0975	4234	EL28676	grant	20111021	20111021	20171020
EL23635	20030704	20060306	277.8623907	CR2004-0357,CR2005-0225,CR2006-0145	4097	EL28676	grant	20111021	20111021	20171020
EL25617	20070823	20081201	248.3806621	CR2008-0975	4609	EL28676	grant	20111021	20111021	20171020
EL4169	19830609	19890608	36.26435505	CR1984-0128,CR1986-0131	5680	EL28676	grant	20111021	20111021	20171020
EL5787	19880713	19980108	576.9046444	CR1989-0587,CR1990-0540,CR1990-0682,CR1991-0491,CR1991-0520,CR1992-0626,CR1993-0561,CR1994-0048,CR1994-0622,CR1995-0153,CR1995-0669,CR1997-0061	6294	EL28676	grant	20111021	20111021	20171020
EL598	19720920	19770919	1231.292674	CR1973-0012,CR1974-0025,CR1974-0127,CR1974-0157,CR1974-0165,CR1975-0001,CR1975-0161,CR1976-0110,CR1976-0111	5961	EL28676	grant	20111021	20111021	20171020
EL6236	19881117	19981116	833.212498	CR1989-0587,CR1990-0540,CR1991-0491,CR1992-0061,CR1992-0564,CR1993-0561,CR1994-0048,CR1994-0155,CR1995-0153,CR1995-0912,CR1997-0016,CR1998-0108,CR1999-0397	5091	EL28676	grant	20111021	20111021	20171020
EL7294	20001030	20060614	1110.536685	CR2001-0313,CR2002-0369,CR2003-0486,CR2004-0585,CR2004-0586,CR2005-0434,CR2006-0344	3557	EL28676	grant	20111021	20111021	20171020

EL7302	19910524	19960606	441.6815185	CR1992-0389,CR1993-0417,CR1994-0425,CR1994-0643,CR1995-0501,CR1995-0645,CR1996-0723	750	EL28676	grant	20111021	20111021	20171020
EL7576	19920102	19950816	128.6169215	CR1993-0205,CR1994-0139,CR1994-0248,CR1995-0181,CR1995-0365,CR1995-0810	866	EL28676	grant	20111021	20111021	20171020
AP2589	19700211	19720210	5429.177319	CR1971-0039,CR1971-0042,CR1972-0005,CR1972-0087	7320	EL28847	grant	20120220	20120220	20180219
AP983			27230.2406	CR1963-0004,CR1977-0020	6697	EL28847	grant	20120220	20120220	20180219
EL22297	20030805	20110804	1418.971089	CR2006-0532,CR2008-0622,CR2009-0762	8412	EL28847	grant	20120220	20120220	20180219
EL22732	20020926	20080905	638.2123662	CR2003-0411,CR2004-0516,CR2005-0376,CR2005-0536,CR2006-0478,CR2006-0528,CR2007-0466,CR2007-0594,CR2008-0714	4080	EL28847	grant	20120220	20120220	20180219
EL23496	20030704	20050906	323.2036135	CR2004-0359,CR2005-0239,CR2005-0390	4099	EL28847	grant	20120220	20120220	20180219
EL24402	20050603	20090609	1434.633808	None Recorded	4696	EL28847	grant	20120220	20120220	20180219
EL24665	20060428	20120827	1213.107261	CR2008-0517,CR2010-0382,CR2011-0382	8493	EL28847	grant	20120220	20120220	20180219
EL24997	20060815	20090609	323.1975311	None Recorded	4381	EL28847	grant	20120220	20120220	20180219
EL25859	20070920	20120228	920.5017348	CR2011-0016,CR2011-0977	8535	EL28847	grant	20120220	20120220	20180219
EL25905	20080221	20090127	583.4644874	CR2009-0132	31	EL28847	grant	20120220	20120220	20180219
EL28072	20111004	20130228	342.9787073	None Recorded	8668	EL28847	grant	20120220	20120220	20180219
EL28447	20110810	20120731	316.3365662	CR2012-0644	8199	EL28847	grant	20120220	20120220	20180219
EL28768	20120209	20120926	778.7186625	CR2012-1196	7905	EL28847	grant	20120220	20120220	20180219
EL345	19720613	19730612	668.6179753	CR1972-0087	6287	EL28847	grant	20120220	20120220	20180219
EL3495	19820419	19840418	794.1454684	CR1983-0198,CR1984-0031	6198	EL28847	grant	20120220	20120220	20180219
EL3499	19820419	19840418	1139.923864	CR1983-0198,CR1984-0031	6194	EL28847	grant	20120220	20120220	20180219
EL4547	19840620	19900619	1636.454439	CR1985-0184	6080	EL28847	grant	20120220	20120220	20180219
EL4551	19840620	19900619	1628.194139	CR1985-0182	6075	EL28847	grant	20120220	20120220	20180219
EL7262	19910524	19960606	1470.878534	CR1992-0388,CR1993-0632,CR1993-0633,CR1993-0634,CR1994-0607,CR1994-0608,CR1995-0664,CR1996-0596,CR1996-0684	724	EL28847	grant	20120220	20120220	20180219

EL7263	19910524	19960524	1638.024145	CR1992-0388,CR1993-0632,CR1993-0633,CR1993-0634,CR1994-0607,CR1994-0608,CR1995-0507,CR1995-0664,CR1996-0596,CR1996-0621	725	EL28847	grant	20120220	20120220	20180219
EL7264	19910524	19960524	1087.674511	CR1992-0388,CR1993-0632,CR1993-0633,CR1993-0634,CR1994-0607,CR1994-0608,CR1995-0507,CR1995-0664,CR1996-0596,CR1996-0620	726	EL28847	grant	20120220	20120220	20180219
EL7301	19910524	19960524	1597.346762	CR1992-0388,CR1993-0482,CR1993-0606,CR1994-0434,CR1994-0594,CR1995-0442,CR1995-0623,CR1996-0624	749	EL28847	grant	20120220	20120220	20180219
EL7827	19921027	19951101	812.304826	CR1993-0482,CR1994-0434,CR1995-0093,CR1995-0442,CR1996-0015	910	EL28847	grant	20120220	20120220	20180219
EL8708	19950109	19990324	307.5419091	CR1996-0005,CR1997-0051,CR1997-0310,CR1998-0187,CR1998-0435,CR1999-0267	1571	EL28847	grant	20120220	20120220	20180219
EL8975	19950221	19960125	208.255865	CR1996-0242	1712	EL28847	grant	20120220	20120220	20180219
AP2589	19700211	19720210	5429.177319	CR1971-0039,CR1971-0042,CR1972-0005,CR1972-0087	7320	EL28848	grant	20120213	20120213	20180212
AP2820	19701203	19710602	10926.09136	CR1971-0058	7217	EL28848	grant	20120213	20120213	20180212
AP983			27230.2406	CR1963-0004,CR1977-0020	6697	EL28848	grant	20120213	20120213	20180212
EL1069	19760504	19770503	1070.760573	CR1977-0062	6610	EL28848	grant	20120213	20120213	20180212
EL24665	20060428	20120827	1213.107261	CR2008-0517,CR2010-0382,CR2011-0382	8493	EL28848	grant	20120213	20120213	20180212
EL7260	19910606	19960524	991.4886697	CR1992-0396,CR1993-0632,CR1993-0633,CR1993-0634,CR1994-0607,CR1994-0608,CR1995-0507,CR1995-0664,CR1996-0622	722	EL28848	grant	20120213	20120213	20180212

EL7261	19910524	19981222	1557.729119	CR1992-0388,CR1993-0632,CR1993-0633,CR1993-0634,CR1994-0607,CR1994-0608,CR1995-0507,CR1995-0664,CR1996-0489,CR1996-0596,CR1996-0653,CR1998-0219,CR1998-0453,CR1999-0122	723	EL28848	grant	20120213	20120213	20180212
EL7262	19910524	19960606	1470.878534	CR1992-0388,CR1993-0632,CR1993-0633,CR1993-0634,CR1994-0607,CR1994-0608,CR1995-0664,CR1996-0596,CR1996-0684	724	EL28848	grant	20120213	20120213	20180212
AP1973			220.579951	CR1969-0039	6701	EL28894	28894	20120220	20180219	
EL1425	19771028	19781027	1282.062692	CR1978-0011	7199	EL28894	28894	20120220	20180219	
EL2072	19790613	19830324	1290.233569	CR1980-0171,CR1981-0230,CR1982-0284,CR1983-0123,CR1984-0118,CR1986-0015	7261	EL28894	28894	20120220	20180219	
EL23906	20040209	20060119	1529.44363	CR2005-0044,CR2006-0113	3549	EL28894	28894	20120220	20180219	
EL25070	20060815	20090609	1496.904192	None Recorded	4783	EL28894	28894	20120220	20180219	
EL25215	20070111	20071024	1521.798149	CR2007-0613	4952	EL28894	28894	20120220	20180219	
EL28319	20110503	20130718	981.6131764	CR2013-0614	8814	EL28894	28894	20120220	20180219	
EL4678	19841025	19901024	820.3587594	CR1986-0009,CR1987-0028	5750	EL28894	28894	20120220	20180219	
EL6764	19900705	19960524	743.9059928	CR1991-0440,CR1992-0495,CR1993-0476,CR1993-0574,CR1994-0572,CR1995-0577,CR1995-0679,CR1996-0650	199	EL28894	28894	20120220	20180219	
EL7891	19921116	19970227	366.9996109	CR1994-0011,CR1994-0894,CR1995-0158,CR1996-0037,CR1996-0139,CR1997-0014,CR1997-0375	1081	EL28894	28894	20120220	20180219	
EL8048	19930924	19941019	264.7781106	CR1994-0817	1154	EL28894	28894	20120220	20180219	
EL8402	19940225	19940714	155.4342064	CR1994-0755	1427	EL28894	28894	20120220	20180219	
EL9545	19961107	19971024	1270.519796	None Recorded	2603	EL28894	28894	20120220	20180219	
AP2820	19701203	19710602	10926.09136	CR1971-0058	7217	EL28895	28895	20120220	20180219	
EL22295	20030205	20081124	1562.821103	CR2005-0526,CR2008-0961	3405	EL28895	28895	20120220	20180219	
EL26072	20080402	20110926	769.6251775	CR2009-0363,CR2010-0391,CR2011-0932	8417	EL28895	28895	20120220	20180219	
EL28062	20110721	20130212	1645.815681	None Recorded	8654	EL28895	28895	20120220	20180219	
EL3362	19820112	19830111	1290.600057	CR1983-0060	6370	EL28895	28895	20120220	20180219	

EL4477	19840601	19900531	1590.51946	CR1985-0149	6262	EL28895	28895	20120220	20180219	
EL4478	19840601	19900531	1590.519449	CR1985-0174,CR1986-0212,CR1987-0036	6261	EL28895	28895	20120220	20180219	
EL4545	19840620	19900619	1487.505145	CR1985-0192,CR1986-0167	6082	EL28895	28895	20120220	20180219	
EL4546	19840620	19900619	1487.505185	CR1985-0179	6081	EL28895	28895	20120220	20180219	
EL4866	19860210	19920209	1487.505185	CR1986-0212,CR1987-0128,CR1988-0127	5324	EL28895	28895	20120220	20180219	
EL6296	19881201	19921028	1657.174761	CR1990-0060,CR1991-0213,CR1991-0329,CR1992-0178,CR1992-0179,CR1993-0252	4428	EL28895	28895	20120220	20180219	
EL6300	19881201	19910218	1653.59013	CR1990-0060,CR1991-0213,CR1991-0329	4426	EL28895	28895	20120220	20180219	
EL7190	19910213	19960124	1225.029864	CR1992-0161,CR1993-0196,CR1993-0290,CR1994-0306,CR1994-0440,CR1995-0226,CR1995-0371,CR1996-0348	597	EL28895	28895	20120220	20180219	
AP2820	19701203	19710602	10926.09136	CR1971-0058	7217	EL28897	grant	20120220	20120220	20180219
EL22295	20030205	20081124	1562.821103	CR2005-0526,CR2008-0961	3405	EL28897	grant	20120220	20120220	20180219
EL26072	20080402	20110926	769.6251775	CR2009-0363,CR2010-0391,CR2011-0932	8417	EL28897	grant	20120220	20120220	20180219
EL28062	20110721	20130212	1645.815681	None Recorded	8654	EL28897	grant	20120220	20120220	20180219
EL3357	19820112	19830111	1288.754304	CR1983-0057	6439	EL28897	grant	20120220	20120220	20180219
EL3362	19820112	19830111	1290.600057	CR1983-0060	6370	EL28897	grant	20120220	20120220	20180219
EL4545	19840620	19900619	1487.505145	CR1985-0192,CR1986-0167	6082	EL28897	grant	20120220	20120220	20180219
EL4546	19840620	19900619	1487.505185	CR1985-0179	6081	EL28897	grant	20120220	20120220	20180219
EL4866	19860210	19920209	1487.505185	CR1986-0212,CR1987-0128,CR1988-0127	5324	EL28897	grant	20120220	20120220	20180219
EL6284	19920506	19950830	1652.299735	CR1993-0390,CR1994-0359,CR1994-0732,CR1995-0569	265	EL28897	grant	20120220	20120220	20180219
EL6300	19881201	19910218	1653.59013	CR1990-0060,CR1991-0213,CR1991-0329	4426	EL28897	grant	20120220	20120220	20180219
EL6301	19881201	19910218	1275.601614	CR1990-0060,CR1991-0213,CR1991-0329	4425	EL28897	grant	20120220	20120220	20180219
EL7190	19910213	19960124	1225.029864	CR1992-0161,CR1993-0196,CR1993-0290,CR1994-0306,CR1994-0440,CR1995-0226,CR1995-0371,CR1996-0348	597	EL28897	grant	20120220	20120220	20180219
EL8273	19931124	19951101	1546.317314	CR1995-0013,CR1996-0014	1359	EL28897	grant	20120220	20120220	20180219
AP1729	19670412	19690411	1211.280436	CR1968-0007	7736	EL28898	grant	20120220	20120220	20180219

AP2228			1190.560568	CR1969-0003,CR1971-0091	7624	EL28898	grant	20120220	20120220	20180219
AP2589	19700211	19720210	5429.177319	CR1971-0039,CR1971-0042,CR1972-0005,CR1972-0087	7320	EL28898	grant	20120220	20120220	20180219
EL1422	19771107	19791106	837.3260058	CR1980-0024,CR1981-0029	7202	EL28898	grant	20120220	20120220	20180219
EL24665	20060428	20120827	1213.107261	CR2008-0517,CR2010-0382,CR2011-0382	8493	EL28898	grant	20120220	20120220	20180219
EL28447	20110810	20120731	316.3365662	CR2012-0644	8199	EL28898	grant	20120220	20120220	20180219
EL3497	19820419	19840418	635.4410061	CR1983-0198,CR1984-0031	6196	EL28898	grant	20120220	20120220	20180219
EL3499	19820419	19840418	1139.923864	CR1983-0198,CR1984-0031	6194	EL28898	grant	20120220	20120220	20180219
EL4547	19840620	19900619	1636.454439	CR1985-0184	6080	EL28898	grant	20120220	20120220	20180219
EL7263	19910524	19960524	1638.024145	CR1992-0388,CR1993-0632,CR1993-0633,CR1993-0634,CR1994-0607,CR1994-0608,CR1995-0507,CR1995-0664,CR1996-0596,CR1996-0621	725	EL28898	grant	20120220	20120220	20180219
EL7264	19910524	19960524	1087.674511	CR1992-0388,CR1993-0632,CR1993-0633,CR1993-0634,CR1994-0607,CR1994-0608,CR1995-0507,CR1995-0664,CR1996-0596,CR1996-0620	726	EL28898	grant	20120220	20120220	20180219
EL891	19730408	19740407	992.8701422	CR1974-0075	4347	EL28898	grant	20120220	20120220	20180219
EL8975	19950221	19960125	208.255865	CR1996-0242	1712	EL28898	grant	20120220	20120220	20180219