



41P15NE8487 14 CAIRO

010

Diamond Drilling

Township of CAIRO

Report No: 14

Work performed by: Texasgulf Canada Limited

Claim No	Hole No	Footage	Date	Note
L 429222	C-51-1	478.0'	Apr/76	(1)
L 429219	C-51-2	585.0'	May/76	(1)

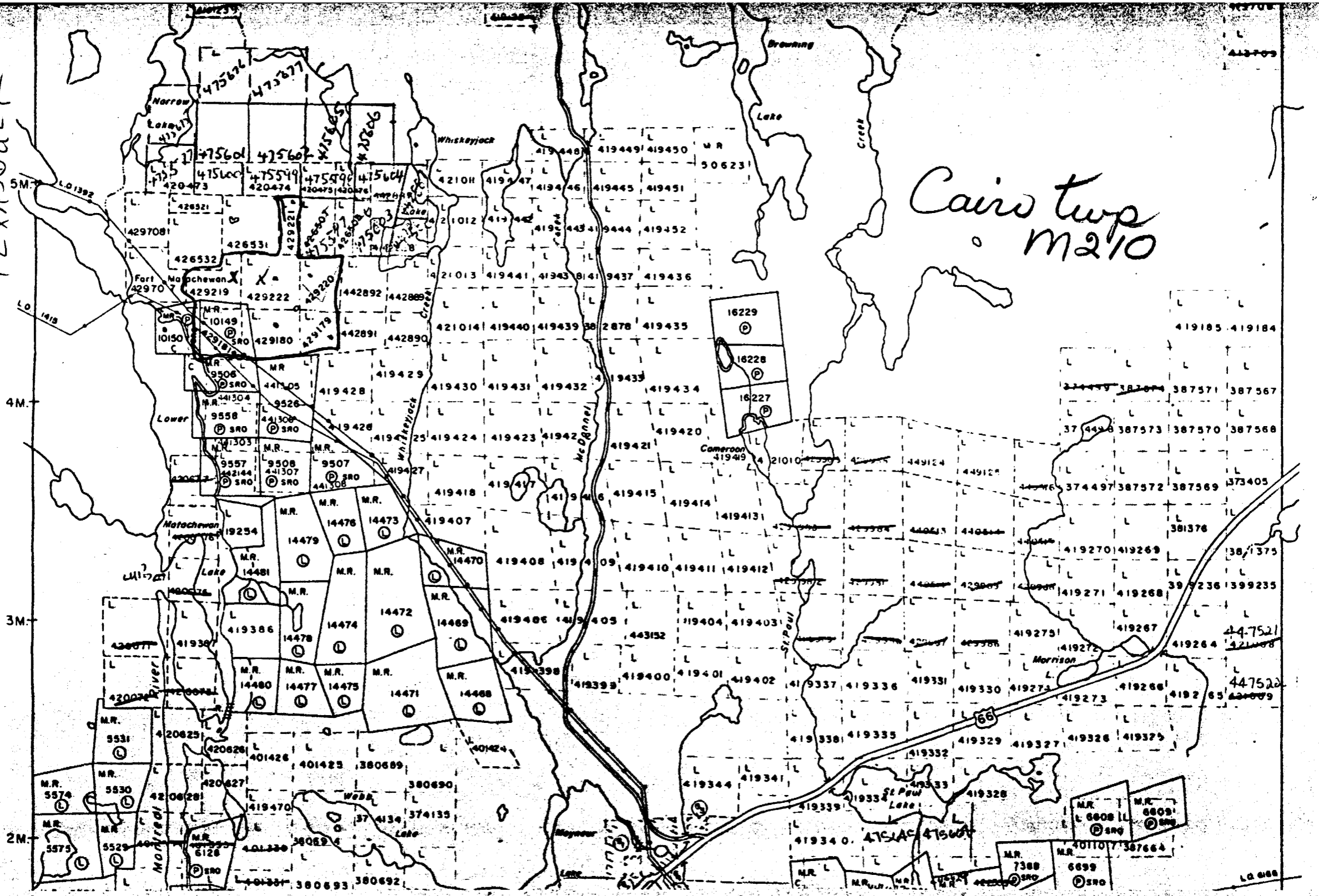
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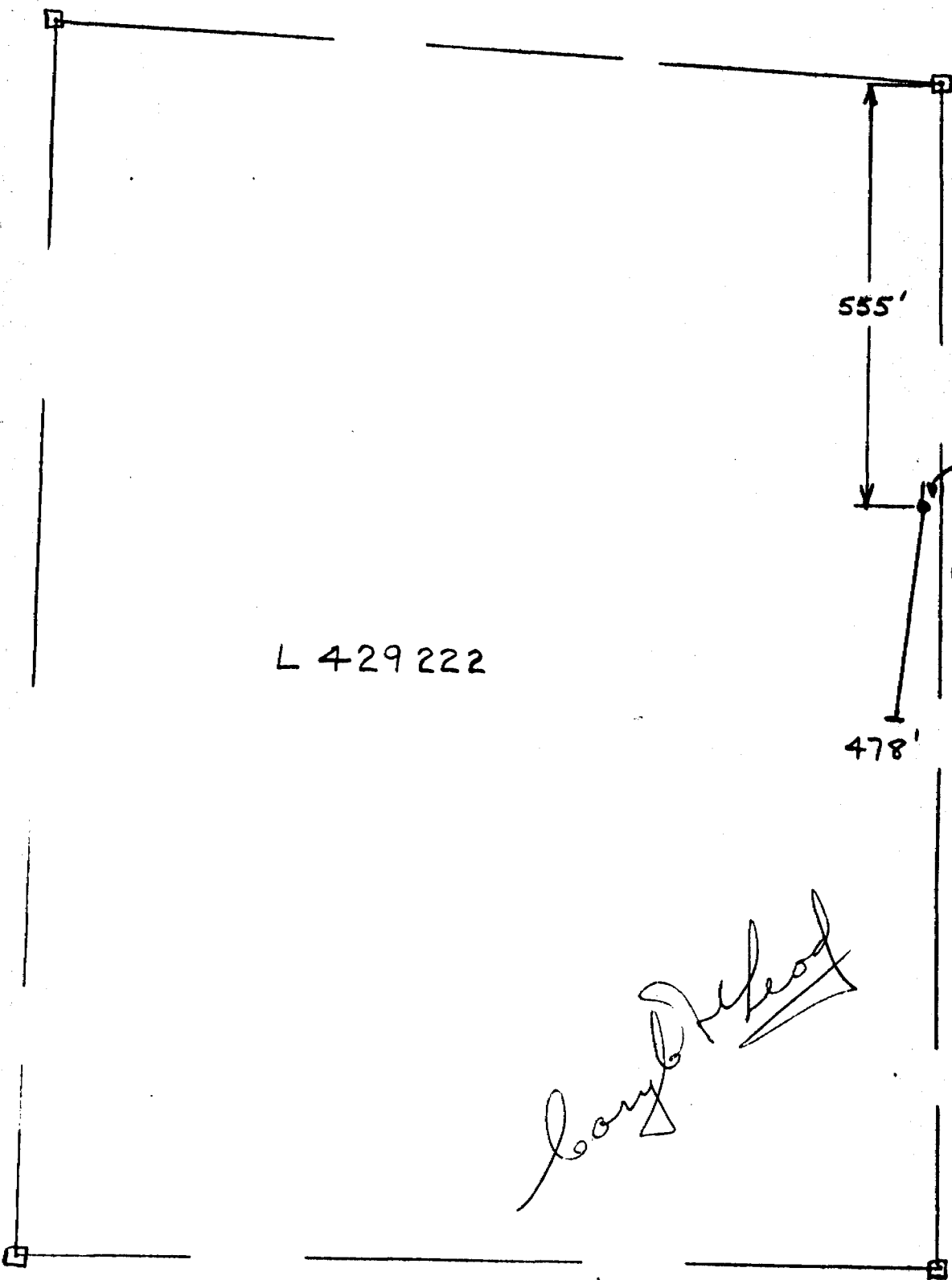
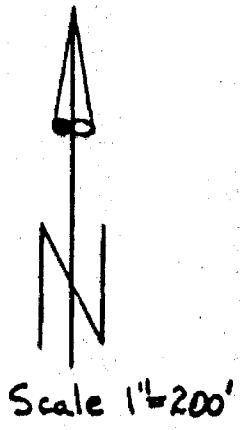
(1) #204-76

CAIRO TWP.
204-76
TEXAS OIL F

Powell Twp. - M.241

Cairo Twp
M210



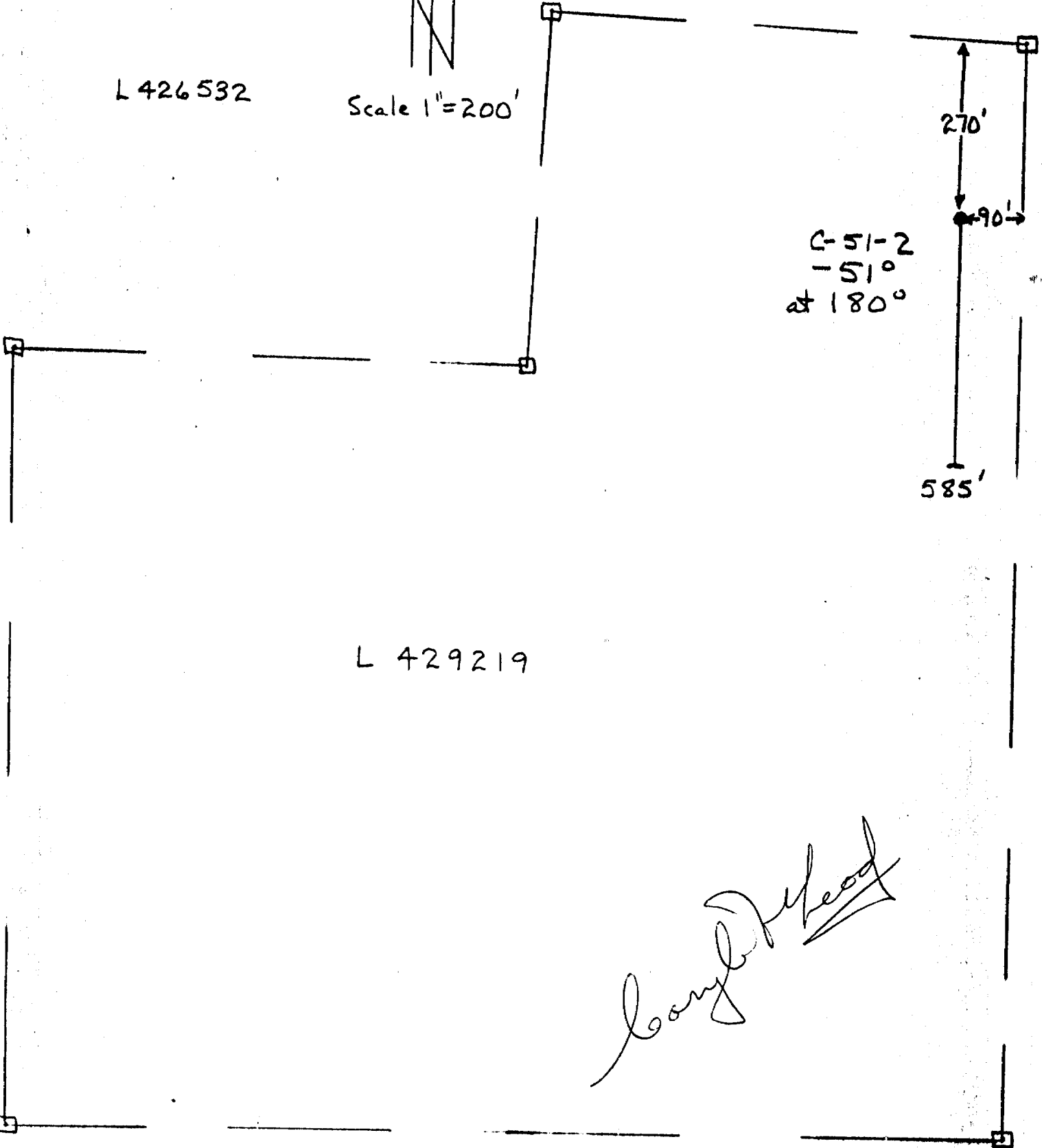


L 429222

Long Road

L 426532

Scale 1"=200'



G-51-2
-51°
at 180°

270'
90'
585'

L 429219

Cory D. Hood

PROPERTY Cairo 51

PROJECT 05

TEXASGULF

CONTRACTOR Bradley Bros. START 6/4/76 FINISH 2/27/76

HOLE No. C-51-1 LAT. 18+30E

DEP. 21+70S

ELEV. _____ LOC. _____

AZ. 185° ANGLE -54° DEPTH 478 CASING 20

FROM - TO	DESCRIPTION	SAMPLE No.	FROM - TO	SAMPLE LENGTH	Geochemical ASSAYS				AVERAGES AND Au REMARKS	
					Cu	Pb	Zn	Ag		
					ppm	ppm	ppm	ppm	ppb	
0	20									
20	24.5									
24.5	83									
		C-1	70	75	5	96	40	220	1.7	5
		C-2	83	88	5	180	975	7200	3.1	15
83	152									
		C-3	93	98	5	237	123	2140	1.9	25
		C-4	103	108	5	161	62	770	1.4	5
		C-5	113	118	5	142	63	900	1.7	10
		C-6	123	128	5	158	455	2540	1.5	15

LOGGED BY: John Watkins DATE: May 3, 1976

PROPERTY Cairo 51 HOLE No. C-51-1 PAGE No. 1

FROM - TO	DESCRIPTION	SAMPLE No.	FROM - TO	SAMPLE LENGTH	GEOCHEM ASSAYS				AVERAGES AND REMARKS		
					Cu	Pb	Zn	Ag		Au	
					ppm	ppm	ppm	ppm	ppb		
83	152	(con't) disseminations.									
		- 1% pyrite as cubic dissemination	C-7	133	138	5	127	345	1400	1.8	25
		- minor chalcopyrite as fine dissemination with pyrrhotite	C-8	143	148	5	361	58	355	3.3	30
		- trace of sphalerite and galena in quartz-carbonate stringers and along fracture planes.									
		Lower contact broken									
152	153.5	ANDESITE: medium grey green, fine grained, uniform and massive, Sulphide: <1% disseminated cubic pyrite	C-9	154	160	6	188	118	1800	1.7	15
		Lower contact sharp at 60° to C.A. and chill over 2cm.									
153.5	167.5	CARBONACEOUS ARGILLITE AND CHERT: as before, 1% irregular quartz-carbonate stringers.	C-10	162	167.5	5.5	158	170	2200	1.7	20
		Sulphides: 1-2% pyrrhotite as round clasts up to 1cm and as irregular blotches and stringers.									
		- trace of chalcopyrite and sphalerite									
		Lower contact sharp but irregular.									
167.5	256.5	DACITE-RHYODACITE: medium grey with greenish grey sections, fine grained to aphanitic, hard, weakly to moderately effervescent, sections up to 2 feet of lighter, auto-brecciated material, becomes less felsic looking with depth.	C-11	180	182	2	60	23	175	1.0	5
		Sulphides: averages 1-2% disseminated pyrite throughout unit, trace of galena	C-12	210	212	6	108	38	150	1.8	40
		- at 210.5: 6cm section of nodules pyrite with nodules up to 2cm	C-13	236	242	6	40	140	270	1.7	25
		- from 236 to 242: zone of auto-brecciation and bleaching containing up to 10% cubic pyrite occurring between breccia fragment, specks									

FROM - TO	DESCRIPTION	SAMPLE No.	FROM - TO	SAMPLE LENGTH	Geochem ASSAYS				AVERAGES AND REMARKS	
					Cu	Pb	Zn	Ag		
					ppm	ppm	ppm	ppm	ppb	
167.5	256.5 (con't)									
	of galena noted .									
	Lower contact broken									
256.5	300 ANDESITE (?): medium grey green, fine grained, has a meely texture throughout	C-14	260	262	2	38	20	135	1.2	5
	with patches and irregular seams of chlorite; possibly the same unit as above									
	but chloritized. Weakly effervscent.									
	Sulphides: < 1% disseminated cubic pyrite.									
	Lower contact gradational.									
300	408 ANDESITE-DACITE: medium grey green with mottled blotches of creamy grey	C-15	352	354	2	15	20	80	0.4	N.D.
	bleached material, up to 10cm, irregular stringers and blotches of dark									
	material which appears to be an amphibole and increases in content with depth ,									
	finely brecciated throughout but more evident in bleached sections, weakly									
	effervscent.									
	Sulphides: minor to narrow section of < 1% disseminated pyrite.									
	Lower contact appears gradational.									
408	437 RHYOLITE: medium grey with creamy grey sections over two feet, finely flow	C-16	412	414	2	176	30	105	1.5	10
	banded - contorted banding, cherty, fine irregular quartz stringers throughout									
	Sulphides: minor disseminated cubic pyrite.									
	Lower contact gradation with the appearance of quartz-feldspar porphyry									
	fragments in rhyolite host.									

LOGGED BY: John Watkins DATE: May 3, 1976

PROPERTY Cairo 51

HOLE No. 6-51-1

PAGE No. 3

Geochem

FROM - TO	DESCRIPTION	SAMPLE No.	FROM - TO	SAMPLE LENGTH	ASSAYS				AVERAGES AND REMARKS		
					Cu	Pb	Zn	Ag			
					ppm	ppm	ppm	ppm	ppb		
437	464	QUARTZ-FELDSPAR PORPHYRY (VOLCANOCLASTIC) medium grey to greyish green Q.F.P. fragments in a feldspar porphyry and quartz-feldspar-porphyry host, feldspar phenocrysts most evident and average 3mm in length, quartz eyes less evident but are up to 4 mm in diameter, grey green fragments are sericitic.	C-17	460	462	2	138	19	85	1.3	5
		Sulphides: minor disseminated pyrite.									
		Lower contact broken.									
464	478	RHYOLITE as before, at 464.5: subround clast of sericitic rhyolite 4cm long.									
		Minor disseminated Py.									
	478	END OF HOLE									
		ACID TESTS									
		200'									
		400'									
		ANGLE (CORRECTED)									
		- 52°									
		- 54°									

PROPERTY Cairo 51PROJECT 05**TENASGULF**CONTRACTOR Bradley Bros.START 4/5/76FINISH 7/5/76HOLE No. C-52-2LAT. 6+00BDEP. 18+30S

ELEV. _____

LOC. _____

AZ. 180°ANGLE -51°DEPTH 585CASING 30

Geochem

FROM - TO	DESCRIPTION	SAMPLE No.	FROM - TO		SAMPLE LENGTH	ASSAYS				AVERAGES AND REMARKS
						Cu	Pb	Zn	Ag	
						ppm	ppm	ppm	ppm	ppb
0	30									
30	78.5	C-18	50	52	2	87	49	188	1.2	10
78.5	79.4	C-19	78.5	79.4	0.9	405	40	2470	1.5	80
79.4	119.5									

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FROM - TO	DESCRIPTION	SAMPLE No.	FROM - TO	SAMPLE LENGTH	Geochem ASSAYS				AVERAGES AND REMARKS		
					Cu	Pb	Zn	Ag			
					ppm	ppm	ppm	ppm	ppb		
119.5	122.5	CARBONACEOUS ARGILLITE: black, fine grained, banding poorly developed, 5% irregular quartz carbonate fracture filling.	C-20	119.5	122.5	3	280	53	3650	1.7	45
		Sulphide: 3% Py and Po as irregular stringers, blotches and occasional nodule, trace chalcopyrite as fine disseminations.									
		Lower contact gradational									
122.5	124.5	DACITE (ANDESITE?) as before. Sulphide: 1% py. as narrow irregular stringers									
		Lower contact sharp at 50° to C.A.									
124.5	131	CARBONACEOUS ARGILLITE: black, more siliceous than before with narrow, light grey more siliceous beds. 5% irregular quartz-carbonate stringers.	C-21	124.5	131	5.5	117	62	1260	1.0	20
		Sulphides: 3-5% sulphides mainly as pyrite occurring as fine fracture fillings and blotches, trace of chalcopyrite and a trace of arsenopyrite.									
		Lower contact sharp at 60° to C.A.									
131	218	DACITE-ANDESITE: medium grey to medium grey green, 5% irregular quartz-carbonate stringers, sections of spotted chlorite increasing with depth.	C-22	196	198	2	69	176	336	1.5	15
		Sulphides: 1% ^{Py} As fine stringer and disseminations.									
		Lower contact broken.									
218	230.5	Rhyolite: medium creamy grey, cherty aphanitic, relict dark grey patches, faint indication of banding, finely fractured throughout.	C-23	224	226	2	64	20	121	0.8	15
		from 220 to 222, 223 to 223.4, 228 to 228.5 - fine grained, uniform dacite.	C-24	290	294	4	57	40	208	1.0	20
			C-25	300	304	4	99	31	434	1.1	20
		Sulphide: 1-2% pyrite occurring mainly as fine fracture filling									

FROM - TO	DESCRIPTION	SAMPLE No.	FROM - TO	SAMPLE LENGTH	ASSAYS				AVERAGES AND REMARKS
					Cu	Pb	Zn	Ag	
					ppm	ppm	ppm	ppm	ppb
218 230.5	(con't) Lower contact broken								
230.5 289.5	ANDESITE-DACITE: medium grey to medium grey green, 5-10% irregular quartz carbonate stringers. from 260 to 289.5: irregular chloritic seams and slip planes start to develop and increase with depth. Sulphide: 1-2% pyrite as fine disseminated and irregular fracture fillings. Lower contact sharp at 30° to C.A.								
289.5 294.5	CARBONACEOUS ARGILLITE: black, 15% irregular quartz-carbonate stringers Sulphides: 5% Py and Po with a trace of chalcopyrite Lower contact broken.								
294.5 296	BRECCIATED ANDESITE-DACITE : medium grey green, tectonically fractured with 10% carbonaceous material as fracture filling. Sulphides: 2-3% Py (Po) Lower contact broken.								
296 317	CARBONACEOUS ARGILLITE: as before ; 5% quartz-carbonate stringers Sulphides: 5% - Py (Po) minor Cp. Lower contact broken.								
317 319	BRECCIATED ANDESITE-DACITE: as before 5% Py.								
319 320	CARBONACEOUS SILICEOUS ARGILLITE: black, fine grained, 15% fine irregular quartz-carbonate stringers.								

LOGGED BY: John Watkins DATE: May 3, 1976PROPERTY Cairo 51HOLE No C-51-2 PAGE No. 3

FROM - TO	DESCRIPTION	SAMPLE No.	FROM - TO	SAMPLE LENGTH	Geochem ASSAYS				AVERAGES AND Au REMARKS	
					Cu ppm	Pb ppm	Zn ppm	Ag ppm		
319	320									
	(con't)									
	Lower contact broken									
320	329									
	BRECCIATED DACITE with CARBONACEOUS SEAMS: tectonically brecciated with carbonaceous material as fracture filling, faint banding in some of the dacite fragments at 60° to C.A., very weakly effervscent.									
	Sulphides: 3-5% pyrite as blotchy disseminations and stringers.									
	Lower contact broken.									
329	335									
	ANDESITE-DACITE: medium grey, fine grained, finely uniform, non-effervscent.									
	Sulphides: 2% pyrite as disseminated and fine stringers.									
	Lower contact marked by one inch quartz-carbonate vein at 45° to C.A.									
335	337	C-26	335	337	2	43	62	106	1.7	40
	SILICEOUS-CARBONACEOUS SEDIMENT: dark grey to black, finely banded, strongly contorted and broken.									
	Sulphides: -5% pyrite as irregular blotches, stringers.									
	Lower contact appears gradational.									
337	341									
	ANDESITE-DACITE: as before, coarsely fractured throughout.									
	Sulphides: 3-5% pyrite as irregular blotches and stringers.									
341	364	C-27	341	345	4	150	248	1460	1.9	15
	CARBONACEOUS DACITE BRECCIA: dark grey, fine grained, finely brecciated throughout, 5% fine irregular quartz-carbonate stringers.									
	Sulphides: 5-8% pyrite mainly as fine irregular stringers.									
	Lower contact broken									

FROM - TO	DESCRIPTION	SAMPLE No.	FROM-TO		SAMPLE LENGTH	Geochem ASSAYS				AVERAGES AND REMARKS
						Cu ppm	Pb ppm	Zn ppm	Ag ppm	
364	381	C-28	364	366	2	174	53	3300	1.7	20
	DACITE: unit is strongly deformed, up to 5% irregular quartz-carbonate stringers, unit becomes less carbonaceous with depth, bedding variable but appears to average 45° to C.A.									
	Sulphides: 5% pyrite as irregular stringers									
	Lower contact broken: gradational									
381	386.5									
	DACITE: medium grey, fine grained, finely fractured, 2% quartz-carbonate stringers.									
	Sulphides: 2% fine stringers of pyrite.									
	Lower contact broken.									
386.5	443	C-29	396	398	2	126	590	1590	2.5	20
	CARBONACEOUS HORIZON: predominantly black carbonaceous argillite, with short sections containing tectonically deformed dacite units and siliceous rich									
	sediments, tectonic stretching and shearing appears to parallel core axis, 5-10% irregular quartz-carbonate stringers.									
	Sulphides: unit averages 5% pyrite as irregular stringers and blotchy disseminations, trace of chalcopyrite.									
	Lower contact broken at 80° to C.A.									
443	449									
	ANDESITE: medium grey, fine grained, finely mottled, uniform.									
	Sulphides: 1% disseminated py.									
	Lower contact sharp at 45° to C.A.									

LOGGED BY: John Watkins DATE: May 3, 1976

PROPERTY Cairo 51

HOLE NC-51-2

PAGE No 5

FROM - TO		DESCRIPTION	SAMPLE No.	FROM - TO		SAMPLE LENGTH	Geochem ASSAYS				AVERAGES AND REMARKS	
							Cu	Pb	Zn	Ag	Au	
449	463	CARBONACEOUS ARGILLITE: as before, minor, narrow dacitic sections 3-5% irregular quartz-carbonate stringers. Sulphides: 5% pyrite as irregular stringer, trace of chalcopyrite Lower contact broken.	C-31	456	458	2	ppm 130	ppm 195	ppm 3450	ppm 1.9	ppb 60	
463	535	DACITE: grading from dark grey (carbonaceous) to a medium grey with depth, fine grained, fairly fractured throughout decreasing in intensity towards lower contact, 5% irregular quartz-carbonate stringers Sulphide: 1% disseminated Py. Lower contact broken.	C-32	476	478	2	74	71	218	1.5	10	
535	536	CHLORITIC TUFF: dark grey, tectonically elongated laths of dacite in a predominantly chloritic matrix, foliated at a low angle to core axis. Sulphide: 3% sulphide mainly as disseminated Py., minor chalcopyrite. Lower contact broken, but sheared at 10° to C.A.	C-33	535	536	1	254	34	48	2.0	30	
536	574.5	FELDSPAR PORPHYRY: fine grained to 540 with pink feldspar laths up to 3mm long in a dark grey green matrix, texture becomes distinctly granular and lighter coloured with depth Lower contact is fine grained from 560 to 574.5 feldspathic nature still evident 1-2% quartz-carbonate stringers Sulphide: 1% disseminated pyrite Lower contact broken	C-34	552	554	2	12	62	158	1.4	ND	

LOGGED BY: John Watkins DATE: May 3, 1976

PROPERTY Cairo 51

HOLE N6-51-2

PAGE No. 6

FROM - TO	DESCRIPTION	SAMPLE No.	FROM - TO		SAMPLE LENGTH	-ASSAYS-				AVERAGES AND Au REMARKS	
						Cu	PB	Zn	Ag		
						ppm	ppm	ppm	ppm	ppb	
574.5	585	FELSIC TUFF: dark grey, fine grained-granular, 5% quartz-carbonate veining.	C-35	574.5	580	5.5	237	900	860	5.4	160
		Sulphides: 5% disseminated pyrite., trace of chalcopyrite									
	585	END OF HOLE									
ACID TESTS											
		FOOTAGE			ANGLE (CORRECTED)						
		200'		100	-46°						
		400'		300	-46°						
		585'		492.5	-48°						
<i>J. Watkins</i>											
<i>John Watkins</i>											