

Arizona

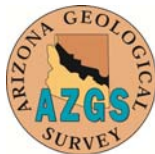
Oil and Gas Well Location

Map and Report

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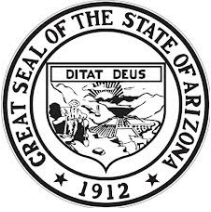
Steven L. Rauzi
Oil & Gas Program Administrator

October 17, 2012



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Arizona Geological Survey

M. Lee Allison, State Geologist and Director

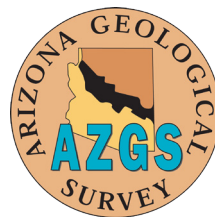
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INTRODUCTION

This publication includes a booklet of data from all recorded oil, gas, helium, and geothermal wells and from other deep wells. Two maps accompany the booklet. One is a map of the entire State that shows the locations of wells tabulated in the booklet and of crude oil, gas, and product pipelines in Arizona. Areas in which wells are closely spaced are detailed on the second map.

INFORMATION PROVIDED

This list of 1,247 wells was printed from a database maintained by the Oil and Gas Administrator at the Arizona Geological Survey. The list includes wells permitted by the Oil and Gas Conservation Commission since its inception in 1959, wells permitted by the State Land Department before 1959, and other wells for which information was obtained from various sources.

The map is useful if you know the general geographic area in which a well is located but not its section, township, or range. Once you have identified the section, township, and range on the map; search for the corresponding values in the booklet. The information in the booklet is only a portion of that which is available in the files of the Oil and Gas Program of the Arizona Geological Survey. These files include information on every well listed, such as drilling records, electric logs, mud logs, and sample descriptions. All the files are public records and may be reviewed and copied in the Survey's office.

The column titled "SAMP" contains an index number that identifies the box or boxes of samples or core chips on file. Responsible parties may review these samples after making suitable arrangements with the Oil and Gas Administrator.

The Survey sells other oil and gas maps and reports, a list of which is available free upon request.

ARRANGEMENT

In a departure from previous lists, wells are listed by township and range in ascending order. The wells are sorted into five geographic areas: one each for northeast, northwest, southeast, and southwest of the Gila and Salt River Baseline and Meridian and one for the Navajo Meridian. The list is no longer organized by county.

The columns in the list are as follows:

PERMT

The Oil and Gas Conservation Commission drilling-permit number or a number that the Commission assigned to wells that were drilled before it established permit requirements in 1959. Well files are sorted numerically by this permit number.

TWP, RGE, SE

The township, range, and section in which the well is located

LOCAT

The location of the well within a section, by quarter section or quarter-quarter section (160- or 40-acre tract)

OPERATOR

The operator of the well; if the well has had more than one operator, the original operator is listed in parentheses.

LEASE & NO.

The well number assigned by the operator and, usually, the name of the owner of the mineral rights. In a few cases another name is listed, such as the name of the surface occupant.

DATE

The date is the year and month (if known) when the original operator abandoned the well or completed it as a producer. Dates of recompletion and reentry are not listed. For some non-permitted wells, especially older wells, the date is estimated.

ST

The latest status of the well, as defined below

- S - Stratigraphic test
- D - Dry hole
- JA - Test hole, junked and abandoned
- TA - Test well, temporarily abandoned
- SA - Salt-mining well, plugged and abandoned
- PW - Salt-water disposal well, plugged and abandoned
- WW - Test well, converted to water well

- O - Oil well, producing
- OS - Oil well, shut in
- OA - Oil well, temporarily abandoned
- OP - Oil well, plugged and abandoned
- OW - Oil well, converted to salt-water disposal well

- G - Gas well, producing
- GS - Gas well, shut in
- GP - Gas well, plugged and abandoned

- SL - Storage well, LPG
- SP - Storage well, plugged and abandoned

- H -- Helium well, producing
- HS - Helium well, shut in, no production record
- HP - Helium well, plugged and abandoned, production record
- HN - Helium well, completed, plugged and abandoned, no production record

- T - Geothermal well, producing
- TT - Geothermal well, temporarily abandoned
- TD - Geothermal well, dry, plugged and abandoned
- TP - Geothermal gradient well, plugged and abandoned

SAMP

The number of the box or boxes in which samples of the well are stored in the Commission's well files. An index of samples is available as an Open File Report.

ELEV

The elevation of the well, in feet. GL is ground level, DF is elevation of the derrick floor, and KB is elevation of the Kelly Bushing. Most elevations are those reported by the operator in the survey plat submitted with the Application for Drilling Permit. The elevations of many non-permitted wells were estimated from topographic maps of various scales and contour intervals.

TD

The total depth of the well, in feet, as reported by the operator or as shown by mechanical logs. The total depths for some non-permitted wells were estimated from the best available information but may not be correct.

FORMATION AT TD

The best available information on the rock unit at the bottom of the well. The information was derived from operator reports, picks by the American Stratigraphic Company, interpretations made by H. Wesley Peirce when he worked for the Arizona Bureau of Mines, and interpretations by Commission and Survey staff members.

ACKNOWLEDGMENT

The Oil and Gas Administrator thanks the American Stratigraphic Company for extending permission to use its excellent logs as a major source of bottom-hole stratigraphic information.

NORTHEAST

PERMT	TWP	RGE	SE	LOC	OPERATOR	LEASE & NO.	DATE	ST	SAMP	ELEV	TD	FORMATION AT TD
7-01	01N	03E	02	SE SE	Peoples Gas & Oil	1 Gardiner	1945/06	D	N/A	1118 GL	3500	Tertiary alluvium
7-02	01N	03E	13	NW SE	U. S. Bur. Reclam.	A1-3 CAP	1964/10	S	N/A	1115 GL	757	Tertiary alluvium
7-03	01N	04E	05	NW SW	American Union Pet	N/A	1931/	D	N/A	1175 GL	600	Tertiary alluvium
7-04	02N	04E	30	SE SW	Newcom, L.P.	1 Langley	1938/	D	1651	1190 GL	920	Tertiary alluvium
7-05	02N	04E	30	NE NW	Tutweiler, L.D.	1 Camelback	1907/06	D	N/A	1215 GL	2818	Tertiary alluvium
7-06	03N	01E	32	SE NE	U. S. Bur. Reclam.	A3-1 CAP	1965/05	S	N/A	1096 GL	2000	Tertiary alluvium
7-07	03N	04E	02	NE NW	Glenn Oil	1 State	1948/10	D	N/A	1523 GL	4159	Precambrian schist?
7-08	04N	04E	08	SE SW	Biery, Paul H.	1 State	1951/04	D	1788	1704 GL	5396	Recent/Pleistocene
7-09	04N	04E	08	SW SW	Glenn Oil	2 State	1950/04	D	N/A	1700 GL	4542	Quaternary
7-10	04N	04E	13	NW SW	Campbell, Bert	1 Pierce	1950/08	D	N/A	1854 GL	1585	Quaternary
838	04N	12E	04	SE NW	Sanchez-O'Brien	1-4 Federal	1983/04	D	1849	2190 GL	3491	Precambrian granite
516	04N	13E	05	SE NW	Kerber, E.A.	1 Federal	1970/03	D	N/A	2669 GL	480	Precambrian Dripping Sprg
14	05N	03E	14	NE NW	Landrum&Gabrielson	14-1 State	1953/02	D	1790	1795 GL	1136	N/A
16	05N	04E	07	SW NE	Landrum&Gabrielson	1 Salyer	1953/03	D	1790	1918 GL	1040	Tertiary valley fill
585	05N	17E	31	NW NE	Astro-Tex Oil	1 Federal	1972/11	D	1715	4967 GL	2105	Precambrian Dripping Sprg
827	05N	30E	22	SE SE	Phillips Petroleum	A-10 Federal	1982/11	TP	N/A	8730 GL	505	Tertiary Datil ?
826	05N	31E	05	NW SE	Phillips Petroleum	A-09 Federal	1982/11	TP	N/A	8310 GL	345	Tertiary basalt
828	05N	31E	34	SW SW	Phillips Petroleum	A-11 Federal	1982/11	TP	N/A	7715 GL	480	Tertiary basalt
825	06N	29E	36	SE NE	Phillips Petroleum	A-08 Federal	1982/11	TP	N/A	8890 GL	425	Tertiary basalt
878	06N	30E	23	NW SW	Tonto Drilling Srv	1 Alpine-Fed	1993/08	TD	1875	8556 GL	4505	Permian Supai (Tert. ig)
824	06N	31E	04	NE NE	Phillips Petroleum	A-07 Federal	1982/11	TP	N/A	8855 GL	340	Tertiary basalt
823	07N	27E	15	SE NE	Phillips Petroleum	A-06 Federal	1982/11	TP	N/A	9082 GL	325	Tertiary basalt
818	08N	27E	15	SE SW	Phillips Petroleum	A-01 Federal	1982/11	TP	N/A	8393 GL	335	Tertiary basalt
199-1	08N	28E	06	NW NE	Cities Service	04 State	1962/06	S	N/A	7674 GL	976	Cretaceous
199-2	08N	28E	15	SW NW	Cities Service	202 Hall	1962/07	S	N/A	7324 GL	1186	Cretaceous Dakota
819	08N	28E	27	SE NW	Phillips Petroleum	A-02 Federal	1982/11	TP	N/A	8370 GL	90	Tertiary basalt
820	08N	29E	21	NE NE	Phillips Petroleum	A-03 Federal	1982/11	TP	N/A	7422 GL	480	Tertiary Datil ?
821	08N	30E	35	SW NW	Phillips Petroleum	A-04 Federal	1982/11	TP	N/A	7833 GL	505	Tertiary Datil ?
822	08N	31E	15	NE SW	Phillips Petroleum	A-05 Federal	1982/11	TP	N/A	7394 GL	501	Tertiary Datil ?
802	09N	22E	35	SE NE	Sponseller, Gail W	1 Sponseller	1982/08	D	N/A	6735 GL	2132	Permian Supai
197	09N	27E	22	SW SW	Cities Service	201 J. Colter	1962/07	S	N/A	712 GL	1353	Cretaceous
1-01	09N	27E	26	SE SE	Cities Service	203 State	1962/08	S	N/A	7681 GL	1193	Cretaceous
198-2	09N	27E	34	NW NW	Cities Service	13 State	1962/08	S	N/A	7671 GL	1230	Cretaceous Dakota
201-2	09N	27E	35	SW SW	Cities Service	10 State	1962/08	S	N/A	7800 GL	428	Cretaceous basalt
898	09N	29E	22	SW SE	Ridgeway Arizona	09-22-29 State	1997/04	D	1885	7178 GL	3180	Precambrian granite
962	09N	31E	05	NW SE	Ridgeway Arizona	09-05-31 State	2008/04	TA	N/A	7382 GL	122	Tertiary
963	09N	31E	05	NW SE	Ridgeway Arizona	09-05-31x State	2008/05	TA	N/A	7382 GL	2969	Precambrian granite
66	09N	31E	20	SE NW	Belcher, Mae	1 State	1959/06	D	1664	7274 DF	2921	Precambrian granite
897	09N	31E	21	SW NE	Ridgeway Arizona	09-21 State	1997/03	TA	1884	7198 GL	2686	Precambrian schist
369	10N	19E	15	NW NW	Tenneco Oil	1 Federal	1967/01	D	1390	6992 KB	1840	Permian Supai
368	10N	21E	31	NE SE	Tenneco Oil	1X Fort Apache	1966/11	D	1391	6638 KB	4059	Precambrian granite
370	10N	24E	04	SW NE	Tenneco Oil	1 Federal-B	1967/01	D	N/A	6865 KB	4657	Precambrian schist
200-1	10N	25E	02	SW SE	Cities Service	204 State	1962/07	S	N/A	6689 GL	287	Tertiary Eagar (?)
200-2	10N	25E	02	SW NW	Cities Service	204A State	1962/07	S	N/A	6744 GL	637	Permian Glorieta (?)
861	10N	28E	36	SE SE	Salt Grass	A-1 State	1986/10	D	1861	6706 GL	1072	Permian Supai
903	10N	29E	26	NW SW	Ridgeway Arizona	10-26-29 State	1997/05	D	1887	6932 GL	3200	Precambrian granite
950	10N	30E	02	SW NE	Ridgeway Arizona	10-02-30 State	2008/02	TA	N/A	7069 GL	2650	Permian Supai
953	10N	30E	02	SW NE	Ridgeway Arizona	10-02-30x State	2008/02	TA	N/A	7069 GL	1899	Permian Supai
964	10N	30E	05	NW NW	Ridgeway Arizona	10-05-30 State	2008/03	TA	N/A	6981 GL	2600	Permian Supai
896	10N	30E	22	SW SW	Ridgeway Arizona	10-22 State	1997/03	GS	1886	6978 GL	2265	Precambrian granite
371	10N	30E	26	SW SW	Tenneco Oil	1 Merrill	1967/02	D	N/A	7033 KB	1577	Permian Supai
187	10N	30E	27	SW NE	Eastern Petroleum	1 Coyote Creek	1962/06	JA	N/A	6975 GL	476	Permian Coconino
207	10N	30E	27	SW NE	Eastern Petroleum	1A Coyote Creek	1962/09	D	N/A	6975 GL	2351	Precambrian granite
899	10N	31E	16	NE SW	Ridgeway Arizona	10-16-31 State	1997/05	D	1888	7246 GL	2728	Precambrian granite

NORTHEAST

PERMT	TWP	RGE	SE	LOC	OPERATOR	LEASE & NO.	DATE	ST	SAMP	ELEV	TD	FORMATION AT TD
959	10N	31E	29	SW NE	Ridgeway Arizona	10-29-31 State	2008/03	TA	1923	7310 GL	2869	Precambrian granite
835	11N	22E	29	SW SW	Resource Operating	1 Federal	1983/03	D	1853	6300 GL	4155	Precambrian granite
375	11N	28E	22	SE NW	Tenneco Oil	1 Federal-C	1967/02	D	1383	6064 KB	1687	Permian Supai
884	11N	29E	03	NE SE	Ridgeway Arizona	03-01 State	1995/09	D	1880	6726 GL	1813	Permian Supai
979	11N	29E	03	NE SE	Ridgeway Arizona	11-03-29x State	2010/11	TA	1926	6726 GL	1670	Permian Supai
945	11N	29E	24	SW NE	Ridgeway Arizona	11-24-29 State	2007/02	TA	1913	6778 GL	1906	Permian Supai
970	11N	29E	24	SW NE	Ridgeway Arizona	11-24-29x State	2008/04	TA	N/A	6778 GL	2137	Permian Supai
990	11N	30E	06	NE SW	Ridgeway Arizona	11-06-30 State	2010/11	TA	1929	6800 GL	1788	Permian Supai
937	11N	30E	16	NW SE	Ridgeway Arizona	11-16-30 State	2007/03	TA	1912	6889 GL	2377	Precambrian granite
916	11N	30E	18	C SW	Ridgeway Arizona	11-18 State	2004/05	TA	N/A	6842 GL	2535	Precambrian granite
895	11N	30E	21	NE SW	Ridgeway Arizona	11-21 State	1997/03	TA	1894	6918 GL	2410	Precambrian granite
966	11N	30E	23	NW NE	Ridgeway Arizona	11-23-30 State	2008/04	TA	N/A	6979 GL	2550	Precambrian granite
938	11N	30E	29	SE NW	Ridgeway Arizona	11-29-30 State	2007/02	TA	1911	6920 GL	1906	Permian Supai
946	11N	30E	32	C SE	Ridgeway Arizona	11-32-30 State	2007/03	TA	1914	6945 GL	1690	Permian Supai
939	11N	31E	06	NW SE	Ridgeway Arizona	11-06-31 State	2007/04	TA	1918	6912 GL	2711	Precambrian granite
940	11N	31E	07	NW SE	Ridgeway Arizona	11-07-31 State	2007/04	TA	1915	6948 GL	1885	Permian Supai
941	11N	31E	18	NW SE	Ridgeway Arizona	11-18-31 State	2007/04	TA	1917	6947 GL	2035	Permian Supai
942	11N	31E	20	SE NW	Ridgeway Arizona	11-20-31 State	2007/05	PA	1916	6993 GL	1934	Permian Supai
159	11N	31E	29	SE SE	Ram Oil	1 State	1963/02	D	N/A	7090 GL	830	Permian Coconino?
943	11N	31E	29	SE NW	Ridgeway Arizona	11-29-31 State	2007/05	TA	N/A	7034 GL	2850	Precambrian granite
955	11N	31E	29	SE NW	Ridgeway Arizona	11-29-31x State	2008/03	TA	N/A	7033 GL	1909	Permian Supai
944	11N	31E	32	NE SW	Ridgeway Arizona	11-32-31 State	2007/05	TA	1919	7144 GL	2900	Precambrian granite
3-12	12N	10E	01	NE SW	Phelps Dodge	20 USFS	1964/01	S	N/A	7346 GL	743	Permian Supai
374	12N	17E	18	SE SE	Tenneco Oil	1 Federal-A	1967/01	D	1387	6696 KB	1700	Permian Supai
76	12N	23E	25	SW NE	Pan American Pet.	1 NMAL-B	1959/06	D	375	6253 KB	4497	Precambrian metamorphic
836	12N	26E	17	NW NW	Sumatra Energy	1-17 Santa Fe	1983/03	D	1850	6410 GL	4143	Precambrian
934	12N	26E	17	NE NE	High Plains Petro	17-1 Santa Fe	2006/10			6359 GL	4032	Precambrian granite
902	12N	28E	16	NW NE	Ridgeway Arizona	12-16-28 State	1997/05	D	1891	5988 GL	2280	Permian Supai
855	12N	28E	28	NE NW	Combined Drilling	1-A State	1986/04	JA	N/A	6090 GL	160	Permian Kaibab
862	12N	28E	28	NE NW	Combined Drilling	1-B State	1987/02	D	1864	6096 KB	3296	Precambrian?
880	12N	29E	15	NE SW	Ridgeway/Canstar	1 Plateau Catl	1994/08	D	1877	6372 GL	2431	Precambrian granite
883	12N	29E	15	NE SW	Ridgeway Arizona	1A Plateau Catl	1994/11	D	N/A	6372 GL	220	Permian San Andres Ls
885	12N	29E	22	NW NW	Ridgeway Arizona	22-01 State	1995/08	JA	1881	6338 GL	218	Permian San Andres Ls
888	12N	29E	22	SE NW	Ridgeway Arizona	22-01X State	1997/02	TA	1893	6393 GL	2149	Precambrian granite
991	12N	29E	22	NE SE	Ridgeway Arizona	12-22-29 State	2010/11	TA	N/A	6566 GL	1690	Permian Supai
948	12N	29E	34	NW NE	Ridgeway Arizona	12-34-29 State	2008/02	JA	1920	6555 GL	1140	Permian Supai
954	12N	29E	34	NW NE	Ridgeway Arizona	12-34-29x State	2008/02	TA	N/A	6555 GL	3048	Precambrian granite
900	12N	30E	15	NE SW	Ridgeway Arizona	12-15-30 State	1997/05	TA	1889	6712 GL	2603	Precambrian granite
956	12N	30E	31	SE NW	Ridgeway Arizona	12-31-30 State	2008/03	TA	1921	6667 GL	4202	Permian Supai
957	12N	30E	31	SE NW	Ridgeway Arizona	12-31-30x State	2008/03	TA	1922	6675 GL	2622	Permian Supai
100	12N	31E	09	NE NW	Townsend Oil	1 Vaughn-Fed.	1959/12	D	N/A	6258 GL	585	Permian Coconino
947	12N	31E	32	NE SW	Ridgeway Arizona	12-32-31 State	2007/05	TA	N/A	6906 GL	85	Permian Supai
13-01	13N	05E	04	NE NW	Arizona Verde Oil	02	1913/	D	N/A	3175 GL	1225	Tertiary volcanic rock
13-02	13N	05E	10	SW NW	Arizona Verde Oil	01	1913/	D	N/A	3190 GL	1625	Tertiary volcanic rock
3-13	13N	10E	25	NE SW	Phelps Dodge	14 USFS	1967/03	S	N/A	7334 GL	726	Permian Coconino
3-14	13N	11E	05	SW NE	Phelps Dodge	01 USFS	N/A	S	N/A	7077 GL	448	Permian Coconino
3-15	13N	11E	05	SW SW	Phelps Dodge	03 USFS	N/A	S	N/A	7080 GL	450	Permian Coconino
3-16	13N	11E	07	NE NE	Phelps Dodge	04A USFS	N/A	S	N/A	7021 GL	391	Permian Coconino
654	13N	18E	08	NE SE	Morton Bros	8-1 Federal	1976/02	D	1749	6165 KB	3646	Precambrian granite wash
9-01	13N	20E	03	SE SE	Lynch, Phil D.	1 Aztec Land	1954/07	D	27	5960 GL	3140	Permian Supai
98	13N	25E	12	SE SE	Pan American Pet.	1 NMAL-A	1959/09	D	372	5888 KB	3680	Precambrian metamorphic
1-03	13N	27E	28	NW NE	Rincon Syndicate	1 State	1939/08	D	N/A	5970 GL	498	Permian Kaibab
901	13N	29E	36	SW NE	Ridgeway Arizona	13-36-29 State	1997/05	D	1890	6167 GL	2454	Precambrian granite
13-11	14N	04E	35	SW SW	J.R.B. Enterprises	1 Copper Canyon	1985/02	D	1862	3500 GL	1000	Tertiary Verde

NORTHEAST

PERMT	TWP	RGE	SE	LOC	OPERATOR	LEASE & NO.	DATE	ST	SAMP	ELEV	TD	FORMATION AT TD
464	14N	11E	10	NW SW	Eastern Petroleum	01 Federl-Moqui	1969/02	D	1469	6906 DF	3691	Devonian Martin
3-10	14N	12E	08	SE NE	U. S. Bur. Reclam.	01 MacksCrossing	1966/05	S	N/A	6270 GL	301	Permian Coconino
71	14N	14E	30	SW NE	Monsanto Chemical	1 Cabin Wsh-Fed	1959/09	D	364	6857 DF	3811	Precambrian granite
154	14N	18E	12	C NW	California Oil	1 State	1961/12	D	1656	5841 KB	1947	Permian Supai
175	14N	18E	12	NW	California Oil	1A State	1962/02	D	1656	5841 KB	2947	Pennsylvanian Naco
291	14N	19E	35	NE NE	Taubert & Steed	1 Babbitt Bros.	1965/01	D	1281	6040 KB	3822	Precambrian granite
9-02	14N	20E	04	SW SE	Adamana Oil & Land	1 Fee	1924/	D	N/A	5865 GL	3387	Pennsylvanian Naco?
659	14N	20E	08	SW NE	Webb Resources	008-1 NMAL	1976/05	D	1765	5937 KB	3608	Precambrian granite
660	14N	20E	29	NW SE	Webb Resources	029-1 Rkg Chair	1976/10	D	1768	5808 KB	3394	Precambrian granite
61	14N	20E	33	C NE	Johnson, Lydia	1 Aztec L&C	1959/08	D	1490	5998 DF	3746	Quartzite
97	14N	20E	33	SW NE	Johnson, Lydia	2 Aztec L&C	1961/02	D	N/A	6023 GL	1540	Permian Supai
126	14N	20E	33	NE SW	Johnson, Lydia	3 Aztec L&C	1960/09	D	N/A	6003 GL	610	Permian Supai
9-03	14N	20E	33	NE SE	Lockhart, L.M.	1 Aztec L&C	1949/06	D	37	6028 KB	3734	Precambrian granite
662	14N	21E	30	SW NW	Webb Resources	30-1 NMAL	1976/10	D	1767	5803 KB	3804	Precambrian granite
242	14N	22E	05	C NE	New Mex. & AZ Land	1 Fee	1963/05	S	N/A	5457 GL	1500	Permian Supai
658	14N	22E	06	NE SE	Webb Resources	006-1 NMAL	1976/10	D	1763	5514 KB	3631	Precambrian granite
9-04	14N	23E	12	SE NE	Arkla Exploration	05 NMAL	1965/01	S	N/A	5528 KB	1350	Permian Supai
894	14N	25E	15	SE NE	PetroSun E & P	15-1 NMAL	1999/11	D	1882	5552 GL	3648	Precambrian granite
924	14N	25E	17	NE NW	Holbrook Energy	17-1 NZOG	2005/02	TA	1904	5405 GL	2323	Permian Supai
1-04	14N	25E	18	NE NW	Arkla Exploration	03 NMAL	1964/12	S	N/A	5480 KB	2610	Permian Supai
1-05	14N	25E	28	SW SW	Arkla Exploration	04C NMAL	1965/01	S	N/A	5506 KB	2488	Permian Supai
1-06	14N	26E	14	SE NE	Franco Arizona	1 Government	1939/11	D	N/A	5672 GL	2595	Precambrian granite
475	15N	10E	21	SW NW	Willard Pease Drlg	1 Federal	1969/01	D	N/A	7126 KB	3610	Precambrian
3-11	15N	13E	30	NE	U. S. Bur. Reclam.	03 Wilkins	1969/08	S	N/A	5993 GL	110	Permian Coconino
9-40	15N	18E	14	SW NE	Winslow Oil	01	N/A	D	N/A	5920 GL	3000	N/A
9-05	15N	18E	19	NE NE	Union & Cont. Oil	1 Aztec L&C	1943/12	D	21	6127 KB	3850	Devonian Martin
9-06	15N	18E	23	NE NE	Holbrook Oil	01	1925/	D	N/A	5985 GL	3775	Devonian Martin?
9-07	15N	19E	21	NE NW	Hopi Oil	01	1927/	D	N/A	5985 GL	2420	Permian Supai
9-08	15N	19E	34	SW NE	Union & Cont. Oil	1 NMAL	1944/03	D	558	6049 KB	3609	Precambrian granite
343	15N	22E	03	NE NE	Arkla Exploration	55 NMAL	1966/02	S	1495	5223 KB	975	Permian Supai
1013	15N	22E	11	NW NE	HNZ Potash	04 SW HNZ	2011/03	S	N/A	5268 GL	917	Permian Supai
243	15N	22E	24	C N2	New Mex. & AZ Land	2 Fee	1963/06	S	N/A	5445 GL	1844	Permian Supai
1079	15N	22E	26	NW NW	HNZ Potash	18 SW HNZ	2011/10	S	N/A	5454 GL	885	Permian Supai
1031	15N	23E	05	SE NE	HNZ Potash	10 SW HNZ	2011/04	S	N/A	5252 GL	945	Permian Supai
323	15N	23E	10	SW NE	Arkla Exploration	07 State	1965/09	S	1352	5290 KB	1060	Permian Supai
1011	15N	23E	15	C	HNZ Potash	02 SW HNZ	2011/03	S	N/A	5319 GL	1700	Permian Supai
1012	15N	23E	17	NE SW	HNZ Potash	03 SW HNZ	2011/03	S	N/A	5326 GL	1089	Permian Supai
1080	15N	23E	19	NE SW	HNZ Potash	17 SW HNZ	2011/09	S	N/A	5369 GL	895	Permian Supai
1070	15N	24E	02	SE NW	HNZ Potash	19 HNZ	2011/09	S	N/A	5405 GL	1440	Permian Supai
1018	15N	24E	08	NW NE	HNZ Potash	09 SW HNZ	2011/06	S	N/A	5318 GL	1066	Permian Supai
1076	15N	24E	15	NW SE	HNZ Potash	14 SW HNZ	2011/09	S	N/A	5520 GL	1148	Permian Supai
1078	15N	24E	17	NW SW	HNZ Potash	16 SW HNZ	2011/09	S	N/A	5353 GL	1035	Permian Supai
1-07	15N	24E	23	NW SW	Arkla Exploration	02 NMAL	1964/12	S	N/A	5582 KB	2570	Permian Supai
1-08	15N	24E	29	NW SE	Arkla Exploration	42 NMAL	1965/02	S	N/A	5458 KB	1410	Permian Supai
655	15N	25E	30	NW SE	Webb Resources	030-1 NMAL	1976/02	D	N/A	5416 KB	4032	Precambrian granite
339	15N	26E	31	SW NW	Grimm, Jack F.	1 Platt	1966/01	D	N/A	5420 GL	1817	Permian Supai
1-09	15N	27E	18	SE SE	Duval	41 Federal	1964/06	S	1302	5731 DF	1514	Permian Supai
1-10	15N	28E	04	NE SE	Duval	40 Federal	1964/06	S	1301	5811 DF	1839	Permian Supai
49	15N	29E	21	NW SE	Harrison Producing	1 Townsend	1958/	D	N/A	5705 GL	750	Permian Supai ?
1-11	15N	29E	22	NE NE	Argo Oil	1 State	1944/03	D	54	5738 GL	2637	Precambrian quartzite
1-12	15N	29E	22	NW NE	Phillips Petroleum	P3 State	1964/09	S	N/A	5755 GL	1024	Permian Supai
904	15N	29E	28	NE NW	Ridgeway Arizona	15-28-29 State	1997/06	D	1892	5695 GL	2264	Precambrian granite ?
1-13	15N	30E	32	SE SE	Hinkson, C.A.	03	1946/	D	N/A	6090 GL	1300	Permian Coconino
96	16N	04E	20	NW NW	Cottonwood Oil	1 State	1959/10	D	599	3728 GL	1485	Tertiary volcanic

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202	16N	14E	29	NE SW	Allen, George(Mrs)	1 O'Haco	1962/08	S	N/A	6083 GL	490	Permian Coconino ?
20	16N	16E	01	SW SW	Eisele, J.A.	1 McCauley	1955/06	D	N/A	5558 KB	4260	Precambrian granite
9-09	16N	17E	20	NE NE	Black Canyon Oil	1 Fee	1925/	D	N/A	5675 GL	476	Permian Coconino
649	16N	18E	02	SE SE	Duval	56 State	1975/06	S	AZGS	5462 GL	1017	Permian Supai
86	16N	18E	09	SW NE	Pan American Pet.	1 Aztec L&C-B	1959/08	D	374	5691 KB	3936	Precambrian
643	16N	20E	02	NW NW	Duval	54 State	1975/05	S	AZGS	5411 GL	909	Permian Supai
85	16N	20E	05	SE NE	Pan American Pet.	1 Aztec L&C-A	1959/07	D	379	5442 KB	4003	Precambrian
644	16N	21E	34	SE NW	Duval	55 State	1975/05	S	AZGS	5447 GL	898	Permian Supai
1101	16N	22E	01	C	Southwest/Passport	01 FT	2012/09	S	N/A	5373 GL	1018	Permian Supai
9-10	16N	22E	12	SW NE	Arkla Exploration	46 NMAL	1965/08	S	N/A	5402 KB	1248	Permian Supai
1047	16N	22E	13	NE NW	HNZ Potash	12 SW HNZ	2011/05	S	N/A	5434 GL	1038	Permian Supai
9-11	16N	22E	14	SW NE	Arkla Exploration	26 NMAL	1965/06	S	N/A	5417 KB	1176	Permian Supai
329	16N	22E	16	SE NE	Arkla Exploration	64 State	1965/11	S	1374	5217 KB	3380	Devonian metamorphic?
1048	16N	22E	22	SW NE	HNZ Potash	13 SW HNZ	2011/05	S	N/A	5417 GL	799	Permian Supai
362	16N	22E	23	NE SE	Arkla Exploration	19 NMAL	1966/09	S	1796	5458 KB	945	Permian Supai
1016	16N	22E	23	NE SE	HNZ Potash	07 SW HNZ	2011/04	S	N/A	5441 GL	980	Permian Supai
9-12	16N	22E	25	SE NE	Arkla Exploration	37 NMAL	1965/06	S	N/A	5286 KB	1075	Permian Supai
328	16N	22E	27	NE SE	Arkla Exploration	77 NMAL	1965/10	S	1363	5260 KB	1000	Permian Supai
1014	16N	22E	33	SW SE	HNZ Potash	05 SW HNZ	2011/03	S	N/A	5255 GL	750	Permian Supai
1015	16N	22E	35	SE NW	HNZ Potash	06 SW HNZ	2011/04	S	N/A	5227 GL	786	Permian Supai
1103	16N	23E	04	C	Southwest/Passport	03 FT	2012/10	S	N/A	5514 GL	1238	Permian Supai
357	16N	23E	05	SW NW	Arkla Exploration	15 NMAL	1966/08	S	1510	5418 KB	1157	Permian Supai
9-13	16N	23E	06	SW NE	Arkla Exploration	83 State	1965/07	S	N/A	5407 KB	1320	Permian Supai
982	16N	23E	06	SW NE	Southwest/Passport	58 PP-2012	2012/07	S	N/A	5403 GL	1089	Permian Supai
9-14	16N	23E	07	SW NE	Arkla Exploration	88 NMAL	1965/07	S	N/A	5433 KB	1325	Permian Supai
1105	16N	23E	07	W 1/4	Southwest/Passport	05 FT	2012/06	S	N/A	5504 GL	1220	Permian Supai
9-15	16N	23E	09	SW NE	Arkla Exploration	17 NMAL	1965/05	S	N/A	5452 KB	1420	Permian Supai
1107	16N	23E	09	W 1/4	Southwest/Passport	07 FT	2012/10	S	N/A	5462 GL	1176	Permian Supai
342	16N	23E	13	NW NW	Arkla Exploration	16 NMAL	1966/02	S	1493	5423 KB	1430	Permian Supai
1019	16N	23E	14	NW SE	Southwest/Passport	01 PP-2011	2011/08	S	N/A	5364 GL	1250	Permian Supai
1115	16N	23E	14	C	Southwest/Passport	57 PP-2012	2012/07	S	N/A	5395 GL	1119	Permian Supai
1020	16N	23E	16	NW SE	Southwest/Passport	02 PP-2011	2011/06	S	N/A	5413 GL	1137	Permian Supai
358	16N	23E	18	SW NW	Arkla Exploration	25 State	1966/08	S	1501	5444 KB	1100	Permian Supai
983	16N	23E	18	SW NE	Southwest Exploration	2 HB-08	2009/07	S	N/A	5406 GL	1040	Permian Supai
9-16	16N	23E	18	SW NE	Arkla Exploration	32 State	1965/05	S	N/A	5401 KB	1255	Permian Supai
9-17	16N	23E	19	SE NW	Arkla Exploration	68 NMAL	1965/08	S	N/A	5361 KB	985	Permian Supai
1021	16N	23E	20	NE SW	Southwest/Passport	03 PP-2011	2011/06	S	N/A	5330 GL	1075	Permian Supai
1110	16N	23E	20	NE SW	Southwest/Passport	52 PP-2012	2012/08	S	N/A	5329 GL	938	Permian Supai
9-18	16N	23E	21	SW NE	Arkla Exploration	12 NMAL	1965/05	S	N/A	5376 KB	1295	Permian Supai
1022	16N	23E	22	NW SE	Southwest/Passport	04 PP-2011	2011/07	S	N/A	5328 GL	1175	Permian Supai
1023	16N	23E	24	NW SE	Southwest/Passport	05 PP-2011	2011/06	S	N/A	5388 GL	1257	Permian Supai
1112	16N	23E	24	NW SE	Southwest/Passport	54 PP-2012	2012/07	S	N/A	5390 GL	1178	Permian Supai
9-19	16N	23E	26	NE NE	Arkla Exploration	14 State	1965/03	S	N/A	5343 KB	1300	Permian Supai
984	16N	23E	26	NE NE	Southwest Exploration	3 HB-08	2009/07	S	N/A	5295 GL	1068	Permian Supai
359	16N	23E	27	SW SE	Arkla Exploration	10 NMAL	1966/10	S	1509	5312 KB	1009	Permian Supai
336	16N	23E	28	SW SE	Occidental Pet.	1 State	1965/12	S	1359	5326 KB	1035	Permian Supai
1024	16N	23E	28	NW SE	Southwest/Passport	06 PP-2011	2011/07	S	N/A	5312 GL	1200	Permian Supai
1111	16N	23E	28	NW SE	Southwest/Passport	53 PP-2012	2011/07	S	N/A	5335 GL	1048	Permian Supai
9-20	16N	23E	29	SW SW	Arkla Exploration	51 NMAL	1965/06	S	N/A	5385 KB	1260	Permian Supai
338	16N	23E	30	SE NW	Occidental Pet.	2 State	1965/12	S	1360	5315 KB	960	Permian Supai
1052	16N	23E	30	SE NW	Southwest/Passport	41 PP-2011	2011/09	S	N/A	5346 GL	1000	Permian Supai
1109	16N	23E	30	C	Southwest/Passport	51 PP-2012	2012/10	S	N/A	5346 GL	978	Permian Supai
1053	16N	23E	32	SW NE	Southwest/Passport	42 PP-2011	2011/06	S	N/A	5324 GL	1073	Permian Supai
363	16N	23E	34	SW SW	Arkla Exploration	31 State	1966/10	S	N/A	5282 KB	926	Permian Supai

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9-21	16N	23E	34	SW NE	Arkla Exploration	99 State	1965/07	S	N/A	5302 KB	942	Permian Supai
555	16N	23E	34	NW NE	Little, Revel W.	1 State	1971/11	D	1683	5315 GL	1006	Permian
985	16N	23E	34	SW NE	Southwest Exploration	4 HB-08	2009/06	S	N/A	5295 GL	999	Permian Supai
9-22	16N	23E	36	SW NE	Arkla Exploration	59 State	1965/08	S	N/A	5336 KB	1315	Permian Supai
986	16N	23E	36	SW NE	Southwest Exploration	5 HB-08	2009/07	S	N/A	5331 GL	1100	Permian Supai
1009	16N	24E	11	SE NE	HNZ Potash	11 HNZ	2011/07	S	N/A	5602 GL	1310	Permian Supai
1066	16N	24E	15	SW NE	HNZ Potash	15 HNZ	2011/08	S	N/A	5495 GL	1335	Permian Supai
1-14	16N	24E	19	NW NE	Arkla Exploration	01 NMAL	1964/11	S	N/A	5510 KB	2800	Permian Supai
1025	16N	24E	20	NW SE	Southwest/Passport	07 PP-2011	2011/06	S	N/A	5430 GL	1425	Permian Supai
1113	16N	24E	20	NW SE	Southwest/Passport	55 PP-2012	2012/07	S	N/A	5430 GL	1230	Permian Supai
1017	16N	24E	21	SW SW	HNZ Potash	08 SW HNZ	2011/05	S	N/A	5435 GL	1253	Permian Supai
1064	16N	24E	23	NE NW	HNZ Potash	13 HNZ	2011/07	S	N/A	5562 GL	1368	Permian Supai
1065	16N	24E	27	SW NW	HNZ Potash	14 HNZ	2011/08	S	N/A	5474 GL	1288	Permian Supai
1-15	16N	24E	30	SW NE	Arkla Exploration	56 State	1965/09	S	1477	5405 KB	1420	Permian Supai
1026	16N	24E	30	NW SE	Southwest/Passport	08 PP-2011	2011/06	S	N/A	5374 GL	1268	Permian Supai
324	16N	24E	32	SW NE	Arkla Exploration	01 State	1965/09	S	1350	5450 KB	1450	Permian Supai
1114	16N	24E	32	C	Southwest/Passport	56 PP-2012	2012/07	S	N/A	5454 GL	1197	Permian Supai
1-16	16N	24E	34	SW NW	U. S. Borax	1 Holbrook	1963/12	S	N/A	5365 GL	1813	Permian Supai
365	16N	25E	05	NE SW	Eastern Petroleum	01 NMAL	1967/01	D	N/A	5595 GL	683	Permian Coconino
1-17	16N	25E	06	NW NW	Arkla Exploration	27 NMAL	1965/02	S	N/A	5689 KB	1560	Permian Supai
1-17	16N	25E	06	NW NW	Arkla Exploration	27X NMAL	1965/02	S	N/A	5688 KB	781	Permian Coconino
1007	16N	25E	07	SW NE	HNZ Potash	08 HNZ	2011/06	S	N/A	5556 GL	1257	Permian Supai
373	16N	25E	09	C	Eastern Petroleum	03 NMAL	1966/12	D	N/A	5550 GL	614	Permian Coconino
1063	16N	25E	18	SE SW	HNZ Potash	12 HNZ	2011/07	S	N/A	5455 GL	1256	Permian Supai
1051	16N	25E	19	SE NW	HNZ Potash	10 HNZ	2011/06	S	N/A	5442 GL	1105	Permian Supai
1-18	16N	25E	27	SE NE	Arkla Exploration	18 NMAL	1965/04	S	N/A	5785 KB	1747	Permian Supai
1-19	16N	26E	02	NW NE	Duval	04 State	1963/11	S	1337	5758 KB	1641	Permian Supai
1-20	16N	26E	20	NE NE	Phillips Petroleum	P2 Federal	1964/04	S	N/A	5660 GL	1449	Permian Supai
1-21	16N	29E	34	NE NE	Duval	07 Federal	1964/01	S	1334	5868 GL	1802	Permian Supai
285	17N	04E	03	NE NE	Harless, R.F.	36C Federal	1965/01	D	N/A	4480 GL	340	N/A
485	17N	04E	03	NE NE	Riddle, H.K	3 Federal-A	1969/03	D	N/A	4480 GL	1242	Cambrian?
169	17N	04E	04	SW NW	Harless, R.F.	01 Federal	1964/	D	1269	4415 DF	1762	Precambrian granite
267	17N	04E	04	NW NW	Harless, R.F.	27 Federal	1964/04	D	N/A	4425 GL	1294	N/A
278	17N	04E	04	NW NW	Harless, R.F.	27B Federal	1964/09	D	N/A	4412 DF	1958	Precambrian granite
293	17N	04E	05	NE SW	Yucca Petroleum	1 Crary	1964/10	D	1289	4370 KB	1663	Precambrian granite
493	17N	05E	08	W2 NW	Hopkins, A.A. Jr.	1 Coconino Ctle	1969/05	S	1474	4400 GL	1195	Precambrian granite
551	17N	05E	16	SE SW	Cathedral	1 Federal	1971/05	D	1666	4430 GL	1015	Precambrian
492	17N	05E	34	SW NW	Hopkins, A.A. Jr.	1 Frye Strat	1969/04	S	1607	3900 GL	1405	Precambrian granite
498	17N	06E	06	SE SE	Hopkins, A.A. Jr.	1 Jordan Strat	1969/05	S	1608	4408 KB	1254	Precambrian granite
486	17N	06E	08	SE NW	Hopkins, A.A. Jr.	1 Stevenson	1969/02	D	N/A	4260 GL	215	Permian Supai
667	17N	09E	11	SE NW	Wichita Industries	1-11 Federal	1976/09	D	1770	7652 KB	4188	Devonian Martin
9-23	17N	20E	16	SW SW	Great Basin Oil	1 Fuller	1927/	D	N/A	5243 GL	4675	Precambrian granite
9-24	17N	20E	26	SW SE	U. S. Bur. Reclam.	26 Holbrook	1969/12	S	N/A	5360 GL	800	Permian Supai
530	17N	21E	06	NE SE	Aritex Development	1 Fee Strat	1970/03	S	1609	5078 GL	1100	Permian Supai
532	17N	21E	06	SE NE	Aritex Development	2 Fee Strat	1970/03	S	1621	5077 GL	1140	Permian Supai
331	17N	22E	21	NW SW	Arkla Exploration	33 NMAL	1966/02	S	1496	5366 KB	1142	Permian Supai
220	17N	22E	22	SW NE	Frankln,Aston,Fair	B1 NMAL	1962/12	D	N/A	5460 GL	390	Permian Coconino
334	17N	22E	24	NW SW	Arkla Exploration	07 NMAL	1965/11	S	1508	5398 KB	1275	Permian Supai
244	17N	22E	28	C SE	New Mex. & AZ Land	3 Fee	1963/07	S	N/A	5345 GL	1418	Permian Supai
326	17N	22E	36	NW SW	Arkla Exploration	03 State	1965/10	S	1364	5324 KB	1170	Permian Supai
217	17N	23E	01	SW NE	Frankln,Aston,Fair	A1 NMAL	1962/11	D	N/A	5742 KB	1285	Permian Supai
1029	17N	23E	01	NW SE	Southwest/Passport	11 TBR-2011	2011/04	S	N/A	5748 GL	1530	Permian Supai
1071	17N	23E	03	NW SE	Southwest/Passport	15 TBR	2011/09	S	N/A	5658 GL	1600	Permian Supai
337	17N	23E	05	SE SW	Arkla Exploration	06 NMAL	1966/01	S	1507	5611 KB	1635	Permian Supai

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1072	17N	23E	05	NW SE	Southwest/Passport	16 TBR	2012/03	S	N/A	5530 GL	1400	Permian Supai
1098	17N	23E	07	SE SE	Southwest/Passport	21 TBR	2012/09	S	N/A	5551 GL	1349	Permian Supai
9-25	17N	23E	08	SW SW	Arkla Exploration	38 NMAL	1965/03	S	N/A	5552 GL	1600	Permian Supai
361	17N	23E	08	SW SE	Arkla Exploration	44 NMAL	1966/09	S	1604	5551 KB	1331	Permian Supai
1027	17N	23E	09	NW SE	Southwest/Passport	09 TBR-2011	2011/04	S	N/A	5561 GL	1434	Permian Supai
1028	17N	23E	11	NW SE	Southwest/Passport	10 TBR-2011	2011/04	S	N/A	5641 GL	1340	Permian Supai
993	17N	23E	13	NE SW	Southwest/Passport	02 TBR-2010	2011/04	S	N/A	5643 GL	1325	Permian Supai
994	17N	23E	14	C	Southwest/Passport	03 TBR-2010	2012/05	S	N/A	5566 GL	1478	Permian Supai
1073	17N	23E	15	NW SE	Southwest/Passport	17 TBR	2012/02	S	N/A	5546 GL	1367	Permian Supai
1074	17N	23E	17	NW SE	Southwest/Passport	18 TBR-2011	2011/08	S	N/A	5510 GL	1450	Permian Supai
335	17N	23E	19	NE NE	Arkla Exploration	36 NMAL	1965/12	S	1372	5470 KB	1473	Permian Supai
1097	17N	23E	19	C	Southwest/Passport	20 TBR	2012/06	S	N/A	5416 GL	1220	Permian Supai
995	17N	23E	21	C	Southwest/Passport	04 TBR-2010	2011/02	S	N/A	5436 GL	1475	Permian Supai
996	17N	23E	22	C	Southwest/Passport	05 TBR-2010	2012/03	S	N/A	5466 GL	1400	Permian Supai
1119	17N	23E	22	NE NE	Southwest/Passport	25 TBR	2012/10	S	N/A	5502 GL	970	Permian Supai
9-26	17N	23E	23	SE SE	Arkla Exploration	22 NMAL	1965/03	S	N/A	5597 KB	1718	Permian Supai
1096	17N	23E	23	C	Southwest/Passport	19 TBR	2012/06	S	N/A	5840 GL	1398	Permian Supai
997	17N	23E	24	NW SE	Southwest/Passport	06 TBR-2010	2011/03	S	N/A	5662 GL	1725	Permian Supai
1049	17N	23E	24	SE NE	Southwest/Passport	13 TBR-2011	2011/05	S	N/A	5739 GL	1640	Permian Supai
998	17N	23E	25	NW SE	Southwest/Passport	07 TBR-2010	2011/04	S	N/A	5594 GL	1675	Permian Supai
1030	17N	23E	25	SE NW	Southwest/Passport	12 TBR-2011	2011/02	S	N/A	5580 GL	1000	Permian Supai
1050	17N	23E	25	SE SE	Southwest/Passport	14 TBR-2011	2011/05	S	N/A	5590 GL	1533	Permian Supai
999	17N	23E	26	C	Southwest/Passport	08 TBR-2010	2011/03	S	N/A	5613 GL	1575	Permian Supai
333	17N	23E	29	NW SW	Arkla Exploration	39 NMAL	1965/11	S	1351	5373 KB	1340	Permian Supai
1099	17N	23E	29	C	Southwest/Passport	22 TBR	2012/06	S	N/A	5391 GL	1178	Permian Supai
364	17N	23E	31	SW SW	Arkla Exploration	20 NMAL	1966/10	S	1492	5375 KB	1029	Permian Supai
1-22	17N	24E	13	NE NW	Arkla Exploration	11 NMAL	1965/02	S	N/A	5523 KB	1500	Permian Supai
1006	17N	24E	34	C	HNZ Potash	07 HNZ	2011/08	S	N/A	5663 GL	1358	Permian Supai
1-23	17N	25E	02	NE NE	Kern County Land	7 State	1964/06	S	N/A	5800 GL	1600	Permian Supai
1054	17N	25E	02	NE NW	Southwest/Passport	PP-2011-40	2011/12	TA	N/A	5777 GL	715	Permian Supai
1087	17N	25E	03	SE SE	American West Potash	17 AWP Fee	2012/04	S	N/A	5723 GL	1505	Permian Supai
1061	17N	25E	04	SW NE	Southwest/Passport	PP-2011-49	2011/10	TA	N/A	5692 GL	675	Permian Supai
636	17N	25E	04	NW NW	St. Joe American	04 State	1975/03	S	1757	5667 KB	1452	Permian Supai
1-24	17N	25E	06	N2 NE	Kern County Land	3 State	1964/03	S	N/A	5600 GL	1385	Permian Supai
1062	17N	25E	08	SE NW	Southwest/Passport	PP-2011-50	2011/10	TA	N/A	5569 GL	1125	Permian Supai
1086	17N	25E	09	SW SW	American West Potash	16 AWP Fee	2012/03	S	N/A	5650 GL	1426	Permian Supai
1055	17N	25E	10	SE NE	Southwest/Passport	PP-2011-43	2011/10	TA	N/A	5705 GL	600	Permian Supai
650	17N	25E	10	SE SE	St. Joe American	08 State	1975/07	S	1761	5676 GL	1428	Permian Supai
641	17N	25E	12	NW NW	St. Joe American	05 State	1975/05	S	1758	5763 GL	1543	Permian Supai
987	17N	25E	12	NE NE	Potash Green	PG 1 State	2010/06	S	1927	5780 GL	1580	Permian Supai
1090	17N	25E	13	SE SW	American West Potash	22 AWP Fee	2012/05	S	N/A	5761 GL	1545	Permian Supai
1056	17N	25E	14	NW SE	Southwest/Passport	PP-2011-44	2011/12	TA	N/A	5735 GL	775	Permian Supai
1057	17N	25E	16	NE SE	Southwest/Passport	PP-2011-45	2011/10	TA	N/A	5611 GL	100	Permian Supai
652	17N	25E	16	NW NW	St. Joe American	09 State	1975/08	S	1762	5625 GL	1388	Permian Supai
1058	17N	25E	18	C S2	Southwest/Passport	46 PP-2011	2011/09	S	N/A	5591 GL	1400	Permian Supai
988	17N	25E	20	SW NE	Potash Green	PG 2 State	2010/06	S	1928	5620 GL	1386	Permian Supai
1085	17N	25E	21	SE SW	American West Potash	15 AWP Fee	2012/03	S	N/A	5669 GL	1395	Permian Supai
1-25	17N	25E	22	C	Kern County Land	2 U.S. Borax-N.	1964/03	S	N/A	5710 GL	1430	Permian Supai
1059	17N	25E	22	NE NE	Southwest/Passport	PP-2011-47	2012/01	TA	N/A	5719 GL	700	Permian Supai
1060	17N	25E	24	NE NW	Southwest/Passport	48 PP-2011	2011/11	TA	N/A	5770 GL	1150	Permian Supai
1-26	17N	25E	29	NW NW	Kern County Land	4 Greer	1964/04	S	N/A	5630 GL	1305	Permian Supai
1033	17N	25E	29	NW NW	American West Potash	01 KG Fee	2011/05	S	N/A	5621 GL	1301	Permian Supai
1034	17N	25E	32	NW SW	American West Potash	02 KG State	2011/06	S	N/A	5658 GL	1343	Permian Supai
1035	17N	25E	34	NE SE	American West Potash	03 KG Fee	2011/06	S	N/A	5614 GL	1332	Permian Supai

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PERMT	TWP	RGE	SE	LOC	OPERATOR	LEASE & NO.	DATE	ST	SAMP	ELEV	TD	FORMATION AT TD
1-27	17N	25E	36	SE SE	U. S. Borax	1B Navajo	1964/02	S	N/A	5600 GL	1308	Permian Supai
1-28	17N	26E	01	NW SE	Duval	05 Santa Fe	1963/12	S	1336	5961 KB	1905	Permian Supai
442	17N	26E	03	SW NE	Crest Oil	01 Spurlock	1969/09	D	1429	5971 KB	3784	Precambrian granite
1040	17N	26E	04	NW SE	American West Potash	08 KG State	2011/07	S	N/A	5872 GL	1482	Permian Supai
1093	17N	26E	05	NW NE	American West Potash	25 AWP Fee	2012/04	S	N/A	5877 GL	1482	Permian Supai
1094	17N	26E	06	NW SW	American West Potash	27 AWP State	2012/05	S	N/A	5810 GL	1550	Permian Supai
642	17N	26E	06	NW NW	St. Joe American	06 State	1975/07	S	1759	5880 GL	1594	Permian Supai
1091	17N	26E	15	NE NE	American West Potash	23 AWP Fee	2012/05	S	N/A	5828 GL	1580	Permian Supai
1-29	17N	26E	16	SE SE	National Potash	1 Navajo State	1964/05	S	1347	5780 GL	1507	Permian Supai
1038	17N	26E	16	SW SW	American West Potash	06 KG State	2011/07	S	N/A	5748 GL	1510	Permian Supai
1-30	17N	26E	18	NE NE	Duval	10 State	1964/01	S	1331	5793 KB	1528	Permian Supai
1037	17N	26E	18	NE NE	American West Potash	05 KG State	2011/07	S	N/A	5773 GL	1438	Permian Supai
1036	17N	26E	30	NW SW	American West Potash	04 KG State	2011/06	S	N/A	5643 GL	1429	Permian Supai
1-31	17N	26E	36	NW NW	National Potash	2 Navajo State	1964/05	S	1348	5830 GL	1572	Permian Supai
1-32	17N	27E	15	SW SE	Duval	14 Santa Fe	1964/02	S	1327	6395 KB	2347	Permian Supai
1-33	17N	28E	34	NE NE	Duval	42 Federal	1964/06	S	1300	6050 KB	2107	Permian Supai
1-34	17N	29E	27	NE NE	Duval	38 Santa Fe	1964/05	S	1303	6220 KB	2529	Permian Supai
830	18N	04E	28	SW NE	Golden Sun Montez.	1-28 Federal	1982/10	D	1848	4717 GL	1490	N/A
257	18N	04E	32	NE SW	Yavapai Oil	18 Alsbury-Fed.	1964/	D	N/A	4440 GL	304	Permian Supai
550	18N	04E	34	NW NE	Cope, C.E.	1 Bradshaw	1972/04	D	1693	4480 GL	3206	Precambrian
458	18N	05E	28	SE NE	Hopkins, A.A. Jr.	28-1 Federal	1968/06	D	1439	4652 GL	1308	Precambrian granite
487	18N	05E	31	SE SE	Hopkins, A.A. Jr.	1 Hallermund	1969/04	S	1471	4545 GL	1215	Precambrian granite
469	18N	05E	34	SW NW	Hopkins, A.A. Jr.	34-1 Federal	1968/11	D	1451	4490 GL	500	Mississippian Redwall
479	18N	05E	34	SW NW	Hopkins, A.A. Jr.	34-1X Federal	1968/12	D	1456	4490 GL	1138	Precambrian
482	18N	05E	34	SW NW	Hopkins, A.A. Jr.	34-1Y Federal	1968/12	D	1795	4452 GL	1150	Cambrian?
495	18N	05E	34	NE NW	Hopkins, A.A. Jr.	34-2 Federal	1969/05	D	1620	4500 KB	1217	Precambrian granite
3-07	18N	15E	28	NE NE	U. S. Bur. Reclam.	28 Winslow	1969/09	S	N/A	5180 GL	1210	Permian Supai
83	18N	20E	28	SW NE	Arrowhead-Besoyan	1 State	1959/07	D	694	5352 KB	1987	Permian Supai
67	18N	20E	30	SW SE	Tucson O&G Company	1 Woodman-Fed.	1959/04	D	N/A	5110 GL	310	Permian Coconino?
89	18N	20E	30	SW SE	Tucson O&G Company	1X Woodman-Fed.	1960/10	D	N/A	5123 KB	1785	Permian Supai
977	18N	20E	30	NW SE	APS	1 Cholla Fee CO2	2009/09	S	1924	5130 GL	3853	Precambrian granite
54	18N	20E	31	SE SE	Besoil Company	1 Hunt	1958/04	D	1670	5095 KB	1683	Permian Supai
470	18N	20E	31	SE SE	Cree, G.B.	1 Hunt	1968/08	D	1453	5083 KB	1615	Permian Fort Apache
356	18N	20E	32	SW SE	Kalil & Associates	1 State-Zelia	1967/01	D	N/A	5102 KB	1400	Permian Supai
9-27	18N	20E	32	SE SW	Oil Holdings	01	1950/	D	N/A	5095 DF	100	N/A
55	18N	20E	33	SE SW	Besoil Company	1 Perkins	1965/12	D	699	5110 GL	485	Permian Coconino
460	18N	20E	33	SW SW	Cree, G.B.	1 Scorse	1968/05	D	1436	5081 KB	3585	Precambrian granite
340	18N	23E	18	NE SW	Arkla Exploration	24 NMAL	1966/01	S	1499	5251 KB	1560	Permian Supai
360	18N	23E	21	NE NE	Arkla Exploration	23 NMAL	1966/09	S	1500	5311 KB	1919	Permian Supai
235	18N	23E	27	SW NE	Frankln,Aston,Fair	C1 NMAL	1964/12	D	N/A	5325 GL	310	Permian Coconino
254	18N	23E	27	SW NE	Frankln,Aston,Fair	C2 NMAL	1963/10	S	N/A	5325 GL	245	Triassic Moenkopi
221	18N	23E	35	SW NE	Frankln,Aston,Fair	A2 NMAL	1962/12	D	N/A	5340 GL	390	Permian Coconino
253	18N	23E	36	NW SE	Frankln,Aston,Fair	1 Bernstein St.	1963/09	D	N/A	5330 GL	215	Triassic Moenkopi
1-35	18N	24E	02	S2 SW	Kern County Land	1 State	1964/02	S	N/A	5342 GL	1134	Permian Supai
554	18N	24E	08	NW NW	Enterprise (Williams)	01 Fee Adamana	1971/07	S	1673	5312 KB	1130	Permian Supai
556	18N	24E	08	NW NW	Enterprise (Williams)	01 Fee Strat	1971/07	SL	1665	5301 KB	1101	Permian Supai
557	18N	24E	08	NW NW	Enterprise (Williams)	02 Fee Strat	1971/08	SL	1667	5305 GL	1112	Permian Supai
602	18N	24E	08	NW NW	Enterprise (Williams)	03 Fee	1972/12	SL	1716	5310 KB	1140	Permian Supai
603	18N	24E	08	NW NW	Enterprise (Williams)	04 Fee	1973/01	SL	1717	5329 KB	1120	Salt, Permian Supai
606	18N	24E	08	NW NW	Enterprise (Williams)	05 Fee	1973/02	SL	1718	5334 KB	1119	Salt, Permian Supai
607	18N	24E	08	NW NW	Enterprise (Williams)	06 Fee	1973/03	SL	1719	5329 KB	1120	Salt, Permian Supai
646	18N	24E	08	NW NW	Enterprise (Williams)	07 Fee	1975/08	SL	N/A	5352 KB	1152	Salt, Permian Supai
647	18N	24E	08	NE NW	Enterprise (Williams)	08 Fee	1975/09	SL	N/A	5316 KB	1132	Salt, Permian Supai
648	18N	24E	08	NE NW	Enterprise (Williams)	09 Fee	1975/11	SL	N/A	5323 KB	1125	Salt, Permian Supai

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PERMT	TWP	RGE	SE	LOC	OPERATOR	LEASE & NO.	DATE	ST	SAMP	ELEV	TD	FORMATION AT TD
671	18N	24E	08	NW NW	Enterprise (Williams)	10 Fee	1976/10	SL	N/A	5361 KB	1150	Salt, Permian Supai
672	18N	24E	08	NW NW	Enterprise (Williams)	11 Fee	1976/10	SL	N/A	5369 KB	1176	Salt, Permian Supai
776	18N	24E	08	NW NW	Enterprise (Williams)	12 Fee	1982/06	SL	N/A	5356 GL	1200	Permian Supai
1-36	18N	24E	12	S2 SE	Kern County Land	5 State	1964/04	S	N/A	5367 GL	1012	Permian Supai
1-37	18N	24E	17	NW NW	Duval	31 Santa Fe	1964/04	S	1309	5300 GL	955	Permian Supai
1-38	18N	24E	20	SE SW	Duval	36 Santa Fe	1964/05	S	1306	5320 GL	955	Permian Supai
1-39	18N	24E	31	SE SW	Duval	27 Federal	1964/04	S	1315	5390 GL	1064	Permian Supai
1-40	18N	25E	10	NW NW	Duval	18 State	1964/02	S	1323	5500 GL	1433	Permian Supai
288	18N	25E	10	SW NE	Walker Brothers	1 State	1964/08	D	1365	5520 GL	608	N/A
682	18N	25E	12	NE NE	St. Joe American	13 State	1977/07	S	1779	5560 GL	1182	Permian Supai
1-41	18N	25E	14	C	Duval	35 State	1964/05	S	1307	5550 GL	1147	Permian Supai
383	18N	25E	16	NW NW	Henderson	1 State	1967/04	D	N/A	5410 GL	300	Triassic Moenkopi
387	18N	25E	16	SW NW	Henderson	1 State	1967/04	D	1794	5410 GL	510	Permian Coconino
645	18N	25E	16	SW SW	St. Joe American	07 State	1975/06	S	1760	5420 GL	1004	Permian Supai
1-42	18N	25E	18	NE NE	Duval	08 Federal	1963/12	S	1333	5394 KB	923	Permian Supai
1-43	18N	25E	20	W2 W2	Kern County Land	6 State	1964/04	S	N/A	5418 GL	1021	Permian Supai
63	18N	25E	21	NE SE	Kerr-McGee	02 Hortenstine	1958/09	D	369	5509 KB	560	Permian Coconino
57	18N	25E	23	NE NW	Kerr-McGee	01 Hortenstine	1958/09	D	367	5597 KB	3456	Precambrian granite
1-44	18N	25E	24	SE SE	Kern County Land	8 State	1964/07	S	N/A	5710 GL	1421	Permian Supai
633	18N	25E	24	NW NW	St. Joe American	01 State	1975/01	S	1754	5618 KB	1228	Permian Supai
634	18N	25E	26	NW NW	St. Joe American	02 State	1975/03	S	1755	5593 KB	1245	Permian Supai
1-45	18N	25E	28	NW NW	Duval	22 State	1964/03	S	N/A	5480 GL	1268	Permian Supai
635	18N	25E	34	NW NW	St. Joe American	03 State	1975/04	S	1756	5741 KB	1818	Permian Supai
1088	18N	25E	36	NW NW	American West Potash	18 AWP State	2012/05	S	N/A	5873 GL	1667	Permian Supai
1045	18N	26E	02	NE NE	American West Potash	13 KG State	2011/08	S	N/A	5993 GL	1807	Permian Supai
1-46	18N	26E	04	SE NE	Duval	37 State	1964/05	S	1305	5765 KB	1564	Permian Supai
679	18N	26E	04	SE SE	St. Joe American	10 State	1977/07	S	1776	5690 GL	1380	Permian Supai
1-47	18N	26E	06	SW SW	Duval	33 State	1964/04	S	1311	5590 GL	1206	Permian Supai
287	18N	26E	07	NE SW	Walker Brothers	1 Paulsell	1964/08	D	N/A	5550 GL	660	Permian Coconino
632	18N	26E	08	NE SE	Duval	52 State	1974/12	S	1734	5580 GL	1308	Permian Supai
673	18N	26E	08	NW NW	Duval	61 State	1977/03	S	1775	5599 KB	1251	Permian Supai
1-48	18N	26E	10	W2 W2	Duval	16 State	1964/02	S	1325	5705 GL	1414	Permian Supai
665	18N	26E	10	NE NW	Duval	57 State	1976/10	S	1773	5809 KB	1452	Permian Supai
624	18N	26E	12	SW NW	Duval	47 State	1974/10	S	1729	6020 GL	1735	Permian Supai
675	18N	26E	12	SW SE	Duval	63 State	1977/05	S	N/A	6161 KB	1874	Permian Supai
355	18N	26E	13	SW NE	Apache Drilling	13 Spurlock-Wet	1971/07	D	N/A	6122 GL	1245	Permian Coconino
1044	18N	26E	14	NW SE	American West Potash	12 KG State	2011/08	S	N/A	6151 GL	1685	Permian Supai
1-49	18N	26E	16	SE NE	Duval	20 State	1964/03	S	1321	5705 GL	1440	Permian Supai
680	18N	26E	16	NW NW	St. Joe American	11 State	1977/07	S	1777	5645 GL	1312	Permian Supai
1-50	18N	26E	18	W2 NW	Duval	24 State	1964/03	S	1318	5530 GL	1224	Permian Supai
664	18N	26E	18	SE NE	Duval	53 State	1976/10	S	1772	5548 GL	1265	Permian Supai
1-51	18N	26E	19	NW NW	Duval	03 Fee	1963/11	S	1338	5604 GL	1321	Permian Supai
681	18N	26E	20	NW NW	St. Joe American	12 State	1977/07	S	1778	5670 GL	1252	Permian Supai
1-52	18N	26E	22	E2 W2	Duval	32 State	1964/04	S	1310	6145 KB	1845	Permian Supai
1-53	18N	26E	24	NE NE	Duval	11 State	1964/01	S	1330	6100 KB	1739	Permian Supai
341	18N	26E	25	SE NW	Apache Drilling	03 Spurlock-Wet	1966/03	D	N/A	6050 GL	1244	Permian Coconino
1042	18N	26E	26	NW SE	American West Potash	10 KG State	2011/08	S	N/A	6001 GL	1642	Permian Supai
322	18N	26E	27	NE SE	Apache Drilling	02 Spurlock-Wet	1965/10	D	N/A	5950 GL	1147	Permian Coconino
1041	18N	26E	28	NW SE	American West Potash	09 KG State	2011/07	S	N/A	6020 GL	1600	Permian Supai
1-54	18N	26E	30	NW SW	Duval	26 State	1964/04	S	1316	5742 KB	1496	Permian Supai
1-55	18N	26E	34	NE NW	Duval	13A State	1964/03	S	1328	5915 GL	1548	Permian Supai
1092	18N	26E	34	SW SE	American West Potash	24 AWP State	2012/06	S	N/A	5941 GL	1539	Permian Supai
626	18N	27E	06	NW NE	Duval	49 State	1974/11	S	1731	6151 GL	2046	Permian Supai
674	18N	27E	06	SW NW	Duval	62 State	1977/04	S	N/A	6065 GL	1087	Triassic Chinle

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PERMT	TWP	RGE	SE	LOC	OPERATOR	LEASE & NO.	DATE	ST	SAMP	ELEV	TD	FORMATION AT TD
1-56	18N	27E	07	NW NW	Duval	34 Santa Fe	1964/05	S	1308	6130 KB	1875	Permian Supai
625	18N	27E	08	SE NW	Duval	48 State	1974/09	S	1730	6280 GL	1776	Permian Supai
630	18N	27E	08	SE NW	Duval	50 State	1974/10	S	1732	6280 GL	2139	Permian Supai
1-57	18N	27E	10	NW SE	Duval	09 State	1964/01	S	1332	6520 KB	2512	Permian Supai
631	18N	27E	18	SE SE	Duval	51 State	1974/12	S	1733	6174 GL	1781	Permian Supai
1-58	18N	27E	35	SE SE	Duval	43A Santa Fe	1965/05	S	1354	6431 KB	2445	Permian Supai
1-59	18N	28E	15	SE SE	Duval	25 Santa Fe	1964/04	S	1317	6525 KB	2789	Permian Supai
1-60	18N	28E	19	SW SE	Duval	44 Santa Fe	1965/03	S	1353	6470 GL	2676	Permian Supai
180	18N	29E	16	NE SW	Martin, Marlette	1 State	1962/05	D	1260	6491 GL	2068	Triassic Moenkopi
436	19N	06E	17	NE SE	Oil Discovery	1 Federal	1967/12	D	N/A	7012 KB	3253	Precambrian quartzite
661	19N	07E	01	SE SE	Wichita Industries	1 Federal	1976/12	D	1769	7186 KB	3512	Precambrian
239	19N	10E	05	NW SE	Shoshane Oil	1 Hildyard	1963/08	D	N/A	6500 GL	1125	Permian Coconino
3-08	19N	10E	23	SE SE	Walters, George C.	1 Anderson Pt.	1944/06	D	N/A	6402 GL	1297	Permian Supai
372	19N	10E	24	SE SW	Steinberg, Sidney	1 Flowalt-Bab.	1966/12	D	N/A	6406 GL	888	Permian Coconino
376	19N	10E	24	SE SW	Steinberg, Sidney	1A Flowalt-Bab.	1967/04	D	1384	6406 KB	6500	Precambrian granite
3-09	19N	10E	24	SW SW	Walters, George C.	2 Anderson Pt.	1944/07	D	N/A	6390 GL	955	Permian Coconino
72	19N	10E	24	SE NW	Western Oil & Min.	1 Federal	1961/08	D	608	6394 DF	3020	Pennsylvanian Naco
886	19N	13E	26	NW NE	The Townsend Co.	26-1 State	1995/06	D	1878	5250 GL	3844	Precambrian granite
301	19N	17E	10	NE SW	Ferrin, Harold	1 State	1967/06	D	N/A	5103 KB	1417	Permian Supai
344	19N	17E	22	NW NW	Ferrin, Harold	1 NMA	1968/06	D	N/A	5000 GL	1250	Permian Supai
657	19N	17E	36	NE SE	Webb Resources	036-1 State	1976/07	D	N/A	5139 KB	3806	Precambrian metamorphic
26	19N	22E	01	NW SW	Hager,Mills,Landrm	1 Santa Fe	1955/01	D	129	5670 GL	1182	Permian Coconino
181	19N	22E	13	S2 SE	Fohs, F.J.	1-13 Santa Fe	1962/05	D	N/A	5605 DF	1838	Permian Supai
9-28	19N	23E	06	SW NW	General Petroleum	14-6 Creager St	1949/02	D	124	5720 DF	3432	Precambrian granite
160	19N	23E	09	SW NW	Fohs, F.J.	1-09 Santa Fe	1961/11	D	N/A	5689 GL	1073	Permian Coconino
164	19N	23E	16	NW SW	Fohs, F.J.	1-16 State	1961/11	D	N/A	5621 GL	845	Triassic Chinle
173	19N	23E	16	NE SW	Fohs, F.J.	2-16 State	1961/12	S	N/A	5629 GL	997	Permian Coconino?
161	19N	23E	21	SE NE	Fohs, F.J.	1-21 Santa Fe	1961/12	D	N/A	5359 GL	710	Permian Coconino
174	19N	23E	26	NW SW	Fohs, F.J.	1-26 Finley	1961/12	S	N/A	5360 GL	727	Permian Coconino
9-29	19N	23E	29	SE NE	Fohs, F.J.	1-29 Santa Fe	1961/12	S	N/A	5374 DF	723	N/A
162	19N	23E	34	NW NW	Fohs, F.J.	1-34 Santa Fe	1962/12	D	N/A	5290 GL	678	Permian Coconino
9-30	19N	23E	36	SW SW	Duval	29 State	1964/04	S	1313	5412 KB	1454	Permian Supai
1-61	19N	24E	06	SE SE	Zuni-Arizona Oil	1 Arizona	1921/	D	N/A	5392 GL	945	Triassic Chinle
120	19N	25E	02	SW NE	Sierra Drilling	1 State	1960/10	D	600	5608 KB	1047	Permian Coconino
210	19N	25E	11	NE NW	Martin, Marlette	1 Fitzgerald	1962/09	D	1273	5484 GL	847	Permian Coconino
153	19N	25E	13	C	Armour Properties	1 Paulsell	1961/09	D	N/A	5397 KB	812	Permian Coconino
1-62	19N	25E	23	NE	Armour Properties	4 Paulsell	N/A	D	N/A	5486 GL	776	Permian Coconino
184	19N	25E	25	C	Busby, R.H.	1 Pat Paulsell	1962/05	D	N/A	5580 GL	930	Permian Coconino
189	19N	25E	26	SE NW	Busby, R.H.	1 State	1962/06	D	688	5581 GL	879	Permian Coconino
190	19N	25E	36	NE SW	Busby, R.H.	2 State	1962/06	D	700	5510 GL	758	Permian Coconino
1-63	19N	25E	36	NE NE	Duval	06 State	1963/11	S	1335	5528 GL	1342	Permian Supai
157	19N	26E	01	SW NW	Eastern Petroleum	01 Reese	1961/11	D	662	5707 FL	1077	Permian Coconino
348	19N	26E	01	SW NE	Eastern Petroleum	02 Reese	1966/02	HN	N/A	5722 GL	1067	Permian Coconino
81	19N	26E	02	NE SW	Kerr-McGee(Eastern	1-02 State	1959/06	HP	621	5751 KB	1054	Permian Coconino
37	19N	26E	04	NW SE	Kerr-McGee	03 State	1957/04	HP	N/A	5777 KB	1198	Permian Coconino
349	19N	26E	04	NE NE	Kerr-McGee	03A State	1966/04	HP	1373	5759 GL	1005	Permian Coconino
196	19N	26E	05	SW NE	Ram Oil	1-05 Hortnstine	1963/12	D	N/A	5672 GL	948	Permian Coconino
78	19N	26E	06	SE NE	Eastern Petroleum	01-06 State	1960/09	D	613	5663 KB	1013	Permian Coconino
178	19N	26E	09	SW NE	Ram Oil	1-09 Hortnstine	1963/12	D	N/A	5716 GL	993	Permian Coconino
80	19N	26E	10	NE NE	Eastern Petroleum	01-10 State	1960/09	HP	620	5743 KB	1035	Permian Coconino
1-64	19N	26E	12	NE SE	Duval	02 State	1963/12	S	1339	5791 KB	1594	Permian Supai
123	19N	26E	12	NE SW	Sierra Drilling	2 State	1960/01	D	595	5756 GL	1100	Permian Coconino
135	19N	26E	13	SE NW	Linehan & Stolten.	1-13 Spur.-Wet.	1961/	D	N/A	5773 GL	1083	Permian Coconino
167	19N	26E	14	S2 SW	Ram Oil	1-14 State	1962/03	D	N/A	5741 GL	1004	Permian Coconino

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PERMT	TWP	RGE	SE	LOC	OPERATOR	LEASE & NO.	DATE	ST	SAMP	ELEV	TD	FORMATION AT TD
177	19N	26E	14	SW SW	Ram Oil	1A-14 State	1962/03	S	N/A	5738 GL	820	Triassic Chinle
352	19N	26E	15	SE SE	Eli Oil & Gas	1 Hortenstine	1966/06	D	1382	5700 GL	986	Permian Coconino
121	19N	26E	16	SW NE	Sierra Drilling	4 State	1960/09	D	594	5690 GL	1016	Permian Coconino
320	19N	26E	17	SW NE	Walker Brothers	1 Lansdale	1965/07	D	1349	5580 GL	865	Permian Coconino
262	19N	26E	20	SW NE	McCaughey, C.E.	1 Sunland-State	1964/01	D	1244	5595 GL	862	Permian Coconino
214	19N	26E	21	NW SE	Fletcher, R.L.	1-21 Spurlock	1965/06	D	N/A	5648 KB	925	Permian Coconino
346	19N	26E	22	NW SE	Apache Drilling	01-22 State	1966/06	D	N/A	5715 GL	1701	Permian Supai
1-65	19N	26E	22	SW SW	Duval	12 State	1964/01	S	1329	5665 DF	1583	Permian Supai
143	19N	26E	22	NE SE	Teil Developmnt Co	1 Kruglic-State	1962/02	D	1257	5715 GL	760	Triassic Moenkopi
318	19N	26E	23	SW NE	Apache Drilling	01 Spurlock-Wet	1965/07	D	N/A	5836 GL	1098	Permian Coconino
148	19N	26E	23	NW SW	Linehan & Stolten.	1-23 Spur.-Wet.	1961/07	D	N/A	5748 GL	990	Permian Coconino
465	19N	26E	26	SE NW	Hallett Develop.	2 State	1968/08	D	N/A	5985 GL	1279	Permian Coconino
1046	19N	26E	26	NW SE	American West Potash	14 KG State	2011/08	S	N/A	5983 GL	1812	Permian Supai
149	19N	26E	27	NE NW	Linehan & Stolten.	2-27 Spur.-Wet.	1961/07	D	N/A	5698 GL	957	Permian Coconino
451	19N	26E	28	SE NE	Hallett Develop.	1 State	1968/04	D	N/A	5750 GL	997	Permian Coconino
68	19N	26E	28	NE SW	Wilkinson Oil&Gas	1 Sunland-State	1960/02	D	N/A	5695 GL	1040	Permian Coconino
87	19N	26E	28	NE SW	Wilkinson Oil&Gas	2 Sunland-State	1961/02	D	N/A	5697 GL	960	Permian Coconino
1089	19N	26E	33	SW SW	American West Potash	20 AWP Fee	2012/06	S	N/A	5623 GL	1405	Permian Supai
1-66	19N	26E	36	NE NE	Duval	01A State	1963/10	S	1340	6065 KB	2005	Permian Supai
449	19N	26E	36	NW NE	Hallett Develop.	1 State	1968/03	D	N/A	6048 GL	1376	Permian Coconino
273	19N	27E	01	SE NW	Eastern Petroleum	34 Santa Fe	1964/04	D	N/A	5981 GL	1440	Permian Coconino
124	19N	27E	03	SW NE	Crest Oil	03 Santa Fe	1960/07	D	N/A	5906 GL	1280	Permian Coconino
236	19N	27E	04	W2 W2	Eastern Petroleum	17 Santa Fe	1963/06	HP	1247	5780 GL	1057	Permian Coconino
206	19N	27E	05	SE NW	Eastern Petroleum	14 Santa Fe	1962/10	HP	1183	5801 GL	1100	Permian Coconino
204	19N	27E	06	SW NE	Eastern (Crest)	07 Santa Fe	1962/09	HN	N/A	5812 GL	1060	Permian Coconino
250	19N	27E	08	NE NE	Eastern Petroleum	29 Santa Fe	1963/10	D	1250	5821 GL	1101	Permian Coconino
216	19N	27E	08	SE NW	Eli Oil & Gas	2 Santa Fe	1962/11	D	1259	5838 GL	1138	Permian Coconino
623	19N	27E	09	SE SW	Duval	46 Santa Fe	1974/08	S	1728	5905 GL	1743	Permian Supai
109	19N	27E	09	NE SW	Eastern Petroleum	03 Santa Fe	1960/04	D	605	5898 KB	2933	Permian Supai
185	19N	27E	09	NE NE	Eli Oil & Gas	1 Santa Fe	1962/06	D	1266	5878 GL	1208	Permian Coconino
1-67	19N	27E	10	NW NW	Duval	28A Santa Fe	1964/04	S	1314	5892 KB	1908	Permian Supai
229	19N	27E	12	SW NE	Eastern Petroleum	19 Santa Fe	1963/07	D	1275	5985 GL	1422	Permian Coconino
402	19N	27E	14	SW NW	Kerr-McGee	01 Santa Fe	1967/05	S	N/A	6052 KB	1417	Permian Coconino
1-68	19N	27E	19	SW SW	Duval	30 Santa Fe	1964/04	S	1312	6026 KB	1890	Permian Supai
1-69	19N	27E	22	SW NE	Duval	15 Santa Fe	1964/02	S	1326	6104 KB	1981	Permian Supai
230	19N	27E	23	C E2	Eastern Petroleum	20 Santa Fe	1963/07	D	1792	6180 GL	1557	Permian Coconino
413	19N	27E	24	NE NE	Kerr-McGee	11 Santa Fe	1967/06	S	N/A	6111 GL	1455	Permian Coconino
1-70	19N	27E	28	SW SW	Duval	39 Santa Fe	1964/05	S	1304	6115 KB	2001	Permian Supai
150	19N	28E	09	SE NW	Eastern Petroleum	05 Santa Fe	1961/08	D	653	5930 GL	1830	Permian Coconino
403	19N	28E	19	NW SE	Kerr-McGee	02 Santa Fe	1967/05	S	N/A	6121 GL	1518	Permian Coconino
1-71	19N	28E	21	NE SW	Duval	19 Santa Fe	1964/03	S	1322	6125 KB	2127	Permian Supai
404	19N	28E	34	SE NW	Kerr-McGee	03 Santa Fe	1967/05	S	N/A	6198 GL	1760	Permian Coconino
408	19N	29E	09	NW NW	Kerr-McGee	06 Santa Fe	1967/05	S	N/A	6244 GL	1388	Permian Coconino
586	19N	29E	29	SW NE	Eastern Petroleum	01 Santa Fe	1972/10	D	1706	6380 GL	2000	Permian Coconino
195	19N	29E	32	NW NW	Desert Drilling	1 State	1965/08	D	703	6660 GL	2660	Permian Coconino
351	20N	05E	24	SW NW	Potter, J.M.	1 State	1969/01	D	1381	7199 GL	3781	Precambrian quartzite
313	20N	05E	24	SW NW	Willett, George E.	1 State	1966/04	D	1381	7199 GL	3781	Precambrian quartzite
240	20N	10E	26	NW SE	Pickett, J.R.	1 Padre Canyon	1964/02	D	1271	6261 KB	3596	Precambrian quartzite
186	20N	11E	12	NE NW	Owens, Roy & Co.	1 DiabloAmarilo	1962/06	D	691	5735 KB	3628	Precambrian quartzite
3-01	20N	12E	13	SW NW	Arizona	1 Sunshine	1932/	D	N/A	5349 GL	1470	Permian
656	20N	15E	25	NE SE	Webb Resources	025-1 NMAL	1976/03	D	1753	4863 KB	3797	Precambrian metamorphic
233	20N	17E	27	SE NW	Peak Petroleum	2 NMAL	1963/05	S	N/A	5294 KB	910	Permian Coconino
211	20N	21E	04	NW SE	Linehan & Stolten.	1 Matthews-St.	1962/09	D	1173	5460 GL	965	Permian Coconino
158	20N	21E	11	SE SW	Linehan & Stolten.	1 Jeffers	1961/11	D	N/A	5360 GL	1714	Permian Supai

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PERMT	TWP	RGE	SE	LOC	OPERATOR	LEASE & NO.	DATE	ST	SAMP	ELEV	TD	FORMATION AT TD
1095	20N	21E	27	NE NE	Triomphe Energy	1 Triomphe Fee	2012/06	TA	N/A	5266 GL	4521	Precambrian granite
75	20N	25E	22	SE SE	Texas American Oil	1 Fitzgerald	1959/10	D	373	5765 GL	471	Triassic Chinle
99	20N	25E	22	SE SE	Texas American Oil	2 Fitzgerald	1959/10	D	368	5763 GL	1327	Permian Coconino
147	20N	26E	09	NW NW	Linehan & Stolten.	1-09 Spur.-Wet.	1961/04	D	N/A	5750 GL	1218	Permian Coconino
119	20N	26E	13	SW SW	Wilson, Layron E.	1 Cody Harris	1961/09	D	N/A	5673 GL	1270	Permian Coconino
136	20N	26E	21	SW SE	Linehan & Stolten.	1-21 Spur.-Wet.	1961/04	D	663	5605 GL	1082	Permian Coconino
296	20N	26E	23	SE SW	Eastern Petroleum	01 Spurlck-Rees	1964/11	D	N/A	5602 GL	1098	Permian Coconino
64	20N	26E	27	NE SE	Kerr-McGee	01 Reese	1958/10	D	1549	5645 KB	1052	Permian Coconino
88	20N	26E	28	SE SE	Kerr-McGee(Eastern	1-28 State	1960/09	HP	622	5705 KB	1091	Permian Coconino
122	20N	26E	30	NW SE	Sierra Drilling	3 State	1960/07	D	N/A	5640 GL	1036	Permian Coconino
137	20N	26E	31	SE NE	Linehan & Stolten.	1-31 Spur.-Wet.	1961/04	D	664	5550 GL	860	Permian Coconino
38	20N	26E	32	SW NE	Kerr-McGee	04 State	1957/05	HP	N/A	5586 KB	836	Permian Coconino
378	20N	26E	32	NE SE	Kerr-McGee	04A State	1967/03	HP	1416	5555 GL	834	Permian Coconino
10	20N	26E	33	SW SE	Kerr-McGee	01 Fee	1956/10	HP	1663	5743 GL	2517	Permian Supai
29	20N	26E	34	NW SE	Apache Oil & Helium	03 Macie State	1956/10	D	562	5779 GL	833	Triassic Moenkopi
1-72	20N	26E	34	SW SW	Kerr-McGee	01 State-Macie	1950/10	HP	69	5796 KB	1550	Permian Supai
36	20N	26E	34	NW SE	Kerr-McGee	02 State	1956/10	HP	305	5779 GL	2502	Permian Supai
39	20N	26E	35	N2 NW	Kerr-McGee	02 Fee	1957/05	HP	N/A	5679 KB	1006	Permian Coconino
142	20N	26E	35	NW NE	Kerr-McGee	03 Fee	1961/03	D	650	5657 DF	1086	Permian Coconino
919	20N	26E	35	NE SW	Holbrook Energy	35-1 Hortenstine	2004/09	TA	N/A	5672 GL	1050	Permian Coconino
91	20N	26E	36	SW NE	Kerr-McGee	05 State	1959/07	S	400	5671 KB	1200	Permian Coconino
276	20N	27E	03	SE NW	Eastern Petroleum	28 Santa Fe	1964/05	D	N/A	5732 GL	1037	Permian Coconino
268	20N	27E	05	SE NE	Eastern Petroleum	22 Santa Fe	1964/02	D	1249	5710 GL	1022	Permian Coconino
108	20N	27E	07	SE NW	Eastern Petroleum	02 Santa Fe	1960/03	D	606	5776 KB	1240	Permian Coconino
188	20N	27E	11	NE SW	Eastern Petroleum	12 Santa Fe	1962/06	D	N/A	5892 GL	1305	Permian Coconino
237	20N	27E	13	NE SW	Eastern Petroleum	18 Santa Fe	1963/08	D	N/A	5833 GL	1353	Permian Coconino
209	20N	27E	15	SW NE	Eastern Petroleum	15 Santa Fe	1962/10	D	N/A	5743 GL	1244	Permian Coconino
112	20N	27E	19	NE SW	Crest Oil	01 Santa Fe	1960/03	S	602	5659 KB	1226	Permian Coconino
264	20N	27E	21	NE SW	Eastern Petroleum	36 Santa Fe	1964/01	D	1254	5705 GL	1285	Permian Coconino
414	20N	27E	22	NW SE	Kerr-McGee	12 Santa Fe	1967/06	S	N/A	5735 GL	1283	Permian Coconino
405	20N	27E	23	NW SW	Kerr-McGee	10 Santa Fe	1967/06	S	N/A	5754 GL	1330	Permian Coconino
203	20N	27E	24	NE SW	Crest Oil	09 Santa Fe	1962/10	D	698	5772 GL	1330	Permian Coconino
284	20N	27E	24	S2 N2	Eastern Petroleum	24 Santa Fe	1964/07	D	N/A	5792 GL	1340	Permian Coconino
536	20N	27E	24	S2 N2	Eastern Petroleum	24 Santa Fe	1970/08	D	N/A	5792 GL	1340	Permian Coconino
353	20N	27E	25	SE NW	Apache Drilling	01 SntaFe-Crest	1968/09	D	1458	5802 GL	1306	Triassic Moenkopi
134	20N	27E	25	SE NW	Crest Oil	08 Santa Fe	1961/06	D	597	5803 GL	1372	Permian Coconino
471	20N	27E	25	SE SE	Crest-Ariz Helium	01 Santa Fe	1968/11	HP	1478	5820 GL	1225	Permian Coconino
472	20N	27E	25	C SW	Crest-Ariz Helium	02 Santa Fe	1968/11	D	N/A	5805 GL	1445	Permian Coconino
473	20N	27E	25	SE NW	Crest-Ariz Helium	08X Santa Fe	1968/10	HN	1479	5801 GL	1358	Permian Coconino
584	20N	27E	25	SE SW	Eastern Petroleum	01 SantaFe-Drec	1972/09	D	1698	5808 GL	1266	Triassic Moenkopi
576	20N	27E	25	SW NE	Eastern Petroleum	01-25 Santa Fe	1972/03	D	1696	5819 GL	1381	Triassic Moenkopi
129	20N	27E	26	NE SW	Crest Oil	05 Santa Fe	1960/11	D	601	5770 GL	1180	Permian Coconino
151	20N	27E	26	NE SW	Crest Oil	05A Santa Fe	1961/09	D	655	5775 GL	1135	Permian Coconino
182	20N	27E	26	SW NE	Crest Oil	11 Santa Fe	1962/05	D	N/A	5775 GL	1391	Permian Coconino
1-73	20N	27E	26	NW NW	Duval	21 Santa Fe	1964/03	S	1320	5750 KB	1978	Permian Supai (evap)
543	20N	27E	26	SE SW	Eastern Petroleum	01-26 Santa Fe	1970/11	D	1625	5780 GL	1161	Permian Coconino
547	20N	27E	26	SE SE	Eastern Petroleum	02-26 Santa Fe	1970/11	D	1619	5797 GL	1290	Triassic Moenkopi
289	20N	27E	26	NE SW	Eastern Petroleum	25 Santa Fe	1964/09	D	N/A	5768 GL	1223	Permian Coconino
263	20N	27E	27	NE SW	Eastern Petroleum	35 Santa Fe	1964/05	HP	N/A	5757 GL	1062	Permian Coconino
258	20N	27E	28	NE SW	Eastern Petroleum	32 Santa Fe	1963/11	HN	1252	5758 GL	1133	Permian Coconino
255	20N	27E	29	N2 SE	Eastern Petroleum	31 Santa Fe	1963/10	HN	1251	5690 GL	1049	Permian Coconino
259	20N	27E	30	NW SE	Eastern Petroleum	33 Santa Fe	1963/12	D	1253	5665 GL	1265	Permian Coconino
252	20N	27E	31	CWL	Eastern Petroleum	01 Santa Fe	1963/05	S	N/A	5670 GL	156	Triassic Chinle
251	20N	27E	31	NW NW	Eastern Petroleum	02 Santa Fe	1963/05	S	N/A	5690 GL	168	Quaternary alluvium

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PERMT	TWP	RGE	SE	LOC	OPERATOR	LEASE & NO.	DATE	ST	SAMP	ELEV	TD	FORMATION AT TD
194	20N	27E	31	NE SW	Eastern Petroleum	13 Santa Fe	1962/06	HP	1272	5744 KB	1030	Permian Coconino
238	20N	27E	32	NE SW	Eastern(KerrMcGee)	1 Barfoot-State	1963/07	HP	1263	5727 KB	1087	Permian Coconino
110	20N	27E	33	NE SW	Crest Oil	02 Santa Fe	1960/05	HN	N/A	5759 GL	1140	Permian Coconino
140	20N	27E	34	SW NE	Brown, James G.	1 Santa Fe	1961/02	D	609	5857 DF	1214	Permian Coconino
269	20N	27E	34	SE NW	Eastern Petroleum	37 Santa Fe	1964/03	D	1255	5846 GL	1202	Permian Coconino
130	20N	27E	35	NE NE	Crest Oil	06 Santa Fe	1961/09	D	656	5805 GL	1231	Permian Coconino
578	20N	27E	36	NE NW	Eastern Petroleum	01 Szar-State	1972/04	D	1695	5810 GL	1215	Triassic Moenkopi
553	20N	27E	36	NE NE	W. Heli. Connelly	1 KM-State	1971/06	HP	1688	5834 DF	1160	Triassic Moenkopi
601	20N	28E	11	NW SE	Eastern Petroleum	01-11 Santa Fe	1972/11	D	N/A	6172 GL	1075	Permian Coconino
920	20N	28E	12	NE SW	Gruy Petroleum	12-11 SF Goodyear	2004/11	D	1901	6086 GL	1025	Permian Coconino
560	20N	28E	13	NE SW	Eastern Petroleum	01 Kiva-SantaFe	1972/04	D	1690	6181 KB	1230	Permian Coconino
152	20N	28E	19	NE SW	Eastern Petroleum	04 Santa Fe	1961/08	D	654	5813 GL	1479	Permian Coconino
407	20N	28E	23	NW NE	Kerr-McGee	05 Santa Fe	1967/06	S	N/A	6140 GL	1207	Permian Coconino
599	20N	28E	24	NE SW	Eastern Petroleum	02 Kiva-SantaFe	1972/11	D	1707	6169 DF	1230	Permian Coconino
921	20N	28E	24	SE NW	Gruy Petroleum	24-6 SF Whispership	2004/11	D	1902	6184 GL	1213	Permian Coconino
155	20N	28E	25	C	Eastern Petroleum	06 SantaFe	1961/09	D	657	6113 GL	1300	Permian Coconino
561	20N	28E	25	C	Eastern Petroleum	06X SantaFe	1971/09	D	657	6113 GL	1300	Permian Coconino
565	20N	28E	25	SE NW	Eastern Petroleum	06X-01 Santa Fe	1972/03	D	1677	6040 KB	1265	Permian Coconino
282	20N	28E	29	NE SW	Eastern Petroleum	30 Santa Fe	1964/07	D	N/A	5903 GL	1352	Triassic Shinarump?
592	20N	28E	30	SW SW	Eastern Petroleum	01 Merde-Indian	1972/08	HP	1704	5830 GL	1200	Triassic Moenkopi
596	20N	28E	30	SW SE	Eastern Petroleum	02 Merde-Indian	1972/09	D	1705	5839 GL	1343	Triassic Moenkopi
552	20N	28E	30	SE NW	Western Helium	1 Indian	1971/06	D	1669	5823 KB	1310	Triassic Moenkopi
234	20N	28E	31	SE NW	Apache Drilling(EP)	21 Ancon-SntaFe	1963/09	HP	1248	5853 GL	1361	Permian Coconino
579	20N	28E	31	SW NE	Eastern Petroleum	03 AnconSantaFe	1972/05	D	1709	5866 DF	1280	Triassic Moenkopi
1-91	20N	28E	31	SE NW	Eastern Petroleum	21 Ancon	1963/08	D	N/A	5860 GL	1220	Triassic Shinarump
537	20N	28E	31	NW NW	Eastern Petroleum	21-1A Santa Fe	1970/09	HP	1626	5839 GL	1232	Permian Coconino
1-74	20N	28E	33	SE SE	Duval	23 Santa Fe	1964/04	S	1319	5945 KB	2068	Permian Coconino
600	20N	29E	29	NW SE	Eastern Petroleum	01 SantaFeBeaco	1972/10	D	1714	6167 GL	1265	Permian Coconino
406	20N	29E	29	SW SW	Kerr-McGee	04 Santa Fe	1967/05	S	N/A	6138 GL	1113	Permian Coconino
1-75	20N	29E	31	NE NW	Duval	17A Santa Fe	1964/03	S	1324	6100 GL	1916	Permian Supai
231	21N	18E	35	SW NW	Peak Petroleum	1 NMAL	1963/07	S	1268	5474 KB	1350	Permian Coconino
505	21N	25E	25	NE SW	Thoureen, O.R.	1 Navajo	1969/10	D	1484	5866 GL	1272	Permian Coconino
504	21N	26E	27	NE SW	Thoureen, O.R.	1 Santa Fe	1969/08	D	1488	5871 GL	1235	Permian Coconino
107	21N	26E	35	SE NW	Eastern Petroleum	01 Santa Fe	1960/03	S	617	6060 GL	1616	Permian Coconino
842	21N	27E	13	SW SW	High Plains Petro	1-13 Santa Fe	1983/08	D	1855	5835 GL	1456	Permian Supai
829	21N	27E	24	NW NW	Gustin, Cecil	1-24 Federal	1982/10	D	N/A	5818 GL	1429	Permian Supai
568	21N	28E	15	NE SW	Eastern Petroleum	02 SantaFe-San.	1972/03	D	N/A	5945 GL	516	Permian Coconino
567	21N	28E	21	NE SW	Eastern Petroleum	01 SantaFe-Cham	1971/10	D	1691	5797 GL	940	Permian Coconino
90	21N	28E	22	SW NE	Kerr-McGee	01 Natoni	1959/07	D	397	5837 KB	460	Permian Coconino
227	21N	28E	25	NE SW	Eastern Petroleum	23 Santa Fe	1963/05	D	N/A	5837 GL	590	Permian Coconino
84	21N	28E	26	NW NW	Brown & Associates	3 Chambers-San.	1959/06	D	N/A	5808 DF	580	Permian Coconino
74	21N	28E	27	SW NE	Brown & Associates	2 Chambers-San.	1959/06	D	658	5816 DF	2135	Precambrian granite
70	21N	28E	28	NE NE	Brown & Associates	1 Chambers-San.	1959/04	D	661	5786 DF	1322	Permian Supai
218	21N	29E	31	SW NE	Eastern Petroleum	16 Santa Fe	1962/11	D	N/A	6085 GL	828	Permian Coconino
3-02	22N	10E	03	SW NE	Flagstaff Assoc.	1 Joe Kellum	1951/	D	72	5588 GL	2278	Mississippian Redwall
1-76	23N	30E	24	NW NW	Hogback Oil	1 Tufts	1927/05	D	N/A	7210 GL	1510	Precambrian granite
ww180	25N	02E	27	NW NE	Black Mesa Pipe.	01 Station 3	1969/12	WW	N/A	6165 GL	3685	Cambrian Tapeats
307	26N	16E	15	NW NW	Texaco	1 Hopi-A	1965/05	D	1366	5547 KB	5915	Precambrian metamorphic
3-03	27N	09E	15	SW SW	Barron-Steele	1 Babbitt	1948/07	D	119	5093 GL	2165	Permian Supai
922	27N	09E	09	NE SW	McCabe Energy	1 Babbitt	2005/08	D	1907	5054 GL	3445	Cambrian Tapeats
914	27N	09E	15	SW NW	Clayton Williams	1 Babbitt	2003/12	D	1900	5068 GL	4350	Precambrian granite
3-04	27N	09E	21	NE NE	Lockhart, L.M.	1 Babbitt	1949/02	D	48	5096 GL	3624	Precambrian Sixtymile ?
312	28N	15E	09	SW SE	Atlantic Refining	9-1 Hopi	1965/07	D	1358	5820 KB	6640	Precambrian granite
474	29N	14E	11	NW NW	Pennzoil	1-11 Hopi	1968/12	D	1457	5650 KB	6940	Precambrian granite

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PERMT	TWP	RGE	SE	LOC	OPERATOR	LEASE & NO.	DATE	ST	SAMP	ELEV	TD	FORMATION AT TD
321	29N	15E	06	NW NW	Moore Moore Miller	1 Hopi	1965/10	D	1797	5648 KB	6998	Precambrian metamorphic
310	29N	19E	08	SE NE	Amerada Petroleum	1 Hopi	1965/05	D	1370	6183 KB	7750	Precambrian granite
510	29N	24E	21	SE NW	Gulf Oil	1 Navajo-CZ	1969/08	D	1576	6175 KB	4552	Precambrian granite
309	30N	17E	35	SW NE	Skelly Oil	1 Hopi-A	1965/05	D	1355	6119 KB	7780	Precambrian granite
1-77	31N	23E	03	SW NE	Amerada Petroleum	1 Black Mtn-Nav	1950/10	D	70	6333 KB	5766	Precambrian granite
3-05	34N	08E	35	NE SE	Collins-Cobb	1X Natoine-Nav.	1947/	D	1871	5781 GL	3440	Precambrian?
438	34N	28E	04	SE SW	Gulf Oil	1-04 Navajo	1967/11	D	N/A	6509 KB	2681	Precambrian metamorphic
308	35N	22E	02	NE NW	Tenneco Oil	1 Navajo	1965/04	D	1341	6111 KB	6754	Cambrian Tapeats
526	35N	27E	31	NE NE	Buttes Gas & Oil	1-31 Navajo	1969/12	D	1602	5880 KB	2482	Precambrian granite
354	35N	28E	05	SW NW	Buttes Gas & Oil	1 Navajo	1966/08	D	1371	5835 KB	3030	Precambrian metamorphic
461	35N	28E	25	SE SE	Buttes Gas & Oil	1-25 Navajo	1968/06	D	1454	6359 KB	3000	Precambrian metamorphic
463	35N	29E	01	SE NE	Pan American Pet.	1 Navajo-AE	1968/07	D	1450	8576 KB	5742	Miss Mooney Falls
594	35N	29E	15	NW NE	Eastern Petroleum	01 Chuska Navaj	1972/08	D	1702	6791 KB	3394	Miss Mooney Falls
478	35N	29E	25	SW SW	Little/Richardson	1 Tohtoso-Nav.	1968/12	D	1506	7076 KB	3867	Precambrian diorite
395	35N	30E	03	NW NW	Anadarko Prod.	1 Navajo-135	1967/05	D	1392	8143 KB	4242	Precambrian granite
525	35N	30E	04	NW NW	Mesa Petroleum	1 Navajo-B	1970/01	D	1605	8433 KB	3972	Pennsylvanian Hermosa
381	35N	30E	05	SE NW	Mtn States Pet(KM)	01 Navajo-B	1967/12	D	1431	8503 KB	4130	Miss Thunder Springs
445	35N	30E	05	NW NW	Mtn States Pet(KM)	01X Navajo-B	1968/01	OS	1449	7741 KB	3165	Pennsylvanian Hermosa
385	35N	30E	05	SE NE	Mtn States Pet(KM)	02 Navajo-B	1967/05	HS	N/A	8509 KB	4565	Precambrian granite
400	35N	30E	06	SE SE	Humble Oil & Rfng	2 Navajo-138	1970/06	D	1425	8374 KB	4607	Miss Mooney Falls
388	35N	30E	06	SE NE	Mtn States Pet(Hu)	01 Navajo-138	1967/05	O	1446	8278 KB	4280	Precambrian granite
723	35N	30E	06	NW NE	Mtn States Pet(KM)	03 Navajo-138	1981/07	O	1827	8576 KB	4100	Pennsylvanian Hermosa
393	35N	30E	08	SE NE	Humble Oil & Rfng	1 Navajo-140	1969/10	D	1424	8635 KB	4854	Precambrian basic igneou
501	35N	30E	10	SW NW	Odessa Natural Gas	1 Aircodessa	1969/07	D	1483	9310 KB	4978	Devonian McCracken
426	35N	30E	14	NE NE	Kerr-McGee	01 Navajo-H	1967/09	D	1434	9044 KB	5345	Precambrian metamorphic
452	35N	30E	15	SE SW	Humble Oil & Rfng	1 Navajo-146	1969/10	D	N/A	8775 KB	4213	Precambrian granite
454	35N	30E	35	SE NE	Humble Oil & Rfng	1 Navajo-151	1969/10	D	1447	8793 KB	3963	Precambrian granite
574	36N	18E	20	SE SW	Walker & Petrofund	1 Navajo	1971/12	D	N/A	6458 GL	1270	Cretaceous Dakota
580	36N	18E	20	SE SW	Walker & Petrofund	1A Navajo	1972/05	D	1694	6458 GL	1258	Cretaceous Dakota
325	36N	22E	14	NW NW	Cactus Drilling	1 Navajo	1965/10	D	1346	5923 KB	6689	Precambrian granite
345	36N	24E	23	SW NE	Cactus Drilling	1 Navajo	1966/04	D	1368	5604 KB	5720	Precambrian metamorphic
494	36N	27E	30	SW NW	Riddle & Gottlieb	1 Navajo	1969/05	D	1482	5363 KB	3460	Miss Horseshoe Mesa
435	36N	27E	30	SE SW	Simmons, D.J.	1 Navajo	1968/01	D	N/A	5403 KB	3313	Devonian Aneth
612	36N	28E	03	NE NW	American Fuels	1 Navajo-O	1974/11	D	1783	6320 KB	3950	Mississippian
300	36N	28E	06	NW NW	Blackburn, W.T.	06-1 Navajo	1964/12	D	1298	5993 KB	4347	Precambrian metamorphic
549	36N	29E	04	SE SE	Union Oil	1-P04 Navajo	1971/03	D	1658	6584 KB	3022	Miss Mooney Falls
519	36N	29E	11	SE SW	Union Oil	1-N11 Navajo	1969/11	D	1612	7197 KB	3896	Precambrian granite
522	36N	29E	17	SW SW	Union Oil	1-M17 Navajo	1969/12	D	1611	7705 KB	5057	Mississippian
401	36N	29E	23	SE NE	Humble Oil & Rfng	1 Navajo-087	1969/10	D	1438	8980 KB	5505	Precambrian granite
427	36N	29E	24	SE SE	Kerr-McGee	01 Navajo-F	1969/07	D	N/A	8499 KB	4465	Miss Thunder Springs
447	36N	29E	25	SE NW	Kerr-McGee (Humble	04 Navajo-88	1974/08	PW	1441	8670 KB	4500	Miss Thunder Springs
421	36N	29E	25	SE SE	Mtn States Pet(Hu)	01 Navajo-88	1969/05	OS	1445	8175 KB	3850	Miss Whitmore Wash
431	36N	29E	25	SE NE	Mtn States Pet(Hu)	02 Navajo-88	1967/11	OS	1442	8512 KB	4821	Precambrian granite
722	36N	29E	25	NW SE	Mtn States Pet(KM)	06 Navajo-88	1981/09	OS	1828	8591 KB	4439	Pennsylvanian Hermosa
595	36N	29E	32	SW SE	Eastern Petroleum	02 ChuskaNav122	1972/09	D	1703	6530 KB	3240	Pennsylvanian Paradox
443	36N	29E	36	SE NE	Mtn States Pet(Hu)	03 Navajo-88	1968/04	OS	1440	8334 KB	3875	Miss Thunder Springs
545	36N	30E	06	NW SW	Union Texas Pet.	1-06 Navajo	1970/09	D	1618	6620 KB	3610	Miss Mooney Falls?
651	36N	30E	19	SE SW	Beta Exploration	2X Navajo-E	1975/08	D	1745	8634 KB	4677	Mississippian
517	36N	30E	19	SE SW	Continental Energy	2X Navajo-E	1969/10	D	1610	8620 GL	2170	Permian Coconino
571	36N	30E	19	SE SW	Republic Mineral	2X Navajo-E	1971/11	D	1680	8633 KB	4449	Pennsylvanian Paradox
616	36N	30E	19	SE SW	Zoller & Danneberg	2X Navajo-E	1973/08	D	N/A	8620 GL	4449	Pennsylvanian Paradox
398	36N	30E	20	SE SE	Kerr-McGee	01 Navajo-E	1968/01	D	N/A	7027 KB	3868	Precambrian granite
441	36N	30E	20	SE SE	Kerr-McGee	01 Navajo-E	1968/01	PW	N/A	7027 KB	3868	Precambrian granite
391	36N	30E	29	SE SE	Kerr-McGee	08 Navajo	1967/07	D	1421	7177 KB	3660	Precambrian granite

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PERMT	TWP	RGE	SE	LOC	OPERATOR	LEASE & NO.	DATE	ST	SAMP	ELEV	TD	FORMATION AT TD
694	36N	30E	29	NW SW	Kerr-McGee	23 Navajo	1978/12	OP	1805	7445 KB	3180	Pennsylvanian Hermosa
389	36N	30E	29	SE SW	Mtn States Pet(KM)	07 Navajo	1967/04	OS	1394	7508 KB	3270	Pennsylvanian Hermosa
396	36N	30E	30	SE SE	Mtn States Pet(KM)	09 Navajo	1967/05	OS	1418	7894 KB	3720	Miss Whitmore Wash
446	36N	30E	30	SE NE	Mtn States Pet(KM)	10 Navajo	1968/02	OW	1433	7370 KB	3868	Precambrian granite
417	36N	30E	30	SE SW	Mtn States Pet(KM)	15 Navajo	1967/09	OS	1419	7697 KB	3246	Pennsylvanian Hermosa
419	36N	30E	30	SE NW	Mtn States Pet(KM)	16 Navajo	1967/08	OS	1420	7571 KB	3221	Pennsylvanian Hermosa
693	36N	30E	30	NW SE	Mtn States Pet(KM)	21 Navajo	1978/09	O	1800	7515 KB	3264	Pennsylvanian Hermosa
692	36N	30E	30	NW SW	Mtn States Pet(KM)	22 Navajo	1978/08	O	1801	7642 KB	3300	Pennsylvanian Hermosa
392	36N	30E	31	SE SE	Kerr-McGee	05 Navajo	1967/07	D	N/A	8534 KB	4620	Precambrian
420	36N	30E	31	SE SW	Kerr-McGee	13 Navajo	1967/09	OP	N/A	8919 KB	4444	Miss Mooney Falls
390	36N	30E	31	SE NE	Mtn States Pet(KM)	06 Navajo	1967/07	O	1432	8345 KB	3835	Pennsylvanian Hermosa
416	36N	30E	31	SE NW	Mtn States Pet(KM)	14 Navajo	1967/07	O	N/A	8568 KB	3920	Pennsylvanian Hermosa
618	36N	30E	31	NW SE	Mtn States Pet(KM)	17 Navajo	1974/02	OS	N/A	8633 KB	4008	Pennsylvanian Paradox
691	36N	30E	31	NW NE	Mtn States Pet(KM)	19 Navajo	1978/10	O	1802	8544 KB	4075	Pennsylvanian Hermosa
696	36N	30E	31	NW NW	Mtn States Pet(KM)	20 Navajo	1978/12	O	1804	8480 KB	3980	Pennsylvanian Hermosa
719	36N	30E	31	NE NW	Mtn States Pet(KM)	25 Navajo	1981/10	O	1824	8510 KB	4024	Pennsylvanian Hermosa
720	36N	30E	31	NW SW	Mtn States Pet(KM)	26 Navajo	1981/11	O	1825	8888 KB	4469	Pennsylvanian Hermosa
721	36N	30E	31	NE SE	Mtn States Pet(KM)	27 Navajo	1981/08	O	1826	8554 KB	4015	Pennsylvanian Hermosa
379	36N	30E	32	SE NW	Kerr-McGee	02 Navajo	1967/03	OP	1393	7614 KB	3275	Pennsylvanian Hermosa
380	36N	30E	32	SE SE	Kerr-McGee	03 Navajo	1967/03	D	1415	8017 GL	1853	Permian Cutler
690	36N	30E	32	NW NE	Kerr-McGee	18 Navajo	1978/11	OP	1803	7355 KB	2954	Pennsylvanian Hermosa
303	36N	30E	32	SE SW	Mtn States Pet(KM)	01 Navajo	1965/06	D	N/A	7573 KB	3864	Penn Hermosa (Tert. sill)
377	36N	30E	32	SE SW	Mtn States Pet(KM)	01 Navajo	1967/02	O	1357	7573 KB	3050	Penn Hermosa (Tert. sill)
386	36N	30E	32	SE SE	Mtn States Pet(KM)	03X Navajo	1967/04	OS	1395	8002 KB	3600	Pennsylvanian Hermosa
384	36N	30E	32	SE NE	Mtn States Pet(KM)	04 Navajo	1967/07	OS	1417	7374 KB	2960	Pennsylvanian Hermosa
506	36N	30E	32	NW SE	Mtn States Pet(KM)	11 Navajo	1969/08	O	1503	7413 KB	2893	Penn Hermosa (Tert. sill)
695	36N	30E	32	NW NW	Mtn States Pet(KM)	24 Navajo	1978/11	O	1806	7876 KB	3515	Pennsylvanian Hermosa
484	36N	30E	33	NW SW	Mtn States Pet(KM)	01 Navajo-C	1969/06	OS	1464	7952 KB	3590	Pennsylvanian Hermosa
422	36N	30E	33	SE NW	Mtn States Pet(KM)	02 Navajo-C	1967/09	HS	1435	7981 KB	4371	Precambrian granite
3-06	37N	14E	28	N2 NE	Sinclair Oil & Gas	1 Navajo	1952/10	D	114	6620 DF	7210	Cambrian Tapeats
455	37N	25E	04	NW SE	Champlin Petroleum	1 Navajo	1968/04	D	N/A	5205 KB	5268	Precambrian quartzite
311	37N	27E	08	SE SE	Blackburn, W.T.	08-1 Navajo	1965/05	D	1362	5539 DF	4986	N/A
476	37N	27E	23	SE SE	Buttes Gas & Oil	1-23 Navajo	1968/11	D	1480	5791 KB	3800	Miss Whitmore Wash
520	37N	28E	24	NE SE	Buttes Gas & Oil	1-24 Navajo	1969/11	D	1603	6677 KB	3920	Miss Mooney Falls
538	37N	28E	32	NW NE	Little, Curtis J.	1 Aircodessa	1970/06	D	1624	6205 KB	3949	Miss Mooney Falls
491	37N	29E	12	NW NE	Gulf Oil	1 Navajo-BS	1969/05	D	1574	5985 KB	4145	Precambrian granite
544	37N	29E	14	NE SW	Little, Curtis J.	1-14 Lukachukai	1970/09	D	1617	6220 KB	3700	Mississippian
575	37N	29E	16	NE NE	Little, Curtis J.	1-16 Navajo	1971/12	D	1684	6356 KB	3938	Pennsylvanian Molas
590	37N	29E	16	NW SE	St. Mary Parish	2-16 Tseh-Nav.	1972/08	D	1700	6403 KB	3774	Pennsylvanian Paradox
563	37N	29E	22	NW NW	Little, Curtis J.	1-22 Tsegeh.Nav	1971/09	D	1676	6451 KB	3765	Mississippian?
489	37N	29E	33	SE SE	Odessa Natural Gas	1 Aircodessa	1969/04	D	1475	6440 KB	3605	Precambrian granite
298	37N	29E	35	NW NW	Blackburn, W.T.	35-1 Navajo	1964/12	D	1278	6257 KB	3657	N/A
591	37N	30E	30	NE SW	St. Mary Parish	1-30 Ghee-Nav.	1972/09	D	1710	6023 KB	3198	Pennsylvanian Paradox
507	37N	30E	34	NE NE	Gulf Oil	1 Navajo-CS	1969/07	D	1573	6057 KB	4600	Precambrian granite
283	38N	19E	24	SE SW	Tenneco Oil	1 Navajo	1964/07	D	1286	5865 KB	7400	Precambrian granite
281	38N	21E	29	NE NW	Superior Oil	21-29 Navajo-W	1964/07	D	1367	5561 KB	7207	Precambrian granite
433	38N	22E	01	NW NW	McCulloch Oil	1-1 Navajo	1967/11	D	1426	5654 KB	5846	Pennsylvanian Molas
593	38N	23E	13	SE SE	Tesoro Petroleum	1 Navajo-Davis	1972/09	D	1708	5278 KB	5547	Miss Thunder Springs
424	38N	24E	28	SW NW	American Mining	1 Navajo	1967/11	D	1430	5433 DF	5807	Devonian
698	38N	24E	29	SW SE	Excel Energy	29-1 Navajo	1979/05	D	1807	5400 KB	6020	Precambrian granite
280	38N	27E	20	SE SE	Pan American Pet.	1 Navajo-T	1964/06	D	1282	6258 KB	5870	Precambrian granite
415	38N	29E	16	NE SE	Pan American Pet.	1 Navajo-V	1967/07	D	1422	6595 KB	4445	Pennsylvanian (Tert sill)
497	38N	30E	02	NW NW	Depco	4-2 Navajo	1969/06	D	1486	6324 KB	5012	Devonian (Tert. sill)
468	38N	30E	12	SE NW	Pan American Pet.	1 Navajo-AF	1968/09	D	1448	5881 KB	4809	Miss Whitmore Wash

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PERMT	TWP	RGE	SE	LOC	OPERATOR	LEASE & NO.	DATE	ST	SAMP	ELEV	TD	FORMATION AT TD
423	38N	30E	18	NW NW	Skelly Oil	1 Navajo-Q	1967/09	D	1452	6713 KB	5373	Devonian McCracken
316	38N	30E	32	NE SE	Pure Oil	1 Sun Nav. 103	1965/06	D	1369	5922 KB	4404	Devonian (Tert. sill)
275	39N	02E	32	NE NE	Underwood, Rip C.	1-32 Jacob Lake	1964/05	D	1246	7680 KB	3868	Cambrian Bright Angel
270	39N	21E	36	NE NW	Texaco	1 Navajo-AM	1964/04	D	1283	5516 KB	7182	Precambrian
292	39N	23E	12	SE NW	Superior Oil	22-12 Navajo-V	1964/11	D	1476	5228 KB	6468	Precambrian
265	39N	23E	12	NW SE	Superior Oil	33-12 Navajo-V	1964/05	D	N/A	5232 KB	6325	Precambrian
412	39N	23E	24	NW SW	Horizon Oil & Gas	1-24 Nav.-Mobil	1967/07	D	N/A	5237 KB	6452	Precambrian metamorphic
297	39N	24E	07	SE SE	Amerada Petroleum	1 Navajo-91	1964/12	D	1299	5195 KB	6573	Cambrian Tapeats
382	39N	25E	16	NW NW	J.C.M. Drilling	1 Navajo-Mobil	1967/04	D	1385	5043 KB	6031	Precambrian metamorphic
272	39N	25E	28	SE NW	Socony Mobil Oil	1 Navajo-155	1964/04	D	1552	4982 KB	5644	Precambrian metamorphic
305	39N	26E	19	NW SW	Cactus Drilling	1 Nav.-Rock Pt.	1965/02	D	N/A	5375 KB	6197	Precambrian quartzite
503	39N	29E	01	SE SE	Monsanto Carrizo	1 Navajo	1969/10	D	1487	8914 KB	8461	Devonian Ouray - igneous
467	39N	30E	01	SE SE	Odessa Natural Gas	1 Aircodessa	1968/08	D	1444	6650 KB	2317	Triassic Moenkopi-igneous
856	40N	02E	21	SE SE	Medallion Oil	1-21 Federal	1986/09	D	1860	7117 GL	4016	Cambrian Muav
247	40N	24E	08	NE SW	Pan American Pet.	1 Navajo-Q	1963/11	D	1285	5116 KB	6617	Cambrian
271	40N	25E	06	NE NE	Texaco	1 Navajo-AK	1964/04	D	1284	5016 KB	6750	Cambrian Tapeats
60	40N	25E	11	NE SE	Pan American Pet.	1 Tohlacon-Nav.	1958/12	D	377	5308 KB	6598	Precambrian metamorphic
95	40N	26E	20	SE SE	Texas Pacific Coal	1 Navajo-190	1959/11	D	1660	5322 KB	6424	Cambrian Tapeats?
145	40N	26E	30	NW NW	Bonanza Oil	1 Navajo	1961/07	D	651	5346 KB	6515	Precambrian metamorphic
261	40N	27E	06	NW NW	Occidental Pet.	1 Texaco-Navajo	1964/02	D	1245	5294 KB	6795	Cambrian Tapeats
213	40N	28E	01	SW SW	Dry Mesa(Pure Oil)	5 Navajo-138	1999/11	GP	684	5926 KB	5640	Miss Whitmore Wash?
115	40N	28E	02	SW SE	Dry Mesa(Monsanto)	3 Navajo-138	1960/07	G	618	5688 KB	5411	Miss Whitmore Wash
852	40N	28E	02	NE SW	Dry Mesa(Monsanto)	6 Navajo-138	1985/08	GS	1857	5697 GL	5525	Devonian
179	40N	28E	06	NW SW	Pan American Pet.	1 Navajo-F	1962/07	OP	693	6595 KB	7359	Precambrian quartzite
513	40N	28E	09	NW NW	Little, Curtis J.	1 W DryMesa Nav	1969/10	D	1502	5849 KB	6002	Precambrian quartzite
77	40N	28E	11	NE NE	Dry Mesa(Monsanto)	1 Navajo-138	1959/07	OW	380	5953 KB	6080	Precambrian quartzite
116	40N	28E	11	NE NW	Texas Pacific Coal	4 Navajo-138	1960/10	D	610	5960 KB	5800	Precambrian quartzite
907	40N	28E	12	NW SE	Coleman Oil & Gas	10 Navajo-138	1998/12	G	1895	5706 KB	5170	Pennsylvanian Molas
106	40N	28E	12	SW NW	Dry Mesa(Tex Pacf)	2 Navajo-138	1960/05	GP	615	5980 KB	5771	Precambrian quartzite
628	40N	28E	16	SE NW	Fee Oil & Gas	1 Navajo	1974/12	D	N/A	5776 KB	6339	Precambrian quartzite
138	40N	28E	17	NW NE	Western States Pet	2 Navajo	1960/12	D	660	5762 KB	6341	Precambrian quartzite
94	40N	28E	18	NW NW	LaRue, E.B. Jr.	1 Navajo	1959/10	D	1672	5592 KB	6916	Precambrian quartzite
610	40N	29E	06	SW SW	Chuska (Am. Fuels)	4Blkrk (1Nav-C)	1973/10	D	N/A	5583 GL	6534	Precambrian quartzite
146	40N	29E	07	SE SE	Atlantic Refining	7-1 Navajo	1961/07	OP	652	6029 KB	5785	Precambrian quartzite
875	40N	29E	07	NW SW	Chuska Energy Co.	12 Black Rock	1993/08	G	N/A	5679 GL	5230	Mississippian
882	40N	29E	07	SE SE	Harken Southwest	20 Black Rock	1995/06	G	N/A	5990 GL	5432	Pennsylvanian Molas
717	40N	29E	07	SW SE	Kenai Oil & Gas	34-7 Navajo	1981/03	OP	1819	5982 KB	5639	Mississippian
608	40N	29E	09	SE SW	American Fuels	1 Navajo-B	1973/07	OP	1782	5907 KB	5865	Pennsylvanian Molas
176	40N	29E	15	NE SW	Pan American Pet.	1 Moko-Navajo	1962/04	D	695	6076 KB	5868	Precambrian quartzite
598	40N	29E	15	SW SW	Universal Resource	1-15 Navajo	1973/01	D	1713	6148 KB	5775	Miss Thunder Springs?
581	40N	29E	16	SE NW	Chuska (CSO)	3Blakrk(1Nav-C)	1972/07	G	1697	6104 KB	5753	Miss Thunder Springs?
868	40N	29E	16	SW SW	Chuska Energy Co.	05 Black Rock	1990/03	G	1868	6660 GL	6132	Mississippian
615	40N	29E	17	NE NE	Chuska (Am. Fuels)	2Blkrk (1NavAC)	1973/07	GP	1784	6150 KB	6163	Precambrian quartzite
870	40N	29E	17	NE SW	Chuska Energy Co.	07 Black Rock	1990/05	JA	N/A	6695 GL	151	Recent colluvium
881	40N	29E	17	NE SW	Harken Southwest	07X Black Rock	1995/05	JA	N/A	6695 GL	40	Recent colluvium
871	40N	29E	18	NE NE	Chuska Energy Co.	08 Black Rock	1990/03	GS	1869	6225 GL	5940	Pennsylvanian Molas
274	40N	29E	18	NE SE	Marathon Oil	1 Navajo	1964/05	D	1256	6604 KB	6262	Miss Thunder Springs
559	40N	29E	21	SE NE	Chuska (CSO)	1Blakrk(1Nav-A)	1971/09	GS	1678	6396 KB	6111	Miss Thunder Springs
873	40N	29E	22	SE NE	Chuska Energy Co.	10 Black Rock	1993/08	D	N/A	6745 GL	6230	Mississippian
566	40N	29E	27	SW NE	Cities Service	01 Monsnto-NavB	1971/12	D	1692	7289 KB	7150	Precambrian quartzite
546	40N	30E	02	NW SE	Depco	1-2 Navajo	1970/09	D	1613	5383 KB	7230	Precambrian granite
105	40N	30E	05	SW SW	Brit.-American Oil	1 Navajo-C	1960/04	D	619	5545 KB	6419	Precambrian metamorphic
814	41N	01E	19	SW NW	Shields Explr. Co.	01-19 Federal	1982/09	D	1852	5025 GL	420	Permian Kaibab
814	41N	01E	19	SW NW	Shields Explr. Co.	01-19A Federal	1988/03	D	1852	5025 GL	650	Permian Toroweap

NORTHEAST

PERMT	TWP	RGE	SE	LOC	OPERATOR	LEASE & NO.	DATE	ST	SAMP	ELEV	TD	FORMATION AT TD
853	41N	01E	19	SW NW	Shields Explr. Co.	02-19 Federal	1984/12	D	1870	5016 GL	3756	Cambrian Muav
831	41N	02E	13	SE NE	Gary Drilling	1-13 Buckskin	1982/10	D	1843	6560 GL	700	Permian Toroweap?
290	41N	22E	12	NW SW	Occidental Pet.	1 Monument-Nav.	1964/10	D	1361	4844 KB	3029	Cambrian
1-78	41N	23E	07	NW SW	San Juan Oil & Dev	1 Gypsum Creek	1924/06	D	N/A	4881 DF	2083	Mississippian
248	41N	24E	16	NE NE	Gulf Oil	1 Garnet Ridge	1964/01	D	1264	5176 KB	6769	Cambrian?
226	41N	25E	16	NW SE	Texaco	1 Navajo-AG	1963/05	OP	704	4870 KB	6615	Precambrian metamorphic
295	41N	25E	17	NE NE	Great Western Drlg	2 El Paso-Nav	1964/11	D	1279	4860 KB	6457	Cambrian?
245	41N	25E	20	NE NE	Great Western Drlg	1 El Paso Nav.	1963/10	D	1276	4874 KB	7099	Precambrian metamorphic
266	41N	25E	21	NW NE	Texaco	2 Navajo-AG	1964/03	PW	1288	4868 KB	6781	Precambrian metamorphic
165	41N	26E	23	NW NW	LaRue, E.B. Jr.	1 Dinne	1961/11	D	690	5505 KB	6332	Pennsylvanian Molas
50	41N	26E	28	SW SE	Gulf Oil	1 British Amer	1958/03	D	366	5204 KB	6421	Devonian Aneth
260	41N	26E	31	SW SW	MacDonald Oil	1 Navajo	1963/12	D	1267	5125 KB	6500	Devonian Aneth
304	41N	26E	33	SW SW	Tenneco Oil	1 Navajo	1965/02	D	1280	5258 KB	6606	Precambrian?
166	41N	27E	22	NE NE	LaRue, E.B. Jr.	2 Dinne	1961/11	D	659	5454 DF	6260	Pennsylvanian Molas
31	41N	27E	29	NE NW	Hancock Oil	29-1 Dinne-Nav.	1956/07	D	178	5666 KB	6500	Devonian Ouray
528	41N	28E	01	SW SW	Consolidated Oil	1-1 Navajo	1970/03	D	1615	5710 KB	6156	Miss Horseshoe Mesa
481	41N	28E	02	SW SW	Consolidated Oil	2-13 Navajo	1969/07	PW	1461	5375 KB	5900	Miss Whitmore Wash?
514	41N	28E	03	SW SW	Merrion (Consolid)	3-03 Navajo	1994/08	OP	1504	5395 KB	4855	Pennsylvanian
490	41N	28E	03	NE SW	Merrion (Consolid)	3-11 Navajo	1969/05	OS	1470	5343 KB	5708	Mississippian
22	41N	28E	03	SE NW	Merrion (Shell)	2 Navajo	1954/12	OS	1537	5307 KB	6339	Cambrian
28	41N	28E	04	NE SE	Merrion (Humble)	1 Navajo	1955/11	OS	N/A	5375 KB	6382	Cambrian?
515	41N	28E	04	SW SE	Merrion (Humble)	3 Navajo	1969/11	OW	1489	5410 KB	5010	Pennsylvanian Akah
558	41N	28E	05	NW NE	AAA Fishing Tool	1 Cody Bros-Nav	1971/12	D	N/A	5430 GL	4563	Pennsylvanian Hermosa
508	41N	28E	05	SE SE	Globe Minerals	1 Navajo	1969/07	D	1491	5455 KB	5700	Pennsylvanian
118	41N	28E	05	NW NE	Humble Oil & Rfng	2 Navajo	1960/08	D	N/A	5442 KB	6260	Mississippian
511	41N	28E	09	NW NE	Ari-Mex (AAA)	1 Navajo-E	1969/11	OP	1623	5413 KB	5000	Pennsylvanian Akah
483	41N	28E	09	NE NE	Ari-Mex (Globe)	3 Navajo-E	1969/06	OP	1497	5410 KB	5173	Pennsylvanian Akah
509	41N	28E	09	NE NW	Ari-Mex (Globe)	4 Navajo-E	1969/08	OP	1498	5559 KB	5225	Pennsylvanian Akah
65	41N	28E	09	SW NE	Humble Oil & Rfng	2 Navajo-E	1958/12	D	1791	5536 KB	6520	Devonian Elbert?
444	41N	28E	09	SW NE	Merrion (Humble)	2 Navajo-E	1967/12	PW	N/A	5537 KB	6520	Devonian Elbert?
58	41N	28E	10	SW NE	Merrion (Humble)	1 Navajo-E	1958/10	OP	333	5500 KB	5410	Pennsylvanian Paradox
518	41N	28E	11	SW NW	Merrion (Consolid)	2-11 Navajo	1969/11	OP	1494	5486 KB	5057	Pennsylvanian
69	41N	28E	11	NE SW	Merrion (Shell)	23-11 Navajo	1959/05	OP	378	5437 KB	5513	Pennsylvanian
32	41N	28E	22	SW NW	Merrion(Franco-Wst	1 Navajo	1956/08	GP	181	5446 KB	5902	Mississippian
205	41N	28E	27	SE NW	Franco Western Oil	2 Navajo	1962/09	D	692	5494 KB	6259	Devonian
613	41N	28E	31	SE SW	American Fuels	1 Navajo-E	1973/07	TA	1781	6598 KB	7635	Mississippian
367	41N	29E	03	SE NE	Champlin Petroleum	1 Navajo-190	1966/12	D	1380	5208 KB	5287	Pennsylvanian Desert Crk
434	41N	29E	04	NE SE	Champlin Petroleum	1 Navajo-335	1968/04	D	1423	5218 KB	6173	Miss Thunder Springs
18	41N	29E	06	SE SE	Shell Oil	1 Navajo	1954/03	D	1661	5248 KB	6490	Cambrian Tapeats
168	41N	29E	22	NE NE	LaRue, E.B. Jr.	1 Toh Atin	1961/12	D	696	5336 KB	6301	Miss Thunder Springs
139	41N	29E	29	SE SE	Davis Oil	1 Navajo-C	1961/02	D	607	5445 KB	6749	Devonian Aneth
44	41N	30E	10	NW SW	Superior Oil	01 Navajo-H	1957/10	D	334	4885 KB	6317	Mississippian
1-79	41N	30E	11	SE NE	El Paso Nat. Gas	10 Navajo	1956/03	S	191	4803 GL	467	Jurassic Morrison?
299	41N	30E	13	SE SE	Duncan, Walter	1 El Paso-Nav.	1964/11	D	1287	5044 KB	5400	Pennsylvanian Akah
1-80	41N	30E	13	SW NE	El Paso Nat. Gas	01 Navajo	1956/02	S	1513	5113 KB	750	Triassic
609	41N	30E	16	SE SW	American Fuels	1 Navajo-M	1973/08	D	N/A	5095 KB	5832	Pennsylvanian Molas
46	41N	30E	16	SW SW	Superior Oil	02 Navajo-H	1959/01	GP	376	5126 KB	6787	Cambrian
128	41N	30E	21	NE SW	Superior Oil	23-21 Navajo-M	1960/11	D	616	5155 KB	5991	Miss Horseshoe Mesa
801	41N	30E	22	SE NE	Mt. State Resource	12 Navajo-O	1982/05	OP	1832	4954 KB	5155	Pennsylvanian Desert Crk
834	41N	30E	22	SE SE	Mt. State Resource	16 Navajo-O	1983/01	OP	1845	4992 KB	5200	Pennsylvanian Desert Crk
843	41N	30E	22	NE SW	Mt. State Resource	18 Navajo-O	1984/01	D	1854	4981 GL	5200	Pennsylvanian Desert Crk
582	41N	30E	23	NW SE	Dry Mesa(Clinton)	2 Navajo-O	1972/09	PW	1711	5190 KB	5855	Pennsylvanian Molas
640	41N	30E	23	SW SW	Dry Mesa(Clinton)	3 Navajo-O	1975/05	OP	1774	5177 KB	5326	Pennsylvanian Desert Crk
663	41N	30E	23	SW SE	Dry Mesa(En Rs Gp)	4 Navajo-O	1976/12	OP	N/A	5246 KB	5440	Pennsylvanian Desert Crk

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PERMT	TWP	RGE	SE	LOC	OPERATOR	LEASE & NO.	DATE	ST	SAMP	ELEV	TD	FORMATION AT TD
232	41N	30E	23	SE SW	Dry Mesa(Pan Amer)	1 Navajo-O	1963/06	OP	1512	5088 KB	6805	Precambrian metamorphic
683	41N	30E	25	SW NW	Dry Mesa(En Rs Gp)	6 Navajo-O	1978/01	D	1798	5156 KB	5458	Pennsylvanian Akah
686	41N	30E	25	NE SW	Energy Reserve Gp.	7 Navajo-O	1977/11	D	1810	5420 KB	5830	Pennsylvanian Akah
678	41N	30E	26	NE NE	Dry Mesa(En Rs Gp)	5 Navajo-O	1977/11	OP	1785	5523 KB	5791	Pennsylvanian Akah
1-81	41N	30E	26	SE NE	El Paso Nat. Gas	08 Navajo	1956/03	S	187	5229 KB	580	Triassic
687	41N	30E	26	SW NE	Energy Reserve Gp.	9 Navajo-O	1978/01	D	1779	5244 KB	5840	Pennsylvanian Pinkerton T
425	41N	30E	30	NE NW	Miami Oil Producer	1 Navajo	1967/12	D	1443	5353 KB	6637	Devonian Aneth
637	41N	30E	30	SW SE	Northwest Pipeline	1 Judy Lee-Nav	1975/01	D	1764	5477 KB	6752	Devonian Aneth
113	41N	30E	36	NW SW	Texaco	1 Navajo-Z	1960/07	HP	614	5286 KB	6997	Precambrian?
1-82	41N	31E	07	SE NE	El Paso Nat. Gas	07 Navajo	1956/03	S	182	4902 KB	470	Jurassic
256	41N	31E	07	SW SW	Zoller & Danneberg	1 Navajo-161	1963/11	D	N/A	5016 KB	5690	Pennsylvanian Akah
1-83	41N	31E	18	SE NE	El Paso Nat. Gas	02 Navajo	1956/03	S	1513	5040 KB	421	Jurassic
35	41N	31E	19	SW NW	El Paso Nat. Gas	01 BitaPeak Nav	1956/08	GP	176	5040 KB	5648	Pennsylvanian Paradox
1-84	41N	31E	19	NW NW	El Paso Nat. Gas	03 Navajo	1956/02	S	190	5030 KB	740	Triassic Wingate
1-85	41N	31E	19	SW SE	El Paso Nat. Gas	04 Navajo	1956/03	S	175	5084 KB	683	Triassic
1-86	41N	31E	19	SE SE	El Paso Nat. Gas	04X Navajo	1956/03	S	180	5088 DF	690	Triassic
13	42N	18E	34	SW SE	Texaco-Skelly-Sinc	1 Navajo	1953/06	D	16	6662 KB	4523	Cambrian
191	42N	29E	33	SE SE	Davis Oil	1 Navajo	1962/08	D	N/A	5146 KB	5784	Pennsylvanian Molas

NORTHWEST

PERMT	TWP	RGE	SE	LOC	OPERATOR	LEASE & NO.	DATE	ST	SAMP	ELEV	TD	FORMATION AT TD
7-11	01N	02W	19	NE SE	U. S. Bur. Reclam.	01 Liberty	1967/10	S	N/A	952 GL	1208	N/A
7-12	01N	04W	33	SE SW	Reaves Oil	1 King	1940/	D	N/A	905 GL	1780	Cenozoic
7-13	01N	04W	34	NE NW	Reaves Oil	1 Fuqua	1939/08	D	1653	942 GL	4117	Tertiary
7-14	01N	05W	34	W2	Dixie Oil	1 State	1947/03	D	N/A	770 GL	3505	Tertiary volcanic rock
734	01N	14W	22	SW NE	Phillips Petroleum	H02 Federal	1982/01	TP	N/A	1535 GL	280	N/A
617	02N	01W	02	SW NW	AmeriGas (Cal-Gas)	1 Roach-Baker	1973/10	SP	1726	1087 GL	3200	Salt, Miocene?
865	02N	01W	02	SW NW	AmeriGas (Cal-Gas)	1A Roach-Baker	1989/03	SL	N/A	1087 GL	2800	Salt, Miocene?
627	02N	01W	02	SW NW	AmeriGas (Cal-Gas)	2 Roach-Baker	1974/12	SL	N/A	1087 GL	3210	Salt, Miocene?
670	02N	01W	02	SW NW	AmeriGas (Cal-Gas)	3 Roach-Baker	1977/01	SL	N/A	1086 GL	3200	Salt, Miocene?
527	02N	01W	02	SW SW	Morton (SW) Salt	1 Roach-Baker	1969/08	SA	N/A	1085 GL	4503	Salt, Miocene?
548	02N	01W	02	NW SW	Morton (SW) Salt	2 Roach-Baker	1971/01	SA	1681	1085 GL	3425	Salt, Miocene?
908	02N	01W	02	SE SW	SunCor Development	1-02 SunCor	2001/03	S	N/A	1080 GL	5130	Salt, Miocene
866	02N	01W	19	NE NE	Bob James Drilling	01-19 SunCor	1988/06	D	1867	1062 KB	4000	Salt, Miocene?
911	02N	01W	19	NE NE	Copper Eagle Gas	1-19 SunCor	2002/07	S	1897	1053 GL	8307	Chlor breccia fr granite
877	02N	01W	23	SW NE	Arrowhead Oil&Gas	32-23 SunCor	1992/09	D	1874	1048 KB	6650	Salt, Miocene?
912	02N	02W	12	NE SE	Copper Eagle Gas	1-12 Kakerlee	2002/09	S	1898	1088 GL	8334	Chlor breccia fr granite
909	02N	02W	24	SW SW	Copper Eagle Gas	1-24 SunCor	2002/02	S	1896	1064 GL	6053	Chlor breccia fr granite
725	02N	07W	27	SW SW	Gemini OG & Mining	1 Heisler	1981/10	D	N/A	1130 GL	2040	N/A
733	02N	13W	19	NW SE	Phillips Petroleum	H01 Federal	1982/01	TP	N/A	1318 GL	270	N/A
7-15	03N	01W	32	SE SE	U. S. Bur. Reclam.	01 Luke	1966/03	S	N/A	1115 GL	2003	N/A
7-16	04N	01W	25	SW SW	U. S. Bur. Reclam.	B4-1 CAP	1965/05	S	N/A	1208 GL	1990	N/A
7-17	04N	02W	25	SE NE	Tannehill	1 Beardsley	1923/06	D	N/A	1305 GL	3350	Tertiary
7-18	05N	02W	19	NW SW	Wucherer, G.W.	et al	1946/	D	N/A	1615 GL	500	Valley fill
803	05N	03W	28	SE SE	Tri Oil	78-28 State	1982/12	D	1841	1623 KB	4520	Precambrian schist
7-19	05N	03W	33	NE NE	Robertson, J.J.	1 Wittmann	1944/11	D	N/A	1613 GL	4280	Tertiary volcanic rock
7-20	05N	03W	33	NE NW	Robertson, J.J.	2 Wittmann	1946/07	D	N/A	1627 GL	4970	Tertiary volcanic rock
773	05N	03W	34	SW NW	Salt R.Basin Flet.	1 Federal	1981/10	D	1822	1600 GL	3980	Precambrian? schist
462	07N	19W	10	SE SE	El Paso Nat. Gas	B1 LaPosa Strat	1968/06	S	N/A	838 KB	1400	Miocene
459	07N	19W	24	NE NW	El Paso Nat. Gas	A1 La Posa Fed	1968/06	S	N/A	885 KB	2815	Precambrian metamorphic
457	08N	13W	20	SW SW	El Paso Nat. Gas	01 Butler Fed	1968/04	S	N/A	1738 GL	1358	Precambrian granite
330	09N	06W	05	SE NE	C & J Drilling	1 State	1966/01	D	N/A	2956 GL	2370	Tertiary
589	10N	10W	03	SE NE	Brown & Thorp Oil	1 Federal	1972/08	S	1720	2229 KB	5687	Precambrian granite
533	10N	10W	03	SE NE	El Paso Nat. Gas	01 Bullard Fed	1970/06	S	1628	2226 DF	3831	Tertiary sediments
15-01	10N	14W	06	SW SE	Sutton, S.T.	1 Johnson	1946/	D	N/A	820 GL	400	Cenozoic
13-03	11N	10W	16	N/A	Klaner & Doolin	N/A	1958/04	D	N/A	N/A	1140	Cenozoic
795	14N	06W	32	SE SE	Phillips Petroleum	A1 Kirkland St.	1982/09	D	1839	3628 GL	6500	Precambrian granite
788	16N	19W	20	SW NE	O'Brien Resources	AZ-1	1981/12	TP	N/A	1600 GL	325	N/A
13-04	18N	02W	20	NE SW	Chino Valley Oil	01 Walton State	1938/	D	03	4480 GL	2060	Precambrian granite
332	18N	02W	26	NW NW	O'Donnell & Ewing	1 Federal	1965/12	D	1356	4580 GL	1205	Precambrian granite
13-06	18N	02W	27	SW SW	Aricopa Drlg & Mng	1 Puntenny	1938/	D	N/A	4440 GL	460	N/A
13-05	18N	02W	27	SE SE	Chino Val, Anthony	1 Discovery	1905/	D	N/A	4487 GL	2003	N/A
13-09	18N	02W	27	SE SE	Chino Valley Oil	01	1913/	D	N/A	4487 GL	1800	Precambrian granite
13-07	18N	02W	32	NE SE	England, J.W. Jr.	1 Sullivan	1944/	D	N/A	4385 GL	1000	N/A
13-08	18N	02W	34	NE NE	Aricopa Drlg & Mng	1 Lyons	1940/	D	N/A	4465 GL	3010	Paleozoic
133	20N	03W	23	SW SW	Sierra Drilling	1 Campbell	1961/02	D	624	5558 GL	1182	Cambrian Tapeats
141	20N	03W	23	SW NW	Sierra Drilling	2 Campbell	1961/04	D	666	5581 KB	1155	Cambrian Tapeats
ww009	21N	03W	11	NE SW	AT&SF	01 Ashfork	N/A	WW	N/A	5035 GL	1000	Cambrian?
ww188	22N	01W	30	SE NE	AT&SF	01 Ashfork	1931/10	WW	N/A	5530 GL	2624	Precambrian granite
ww011	22N	08W	15	SW SW	El Paso Nat. Gas	01 Seligman	1955/04	WW	N/A	5505 GL	1120	Cambrian Tapeats
ww012	23N	06W	36	N/A	AT&SF	03 Seligman	1902/	WW	N/A	5250 GL	1955	Mississippian
ww031	23N	07W	10	SW SW	Seligman	Water Well	1964/05	WW	N/A	5152 GL	850	Devonian?
8-01	23N	18W	33	NW SW	El Paso Nat. Gas	01 ChristmasTre	1968/	S	N/A	3382 GL	1357	N/A
47	25N	08W	34	NE NE	Ray Terry Oil	1 State	1958/07	D	1524	5410 GL	1943	Cambrian Tapeats
867	26N	16W	16	NE NE	TranAm Energy	01 Red Lake	1989/10	S	1872	2780 GL	2470	Salt, Tertiary

NORTHWEST

PERMT	TWP	RGE	SE	LOC	OPERATOR	LEASE & NO.	DATE	ST	SAMP	ELEV	TD	FORMATION AT TD
542	26N	16W	22	SW SW	El Paso Nat. Gas	01 Red Lake-Fed	1970/07	S	1682	2814 DF	5994	Salt, Tertiary
8-02	26N	16W	28	NE NE	Kerr-McGee	02 Red Lake	1958/05	S		2811 GL	2135	Salt, Tertiary
8-03	26N	16W	30	SE SE	Kerr-McGee	01 Red Lake	1958/03	S	N/A	2788 GL	2608	Salt, Tertiary
913	27N	17W	13	NE SE	Red Lake Gas Store	1-D Red Lake	2001/12	S	1899	2846 GL	3163	Miocene Alluvium
06	28N	01W	35	SW NE	Sinclair Oil & Gas	1 Santa Fe Pac.	1952/05	D	126	6055 GL	3544	Cambrian Tapeats
8-04	29N	21W	02	NE NE	Goldfield Consol.	01A Federal	1957/	S	N/A	1684 GL	834	Valley fill
8-05	29N	21W	09	SE NE	Goldfield Consol.	10 Federal	1958/12	S	N/A	2090 GL	435	Tertiary Muddy Creek
8-06	29N	21W	10	SE NE	Goldfield Consol.	08 Federal	1958/	S	N/A	1845 GL	1066	Salt, Tertiary
8-07	29N	21W	11	NE SE	Goldfield Consol.	05 Federal	1957/11	S	N/A	1790 GL	1216	Salt, Tertiary
8-08	29N	21W	11	SE SW	Goldfield Consol.	09 Federal	1958/11	S	N/A	1781 GL	956	Salt, Tertiary
8-09	29N	21W	12	NE NW	Goldfield Consol.	02 Federal	1957/08	S	N/A	1780 GL	1047	Tertiary Muddy Creek
8-10	29N	21W	13	NW NW	Goldfield Consol.	03 Federal	1957/09	S	N/A	1866 GL	599	Salt, Tertiary
8-11	29N	21W	14	SE NE	Goldfield Consol.	04 Federal	1957/10	S	N/A	1886 GL	1392	Valley fill
8-12	29N	21W	15	NE NE	Goldfield Consol.	07A Federal	1957/12	S	N/A	1780 GL	1229	Tertiary Muddy Creek
8-13	29N	21W	16	NE SE	Goldfield Consol.	11 Federal	1959/01	S	N/A	2030 GL	890	Tertiary Muddy Creek
8-14	29N	21W	23	NE NW	Goldfield Consol.	06 Federal	1957/11	S	N/A	1882 GL	1136	Salt, Tertiary
8-15	30N	21W	12	SE NE	Phelps Dodge	03 Federal	1959/03	S	N/A	1516 GL	185	Tertiary Muddy Creek
8-16	30N	21W	12	SE NE	Phelps Dodge	04 Federal	1959/04	S	N/A	1518 GL	766	Tertiary granitemonzonite
8-17	30N	21W	13	NW NW	Phelps Dodge	01 Federal	1959/03	S	N/A	1645 GL	696	Precambrian diorite
8-18	30N	21W	13	SW NW	Phelps Dodge	02 Federal	1959/03	S	N/A	1642 GL	751	Precambrian diorite
706	36N	09W	30	NE SW	Gulf Oil	1 Cord BJ Fedrl	1980/11	D	1815	6350 KB	5961	Precambrian granite
906	37N	09W	18	SE SE	Premco Western	18-1 Dutchman F	1999/	TA	N/A	4925 GL	3617	Permian Pakoon
879	37N	12W	15	SE SE	Medallion Oil	1-15 Federal	1994/07	D	1876	5511 GL	5000	Cambrian Muav?
43	38N	05W	31	NW SE	Western Drlg/Valen	1 Federal	1958/05	D	603	5052 DF	4666	Cambrian Bright Angel
41	38N	07W	17	SW SW	Fields, Roger A.	1 Federal	1957/06	D	N/A	4976 KB	460	Permian Toroweap?
53	38N	07W	17	SW SW	Fields, Roger A.	1X Federal	1958/04	D	338	4972 DF	1780	Permian Hermit?
117	38N	07W	17	NW SW	Fields, Roger A.	2 Federal	1960/10	D	N/A	4985 GL	32	N/A
502	38N	07W	29	NW NE	Harris, James J.	1 Federal	1970/07	D	1616	4985 GL	1115	Permian Hermit
705	38N	10W	17	SW NE	Home Petroleum	17-1A Federal	1980/06	D	1812	4565 GL	3125	Pennsylvanian Callville
713	39N	05W	10	NW NE	Copaquen Pipe	1A-10 Federal	1981/06	D	1823	4826 GL	1600	Permian Toroweap
42	39N	06W	14	SW NW	Poteet & Lyons	1 Federal	1957/08	D	1550	5310 GL	2303	Permian Coconino
56	39N	06W	35	SE SW	Lyons, Tony	1 Federal	1958/09	D	365	5260 GL	1820	Permian Toroweap
347	39N	07W	02	NE SE	Skelly Oil	1 Federal-A	1966/05	D	1388	5118 KB	4031	Miss Mooney Falls
114	39N	13W	35	SE SW	Tennessee Gas	1 Schreiber-Fed	1960/05	D	611	5416 KB	4015	Mississippian
40	40N	06W	12	NW SW	George, T.W.	1 Federal	1957/06	D	1511	5250 GL	2202	Permian Kaibab
813	40N	06W	26	NW NW	Brooks Exploration	1-26 Federal	1982/09	D	1842	5085 KB	7070	Cambrian Tapeats
854	40N	06W	26	NW NW	Waggoner, W.M.	2-26 Federal	1985/06	D	N/A	5070 GL	595	Triassic Moenkopi
846	40N	06W	27	NE NE	Brooks Exploration	1-27 Federal	1983/11	D	1856	5070 GL	2500	Permian Hermit
33	40N	08W	28	SE SW	Falcon Seaboard	1 Antelope	1956/08	D	11	4718 DF	3753	Mississippian
25	40N	08W	28	SE SW	Valen Oil & Gas	1 Antelope Fed.	1956/06	D	N/A	4808 DF	120	Triassic Moenkopi
677	40N	09W	18	NE SW	Pyramid Oil	2 Federal	1977/11	D	1787	4958 KB	4509	Devonian
816	41N	01W	23	NW SE	Shields Explr. Co.	01-23 Federal	1983/01	D	1851	4983 GL	550	Permian Toroweap
715	41N	01W	24	NW SE	Shields Explr. Co.	01-24 Federal	1981/12	D	1817	5062 GL	482	Permian Kaibab
703	41N	01W	24	NW SE	Travis Oil	01-24 Federal	1980/06	D	1811	5068 GL	900	Permian Hermit
770	41N	01W	24	NW SE	Shields Explr. Co.	01-24 Travis Fd	1982/09	D	N/A	5068 GL	0	See permit 703--reentry
771	41N	01W	24	NW SE	Shields Explr. Co.	02-24 Federal	1985/05	D	1835	5072 G	500	Permian Kaibab
772	41N	01W	24	NE SW	Shields Explr. Co.	04-24 Federal	1985/05	D	1836	5043 GL	750	Permian
774	41N	01W	24	NE SW	Shields Explr. Co.	05-24 Federal	1985/05	D	1837	5037 GL	480	Permian Kaibab
775	41N	01W	24	NW SE	Shields Explr. Co.	06A-24 Federal	1983/01	S	1838	5066 GL	491	Permian Kaibab
817	41N	01W	24	NE NW	Shields Explr. Co.	11-24 Federal	1983/01	D	1851	4966 GL	540	Permian Toroweap
859	41N	01W	24	SE NE	Shields Explr. Co.	12-24 Federal	1995/03	D	1873	5040 GL	5436	Precambrian Chuar Group
8-19	41N	06W	16	SE	Cane Bed	1 State	1931/	D	N/A	5030 GL	542	Triassic Moenkopi
932	41N	07W	35	NE SW	Ultimate E&D	2 Short Creek Fed	2006/04	D	N/A	5072 GL	7690	Precambrian granite
8-20	41N	08W	18	NE NW	Antelope Petroleum	1 Morris-Fed.	1932/	D	N/A	4515 GL	1522	N/A

NORTHWEST

PERMT	TWP	RGE	SE	LOC	OPERATOR	LEASE & NO.	DATE	ST	SAMP	ELEV	TD	FORMATION AT TD
676	41N	09W	28	NW SE	Pyramid Oil	1 Federal	1977/12	D	1786	4763 KB	4150	Mississippian
704	41N	09W	33	NW NW	Pyramid Oil	2 Rock Crk Fed.	1981/04	D	N/A	5009 KB	3530	Mississippian?
889	41N	11W	10	NE SE	Premco Western	1-10 Federal	1996/02	JA	1883	3090 GL	1100	Permian Toroweap
975	41N	11W	10	NE SE	Wind River Corp	10-1 Ft Pierce Fed	2008/12	TA	N/A	3090 GL	5006	Devonian Temple Butte
8-21	41N	15W	29	SW SE	Virgin Oil & Mines	4 State	1918/	D	N/A	1960 GL	2600	N/A
699	41N	16W	16	C N2	Goodell, Murel	1 State	1979/05	D	1808	2590 GL	900	N/A
8-22	42N	08W	31	SW SW	Ariz & Utah Consol	1 State	1909/	D	N/A	4410 GL	936	N/A
726	42N	11W	35	SE NW	Kolob Petroleum	35-1 Federal	1982/03	D	N/A	2890 GL	1432	N/A
8-23	42N	15W	32	N/A	Virgin Oil & Mines	1 State	1931/	D	N/A	N/A	1405	N/A
8-24	42N	15W	32	SE	Virgin Oil & Mines	6 State	1931/	D	N/A	N/A	545	N/A

SOUTHEAST

PERMT	TWP	RGE	SE	LOC	OPERATOR	LEASE & NO.	DATE	ST	SAMP	ELEV	TD	FORMATION AT TD
7-25	01S	06E	01	NE NE	Nichols, Hugh E.	08 Fee	1972/03	S	N/A	1340 GL	1446	Valley fill
7-24	01S	06E	27	SE SE	U. S. Bur. Reclam.	D1-6 CAP	1964/09	S	N/A	1297 GL	1940	N/A
05	01S	08E	17	SE SE	Nichols, Hugh E.	1 State	1952/05	D	1674	1538 GL	2836	Precambrian
11-01	01S	08E	30	NE SE	U. S. Bur. Reclam.	D1-8 CAP	1965/09	S	N/A	1490 GL	1929	Tertiary clastic rocks
11-21	01S	12E	33	SW NE	Superior Oil	01 Bonanza	1971/	S	N/A	2811 KB	4707	Precambrian Dripping Sprg
11-22	01S	12E	34	NW	Superior Oil	02 Bonanza	1972/	S	N/A	2931 KB	5931	Precambrian Troy Quartzite
11-23	01S	13E	11	NW SE	American Smelting	DCA2	1971/	S	N/A	4720 GL	1772	N/A
11-24	01S	13E	21	NW NE	American Smelting	1A OF	1971/	S	N/A	4410 GL	2150	N/A
605	02S	06E	01	NE SE	Cam-Roy R&D (GKI)	1 Power Ranches	1973/04	TD	1727	1358 KB	9207	Tertiary volcanic rock
611	02S	06E	01	SE NE	Cam-Roy R&D (GKI)	2 Power Ranches	1973/08	TD	1735	1356 KB	10454	Tertiary volcanic rock
11-02	02S	10E	32	SW	East-Lantron	1 State	1949/	D	1646	1800 GL	1020	Cenozoic
11-03	04S	03E	09	SE SW	U. S. Bur. Reclam.	D4-3 CAP	1964/06	S	N/A	1148 GL	1777	N/A
11-04	04S	03E	36	NE NW	Robison & Mason	1 Harbor	1951/01	D	N/A	1195 GL	3642	Cenozoic
11-05	04S	09E	25	SE SW	Schoenheit, John H	1 Moorehouse	1945/	D	N/A	1475 GL	415	Cenozoic
5-17	04S	23E	19	NW NW	Knowles, R.S.	1 Geronimo	1919/	D	N/A	2710 GL	810	Tertiary
929	04S	30E	18	NE SW	APS	TG 1-05 Fee	2005/10	S	1909	3615 GL	635	Precambrian granite
931	04S	30E	19	NW NW	APS	TG 3-05 Fee	2005/10	S	1910	3590 GL	1000	Precambrian granite
15	05S	10E	31	SW SW	Western Oil Fields	1 Federal	1953/05	D	1647	1665 GL	5142	Tertiary ?
11-06	05S	14E	05	SE SE	Hackberry	N/A	1905/	D	N/A	N/A	700	Cenozoic
5-16	05S	23E	15	NE	Superior Oil	01 Federal	1961/03	S	N/A	2790 GL	1296	N/A
620	05S	24E	16	NW SW	Nix Drilling	1 State	1978/12	TD	1809	2810 GL	700	N/A
5-01	05S	24E	17	NE SE	Alexander, A.C.	1 Graham	1906/	D	N/A	2730 GL	1400	Cenozoic
5-02	05S	24E	30	SW NE	Ashurst Oil	1	1928/	D	N/A	2731 GL	1247	Cenozoic
5-03	05S	24E	30	SW NE	Gila Oil	01 Syndicate	1931/	D	N/A	2730 GL	2645	Cenozoic
5-04	05S	28E	33	NE NE	Mining Exploration	N/A	N/A	S	N/A	4600 GL	2324	Cenozoic
11-07	06S	03E	21	NW NW	U. S. Bur. Reclam.	D6-3	1964/01	S	N/A	1335 GL	1803	N/A
11-08	06S	05E	19	SE SE	U. S. Bur. Reclam.	D6-5 CAP	1965/06	S	N/A	1338 GL	1780	N/A
11-09	06S	07E	25	SE SE	Casa Grande Valley	1 Laveen	1945/09	D	N/A	1468 GL	4742	Tertiary
11-10	06S	08E	18	SE SW	Crouch Drillers	1 Holland	1964/	D	N/A	1459 DF	3243	Tertiary
5-05	06S	24E	13	NE NW	Underwriters Syn.	1 Mack	1928/04	D	N/A	2780 GL	3767	Cenozoic
622	07S	08E	08	SE SW	Geo. Kinetics-Amox	1 Pima Farms	1974/08	TD	1747	1529 KB	8024	Tertiary
925	07S	08E	11	SW NE	El Paso Nat. Gas	1-11 State	2005/09	S	1906	1507 GL	3170	Tertiary
926	07S	08E	20	C NE	El Paso Nat. Gas	1-20 State	2005/08	S	1905	1524 GL	3316	Tertiary
933	07S	08E	21	SW NW	El Paso Nat. Gas	1-21 AGS	2006/10	S	1908	1527 GL	8784	Precambrian granite wash
11-11	07S	08E	22	NE NW	Hatchett, J.L.	1 McFarland	1943/	D	N/A	1529 GL	1260	Tertiary
11-12	07S	08E	25	SW SW	U. S. Bur. Reclam.	01 CAP	1963/09	S	N/A	1563 GL	1944	Tertiary
923	07S	08E	27	SE SW	Unocal Picacho.	1-27 Mesa	2005/02	S	1903	1549 GL	4895	Tertiary
11-13	07S	08E	31	NW NW	U. S. Bur. Reclam.	D7-8 CAP-Eloy	1965/02	S	N/A	1534 GL	828	Cenozoic
702	07S	10E	02	NW SE	Phillips Petroleum	A1 State	1981/01	D	1818	2044 KB	18013	Precambrian
684	07S	25E	06	SW SW	Whitmore, Frances	1 State	1977/10	D	N/A	2975 GL	1024	Pliocene?
ww008	07S	25E	22	SE SE	City of Safford	Water Well	N/A	WW	N/A	3060 GL	2600	Precambrian?
11-14	08S	07E	12	SE NW	Creed	1 Cherry	1948/	D	N/A	1553 GL	2700	Tertiary
583	08S	08E	02	NW SE	Exxon (Humble O&R)	1 State	1972/07	S	1722	1594 KB	10179	Precambrian
317	08S	10E	08	SE NW	Ari-Mass Gas & Oil	1 State	1967/06	D	N/A	1912 GL	832	Cenozoic
11-15	08S	16E	25	SW SE	Santa Maria Expl.	1	1948/07	D	1649	2880 GL	2144	Cenozoic
ww078	08S	17E	15	SE	Ranchers Expl.	Water Well	1972/03	WW	N/A	2940 GL	2074	N/A
11-16	08S	17E	32	NE SE	San Pedro Oil	1 Smith	1930/12	D	N/A	2385 GL	1485	Cenozoic
5-06	08S	26E	06	SE NW	Idle Oil	1 Healy	1913/	D	N/A	3150 GL	1800	Quaternary
779	08S	26E	31	SW SE	ABGMT	HF-10 Federal	1981/12	TP	1834	3345 GL	160	N/A
780	08S	26E	34	SW SW	ABGMT	HF-05 Federal	1981/12	TP	1834	3360 GL	213	N/A
11-17	09S	04E	15	SE SW	Bur. Indian Affair	10 CT	1956/	S	N/A	1505 GL	700	N/A
11-18	09S	07E	34	SE NE	U. S. Bur. Reclam.	02 CAP	1963/11	S	N/A	1637 GL	2007	Tertiary
858	09S	12E	02	SW SW	Apollo Oil Corp.	1 State	1987/04	D	1863	2951 GL	168	Precambrian?
11-19	09S	14E	20	NW	Continental Oil	2 ORC	1971/	S	N/A	3570 GL	3220	Precambrian

SOUTHEAST

PERMT	TWP	RGE	SE	LOC	OPERATOR	LEASE & NO.	DATE	ST	SAMP	ELEV	TD	FORMATION AT TD
11-20	09S	14E	29	NW	Continental Oil	1 ORC	1971/	S	N/A	3520 GL	3293	Precambrian
5-14	09S	21E	14	NW SW	Waggoner, W.T.	3 Eureka Ranch	1948/10	D	N/A	4200?GL	1501	N/A
781	09S	26E	08	NE NW	ABGMT	HF-01 Federal	1981/12	TP	1834	3430 GL	206	N/A
782	09S	26E	09	NW NW	ABGMT	HF-03 Federal	1981/12	TP	1834	3430 GL	200	N/A
783	09S	26E	09	NW SW	ABGMT	HF-04 Federal	1981/12	TP	1834	3510 GL	210	N/A
784	09S	26E	10	SE NW	ABGMT	HF-06 Federal	1981/12	TP	1834	3535 GL	200	N/A
785	09S	26E	15	SE NW	ABGMT	HF-07 Federal	1981/12	TP	1834	3690 GL	213	N/A
798	09S	26E	16	NW NE	Phillips Petroleum	A1 Safford St.	1982/04	D	1829	3562 GL	8509	N/A
786	09S	26E	17	NW NW	ABGMT	HF-02 Federal	1981/12	TP	1834	3495 GL	200	N/A
539	09S	27E	36	SW SE	Tenney, Ivan D.	1 State	1970/06	D	N/A	3255 GL	630	Cenozoic
540	09S	27E	36	SW SE	Tenney, Ivan D.	2 State	1970/06	D	N/A	3255 GL	1090	Cenozoic
541	09S	27E	36	SE SW	Tenney, Ivan D.	3 State	1971/02	D	N/A	3270 GL	3500	Tertiary
5-07	10S	28E	25	SE SE	Bear Springs Oil	1 Allen	1929/	D	N/A	3450 GL	1555	Pleistocene/Pliocene
5-08	10S	28E	35	NW NE	U. S. Oil	1 Federal	1917/	D	N/A	3350 GL	900	Cenozoic
5-09	10S	28E	36	SE NE	Whitlock Oil	1 State	1928/	D	N/A	3440 GL	1925	Pleistocene/Pliocene
5-10	10S	29E	20	SW NE	Whitlock Oil	1 Penrod Fed.	1930/	D	N/A	3620 GL	521	Quaternary basalt
5-11	10S	30E	20	C	U. S. Oil & Refin.	01	1920/	D	N/A	3520 GL	700	Cenozoic
11	11S	10E	27	NE SE	Berry Mineral Dev	1 Federal	1952/09	D	N/A	1920 DF	3212	Tertiary? volcanic rock
249	11S	22E	02	SE SE	Ram Oil	1 Sierra Bonita	1965/08	D	1345	4425 GL	1823	Cenozoic
5-12	11S	23E	06	NE NW	Hooker, Sam et al	1 Sierra Bonita	1930/	D	N/A	4385 GL	1985	Cenozoic
5-13	11S	28E	28	SW NE	Bear Springs Oil	1 Finn-Reed	1928/03	D	N/A	3550 GL	670	Cenozoic
5-15	11S	28E	28	N/A	Howle, Perry	01	1912/	D	N/A	N/A	1100	Cenozoic
10-01	12S	11E	06	SW NE	Eloy Develop. Assn	1 State	1949/	D	1679	1975 GL	4950	Tertiary
981	12S	24E	20	NE NW	Willcox Greenhouse	1 Greenhouse Fee	2009/08	S	N/A	4255 GL	4000	Tertiary volcanic rock
10-02	13S	13E	03	SE SW	USGS	01 Tucson	N/A	S	N/A	2350 GL	1811	N/A
10-03	13S	14E	31	NW NE	U. S. Bur. Reclam.	01 GS	N/A	S	N/A	2400 GL	700	N/A
2-01	13S	22E	29	SE NE	Duncan, Lloyd	1 Clayton	1945/07	D	N/A	4953 GL	1000	Cenozoic
2-02	13S	22E	29	NW NW	Duncan, Lloyd	2 Clayton	1945/07	D	N/A	4900 GL	1180	Cenozoic granite wash
23	13S	22E	33	NE SE	Duncan, Lloyd	2 (1X) State	1960/12	D	401	4965 DF	5310	Precambrian? igneous
73	13S	22E	33	NE SE	Duncan, Lloyd	3 State	1960/12	D	N/A	4953 GL	2185	Cenozoic
2-03	13S	24E	23	SW SE	Waddell-Duncan	1 McComb	1951/05	D	1631	4201 KB	6865	Cretaceous?
2-04	13S	29E	18	SE NW	Bowie Oil	01	1925/02	D	1637	3821 GL	4110	Cretaceous
887	13S	30E	27	NW NW	Arzon Corporation	1 State	1995/08	TA	1879	3600 GL	8974	Tertiary-Cret. volcanics
2-05	13S	30E	27	SE NE	Funk Benevolent	1 Fee	1939/	D	N/A	3600 GL	6668	Cretaceous
2-06	13S	31E	31	SW SE	Fitzwater	1 Thayer	1951/05	D	1632	3620 GL	4440	Tertiary? volcanic rock
10-04	14S	14E	16	SW SW	USGS	05 GS	1967/11	S	N/A	2480 GL	1400	Pantano Fm?
82	14S	21E	22	SE NW	Bomak Oil, Inc.	1 State	1960/10	D	N/A	4765 GL	200	Mississippian
2-08	14S	24E	30	SE SW	Francis Bros. Oil	1 Proctor	1950/09	D	1633	4185 DF	4605	Tertiary volcanic rock
2-09	14S	25E	04	SW NE	Waddell-Duncan	1 Lawson	1950/	D	N/A	4175 GL	2702	Cenozoic volcanic rocks
2-10	14S	25E	06	NE NE	Geronimo Oil	1 Brunning	1931/01	D	N/A	4170 GL	770	Quaternary/Tertiary
2-11	14S	25E	06	NE NE	Geronimo Oil	1 Holliday	1930/08	D	N/A	4170 GL	428	Quaternary
2-12	14S	25E	09	SE SE	Willcox Oil & Gas	Sulphur Springs	1925/	D	N/A	4175 GL	2360	Cenozoic
2-13	14S	30E	34	SE NW	Ryan et al	1 State	1931/02	D	N/A	4080 GL	990	Quaternary
21	14S	30E	36	NE NE	AZ O&G Development	1 State	1954/08	D	1636	3876 KB	7579	Cenozoic
2-14	14S	31E	16	SW SE	San Simon	1 State	1923/	D	N/A	3675 GL	2000	Cenozoic
10-05	15S	14E	02	NW SE	Tucson Gas & Elec.	07	1963/04	S	N/A	2670 GL	3145	N/A
10-06	15S	14E	25	SE NE	USGS	03 Tucson	N/A	S	N/A	N/A	2998	N/A
10-07	15S	15E	16	NW SW	USGS	04	N/A	S	N/A	2840 GL	1842	N/A
103	15S	23E	01	NW NW	Hatchett, John	1 State	1961/10	D	N/A	4265 GL	668	Cenozoic
2-15	15S	26E	19	NW SE	Benedum-Trees Oil	1 Arzberger	1931/10	D	N/A	4250 GL	3298	Cenozoic
10-08	16S	12E	25	SW NE	American Smelting	X204	1958/	S	N/A	3196 GL	1402	N/A
10-14	16S	13E	36	SW NE	Pima Mining	04	1965/06	S	N/A	N/A	2133	N/A
597	16S	15E	05	NE SW	Exxon (Humble O&R)	1 State	1972/12	S	1724	2886 KB	12571	Tertiary granitemonzonite
10-09	16S	15E	05	SW NW	USGS	03 Explr. Strat	N/A	S	N/A	2862 GL	1140	N/A

SOUTHEAST

PERMT	TWP	RGE	SE	LOC	OPERATOR	LEASE & NO.	DATE	ST	SAMP	ELEV	TD	FORMATION AT TD
10-10	16S	15E	10	SW SW	USGS	02 Tucson	N/A	S	N/A	N/A	2640	N/A
2-17	16S	24E	36	NW NW	McCall, S.W.	1 State	1928/	D	N/A	4210 GL	1510	Cretaceous
2-18	16S	31E	09	SW NE	Portal Drilling	9 State-C	1953/10	D	N/A	4310 GL	5353	Cenozoic
48	16S	31E	10	NE NE	Thomson, L.A.	1 State	1960/04	D	1543	4262 KB	5434	Tertiary volcanic rock
797	17S	08E	36	NW SE	Phillips Petroleum	A1 Redondo St.	1982/03	D	1830	3278 KB	9021	Tertiary granite
10-11	17S	10E	11	N/A	Ridge Mining	2 Sierrita	1958/07	S	N/A	3350 GL	1465	N/A
10-12	17S	13E	02	SE SE	Pima Mining	09	1968/03	S	N/A	2760 GL	1250	N/A
10-16	17S	13E	13	SE SW	Anaconda	03 Continental	1967/06	S	N/A	2740 GL	1798	N/A
10-13	17S	13E	25	SW SW	Anaconda	01 Continental	1966/03	S	N/A	2790 GL	2786	Mesozoic
796	17S	15E	10	SW NE	Phillips Petroleum	A1 Mtn View St.	1982/07	D	1840	3141 GL	8333	Tertiary granite
2-19	17S	19E	17	NW NE	Century Petroleum	1 Colglazier	1931/	D	N/A	4205 GL	1550	Cretaceous
10-15	18S	13E	10	NW SW	Anaconda	02	1967/05	S	N/A	3010 GL	2064	N/A
03	18S	18E	33	NE SW	Cienega Basin Oil	1 State	1952/11	D	1648	4800 DF	2760	Cretaceous
19	18S	18E	33	SE NE	Ted Jones Drilling	Juanita 1 State	1954/09	D	N/A	4750 KB	2656	Cretaceous
104	18S	24E	24	SE SE	Donnelly, Richard	1 State	1960/03	D	N/A	4680 GL	523	N/A
111	18S	24E	24	SE SE	Donnelly, Richard	1A State	1960/03	D	N/A	4680 GL	1193	Cretaceous?
10-17	19S	09E	18	NE NE	Martin, Conrad	1 State	1960/	D	N/A	3280 GL	1000	Cenozoic
10-18	19S	13E	17	NW NW	Duval	04 Sierrita	1968/11	S	N/A	2965 GL	900	N/A
10-19	19S	13E	29	NE SW	Duval	06 Sierrita	1968/08	S	N/A	N/A	900	N/A
10-20	19S	17E	22	SW SE	Anderson, H.R.	2 Empire Ranch	1951/08	D	N/A	4500 DF	1350	Cenozoic
10-21	19S	17E	22	SE SE	Arizona Oil Expl.	1 Boyce	1942/	D	1689	4500 GL	2991	Cenozoic
192	19S	18E	29	NE NE	Mt. States Explor.	1 State	1962/11	D	N/A	4820 GL	1050	Cretaceous
219	19S	18E	29	NE NE	Mt. States Explor.	1A State	1963/09	D	1277	4820 GL	4410	Cretaceous
12-01	20S	16E	09	NW SE	Jones, R.L. et al	1 Larimore	1943/09	D	N/A	5195 GL	3394	Cretaceous
707	20S	17E	12	NE NE	Whitmore, Ralph	1 State	1981/05	D	1820	4750 GL	2850	N/A
794	20S	20E	16	NE NE	Phillips Petroleum	A1 Huachuca St.	1982/06	D	1831	4261 GL	8513	Cretaceous(?) sedimentary
716	20S	23E	14	SW SW	Phillips Petroleum	A1 Tombstone St	1981/09	D	1821	4790 KB	10561	Cretaceous sedimentary
12-02	21S	18E	06	NE SE	Nogales Oil & Gas	Babocomari	1923/04	D	N/A	N/A	1115	Cretaceous
833	21S	23E	04	SE SE	Bedrock Oil	1 State	1982/11	D	1844	4581 KB	2932	N/A
222	21S	23E	17	SE SE	Moncrief, R.B.	1 State	1963/02	D	702	4755 GL	2446	Perm-Penn
93	21S	23E	19	NE SE	Fraser, J.M.	1 State	1968/10	D	667	4479 KB	1903	Perm-Penn
456	21S	24E	05	NE NE	Basin Petroleum	1 Davis-Clark	1968/12	D	N/A	4595 GL	3157	Devonian
212	21S	24E	05	NW SE	Moncrief, R.B.	1 Davis-Clark	1963/02	D	701	4594 GL	3525	Cambrian
34	21S	24E	05	NE NE	Southwest Oil	1 Davis-Clark	1967/10	D	398	4595 GL	3570	Devonian
12	21S	25E	25	SE NE	Allen, Elmer R.	1 Davis	1953/	D	1687	4123 KB	5450	Tertiary volcanic rock
224	21S	25E	25	SE NE	Moncrief, R.B.	1 Davis	1963/02	D	1261	4110 GL	4024	N/A
2-24	22S	27E	05	SE NW	Waddell-Duncan	1 Murray	1950/11	D	1638	4238 KB	4400	Precambrian granite
2-20	22S	27E	24	NW NW	Douglas Petroleum	1 Evans	1948/11	D	N/A	4300 DF	702	Quaternary/Tertiary
2-21	23S	27E	27	SW SE	Owen & Goldman	1 Bruno	1947/12	D	N/A	4000 GL	680	Cenozoic
30	23S	27E	34	NW NW	Cochise Oil	1 Goldman	1956/01	D	N/A	3980 DF	1000	Cenozoic
2-22	23S	27E	34	NW NW	Owen	1 Fourr	1948/05	D	N/A	3980 GL	475	Quaternary/Tertiary
793	23S	29E	14	NW NW	Phillips Petroleum	A1 Douglas St.	1982/06	D	1833	4295 GL	7058	Cretaceous
714	23S	30E	08	NE NW	Union Oil	80-1 State	1980/11	TD	1813	4210 GL	715	Quaternary basalt
2-23	24S	23E	04	NW NW	Ari-Tex	1 Goins	1945/05	D	N/A	4480 GL	1005	Tertiary volcanic?
564	24S	31E	02	NE SW	Guadalupe Explor.	1 State	1971/11	D	1686	4363 KB	5679	Cambrian
52	24S	31E	02	NE NE	Thomson, L.A.	2 State	1958/11	D	N/A	4186 KB	802	Permian

SOUTHWEST

PERMT	TWP	RGE	SE	LOC	OPERATOR	LEASE & NO.	DATE	ST	SAMP	ELEV	TD	FORMATION AT TD
740	01S	11W	33	NW NW	Phillips Petroleum	H08 Federal	1981/11	TP	N/A	1223 GL	303	N/A
738	01S	12W	15	NE SW	Phillips Petroleum	H06 Federal	1981/12	TP	N/A	1265 GL	249	N/A
737	01S	14W	22	SE NE	Phillips Petroleum	H05 Federal	1982/01	TP	N/A	1530 GL	302	N/A
171	02S	09W	30	NW SW	Montezuma O & G	1 Federal-A	1962/07	D	N/A	1227 DF	248	N/A
208	02S	09W	30	NW SW	Montezuma O & G	1X Federal	1964/04	D	N/A	1227 DF	441	N/A
573	02S	09W	30	NW SW	P & H Development	1 Federal	1973/04	D	1699	1226 GL	1700	N/A
742	02S	10W	17	SW SW	Phillips Petroleum	H10 Federal	1981/11	TP	N/A	1205 GL	287	N/A
741	02S	12W	09	SE NE	Phillips Petroleum	H09 Federal	1981/11	TP	N/A	1080 GL	303	N/A
739	02S	13W	04	NW NW	Phillips Petroleum	H07 Federal	1982/01	TP	N/A	1270 GL	305	N/A
746	03S	10W	08	NW SE	Phillips Petroleum	H14 Federal	1981/11	TP	N/A	940 GL	305	N/A
749	03S	10W	26	SE SE	Phillips Petroleum	H17 Federal	1981/11	TP	N/A	780 GL	302	N/A
588	03S	11W	25	NW SE	Exxon (Humble O&R)	1 State	1972/08	S	1723	797 KB	2653	Precambrian?
745	03S	12W	11	NW SE	Phillips Petroleum	H13 Federal	1981/11	TP	N/A	925 GL	304	N/A
789	03S	12W	19	NW NW	Phillips Petroleum	BM1 Federal	1982/02	TP	N/A	967 GL	506	N/A
791	03S	12W	28	SW NE	Phillips Petroleum	BM3 Federal	1982/02	TP	N/A	860 GL	298	N/A
747	03S	12W	29	NW SW	Phillips Petroleum	H15 Federal	1981/11	TP	N/A	895 GL	297	N/A
744	03S	13W	05	SE SW	Phillips Petroleum	H12 Federal	1981/11	TP	N/A	1180 GL	300	N/A
790	03S	13W	25	SW SE	Phillips Petroleum	BM2 Federal	1982/02	TP	N/A	908 GL	300	N/A
752	04S	09W	20	SE SE	Phillips Petroleum	H20 Federal	1981/10	TP	N/A	560 GL	305	N/A
748	04S	12W	01	SE SE	Phillips Petroleum	H16 Federal	1981/12	TP	N/A	751 GL	503	N/A
792	04S	12W	03	NE NW	Phillips Petroleum	BM4 Federal	1982/02	TP	N/A	802 GL	503	N/A
751	04S	12W	31	SE NE	Phillips Petroleum	H19 Federal	1981/12	TP	N/A	642 GL	502	N/A
750	04S	13W	20	NE NW	Phillips Petroleum	H18 Federal	1981/12	TP	N/A	805 GL	507	N/A
7-21	05S	04W	33	SE SE	U. S. Bur. Reclam.	C5-4 CAP	1965/05	S	N/A	818 GL	1782	N/A
7-22	05S	05W	23	SW SE	Bur. Indian Affair	Gila Bend Ind.	1957/	S	N/A	655 GL	1475	N/A
755	05S	08W	11	NE SW	Phillips Petroleum	H23 Federal	1981/09	TP	N/A	580 GL	165	N/A
754	05S	09W	23	NE NE	Phillips Petroleum	H22 Federal	1981/10	TP	N/A	615 GL	307	N/A
753	05S	13W	27	SW SW	Phillips Petroleum	H21 Federal	1981/10	TP	N/A	591 GL	305	N/A
760	06S	08W	08	SE NE	Phillips Petroleum	H28 Federal	1981/09	TP	N/A	697 GL	136	N/A
759	06S	09W	09	NE SW	Phillips Petroleum	H27 Federal	1981/10	TP	N/A	658 GL	305	N/A
758	06S	10W	10	SW NW	Phillips Petroleum	H26 Federal	1981/10	TP	N/A	572 GL	303	N/A
756	06S	12W	10	NW NW	Phillips Petroleum	H24 Federal	1981/10	TP	N/A	435 GL	110	N/A
762	07S	10W	07	NW NW	Phillips Petroleum	H30 Federal	1981/10	TP	N/A	543 GL	303	N/A
761	07S	11W	06	SW NW	Phillips Petroleum	H29 Federal	1981/10	TP	N/A	468 GL	305	N/A
14-09	07S	12W	18	NW SW	Mitchell et al	1 Dunford	1942/	D	N/A	432 GL	2000	Tertiary
156	07S	13W	16	NE NE	Desert Drilling	1 State	1962/01	D	1270	426 KB	6767	Cenozoic
14-10	07S	22W	14	SW NW	USGS	14 LCRP	1963/05	S	N/A	150 GL	505	Quaternary
14-11	08S	13W	04	NE NW	Baird, Frank	1 Loftus	1928/	D	N/A	400 GL	2630	Tertiary?
45	08S	22W	15	NE SE	Gila Valley O&G	1 Kamrath	1958/	D	596	151 KB	2140	Cenozoic
62	08S	22W	15	SE SE	Gila Valley O&G	2 Kamrath	1958/	D	N/A	150 DF	380	Miocene Kinter
14-12	08S	22W	35	NE SW	USGS	29 LCRP	1965/08	S	N/A	155 KB	2001	Miocene
14-22	08S	23W	32	NE SW	Sinclair Oil (?)	1 Kryger	1925/04	D	N/A	120 GL	1400	Precambrian granite
572	09S	19W	23	NE SW	Smith, V.R.	1 State	1971/12	D	1685	371 GL	3986	Mesozoic granite
14-13	09S	22W	28	NW SW	USGS	25 LCRP	1964/11	S	N/A	205 GL	2319	Tertiary
24	09S	23W	19	SW NW	Colo. Basin Assoc.	1 Newcomer	1954/11	D	N/A	110 GL	3277	Precambrian granite
851	09S	23W	32	SE SE	Central Oil Co.	1 MCP Blank	1984/07	D	1859	188 GL	2540	Pliocene/Miocene
14-14	09S	23W	32	SE SE	Yuma Basin Oil	1 Sinclair	1925/01	D	N/A	190 GL	1815	N/A
14-15	09S	24W	08	NE NW	USGS	28 LCRP	1965/07	S	N/A	119 GL	2470	Tertiary
14-16	09S	24W	35	NW SW	USGS	09 LCRP	1962/08	S	N/A	104 GL	1201	Quaternary
7-23	10S	06W	30	SE NW	Phelps Dodge	03	N/A	S	N/A	1235 GL	1348	N/A
850	10S	23W	05	SE NW	Central Oil Co.	1 Aman	1984/06	D	1858	188 GL	2850	Miocene Sand
708	10S	23W	23	SE SE	An-Son	1-23 State	1980/10	D	1816	210 GL	2883	Miocene Kinter
17	10S	23W	31	NE NE	Stewart, M.P.	1 Federal	1954/06	D	N/A	185 KB	3660	Cenozoic
14-17	10S	23W	31	NW NW	USGS	01 LCRP	N/A	S	N/A	172 GL	1000	Quaternary

SOUTHWEST

PERMT	TWP	RGE	SE	LOC	OPERATOR	LEASE & NO.	DATE	ST	SAMP	ELEV	TD	FORMATION AT TD
837	10S	23W	34	NW NW	Dowling Petroleum	1 State	1983/03	D	1847	241 GL	2925	N/A
840	10S	23W	34	NW NW	Dowling Petroleum	1A State	1985/06	D	1846	241 GL	5006	Miocene
27	10S	24W	24	NW SW	Colo. Basin Assoc.	1 Federal	1955/01	D	1662	180 KB	6015	Tertiary
09	10S	24W	35	NW NW	Hickey, J.M.	1 Federal	1952/12	D	1671	165 KB	940	Cenozoic
14-18	10S	25W	35	NW NW	USGS	17 LCRP	1964/02	S	N/A	90 GL	2946	Cenozoic
763	11S	05W	19	NE NE	Phillips Petroleum	A.1 Federal	1982/01	TP	N/A	1465 GL	110	N/A
10-22	11S	06W	24	SW NE	New Cornelia Coppr	01	1913?/	S	N/A	1420 GL	1348	N/A
864	11S	23W	26	SE NE	Petroleum Tech.	26-1 Federal	1987/10	D	1866	172 GL	9135	Miocene Kinter
14-19	11S	23W	34	NW NW	USGS	30 LCRP	1965/	S	N/A	163 GL	627	Quaternary
863	11S	24W	04	C	Petroleum Tech.	04-1 Federal	1987/09	D	1865	155 GL	7000	Miocene Kinter
604	11S	24W	08	SW NE	Exxon	1 Yuma-Federal	1973/02	S	1725	163 KB	11444	Miocene Kinter
14-20	11S	25W	11	NW NE	Yuma Valley Gas	1 Musgrove	1940/06	D	N/A	90 GL	4870	Recent/Late Pleistocene?
765	12S	05W	04	SE SE	Phillips Petroleum	A.3 Federal	1982/01	TP	N/A	1570 GL	398	N/A
709	12S	06W	09	SE NE	Nano'ltex	1 Jpaza Federal	1980/12	D	1814	1680 GL	1044	N/A
764	12S	06W	09	NW NW	Phillips Petroleum	A.2 Federal	1982/01	TP	N/A	1642 GL	300	N/A
767	13S	05W	04	NE NW	Phillips Petroleum	A.5 Federal	1982/01	TP	N/A	1625 GL	302	N/A
766	13S	06W	04	NE NE	Phillips Petroleum	A.4 Federal	1982/01	TP	N/A	1922 GL	299	N/A
768	13S	06W	34	SE SW	Phillips Petroleum	A.6 Federal	1982/01	TP	N/A	1595 GL	299	N/A
769	14S	05W	03	NE NE	Phillips Petroleum	A.7 Federal	1982/01	TP	N/A	1758 GL	300	N/A

NAVAJO MERIDIAN

PERMT	TWP	RGE	SE	LOC	OPERATOR	LEASE & NO.	DATE	ST	SAMP	ELEV	TD	FORMATION AT TD
1-87	02N	06W	20	NE NE	Wilson-Cranmer	01	1922/	S	N/A	7630?GL	845	Precambrian
1-88	02N	09W	15	SE NW	Wilson-Cranmer	02	1922/	S	N/A	6450?GL	826	Precambrian
499	04N	07W	11	SW SW	Gulf Oil	1 Texaco-Navajo	1969/06	D	1572	7444 KB	2375	Precambrian granite
500	04N	07W	36	SW SW	Gulf Oil	1 Navajo-BW	1969/06	D	1575	7568 KB	2032	Precambrian metamorphic
477	06N	06W	20	NW NW	Union Oil	1 Navajo-166	1968/12	D	1485	7571 KB	2800	Precambrian metamorphic
429	06N	07W	12	NE SW	Gulf Oil	1 Nav-Defiance	1967/09	D	N/A	7310 KB	2594	Precambrian metamorphic
448	06N	07W	26	NE NE	Texaco	1 Navajo-BF	1968/02	D	1455	7699 KB	2825	Precambrian metamorphic
496	06N	07W	32	NE NE	Gulf Oil	1 Anadarko-Nav.	1969/05	D	1577	7421 KB	2778	Precambrian igneous
453	06N	08W	26	SE SE	Little, Curtis J.	1 Bear Spr-Nav.	1968/02	D	1427	7414 KB	2322	Precambrian granite
534	06N	10W	14	SW NW	Union Texas Pet.	1-14 Navajo	1970/05	D	1622	5774 KB	3101	Precambrian granite
432	07N	07W	07	SW SE	Depco	1 Navajo	1967/09	D	1793	6783 KB	2800	Precambrian igneous
480	07N	07W	15	SE SE	Doherty, E.F.	1-15 Navajo	1969/01	D	1505	7085 KB	3001	Precambrian igneous
430	07N	07W	26	NW NE	Texaco	1 Navajo-BC	1967/09	D	1428	7139 DF	2937	Precambrian igneous
428	07N	07W	32	NW SE	Pan American Pet.	1 Navajo-AB	1967/09	D	1641	7312 KB	3020	Devonian Aneth
437	07N	08W	04	NE SE	Gulf Oil	1 Nav-Agua Sal	1967/11	D	1642	6562 KB	2656	Cambrian
439	07N	08W	11	NW SW	Gulf Oil	1-11 Navajo	1967/11	D	N/A	6709 KB	2687	Precambrian granite
440	07N	08W	22	SE NE	Gulf Oil	1-22 Navajo	1967/11	D	N/A	6875 KB	2836	Precambrian granite
466	07N	09W	14	SE SE	Buttes Gas & Oil	1-14 Navajo	1968/07	D	1460	6307 KB	2701	Precambrian granite
531	07N	10W	01	NW NW	Union Texas Pet.	1-01 Navajo	1970/02	D	1629	5672 KB	3435	Devonian Aneth
529	07N	10W	17	SE SE	Union Texas Pet.	1-17 Navajo	1970/02	D	1627	5363 KB	3970	Precambrian granite