

42A07SW0017 16 BLACKSTOCK

010

DIAMOND DRILLING

TOWNSHIP: BLACKSTOCK TWP.

REPORT NO: 16

WORK PERFORMED FOR: Placer Dome Inc.

RECORDED HOLDER: SAME AS ABOVE (xx)

: OTHER ()

<u>CLAIM NO.</u>	<u>HOLE NO.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
P 783316 & P 783319	280A-28A	225.8m	Oct/88	(1)
P 783317 & P 783118	280A-29	300.2m	Oct/88	(1)
P 789909	280A-30	157.9m	Oct/88	(1)
P 789909 P 789918	280A-31	75.6m	Oct/88	(1)
	280A-31A	185.3m	Oct/88	(1)
P 789908	280A-32	200.6m	Oct/88	(1)
P 789908 P 789909	280A-33	188.4m	Oct/88	(1)
P 789917	280A-38	153.6m	Oct/88	(1)

NOTES: (1) # W8906.544, filed Dec/89

REF CORD: 8529.0 9852.0 SURVEYED: NO

PLACER DOME INC.

LOCATION: L14+718 1+48W GRID: EAST-WEST

DIAMOND DRILL RECORD

POST LOCATION: 216 m N and 124 m W to POST 4, CLAIM P783316

HOLE NO: 28A
PROPERTY: PROJECT 280A
BLACKSTOCK TWP., ONTARIO
SECTION:

AZIMUTH: 270.0 LENGTH: 225.8 ELEVATION: .0

LOGGED BY: T. TENNENT

DIP: -45.0 CORE SIZE: B0 SYSTEM OF MEASURE: METRIC

DATE LOGGED: OCT. 16 TO 19, 1988

STARTED: OCTOBER 14, 1988 COMPLETED: OCTOBER 17, 1988 CLAIM NO: 0 - 170.0 P783316; 170.0 - 225.83 P.783319

PURPOSE: TO TEST A WEAK MAGNETIC HIGH UP ICE OF ORIGINAL FLOAT. N-S SHEAR

DIP TESTS (corrected)		
DEPTH	AZIMUTH	DIP
45.72		-37.5
121.92		-37.5
225.85		-35.0

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
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.00 70.70 CASING IN OVERBURDEN

70.70 147.80 FOLIATED MAFIC FLOW WITH MINOR FELDSPAR PORPHYRITIC SYENODIORITE

Foliated basalt is dark green grey. Very fine grained. Hardness 4. Well foliated at 45 degrees to the core axis. Finely laminated with minor intervals (8%) of more massive foliated basalt flow. Possible mafic tuff. Weakly to moderately sheared. Non magnetic with minor intervals of weakly to strongly magnetic rock.

Moderately chloritic. Moderately carbonatized (calcite). Minor red potassium feldspar along foliation planes. From 93.50 to 99.10 the unit is weakly silicified and moderately sheared.

1% to 2%, 1 mm calcite-ankerite stringers and filled fractures at 45 degrees to the core axis. Occasionally minor epidote and red feldspar in stringers.

2% to 3% very fine grained to fine grained anhedral to cubic pyrite. Disseminated and along foliation planes. Up to 1% pyrrhotite.

The feldspar porphyritic syenodiorite is medium to dark green grey and buff. Fine grained to medium grained. Hardness 4.5. Weakly to moderately foliated at 50 degrees to the core axis. 2% to 5%, 1 mm to 5 mm stretched feldspar phenocrysts. Non magnetic.

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PLACER DOME INC.
DIAMOND DRILL RECORD

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FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		At 102.37 metres a 5 cm calcite-quartz vein. 8% fine grained magnetite. 1% disseminated pyrite blebs.								
99.18	99.97	5% wispy pyrite stringers. Moderately to strongly chloritic.	E6204	99.18	99.97	.79	-	-	-	-
102.30	102.60	5 cm calcite-quartz vein. 8% fine grained magnetite. 1% disseminated blebs pyrite.	E6205	102.30	102.60	.30	-	-	-	-
102.63	103.25	Very broken core.								
		At 113.20 metres a 1.5 cm quartz vein at 58 degrees to the core axis. Barren.								
114.00	139.90	1% calcite-ankerite-quartz-epidote quartz stringers and filled fractures. Minor traces of red potassium feldspar.								
		At 114.76 a 20 cm of epidote (50%-chlorite-biotite(30%)-quartz(30%) veining. Brecciated. 1% pyrite. 55 degrees to the core axis.								
114.70	115.10	20 cm of epidote-chlorite-biotite-quartz veining. Brecciated. 1% pyrite. 55 degrees to the core axis	E6206	114.70	115.10	.40	-	-	-	-
119.60	3.00	cm white quartz vein. Barren. 80 degrees to the core axis.								
120.00	120.70	35% epidote-ankerite-quartz stringers. Up to 1% pyrite. Stringers fractured and infilled with quartz. 45 degrees to the core axis.								
		At 121.56 metres a 10 cm quartz-calcite-feldspar-chlorite stringer. 3% disseminated pyrite. 30 degrees to the core axis.								
120.00	120.70	35% epidote-ankerite-quartz stringers. Up to 1% pyrite. Stringers fractured and infilled with quartz. 45 degrees to the core axis.	E6207	120.00	120.70	.70	-	-	-	-
121.50	122.50	10 cm quartz-calcite-k feldspar-chlorite stringer. 3% disseminated pyrite. 30 degrees to the core axis.	E6208	121.50	122.50	1.00	-	-	-	-
121.66	123.60	3 to 5% disseminated pyrite. Weakly magnetic.								
122.50	123.60	3 to 5% disseminated pyrite. Weakly magnetic.	E6209	122.50	123.60	1.10	-	-	-	-
123.60	138.80	Non magnetic. Minor intervals of weakly magnetic rock. 2 to 3% pyrite.								
126.50	126.90	3% amygdules.								
		At 129.70 metres a 1 cm quartz veinlet. Barren. 10 degrees to the core axis.								
		At 131.00 metres 5 cms of 5% pyrite. 3% pyrrhotite. 5% quartz stringers.								
137.77	138.87	Weakly silicified.								
137.77	138.87	Weakly silicified.	E6210	137.77	138.87	1.10	-	-	-	-
138.80	146.80	Moderately to strongly magnetic.								
139.90	147.80	3% quartz veinlet. 1 to 2% pyrite. Up to 1% pyrrhotite. 30 to 50 degrees to the core axis								
140.80	142.10	Weakly silicified. 3% disseminated pyrite.								
		At 141.73 metres a 3 cm quartz vein. Barren. 70 degrees to the core axis.								
140.80	142.10	Weakly silicified. 3% disseminated pyrite.	E6211	140.80	142.10	1.30	-	-	-	-

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DIAMOND DRILL RECORD

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FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
164.40	176.80	INTERBANDED FOLIATED MAFIC FLOW AND CHERTY SEDIMENT Foliated mafic flow is dark green grey. Fine grained. Hardness 4. Well foliated at 30 to 50 degrees to the core axis. Non magnetic to moderately magnetic. Weakly carbonatized. Locally silicified. Weakly epidotized. Foliation is locally disrupted and folded. 1% Calcite and quartz-calcite stringers. 1 to 2% disseminated blebs pyrite. 20% Cherty sediment is buff, white, brown and red. Aphanitic. Hardness 7. Banded with 1 cm to 15 cm bands at 15 to 50 degrees to the core axis. Bands are finely laminated. Contacts are sharp with FOLIATED MAFIC FLOW. Bands are occasionally brecciated and cross-cut by FOLIATED MAFIC FLOW. 1% 1 mm to 1 cm quartz stringers at 33 to 50 degrees to the core axis. Barren. Up to 1% pyrite. At 164.42 metres a 20 cm chert band. At 164.90 metres a 40 cm chert band. 164.40 165.40 60% cherty bands with 1% pyrite, pyrrhotite. 40% foliated basalt with 1% pyrite. 165.40 166.90 90% foliated basalt with 2% pyrrhotite, pyrite. 10% cherty bands with 1% pyrrhotite. 166.90 168.40 Foliated basalt. 1% pyrite. 168.40 169.90 Foliated basalt. 1% pyrrhotite, 1% pyrite. 169.90 171.20 Similar to 168 to 169. 171.20 177.20 1.00 medium chert band. At 172.37 metres a 30 cm chert band. At 173.37 metres a 32 cm chert band. 171.20 172.70 90% chert with 1% pyrrhotite. 10% foliated basalt with 1% pyrrhotite. 1% quartz stringers. Barren. 172.70 174.20 80% basalt with 2% pyrrhotite, pyrite. Brecciated. 174.20 175.70 Basalt with 8% cherty clasts. <1% to 3% pyrite, pyrrhotite. 174.40 To 176.80 8% brecciated cherty clasts in foliated basalt. Moderately to strongly magnetic.	E6221	164.40	165.40	1.00	-	-	-	-
			E6222	165.40	166.90	1.50	-	-	-	-
			E6223	166.90	168.40	1.50	-	-	-	-
			E6224	168.40	169.90	1.50	-	-	-	-
			E6225	169.90	171.20	1.30	-	-	-	-
			E6226	171.20	172.70	1.50	-	-	-	-
			E6227	172.70	174.20	1.50	-	-	-	-
			E6228	174.20	175.70	1.50	-	-	-	-

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FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
221.50	222.00	29 cms of irregular epidote-calcite-quartz stringers. Trace pyrite.	E6235	221.50	222.00	.50	-	-	-	-
221.60	221.89	29 cms of irregular epidote-calcite-quartz stringers. Trace pyrite.								

225.83 END OF HOLE

GEOLOGY: From 147.80 to 158.00 meters a non-magnetic to weakly magnetic interbanded silicified and foliated mafic flow with 1% to 2% disseminated pyrite and pyrrhotite was intersected. From 164.40 to 176.80 meters, a non-magnetic to moderately magnetic interbanded foliated mafic flow with 1 to 2% pyrite and 20% cherty sediment with up to 1% pyrite was intersected.

The entire hole is magnetic which accounts for the weak magnetic high. From 93.50 to 99.10 meters the rock is weakly silicified and moderately sheared.

ECONOMIC GEOLOGY: No rock units similar to the original anomalous float were encountered. The cherty sediments with 1% pyrite show the most potential for anomalous gold.

CASING LEFT IN THE HOLE.

DRILLING BY NOREX DRILLING LTD., PORCUPINE, ONTARIO.

CORE CHECKED FOR RADIOACTIVITY AND FLUORESCENCE - NOTHING OF INTEREST.

CORE STORED AT DOME MINES, SOUTH PORCUPINE, ONTARIO.

B. Needham

REF CORD: 9138.0 9925.0 SURVEYED: NO

PLACER DOME INC.

LOCATION: LB+62S 0+75W GRID: EAST-WEST

DIAMOND DRILL RECORD

POST LOCATION: 10m N and 184m W to POST 4, CLAIM P 783317

HOLE NO: 2-29
PROPERTY: PROJECT 280A
BLACKSTOCK TWP., ONTARIO
SECTION:

AZIMUTH: 270.0

LENGTH: 300.2

ELEVATION: .0

LOGGED BY: T. TENNENT

DIP: -45.0

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: OCTOBER 21-24, 1988

STARTED: OCTOBER 19, 1988

COMPLETED: OCTOBER 21, 1988

CLAIM NO: 0 - 271.5 P.783317; 271.5 - 300.23 P.783318

PURPOSE: To test strike extension of Au assays in 280A-3,5. Shearing

DIP TESTS (corrected)

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
91.44		-45.0	300.23		-42.0

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
.00	44.00	CASING IN OVERBURDEN								
44.00	44.41	ALTERED MONZONITE Possible boulder. Pink, grey. Fine grained. Hardness 5. Non foliated. Moderately magnetic. Weakly K metasomatized. 5% fine grained disseminated pyrite. Lower contact sharp at 50 degrees to the core axis.								
44.00	44.41	See description above.	E6236	44.00	44.41	.41	.04	-	-	.04
44.41	49.87	CARBONATIZED ULTRAMAFIC KOMATIITE Medium grey, white, green. Fine grained. Hardness 3.5. Non foliated. Non magnetic. Moderately carbonatized (ankerite). 1% quartz carbonate veinlets and quartz carbonate filled fractures at 30 to 50 degrees to the core axis. Barren trace disseminated fine grained pyrite.								
44.41	45.61	8X quartz carbonate veinlets. Barren.								
44.41	45.61	See description above.	E6237	44.41	45.61	1.20	<.03	-	-	<.03
44.41	45.11	Moderately broken core.								
46.00	47.00	Moderately broken core.								
		At 49.87 metres lower contact sharp at 50 degrees to the core axis.								
49.87	54.82	ALTERED MONZONITE Medium pink, light pink, white. Fine grained to medium								

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FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		Trace fine grained disseminated pyrite. From 83.39 to 88.00 metres 3% quartz carbonate veinlets. Barren. From 88.00 to 99.00 metres the unit is moderately sheared at 10 to 30 degrees to the core axis. 8% stretched and sheared quartz carbonate sweets.								
		At 85.39 metres a 8 cm quartz carbonate veinlet. Barren. 80 degrees to the core axis.								
		At 85.63 metres a 4 cm quartz carbonate veinlet. Barren. 30 degrees to the core axis.								
		85.39 85.70 See description above.	E6254	85.39	85.70	.31	-	-	-	-
		85.44 99.00 Moderately calcareous.								
		93.44 93.88 A 36 cm quartz calcite vein. Barren.	E6255	93.44	93.88	.44	-	-	-	-
99.00	117.90	INTERBANDED CARBONATIZED ULTRAMAFIC KOMATIITE AND CONTAMINATED ACID INTRUSIVE 57% Carbonatized ultramafic komatiite. Dark green grey. Fine grained. Hardness 2.5. Locally amygdaloidal. Weakly magnetic. Moderately carbonatized (calcite). 1% quartz carbonate stringers, barren. Up to 1% fine grained disseminated pyrite. 28% Contaminated monzonite. Dark green, grey, dark pink. Fine grained. Hardness 5. Moderately foliated at 40 degrees to the core axis. Non magnetic to weakly magnetic. Weakly carbonatized and chloritic. Up to 1% fine grained disseminated pyrite. 2% quartz-ankerite stringers at 40 degrees to the core axis.								
		99.00 104.38 Carbonatized ultramafic komatiite. Up to 1% pyrite.								
		104.38 104.52 Contaminated monzonite. Barren.								
		104.52 108.45 Carbonatized ultramafic komatiite. Up to 1% pyrite.								
		108.45 109.05 Contaminated monzonite. Trace pyrite.								
		109.05 109.50 Carbonatized ultramafic komatiite. 1% pyrite.								
		109.50 112.80 Contaminated monzonite. 2% pyrite.								
		109.50 110.50 See description above.	E6256	109.50	110.50	1.00	-	-	-	-
		110.50 111.50 See description above.	E6257	110.50	111.50	1.00	-	-	-	-
		111.50 112.80 See description above.	E6258	111.50	112.80	1.30	-	-	-	-

PLACER DOME INC.
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FROM	TO	DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		disseminated pyrite. 15% biotite.								
	285.05	285.55 See description above.	E6367	285.05	285.55	.50	-	-	-	-
300.23		END OF HOLE								

Hole 280A-29 is comprised of intercalated ultramafic komatiites and altered acid intrusives.

The ultramafic komatiites are talcose except when in proximity to the acid intrusives where they display fuchsitic and carbonate alteration.

The monzonite dikes display alternating bands of K metasomatism and silicification/albitization. From 49 metres to 168 metres there is average 2% pyrite in the monzonite. From 168.00 to 267.00 metres the pyrite content increases to 4% to 5%.

From 88.00 to 99.00 metres the talcose ultramafic komatiite is moderately sheared.

HOLE SANDED IN AND CASING LEFT IN HOLE.

DRILLING BY NOREX DRILLING LTD., PORCUPINE, ONTARIO.

CORE CHECKED FOR RADIOACTIVITY AND FLUORESCENCE - NOTHING OF INTEREST.

CORE STORED AT DOME MINES, SOUTH PORCUPINE, ONTARIO.

B. McKeown

REF CORD: 9300.0 10050.0 SURVEYED: ND
 LOCATION: 7+00S 0+50E GRID: EAST-WEST
 POST LOCATION: 136m S AND 101m E TO POST 2, CLAIM P.789909
 AZIMUTH: 270.0 LENGTH: 157.9 ELEVATION: .0
 DIP: -45.0 CORE SIZE: BQ SYSTEM OF MEASURE: METRIC
 STARTED: OCTOBER 10, 1988 COMPLETED: OCTOBER 14, 1988 CLAIM NO: P.789909
 PURPOSE: TEST DIP EXTENSION OF ANOMALOUS ASSAYS IN 280A-5

PLACER DOME INC.
 DIAMOND DRILL RECORD

HOLE NO: A-30
 PROPERTY: PROJECT 280A
 BLACKSTOCK TWP., ONTARIO
 SECTION:
 LOGGED BY: B. NEEDHAM
 DATE LOGGED: OCTOBER, 1988

DIP TESTS (corrected)
 DEPTH AZIMUTH DIP DEPTH AZIMUTH DIP
 50.00 -44.8 157.88 -40.0

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
.00	49.07	CASING IN OVERBURDEN								
49.07	96.92	TALCOSE ULTRAMAFIC KOMATIITE Medium to dark grey. Fine grained, lightly foliated with the occasional medium grained massive band. Poorly developed spinifex texture band. Hardness 1.5 to 2.5. Trace to 5% irregular carbonate and/or quartz infilled fractures. Trace to locally 1% coarse grained pyrite blebs. Moderately to strongly carbonatized, effervescent. Moderately to strongly talc altered.								
52.65	53.00	5% irregular carbonate infilled fractures. Trace coarse grained pyrite.	E7001	52.65	53.00	.35	-	-	-	-
55.89	56.28	3 to 4 cm carbonate-quartz impregnated band at 28 degrees to the core axis with 2 to 3% coarse grained pyrite blebs. 3 to 5% carbonate infilled fractures and stringers.	E7002	55.89	56.28	.39	-	-	-	-
60.35	60.87	3 to 4 cm carbonate-quartz impregnated band at 15 degrees.	E7003	60.35	60.87	.52	-	-	-	-
67.02	67.53	Similar to 52 to 53.	E7004	67.02	67.53	.51	-	-	-	-
71.10	71.90	5 to 10% irregular carbonate infilled fractures. 1% coarse grained pyrite blebs.	E7005	71.10	71.90	.80	-	-	-	-
73.05	73.59	10 to 15% carbonate-quartz impregnated bands and stringers. Trace to 1% coarse grained pyrite blebs.	E7006	73.05	73.59	.54	-	-	-	-
80.53	81.09	1% disseminated pyrite blebs. 2 to 3 cm carbonate-quartz veinlet at 28 degrees.	E7007	80.53	81.09	.56	-	-	-	-
87.26	88.27	Lightly bleached. 1 to 2% disseminated pyrite blebs. 5 to 10% carbonate impregnated bands and stringers.	E7008	87.26	88.27	1.01	-	-	-	-
88.27	89.85	Moderately to strongly chloritized basalt lens. Sharp upper and lower contacts at 45 and								

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FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		55 degrees respectively. Trace to 1% disseminated pyrite blebs. Moderately foliated at 45 degrees.								
88.27	89.85	As above.	E7009	88.27	89.85	1.58	-	-	-	-
89.85	90.33	Strongly hematitic and carbonatized lamprophyric dyke. Strongly effervescent. Lower contact at 30 degrees. Strongly biotite altered.								
89.85	90.33	As above.	E7010	89.85	90.33	.48	-	-	-	-
93.48	94.00	Similar to 52 to 53.	E7011	93.48	94.00	.52	-	-	-	-
96.38	96.92	5 to 10% carbonate and/or quartz stringers. Trace pyrite.	E7012	96.38	96.92	.54	-	-	-	-
96.92	98.72	LAMPROPHYRE Medium grey with disseminated biotite blebs. Massive, fine grained to medium grained with chilled upper and lower contacts. Fragmented upper contact. Lower contact at 45 degrees. Strongly carbonatized and effervescent. 3 to 4% disseminated fine grained pyrite. Strongly biotite altered. Minor hematite blebs.								
96.92	98.72	As above.	E7013	96.92	98.72	1.80	-	-	-	-
98.72	108.10	TALCOSE ULTRAMAFIC KOMATIITE Similar to 49 to 96. 3 to 10% carbonate infilled fractures with the occasional carbonate-quartz veinlet. Trace disseminated pyrite with up to 3% pyrite adjacent to some of the carbonate stringers. Sharp lower contact at 35 degrees.								
98.72	99.40	Similar to 52 to 53. 3 to 4 cm carbonate-quartz veinlet at 30 degrees with 1 to 2% pyrite blebs.	E7014	98.72	99.40	.68	-	-	-	-
100.17	101.52	3 to 5% carbonate-quartz blebs and stringers with 1 to 2% disseminated pyrite selvages.	E7015	100.17	101.52	1.35	-	-	-	-
104.28	105.38	Similar to 100 to 101.	E7016	104.28	105.38	1.10	-	-	-	-
106.07	106.62	20 cm strongly foliated and quartz impregnated band. Foliation at 60 degrees. Lightly bleached	E7017	106.07	106.62	.55	-	-	-	-
106.62	108.10	19 cm chilled feldspar porphyry dyke. Trace pyrite. 3 to 5% carbonate-quartz blebs and stringers.	E7018	106.62	108.10	1.48	-	-	-	-

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FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		the occasional coarse grained pyrite bleb. Locally lightly sericitized.								
114.43	115.62	12 cm medium pink quartz feldspar band. Locally lightly oxidized carbonate infilled fractures.	E7025	114.43	115.62	1.19	-	-	-	-
115.62	116.32	14 cm oxidized quartz carbonate vein at 30 degrees. Strongly bleached with 3 to 4% disseminated pyrite. 3 to 5% pink quartz feldspar blebs and infilled fractures.	E7026	115.62	116.32	.70	-	-	-	-
116.32	117.41	Less intensely altered with 15 to 20% wispy carbonate infilled fractures. Locally oxidized. Disseminated biotite in the matrix. Trace pyrite blebs.	E7027	116.32	117.41	1.09	-	-	-	-
117.41	118.85	Moderately bleached, strongly carbonatized with 2 to 4% chloritized mafic xenoliths. 15 cm quartz carbonate chlorite impregnated band. Trace to 1% disseminated pyrite and blebs.	E7028	117.41	118.85	1.44	-	-	-	-
118.85	120.86	CHLORITIZED ULTRAMAFIC KOMATIITE Medium to dark green. Fine grained, lightly to locally strongly foliated at 35 degrees. Several thin altered syenodiorite lenses. Hardness 2 to 3. Foliated bands are carbonate-quartz impregnated and moderately to strongly carbonatized with trace fine grained pyrite. Brecciated lower contact.								
118.85	120.86	2, 16 cm strongly foliated bands at 35 to 45 degrees with carbonate-quartz impregnated stringers. Moderately bleached.	E7029	118.85	120.86	2.01	-	-	-	-
120.86	133.28	FELDSPAR PORPHYRITIC SYENODIORITE Dark grey with the occasional medium pinkish grey bleached, carbonatized band. Fine grained to very fine grained matrix with medium grained anhedral feldspar phenocrysts. Hardness 4.5 to 5. Feldspar porphyritic with the occasional bleached locally silicified band. Trace to 4% carbonate infilled fractures. Trace white quartz vein or dark pink quartz feldspar veinlet. Lightly to moderately magnetic. Poorly defined lower contact. Lightly to moderately blocky core.								
120.86	121.73	40 to 50% moderately to strongly bleached and silicified bands. 2 cm white quartz vein at 35 degrees. Trace to 1% disseminated pyrite.	E7030	120.86	121.73	.87	-	-	-	-
125.16	126.04	50 to 60% moderately bleached, moderately to strongly carbonatized bands. 2 cm glassy quartz vein at 60	E7031	125.16	126.04	.88	-	-	-	-

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FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
145.09	145.80	2, 1 cm pink quartz feldspar veinlets.	E7039	145.09	145.80	.71	-	-	-	-
149.61	149.92	Serpentinized ultramafic komatiite xenolith. Contorted foliation.								
152.50	153.09	Moderately to strongly bleached and carbonatized band. Locally silicified. Trace to 1% fine grained disseminated pyrite. 3 to 5% carbonate infilled fractures.	E7040	152.50	153.09	.59	-	-	-	-
153.35	153.82	Serpentinized ultramafic komatiite xenolith. Lightly bleached. Moderately to strongly carbonatized. 2 to 3% carbonate infilled fractures.								
153.82	154.12	Contaminated syenodiorite with 20 to 30% pink carbonate infilled fractures with trace to 1% coarse grained pyrite blebs.	E7041	153.82	154.12	.30	-	-	-	-
154.12	155.46	Serpentinized ultramafic komatiite xenolith. 3 to 5% carbonate infilled fractures and stringers.								
155.46	155.98	Lightly bleached, porphyritic syenodiorite with 2, 3 and 1 cm quartz carbonate veinlets at 35 and 25 degrees respectively. Trace to 1% pyrite selvage.	E7042	155.46	155.98	.52	-	-	-	-
157.38	157.79	3, thin pink quartz carbonate feldspar stringers. Trace pyrite.	E7043	157.38	157.79	.41	-	-	-	-

157.88

END OF HOLE

DRILLING BY NOREX DRILLING LTD., PORCUPINE, ONTARIO.

All NW casing pulled. All BW casing left in the hole.

CORE STORED AT DOME MINES, SOUTH PORCUPINE, ONTARIO.

CORE CHECKED FOR RADIOACTIVITY AND FLUORESCENCE - NOTHING OF INTEREST.

M. Needham

REF CORD: 9382.0 9875.0 SURVEYED: NO
 LOCATION: 6+18S 1+25W BRID: EAST-WEST
 POST LOCATION: 198m S AND 22m W TO POST 3, CLAIM P.789909

PLACER DOME INC.
 DIAMOND DRILL RECORD

HOLE NO: 20-31
 PROPERTY: PROJECT 280A
 BLACKSTOCK TWP., ONTARIO
 SECTION:

AZIMUTH: 270.0 LENGTH: 75.6 ELEVATION: .0 LOGGED BY: B. NEEDHAM
 DIP: -45.0 CORE SIZE: BQ SYSTEM OF MEASURE: METRIC DATE LOGGED: OCTOBER, 1988
 STARTED: OCTOBER 15, 1988 COMPLETED: OCTOBER 16, 1988 CLAIM NO: 0 - 35.5 P.789909; 35.5 - 75.59 P.789918
 PURPOSE: Test strike extension of anomalous Au assays in hole 280a-3

DIP TESTS (corrected)
 DEPTH AZIMUTH DIP DEPTH AZIMUTH DIP

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
.00	64.70	CASING IN OVERBURDEN								
64.70	70.50	SYENODIORITE Medium pink to grey with dark grey to black fine grained matrix. Medium grained to coarse grained granular texture. Massive. Hardness >5. 1 to 3% irregular carbonate and/or chlorite infilled fractures. Locally lightly to moderately metasonatized bands and/or selvages adjacent to quartz veinlets or fractures. Trace fine grained disseminated pyrite adjacent to quartz veinlets. Lightly magnetic. Rare lightly bleached band. Unit is close to monzonitic composition.								
		The hole was abandoned after the casing and rods broke. 0.05 metres of core was lost in the bottom of the hole. In addition 140 feet of NW casing and 214 feet of BW casing were left in the hole.								
68.07	69.07	5 to 10% glassy quartz veinlets at 30 degree. Lightly bleached selvages with trace disseminated pyrite.	E7044	68.07	69.07	1.00	<.03	-	-	<.03
69.07	70.50	Lightly K metasonatized. 3 to 5% chlorite and carbonate infilled fractures. 18 cm moderately bleached and silicified band.	E7045	69.07	70.50	1.43	.04	-	-	.04
70.50	75.59	LOST CORE								
75.59		END OF HOLE								

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PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 280A-31
PAGE NO: 2

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH Au g/t RERUN REJECT AVERAGE

CORE STORED AT DOME MINES, SOUTH PORCUPINE, ONTARIO.

CASING LEFT IN THE HOLE.

CORE CHECKED FOR RADIOACTIVITY AND FLUORESCENCE - NOTHING
OF INTEREST.

DRILLING BY NDREX DRILLING LTD., PORCUPINE, ONTARIO.

B. Needham

REF CORD: 9382.0 9876.0 SURVEYED: NO

PLACER DOME INC.

LOCATION: 6+18S 1+24W GRID: EAST-WEST

DIAMOND DRILL RECORD

POST LOCATION: 198m S AND 22m W TO POST 3, CLAIM P.789909

HOLE NO: A-31A
PROPERTY: PROJECT 280A
BLACKSTOCK TWP., ONTARIO
SECTION:

AZIMUTH: 270.0

LENGTH: 185.3

ELEVATION: .0

LOGGED BY: B. NEEDHAM

DIP: -45.0

CORE SIZE: 80

SYSTEM OF MEASURE: METRIC

DATE LOGGED: OCTOBER, 1988

STARTED: OCTOBER 16, 1988

COMPLETED: OCTOBER 18, 1988

CLAIM NO: 0 - 36 P.789909; 36 - 185.31 P.789918

PURPOSE: Test strike extension of anomalous Au assays in hole 280a-3

DIP TESTS (corrected)

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
50.00		-46.8	185.31		-49.0

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
.00	62.79	CASING IN OVBURDEN								
62.79	63.72	PORPHYRITIC MONZONITE Dark pinkish grey. Very fine grained matrix with medium grained subhedral feldspar phenocrysts. Hardness >5. Lightly K metasomatized. 1 to 2% irregular chlorite infilled fractures. Lightly magnetic. Trace fine grained pyrite. Bradational lower contact.								
62.79	63.72	As above.	E7046	62.79	63.72	.93	.03	-	-	.03
63.72	67.65	MONZONITE Dark grey to black fine grained matrix with white to pink medium grained subhedral feldspar phenocrysts. Medium grained to coarse grained granular texture. Hardness >5. Non to lightly magnetic. Locally lightly K metasomatized. Trace very fine grained disseminated pyrite. Trace to 2% carbonate infilled fractures. Occasional thin quartz carbonate veinlet. 3 to 5% lightly bleached bands.								
64.58	65.59	1 cm quartz carbonate veinlet at 45 degree. Trace disseminated pyrite selvage.	E7047	64.58	65.59	1.01	<.03	-	-	<.03
66.00	67.65	5 to 10% lightly to moderately bleached and pericitized bands. 2 to 4% irregular carbonate and chlorite infilled fractures. Trace pyrite.	E7048	66.00	67.65	1.65	.07	-	-	.07
67.65	70.54	ALTERED MONZONITE								

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PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 280A-31A
PAGE NO: 2

FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		Moderately to strongly K metasomatized envelope with a 48 cm strongly bleached sericitized, pyritized core. Alteration obliterates the feldspar phenocrysts resulting in a decrease in grain size.								
		Medium to dark orange pink to light green. Fine grained strongly altered zone with partially altered medium grained to coarse grained granular texture margins in which the boundaries of the feldspar phenocrysts are poorly defined. Hardness 4.5 to 5. Lightly to strongly K metasomatized. 3 to 5% irregular carbonate and chlorite infilled fractures. Trace to locally 3% disseminated fine grained pyrite. Moderately to strongly carbonatized. Locally moderately sericitized with strong carbonate alteration. Gradational contacts. Non magnetic.								
		67.65 68.17 Lightly to moderately K metasomatized with 10 to 15 cm fine grained strongly bleached, sericitized band.	E7049	67.65	68.17	.52	-	-	-	-
		68.17 68.87 Strongly K metasomatized, fine grained to medium grained band. 3 to 5% carbonate molybdenite infilled fractures. Lightly to moderately sericitized matrix. Trace to 1% disseminated pyrite.	E7050	68.17	68.87	.70	-	-	-	-
		68.87 69.35 Intensely bleached, sericitized and carbonatized band. 2 to 4% disseminated fine grained pyrite	E7051	68.87	69.35	.48	-	-	-	-
		69.35 70.54 Similar to 68.1 to 68.8. Gradational decrease in alteration intensity downhole.	E7052	69.35	70.54	1.19	-	-	-	-
70.54	95.90	SYENODIORITE Similar to 63 to 67 but with less K feldspar phenocrysts. 3 to 5% lightly to moderately bleached and/or K metasomatized bands. Lightly to moderately blocky core. Near the lower contact has several mafic dykes. Lightly magnetic. Trace disseminated pyrite. Occasional medium to dark grey porphyritic syenodiorite lens. Lower contact at 0 to 10 degrees.								
		73.30 74.30 50% light green, strongly bleached, carbonatized and sericitized bands with 1 to 2% disseminated pyrite. 1 cm quartz carbonate vein at 25 degrees.	E7053	73.30	74.30	1.00	-	-	-	-
		75.03 75.53 2 to 3% quartz carbonate stringer. 3 to 4% irregular carbonate infilled fractures with bleached selvages.	E7056	75.03	75.53	.50	-	-	-	-
		77.25 78.16 44 cm moderately K metasomatized band with 1 cm white quartz vein at 50 degrees. Blocky core. 1 to 2 cm glassy quartz vein at 35 degrees with pyrite selvages.	E7055	77.25	78.16	.91	-	-	-	-

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 280A-31A
PAGE NO: 6

FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		similar to 155 to 156. Upper and lower contacts at 65 and 50 degrees respectively.								
162.38	163.62	As above.	E7079	162.38	163.62	1.24	-	-	-	-
164.12	164.67	Similar to 155 to 156. Sharp upper and lower contacts at 60 and 50 degrees respectively. 2 cm quartz carbonate vein at upper contact at 60 degrees.								
164.12	164.67	As above.	E7080	164.12	164.67	.55	-	-	-	-
179.62	180.16	50% contaminated strongly effervescent syenodiorite. Trace to 1% disseminated pyrite in ultramafic komatiite unit.	E7081	179.62	180.16	.54	-	-	-	-
181.59	182.98	Fine grained syenodiorite dyke. Upper and lower contacts at 50 degrees. Trace disseminated pyrite. 1% carbonate infilled fractures. 5.								
181.59	182.98	As above.	E7082	181.59	182.98	1.39	-	-	-	-
183.10	183.60	Similar to 179 to 180. 3 to 5 cm bleached silicified band.	E7083	183.10	183.60	.50	-	-	-	-
184.02	185.12	Similar to 179 to 180. 5 to 10% quartz blebs associated with the syenodiorite lenses. Blocky, biotitic core. 3 to 5% carbonate infilled fractures.	E7084	184.02	185.12	1.10	-	-	-	-

185.31 END OF HOLE

DRILLING BY NOREX DRILLING LTD., PORCUPINE, ONTARIO.

CORE STORED AT DOME MINES, SOUTH PORCUPINE, ONTARIO.

CASING LEFT IN THE HOLE.

CORE CHECKED FOR RADIOACTIVITY AND FLUORESCENCE - NOTHING OF INTEREST.

B. Meadham

REF CORD: 9504.0 10350.0 SURVEYED: NO

PLACER DOME INC.

LOCATION: 4+96S 3+50E GRID: EAST-WEST

DIAMOND DRILL RECORD

POST LOCATION: 137m N AND 94m E TO POST #1, CLAIM P.789908

HOLE NO: DA-32
PROPERTY: PROJECT 280A
BLACKSTOCK TWP., ONTARIO
SECTION:

AZIMUTH: 270.0 LENGTH: 200.6 ELEVATION: .0

LOGGED BY: B. NEEDHAM

DIP: -45.0 CORE SIZE: BQ SYSTEM OF MEASURE: METRIC

DATE LOGGED: OCTOBER, 1988

STARTED: OCTOBER 19, 1988 COMPLETED: OCTOBER 25, 1988 CLAIM NO: P.789908

PURPOSE: Test mag low- IP target and possible NE shear zone

DIP TESTS (corrected)

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
50.00		-47.5	200.55		-44.8

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
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.00 70.86 CASING IN OVERBURDEN

70.86 74.45 MOTTLED TEXTURED MEDIUM GRAINED MAFIC FLOW
 Medium to dark grey green. Fine grained to medium grained lightly foliated texture. Hardness 4. Thin wispy carbonate and/or epidote infilled fractures parallel to foliation. Foliation at 30 to 40 degrees. Non magnetic. Blocky core. Occasional epidote silicified band. Moderately carbonatized and effervescent.

74.45 74.82 SYENODIORITE
 Dark grey pink. Chilled, fine grained to very fine grained with 2 to 3% chloritized mafic xenoliths. Hardness 5. 1 cm quartz carbonate and chlorite veinlet at 40 degrees. Trace to 1% very fine grained disseminated pyrite. Sharp upper and lower contacts at 60 and 35 degrees respectively.

74.45 74.82 As above.

E7085	74.45	74.82	.37	-	-	-	-
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74.82 98.55 FOLIATED MAFIC FLOW
 Medium to dark grey green with the occasional strongly bleached, epidote altered band. Locally lightly bleached due to carbonatization. Lightly to locally strongly foliated at 40 to 45 degrees. Fine grained to very fine grained matrix. Hardness 4.5 to 3.5 decreasing downhole. Gradational increase in carbonatization downhole from moderately to strongly carbonatized, moderately to

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PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 280A-32
PAGE NO: 4

FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
119.76	120.60	2, 1 cm white quartz veinlets at 80 and 35 degrees.	E7106	119.76	120.60	.84	-	-	-	-
125.45	126.20	3 to 5% siliceous, epidote altered bands and stringers. 1 cm glassy quartz veinlet at 45 degrees.	E7107	125.45	126.20	.75	-	-	-	-
126.85	127.40	22 cm epidote altered, lightly to moderately brecciated band with 15 to 20% smokey grey quartz veinlets. 2 to 3% hematite blebs.	E7108	126.85	127.40	.55	-	-	-	-
128.80	130.10	3, 1 to 2 cm white quartz carbonate veins at 35 to 45 degrees. 2 to 3% carbonate infilled fractures.	E7109	128.80	130.10	1.30	-	-	-	-
130.52	131.42	3 to 5% carbonate infilled fractures. 2 to 3% irregular siliceous epidote infilled fractures.	E7110	130.52	131.42	.90	-	-	-	-
131.42	155.82	FOLIATED MAFIC FLOW Similar to 74 to 98. Moderately to strongly carbonatized and effervescent. Non magnetic. Locally lightly bleached and silicified. 3 to 10% carbonate infilled fractures parallel to foliation at 45 degrees. Occasional glassy to smokey grey quartz vein.								
131.87	133.13	10 cm white quartz carbonate and chlorite vein at 45 degrees with trace to 1% fine grained pyrite.	E7111	131.87	133.13	1.26	-	-	-	-
133.50	134.58	2, 1 cm glassy quartz carbonate veinlet.	E7112	133.50	134.58	1.08	-	-	-	-
135.69	136.43	32 cm moderately bleached, strongly carbonatized band with 3 to 5% white quartz carbonate and chloritized stringers. 1 cm smokey grey quartz stringer at 85 degrees.	E7113	135.69	136.43	.74	-	-	-	-
139.59	140.69	5 to 10% carbonate-quartz veinlets and stringers with 1 to 2% fine grained disseminated pyrite. Veinlets dominantly parallel to foliation.	E7114	139.59	140.69	1.10	-	-	-	-
141.48	142.25	Similar to 139 to 140.	E7115	141.48	142.25	.77	-	-	-	-
142.64	143.88	4, 3 to 5 cm glassy to smokey grey quartz veinlet and/or impregnated bands with epidote altered selvages or blobs. Trace fine grained pyrite.	E7116	142.64	143.88	1.24	-	-	-	-
149.23	150.00	3 to 5% carbonate infilled fractures parallel to foliation. 1 cm vuggy pyritized carbonate veinlets at 40 degrees.	E7117	149.23	150.00	.77	-	-	-	-
150.00	150.62	Similar to 149 to 150. 1 to 2 cm irregular glassy quartz veinlet.	E7118	150.00	150.62	.62	-	-	-	-
150.86	151.79	3, 2 to 4 cm siliceous, epidote altered impregnated bands. 5 to 10% dark red cherty bands with lamination at 55 degrees. Trace to 1% pyrite blebs.	E7119	150.86	151.79	.93	-	-	-	-
154.42	155.82	5 to 10% carbonate infilled fractures. 2 to 3% thin dark red cherty bands. Locally strongly chloritized with pyrite blebs. Contorted foliation at 10 degrees.	E7120	154.42	155.82	1.40	-	-	-	-

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 280A-32
PAGE NO: 5

FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
155.82	157.91	CONTAMINATED SYENODIORITE Dark pinkish green grey. Fine grained to medium grained, lightly foliated at 50 degrees. Anhedral pink feldspar clots. Hardness 4.5 to 5. Strongly chloritized matrix. Moderately to strongly carbonatized and effervescent. Chilled upper and lower contacts at 15 and 55 degrees respectively. Non to locally moderately magnetic. 1 to 3% carbonate infilled fractures. Occasional strongly foliated silicified mafic basalt xenolith. Locally lightly hematitic. 1 to 3% 1 to 2 cm quartz carbonate and chlorite vein commonly with disseminated pyrite selvages.								
155.82	156.71	2, 1 cm quartz carbonate chlorite veins at 45 degrees. 1 to 3% carbonate infilled fractures.	E7121	155.82	156.71	.89	-	-	-	-
156.71	157.91	As above.	E7122	156.71	157.91	1.20	-	-	-	-
157.91	159.43	FOLIATED MAFIC FLOW Similar to 131 to 155. Foliation at approximately 35 degrees. Trace to 1% fine grained pyrite. Moderately to strongly chloritized. 2, thin crosscutting quartz carbonate veinlets at 60 degrees. Sharp lower contact at 30 degrees. Strongly effervescent.								
157.91	159.43	As above.	E7123	157.91	159.43	1.52	-	-	-	-
159.43	162.87	CONTAMINATED SYENODIORITE Similar to 155 to 157. Strongly carbonatized and effervescent. Bleached, intensely carbonatized and locally K metasomatized lower contact at 50 degrees.								
159.43	160.93	3 to 5% carbonate infilled fractures. 1 to 2% thin quartz carbonate veinlets. Trace fine grained pyrite.	E7124	159.43	160.93	1.50	-	-	-	-
160.93	161.86	Intensely carbonatized, lightly to moderately K metasomatized. 4, 0.5 to 1 cm quartz carbonate veinlet with 1 to 2% disseminated pyrite selvages. 18 cm foliated basalt xenolith.	E7125	160.93	161.86	.93	-	-	-	-
161.86	162.87	Similar to 159 to 160. Moderately to strongly bleached lower contact with numerous carbonate chlorite infilled fractures.	E7126	161.86	162.87	1.01	-	-	-	-

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 280A-32
PAGE NO: 8

FRDM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		Similar to 98 to 131. Strongly to intensely carbonatized, moderately bleached upper contact. Non magnetic. Strongly carbonatized.								
	185.15	186.36	E7145	185.15	186.36	1.21	-	-	-	-
		Intensely carbonatized, moderately bleached zone decreasing downhole. 5 to 10% carbonate-quartz stringers. Trace pyrite blebs.								
187.27	200.55	MOTTLED TEXTURED MEDIUM GRAINED MAFIC FLOW Similar to 98 to 131. Mottled moderately epidote altered medium grained texture. Non magnetic. Moderately to strongly carbonatized and effervescent. Occasional hematite infilled fractures.								
	187.27	187.95	E7146	187.27	187.95	.68	-	-	-	-
		3 to 5% carbonate infilled fractures. Trace pyrite.								
	188.93	190.04	E7147	188.93	190.04	1.11	-	-	-	-
		3, 0.5 to 1 cm quartz carbonate veinlets with 1 to 2% disseminated pyrite selvages. 3 to 4% siliceous epidote stringers.								
	193.61	194.18	E7148	193.61	194.18	.57	-	-	-	-
		Moderately to strongly carbonatized. 3 to 5% quartz carbonate infilled fractures and stringers occasionally with chlorite selvages. Trace to 1% pyrite.								
	197.00	198.55	E7149	197.00	198.55	1.55	-	-	-	-
		4, 3, 10 and 2 cm smokey grey quartz carbonate veins with pyrite selvages at 60, 48, 70 and 60 degrees respectively. 15 cm foliated, pyritized quartz carbonate impregnated band at 40 degrees.								

200.55 END OF HOLE

CASING LEFT IN THE HOLE.

DRILLING BY NDREX DRILLING LTD., PORCUPINE, ONTARIO.

CORE STORED AT DOME MINES, SOUTH PORCUPINE, ONTARIO.

CORE CHECKED FOR RADIODACTIVITY AND FLUORESENCE - NOTHING OF INTEREST.

B. Needham

REF CORD: 9627.0 10050.0 SURVEYED: NO

PLACER DOME INC.

LOCATION: 3+73S 0+50E GRID: EAST-WEST

DIAMOND DRILL RECORD

POST LOCATION: 8m N AND 4m W TO POST 4, CLAIM P.789908

HOLE NO: DA-33
PROPERTY: PROJECT 280A
BLACKSTOCK TWP., ONTARIO
SECTION:

AZIMUTH: 270.0

LENGTH: 188.4

ELEVATION: .0

LOGGED BY: B. NEEDHAM

DIP: -45.0

CORE SIZE: 80

SYSTEM OF MEASURE: METRIC

DATE LOGGED: OCTOBER, 1988

STARTED: OCTOBER 25, 1988

COMPLETED: OCTOBER 27, 1988

CLAIM NO: 0 - 4.0 P.789908; 4.0 - 188.37 P.789909

PURPOSE: TEST LATERAL EXTENSION OF ANOMALOUS AU ASSAYS IN HDLE 280A-6

DIP TESTS (corrected)

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
73.00		-50.0	188.37		-47.8

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
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.00 74.06 CASING IN OVERBURDEN

74.06 188.37 MONZONITE

Medium pink and white with black fine grained matrix. Medium grained to coarse grained granular texture. Subhedral to anhedral K feldspar phenocrysts. Hardness >5. Lightly magnetic. Occasional light green to pink lightly to moderately altered bands associated with white to glassy quartz veins. Alteration results in a decrease in grain size and/or the feldspar porphyritic grain boundaries becoming diffuse. Alteration includes moderate to strong carbonatization and sericitization with associated trace to 1% disseminated pyrite. Locally lightly to moderately K metasomatized. Occasional chloritized mafic xenolith. Trace to locally 1% irregular carbonate and/or chlorite infilled fractures.

78.52 79.60 12 and 2 cm white quartz veins at 40 and 30 degrees to the core axis respectively with bleached, carbonatized selvages with 1% disseminated pyrite. 30 to 40% bleached bands associated with carbonate-quartz infilled fractures.

79.95 80.63 1 cm quartz vein at 40 degree with strongly sericitized carbonatized selvages. 9 cm lightly bleached band.

81.84 82.18 Similar to 79 to 80.

82.54 83.47 2, 2 and 1 cm quartz vein at 40 and 50 degree respectively. 50% moderately bleached, carbonatized and lightly sericitized altered bands.

84.46 84.90 2 cm quartz vein at 70 degree associated

E7150	78.52	79.60	1.08	-	-	-	-
E7151	79.95	80.63	.68	-	-	-	-
E7152	81.84	82.18	.34	-	-	-	-
E7153	82.54	83.47	.93	-	-	-	-
E7154	84.46	84.90	.44	-	-	-	-

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PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 280A-33
PAGE NO: 3

FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
131.07	132.43	As above.	E7170	131.07	132.43	1.36	-	-	-	-
132.43	133.22	As above.	E7171	132.43	133.22	.79	-	-	-	-
134.00	134.68	27 cm quartz carbonate vein at 23 degrees with 3 to 5% chlorite blebs and 1 to 2% pyrite blebs. Moderately bleached, carbonatized selvages.	E7172	134.00	134.68	.68	-	-	-	-
135.00	135.64	3 cm glassy quartz vein at 18 degrees. 1 cm crosscutting quartz veinlet at 70 degrees. Lightly carbonatized. Chlorite and disseminated pyrite selvages.	E7173	135.00	135.64	.64	-	-	-	-
140.23	140.66	Lightly K metasomatized. 1 to 2 cm quartz carbonate vein at 25 degrees with trace to 1% coarse grained pyrite. Strongly chloritized upper selvage. Trace to 1% fine grained disseminated pyrite.	E7174	140.23	140.66	.43	-	-	-	-
140.77	142.05	2 cm quartz carbonate vein at 25 degrees. Lightly carbonatized with trace fine grained disseminated pyrite. 1 to 2% irregular carbonate infilled fractures.	E7175	140.77	142.05	1.28	-	-	-	-
145.40	145.90	2 to 3% irregular carbonate and/or chlorite infilled fractures. Lightly bleached with trace disseminated pyrite. Irregular quartz stringer.	E7176	145.40	145.90	.50	-	-	-	-
147.22	147.63	Similar to 140 to 142.	E7177	147.22	147.63	.41	-	-	-	-
148.18	149.18	Similar to 140 to 142.	E7178	148.18	149.18	1.00	-	-	-	-
149.60	150.03	2, 1 to 2 cm quartz carbonate vein at 65 and 50 degrees. Moderately bleached, albitized selvages.	E7179	149.60	150.03	.43	-	-	-	-
150.93	151.23	Similar to 140 to 142. Coarse grained pyrite blobs.	E7180	150.93	151.23	.30	-	-	-	-
158.62	158.99	Similar to 140 to 142.	E7181	158.62	158.99	.37	-	-	-	-
162.85	163.73	Similar to 140 to 142.	E7182	162.85	163.73	.88	-	-	-	-
164.53	164.86	Moderately bleached and carbonatized band associated with thin carbonate pyrite infilled fractures.	E7183	164.53	164.86	.33	-	-	-	-
169.17	185.37	Lightly to moderately K metasomatized zone. 1 to 3% quartz veins with chlorite carbonate and disseminated pyrite selvages. Trace to 2% irregular wispy carbonate infilled fractures.								
169.17	169.64	As above.	E7184	169.17	169.64	.47	-	-	-	-
171.03	172.64	As above. Blocky core. 2, 1 to 2 cm quartz carbonate veins.	E7185	171.03	172.64	1.61	-	-	-	-
174.10	175.08	As above. 5 to 10% smokey grey to glassy quartz veins at 30 dominantly at degrees.	E7186	174.10	175.08	.98	-	-	-	-
178.99	179.30	As above. 3 cm quartz carbonate vein at 40 degrees.	E7187	178.99	179.30	.31	-	-	-	-
183.29	184.56	As above. Moderately K metasomatized. 1 to 2 cm smokey grey quartz carbonate vein at 35 degrees.	E7188	183.29	184.56	1.27	-	-	-	-
186.12	186.59	Similar to 140 to 142.	E7189	186.12	186.59	.47	-	-	-	-

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 280A-33
PAGE NO: 4

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH Au g/t RERUN REJECT AVERAGE

188.37 END OF HOLE

DRILLING BY NOREX DRILLING LTD., PORCUPINE, ONTARIO.

66 Feet of BW casing pulled and 100 feet of NW casing was pulled, leaving the.
Remainder of the casing in the hole.

CORE STORED AT DOME MINES, SOUTH PORCUPINE, ONTARIO.

CORE CHECKED FOR RADIOACTIVITY AND FLUORESCENCE - NOTHING OF INTEREST.

GEOLOGY: The entire hole intersected predominantly barren medium to coarse grained monzonitic to locally syenodioritic acid intrusive. No significant shearing was observed. Light to moderate alteration was commonly associated with glassy to smokey grey quartz and or quartz carbonate veins or chlorite and carbonate infilled fractures.

ECONOMIC GEOLOGY: Some of the quartz and quartz carbonate veins had coarse grained pyrite blebs and occasionally molybdenum infilled fractures. These veins may be anomalous in gold. It is presumed that the alteration zone intersected in hole 280a-6 pinches out to the north and this is why the zone was not intersected in this hole.

B. Neidham

REF CORD: 9770.0 9500.0 SURVEYED: NO
LOCATION: L2+30S 5+00W GRID: EAST-WEST
POST LOCATION: 98m S and 100m W to POST 3, CLAIM P.789917

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 280A-38
PROPERTY: PROJECT 280A
BLACKSTOCK TWP., ONTARIO
SECTION:

AZIMUTH: 35.0 LENGTH: 153.6 ELEVATION: .0
DIP: -45.0 CORE SIZE: 80 SYSTEM OF MEASURE: METRIC
STARTED: OCTOBER 24, 1988 COMPLETED: OCTOBER 26, 1988 CLAIM NO: P.789917

LOGGED BY: T. TENNENT
DATE LOGGED: OCTOBER 27, 1988

PURPOSE: To test magnetic low, IP target and possible N-S shear

DIP TESTS (corrected)
DEPTH AZIMUTH DIP DEPTH AZIMUTH DIP
50.00 -45.0 150.00 -44.0

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH Au g/t RERUN REJECT AVERAGE

.00 45.70 CASINGS IN DVERBURDEN

45.70 90.50 MONZONITE
Pink, black, dark green, white. Medium grained. Hardness 6. Non foliated to weakly foliated at 55 degrees to the core axis. Moderately magnetic.

Trace pyrite.

45.70 Weakly to moderately broken core.
At 50.94 metres a 1 cm quartz stringer at 55 degrees to the core axis. Trace pyrite.
At 55.05 metres a 3 cm quartz veinlet at 50 degrees to the core axis. Barren.

At 58.24 metres a 5 cm quartz veinlet at 45 degrees to the core axis. 1% blebs pyrite.

At 64.43 metres a 3 cm quartz veinlet at 63 degrees to the core axis. Trace pyrite.

At 75.60 metres a 5 cm quartz veinlet at 40 degrees to the core axis. 10 cm silicified selvages with 3% fine grained disseminated pyrite.

At 77.30 metres a 1 cm quartz stringer at 55 degrees to the core axis. 2% disseminated pyrite.

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PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 280A-38
PAGE NO: 2

FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		At 83.00 metres a 2 cm quartz stringer at 55 degrees to the core axis. 2% disseminated pyrite.								
		At 84.15 metres a 2 cm quartz stringer at 70 degrees to the core axis. 2% disseminated pyrite.								
		At 84.74 metres a 23 cm quartz vein at 35 degrees to the core axis. Trace disseminated pyrite. 20 cm silicified and K metasomatized selvages with 1% disseminated pyrite.								
	54.90 55.20	3 cm quartz veinlet at 50 degrees to the core axis. Barren.	E6368	54.90	55.20	.30	-	-	-	-
	58.20 58.60	5 cm quartz veinlet at 45 degrees to the core axis. 1% blebs pyrite.	E6369	58.20	58.60	.40	-	-	-	-
	64.30 64.60	3 cm quartz veinlet at 63 degrees to the core axis. Trace pyrite.	E6370	64.30	64.60	.30	-	-	-	-
	69.60 69.70	Three 6 mm quartz stringers at 53 degrees to the core axis. 1% pyrite.	E6371	69.60	69.70	.10	-	-	-	-
	75.50 76.00	See description above.	E6372	75.50	76.00	.50	-	-	-	-
	84.70 85.20	See description above.	E6373	84.70	85.20	.50	-	-	-	-
	89.25 89.60	Silicified and K metasomatized monzonite with 1% pyrite. Three 3 mm quartz stringers at 62 degrees to the core axis, 1% pyrite.								
		At 90.50 metres lower contact sharp at 52 degrees to the core axis.								
	89.25 89.60	See description above.	E6374	89.25	89.60	.35	-	-	-	-
90.50	101.50	ALTERED MONZONITE Pink, black, white. Medium grained. Hardness 6. Moderately magnetic. Non foliated. 75% Moderately silicified and K metasomatized, weakly sericitized monzonite with 2% fine grained disseminated pyrite and 5% quartz veinlets. The monzonite has been hydrothermally altered around the quartz veinlets. The crystal boundaries are diffuse. There are 25% short bands of weakly altered monzonite.								
	90.50 92.00	1% to 2% pyrite. Five 5 mm to 1 cm quartz stringers at 53 degrees to the core axis, 1% pyrite.	E6375	90.50	92.00	1.50	-	-	-	-
	92.00 93.50	2% pyrite. Five 5 mm to 1 cm quartz stringers at 35 degrees to the core axis, 1% pyrite.	E6376	92.00	93.50	1.50	-	-	-	-
	93.50 95.00	1% pyrite. Three 1 to 2 cm quartz stringers at 35 degrees to the core axis. Barren to trace pyrite.	E6377	93.50	95.00	1.50	-	-	-	-
	95.00 96.50	1% pyrite. Eight 4 mm to 8 cm quartz stringers at 13 to 40 degrees to the core axis, barren to 1% pyrite.	E6378	95.00	96.50	1.50	-	-	-	-
	96.50 98.00	1 to 2% pyrite. Six 2 mm to 1 cm quartz	E6379	96.50	98.00	1.50	-	-	-	-

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 280A-3B
PAGE NO: 4

FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		The ultramafic komatiite is dark green grey. Very fine grained. Hardness 2.5. Foliated at 45 degrees to the core axis. Moderately magnetic. Strongly carbonatized (calcite) and talcose. Barren.								
134.50		Lower contact sharp at 40 degrees to the core axis.								
134.50	136.00	See description above.	E6386	134.50	136.00	1.50	-	-	-	-
134.50	135.20	Carbonatized ultramafic komatiite.								
135.20	137.10	Contaminated syenodiorite. 1% pyrite.								
136.00	137.10	See description above.	E6387	136.00	137.10	1.10	-	-	-	-
137.10	139.20	Carbonatized ultramafic komatiite.								
139.20	141.75	Contaminated syenodiorite. Trace pyrite.								
141.75	142.00	Carbonatized ultramafic komatiite.								
142.00	142.75	Contaminated syenodiorite. Trace pyrite.								
142.75	143.00	Carbonatized ultramafic komatiite.								
143.00	143.36	Contaminated syenodiorite. Trace pyrite.								
143.36	147.30	Carbonatized ultramafic komatiite. Lower contact at 35 degrees to the core axis.								
147.30	153.62	Contaminated syenodiorite. Up to 1% pyrite.								
149.30	150.30	Five 3 mm quartz stringers with trace pyrite at 50 degrees to the core axis. K metasomatized selvages with 2% pyrite.	E6388	149.30	150.30	1.00	-	-	-	-
150.30	151.40	Six 3 mm quartz stringers with trace pyrite at 35 degrees to the core axis. K metasomatized selvages with 2% pyrite.	E6389	150.30	151.40	1.10	-	-	-	-
153.62		END OF HOLE								

GEOLOGY: Hole 280A-3B intersected monzonite, altered monzonite, syenodiorite and intercalated carbonatized komatiites and contaminated syenodiorite. From 90.50 to 101.50 meters, an eleven meter zone of weakly magnetic, moderately K metasomatized and silicified monzonite with 2% pyrite was encountered. The unit has 5% quartz veinlets with up to 1% pyrite. This zone would account for the weak IP anomaly and the magnetic low. No shearing was encountered.

ECONOMIC GEOLOGY: The quartz veinlets with 2% disseminated

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 280A-3B
PAGE NO: 5

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH Au g/t RERUN REJECT AVERAGE,

pyrite found in the zones of altered monzonite may be anomalous in gold.

CASING LEFT IN HOLE.

DRILLING BY NOREX DRILLING LTD., PORCUPINE, ONTARIO.

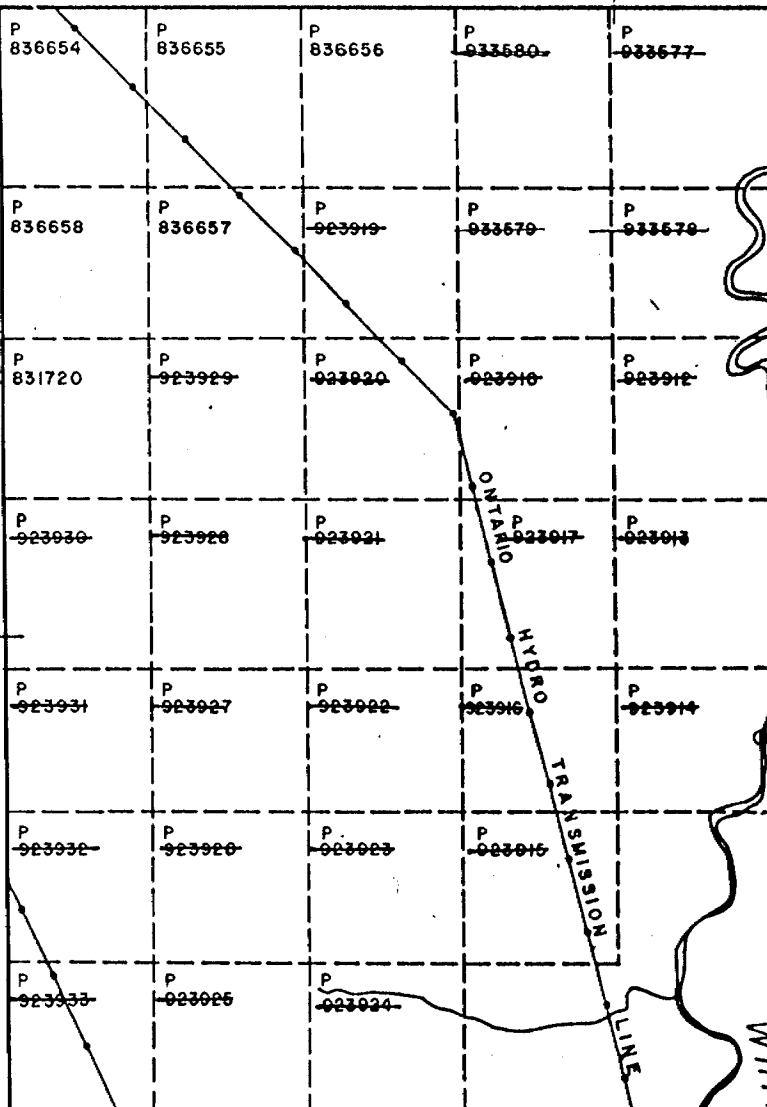
CORE CHECKED FOR RADIOACTIVITY AND FLUORESCENCE - NOTHING OF INTEREST.

CORE STORED AT DOME MINES, SOUTH PORCUPINE, ONTARIO.

G. McEwen

1M

2M



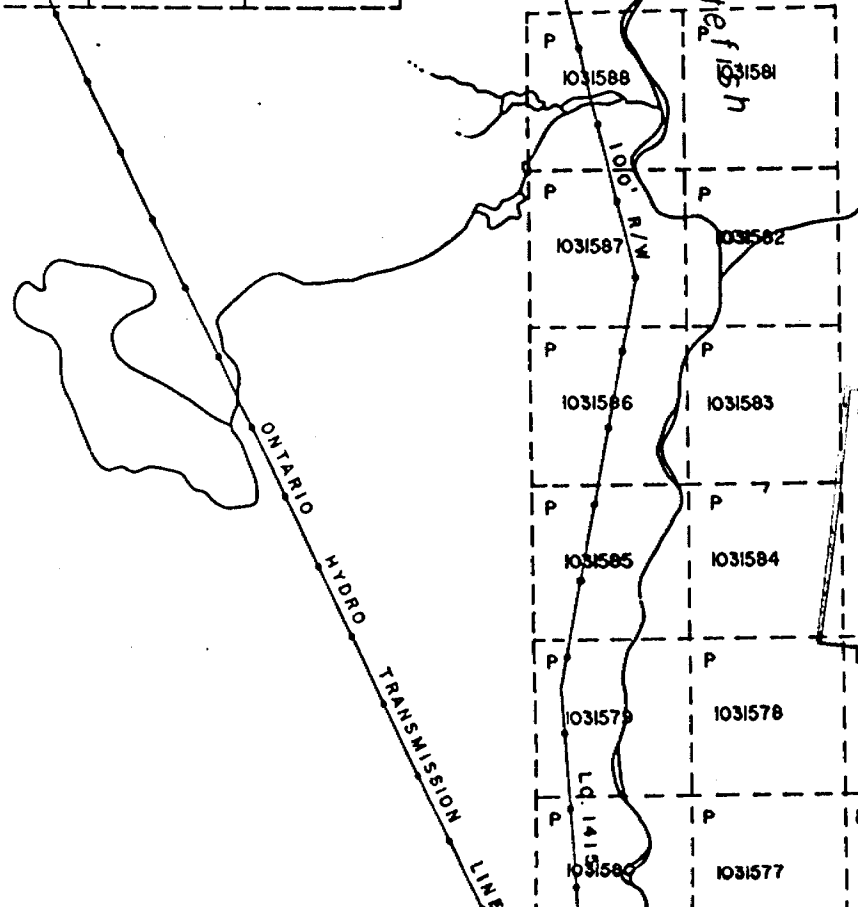
5M

4M

3M

ALLON TWP.

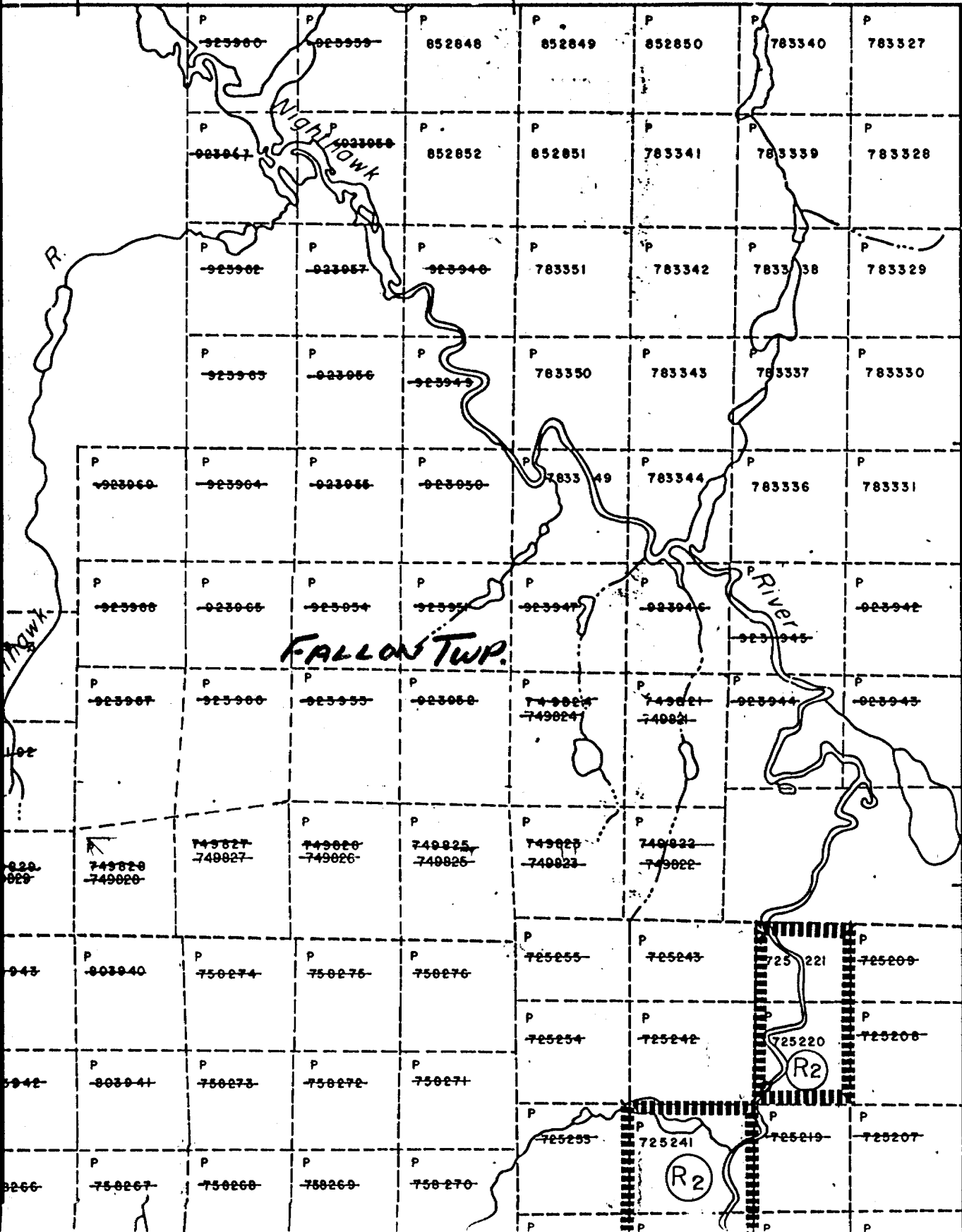
*FASKEN
BLACKSTOCK
TWP.*



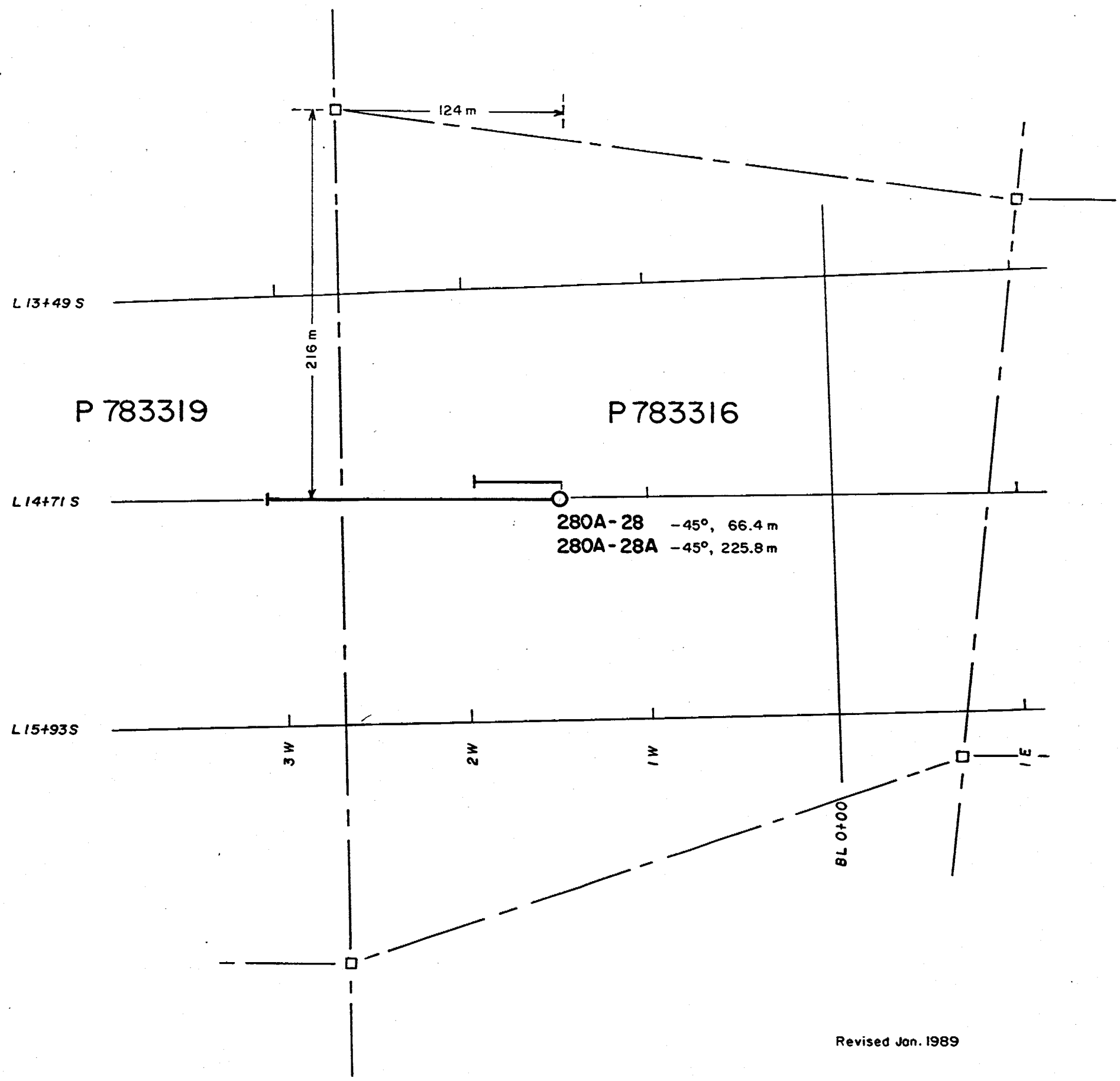
ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE
DEC 12 1989
RECEIVED

4 M

5 M



FASKEN

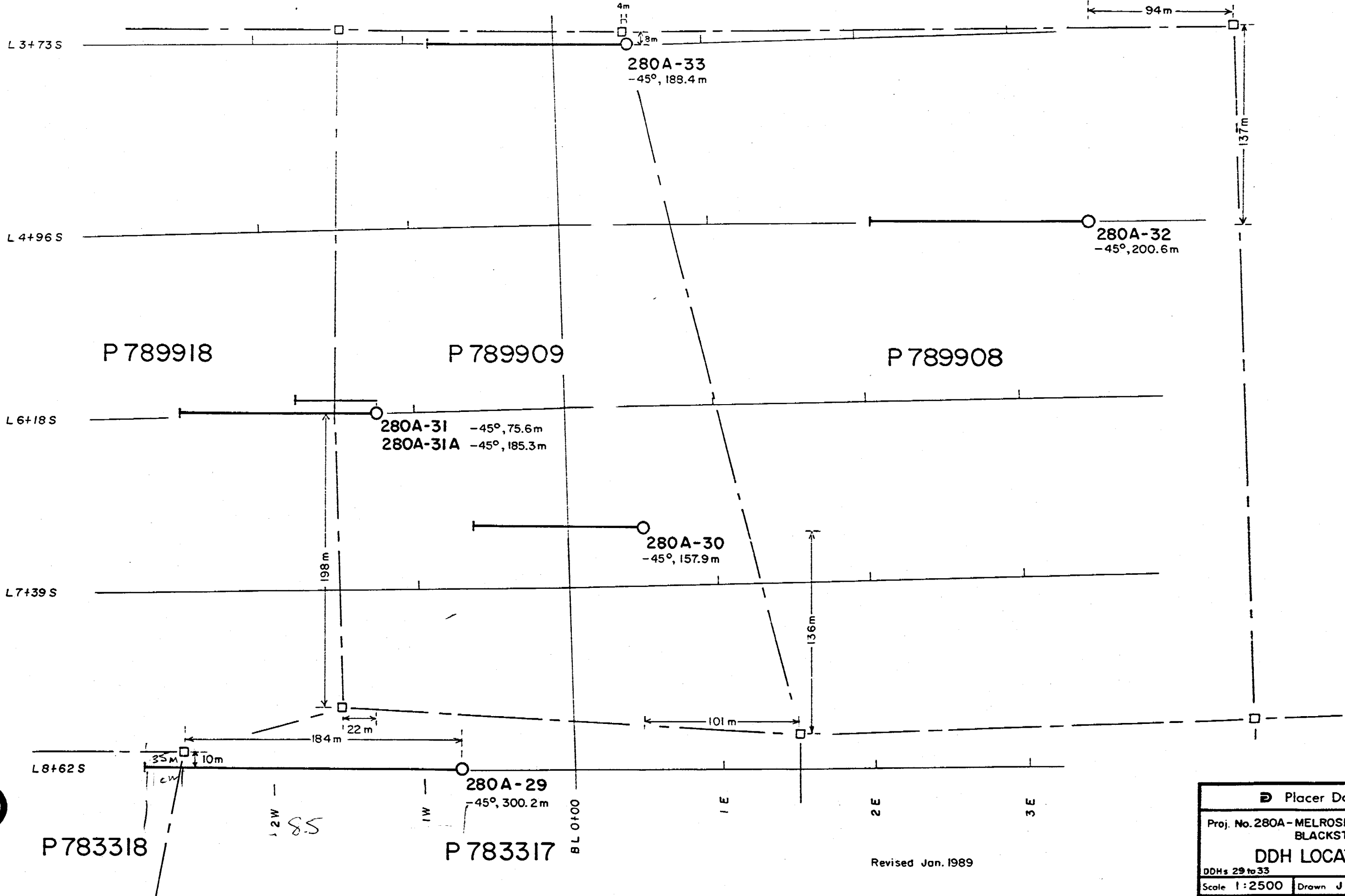


280A-28 -45°, 66.4 m
 280A-28A -45°, 225.8 m



Revised Jan. 1989

Placer Dome Inc.		
Proj. No. 280A - MELROSE OPTION, BLACKSTOCK TWP., ONT.		
DDH LOCATIONS		
DDH 280A-28A		
Scale 1 : 2500	Drawn JW	Dwg. No.
Date DEC. 1988	NTS Ref. 42A/7	280A-65



Placer Dome Inc.		
Proj. No. 280A - MELROSE OPTION, BLACKSTOCK TWP., ONT.		
DDH LOCATIONS		
<small>DDHs 29 to 33</small>		
Scale 1:2500	Drawn JW	Dwg. No.
Date DEC. 1988	NTS Ref. 42A/7	280A-66

Revised Jan. 1989

P 789916

TL 19+00N

L 0+00

P 789920

280A-35
-65°, 249.3 m

226 m

P 789917

280A-36
-45°, 240.2 m

L 1+26 S

8 W

7 W

5 W

4 W

3 W

280A-37
-45°, 301.1 m

L 3+00 E

280A-38
-45°, 153.6 m

98 m

L 5+00 E

100 m

L 4+00 E

Langmuir Twp.
Blackstock Twp.



Revised Jan. 1989

Placer Dome Inc.		
Proj. No. 280A - MELROSE OPTION, LANGMUIR & BLACKSTOCK TWPS., ONT.		
DDH LOCATIONS		
DDHs 35 to 38		
Scale 1 : 2500	Drawn JW	Dwg. No.
Date DEC. 1988	NTS Ref. 42A/7	280A-68



Report of Work

DOCUMENT No. 118906-544

The Mining Act

Instructions - Supply required data on a separate form for each type of work to be recorded (see table below). For Geo-technical work use form no. 1362 "Report of Work (Geological, Geophysical, Geochemical and Expenditures)".

Name and Postal Address of Recorded Holder: Placer Dome Inc., P.O. Box 350, Suite 3500, IBM Tower, TD Centre, Toronto, Ontario M5K 1N3. Prospector's Licence No. T837

Summary of Work Performance and Distribution of Credits

Table with columns: Total Work Days Cr. claimed (4,638), Mining Claim Prefix/Number, Work Days Cr., Mining Claim Prefix/Number, Work Days Cr., Mining Claim Prefix/Number, Work Days Cr. Includes checkboxes for Manual Work, Shaft Sinking, etc., and a barcode for 42A07SW0017 16 BLACKSTOCK 900.

All the work was performed on Mining Claim(s): P783316, 783317, 783318, 783319, 789908, 789909, 789917, 789918, P789916, 789920.

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Table listing drilling equipment (DDH 280A-028A to 280A-038) with depths in meters and feet. Includes a date stamp 'JAN 23 1989', a 'RECEIVED' stamp from the Ontario Geological Survey Assessment Files Office dated 'DEC 12 1989', and a signature box for the Recorded Holder or Agent.

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: John Morganti, Manager, Exploration, Placer Dome Inc., P.O. Box 350, Suite 3500, IBM Tower, TD Centre, Toronto, Ontario M5K 1N3. Date Certified: Dec. 21/88.

Table of Information/Attachments Required by the Mining Recorder

Table with columns: Type of Work, Specific information per type, Other information (Common to 2 or more types), Attachments. Rows include Manual Work, Shaft Sinking, Compressed air, and Power Stripping.

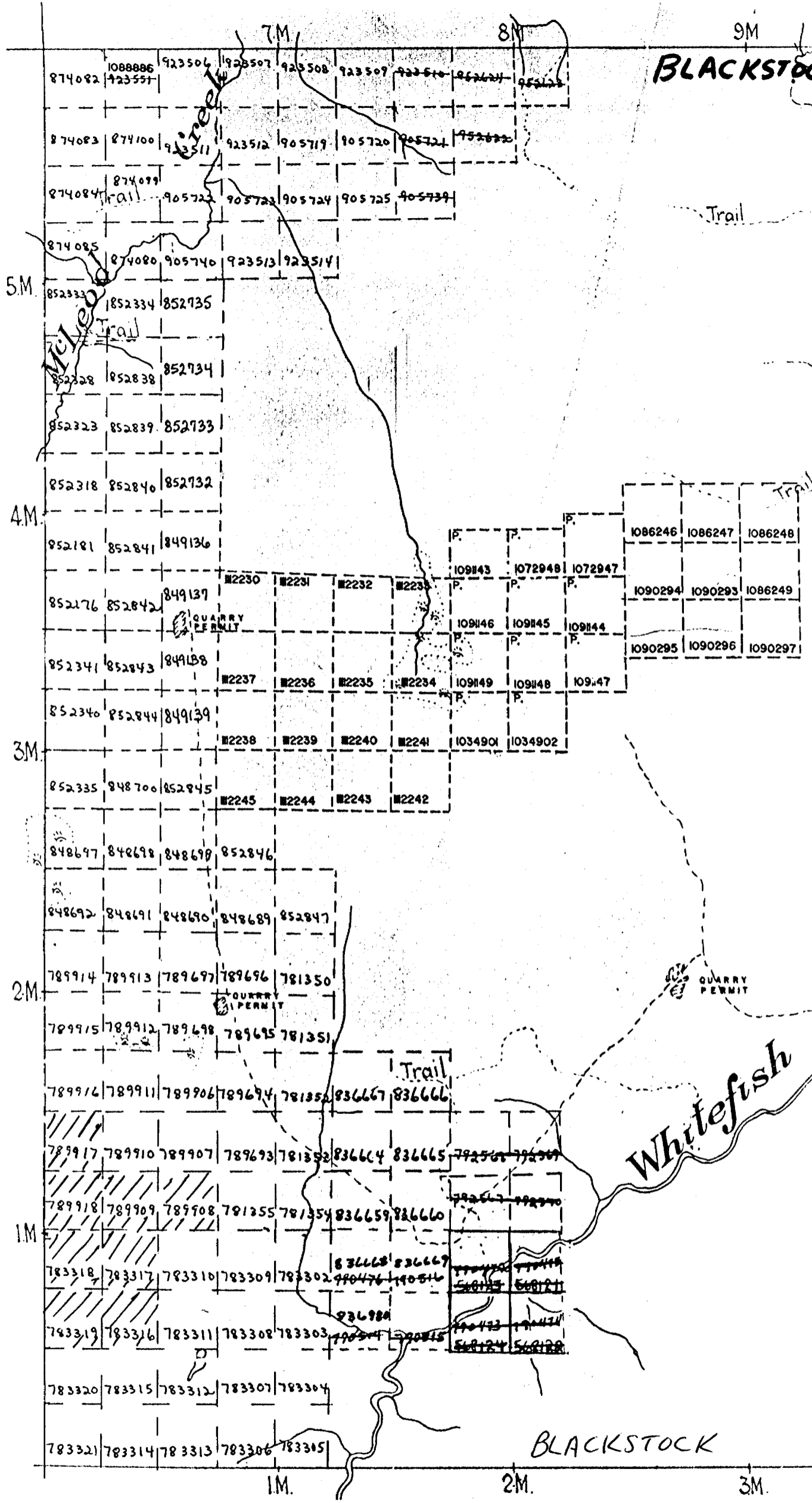
SCHEDULE A

<u>Claim No.</u>	<u>Days of Work</u>	<u>Claim No.</u>	<u>Days of Work</u>
P 755304	40	P 783338	40
781350	40	783339	40
781351	40	783340	40
781352	40	783341	40
781353	20	783342	40
781354	20	783343	40
783302	20	783344	40
783303	20	783349	40
783304	20	783350	40
783305	20	783351	40
783306	20	789695	40
783307	20	789696	40
783308	20	831720	60
783311	20	836654	20
783312	20	836655	20
783313	20	836656	20
783314	20	836657	20
783315	20	836658	20
783316	20	836659	20
783319	20	836660	20
783320	20	836664	20
783321	20	836665	20
783322	20	836666	40
783323	20	836667	40
783324	20	836668	20
783327	20	836669	20
783328	20	→ 836980	20
783329	40	→ 848689	40
783330	40	848690	40
783331	40	848691	40
783336	40	848692	10
783337	40	848697	40

- 2 -

<u>Claim No.</u>	<u>Days of Work</u>	<u>Claim No.</u>	<u>Days of Work</u>
P 848698	40	P 852658	40
848699	40	852659	40
848700	40	852660	40
849138	60	852661	40
849139	60	852662	40
852335	40	852663	40
852336	40	852664	40
852337	40	852665	40
852338	60	852666	40
852339	60	852667	40
→ 852340	40	852668	40
852341	40	852669	40
852342	40	852700	40
852343	40	852701	40
852438	33	852702	40
852640	40	852703	40
852641	40	852704	40
852642	40	852705	40
852643	40	852706	40
852644	40	852707	40
852645	40	852708	40
852646	40	852709	40
852647	40	852843	40
852648	40	852844	40
852649	40	852845	40
852650	40	852846	35
852651	40	852847	60
852652	40	852848	60
852653	40	852849	60
852654	40	852850	60
852655	40	852851	60
852656	40	852852	60
852657	40		

LANGMUIR



LEGEND

CANCELLED
PATENTED LAND



BLACKSTOCK

