PAN AMERICAN PETROLEUM CORPORATION

Post Office Box 68 Hobbs, New Mexico

August 28, 1968

File:

VES-346-986.510

Subject: Application for Salt Water Disposal - Fowler Field

Lea County, New Mexico

Mr. A. L. Porter New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

William Dr. Jan.

Gentlemen:

Pan American Petroleum Corporation respectfully requests administrative approval to dispose of produced water from the Fowler Field into the San Andres formation in the Myers "B" No. 14, located in Unit I, Section 9, Township 24 South, Range 37 East, Lea County, New Mexico. In accordance with Rule 701-C, we are attaching in triplicate hereto our "Application to Dispose of Salt Water By Injection Into Porous Formation". We are also attaching the following:

- A plat showing the location of the proposed injection well and the location of all other wells within a radius of two miles from the proposed injection well with the wells coded showing the completion zone in each well.
- 2. A log of the proposed injection well.
- 3. A diagrammatic sketch of the proposed injection well.
- 4. A water analysis of the produced water to be disposed of and analysis of produced San Andres water from the nearest San Andres production in Littman San Andres Field.

The Myers "B" No. 14, the proposed injection well, was originally drilled as a producing well in the Fowler Devonian Field. The Devonian interval 7730' to 7770' was depleted and squeezed off, with a subsequent completion in the Blinebry interval 5610'-5766'. Currently the well is temporarily abandoned with the above-mentioned perforations open. Prior to conversion to a disposal well, a cement plug from 5550' to 5800' will be placed across the perforations 5610'-5766'. The 5-1/2" casing will be cut and pulled from approximately 5200' and a 100' cement plug will be placed in and out of the 5-1/2" casing stub over the interval 5150'- 5250'. A 100' plug will be placed across

the Glorieta formation from 4900' to 5000'. Water will be disposed of in the open hole San Andres interval 3901' - 4900', through plastic coated tubing and packer. Lost circulation was encountered in this zone during the drilling of the well, and it should readily handle the anticipated daily injection volume of 200 barrels.

The San Andres formation is not oil productive in this general area, with the nearest production located 16 miles north and five miles east in the Littman San Andres Field. Water analyses indicate the chloride content to be 37,000 parts per million in the Elliott Parsel Well No. 4, a Littman San Andres Field well.

Yours very truly,

V. E. Staley Area Superintendent

JFS/jt

Copies to:

Clyde Cooper - Jal, New Mexico
W. K. Byrom - Hobbs, New Mexico
Humble Oil & Refining - Hobbs, New Mexico
Sinclair Oil & Gas Company - Hobbs, New Mexico
N. B. Hunt - Dallas, Texas
Gulf Oil Corporation - Hobbs, New Mexico
Ralph Clarke - Hobbs, New Mexico
Continental Emsco - Hobbs, New Mexico
Skelly Oil Company - Hobbs, New Mexico
Mr. N. S. Whitmore - Fort Worth

NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR			ADDRESS				
Pan American Petrol	eum Corporat	ion	P. O. I	3ox 68,	Hobbs, N	ew Mex	ico
Pan American Petrol	Com Corporat	WELL NO.	FIELD				COUNTY
Myers "B"		14	Fowler	Blineb	ry		Lea
LOCATION	· · · · · · · · · · · · · · · · · · ·						
UNIT LETTER _	; v	VELL IS LOCATED	1650 FEET FF	S 10M THE	outh	LINE AND _	660 FEET FROM TH
East Line, section	9 т	OWNSHIP 24-S	RANGE 37	-E	ирм.		
		CASIN	G AND TUBING DAT	ΓΑ		·	
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEME	NT	TOP OF CEM	ENT	TOP DETERMINED BY
SURFACE CASING			1			.	
	13-3/8	308	400		Circulate	d	
INTERMEDIATE			2950 sx 8%	Ge1			Calculated 120% of
	8-5/8	3901	x 100 sx No	eat	100'	ľ	Caliper Volume
LONG STRING							
	5-1/2	7996	675	5	200	-	Temp. Survey
TUBING	J-1/2	7990	NAME, MODEL AND D				10p. 301.10,
None							
NAME OF PROPOSED INJECTION FOR	RMATION	<u> </u>	TOP OF FORM	ATION		воттом	OF FORMATION
				3850		/,	963
San Andres IS INJECTION THROUGH TUBING, CA	SING OR ANNULUS?	PERFORATIO	NS OR OPEN HOLE? PE		FRVAL (S) OF INI	1	- 303
Tubing	lis wews	Open	HOLE POSE WAS WELL ORIGIN	3901-		1	/
IS THIS A NEW WELL DRILLED FOR DISPOSAL?	i					ZONE OT	L EVER BEEN PERFORATED IN AN HER THAN THE PROPOSED INJEC- NE?
No	Produc	ing well in	Fowler Devon	ian		1.020	Yes
No LIST ALL SUCH PERFORATED INTER Devonian Perfs 7736	-770'. Reta	iner Set at	5920. Bline	bry Per	fs 5610 -	5766	, now open.
Squeeze Perfs with DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA	2) SX CIII.	DEPTH OF BOTTOM	OF NEXT HIGHER		DEPTH OF TO	OP OF NEXT	Lower IS AREA 15 4963'.
1600'			enrose 3586		, -		
ANTICIPATED DAILY MINIMUM INJECTION VOLUME (BBLS.)	500	Close	OSED TYPE SYSTEM		on to be by GR. vity	AVITY OR	Vacuum
ANSWER YES OR NO WHETHER THE ERALIZED TO SUCH A DEGREE AS T	FOLLOWING WATERS A	RE MIN- WATE	ER TO BE DISPOSED OF	NATURAL SAL ZONE	WATER IN DISPO-	ARE WAT	ER ANALYSES ATTACHED?
STOCK, IRRIGATION, OR OTHER GEN	IERAL USE -		Yes	!	Yes	, Y	'es
NAME AND ADDRESS OF SURFACE O	WNER (OR LESSEE, IF	STATE OR FEDERAL L	AND)			<u> </u>	
Clyde Cooper, Jal,	New Mexico						
LIST NAMES AND ADDRESSES OF A		ONE-HALF (1) MILE C	OF THIS INJECTION WEL	L			
Pan American Petrol	oum Cornorat	ion P O B	Roy 68. Hobbs	. New N	Mexico 882	240	
W. K. Byrom - 817 N	. Turner, Ho	obbs, New Mex	K1CO	_			
Humble Oil & Refini	ng, P. O. Bo	0×2100 , Hobb	s, New Mexic	0			n c
Sinclair Oil & Gas			, Hobbs, New	Mexico		Ü	B Aug 20 Ph 3. usi
N. B. Hunt, 1401 E1	m, Dallas, T	Texas 75202					9 # £ 21, 1355
Gulf Oil Corporation	on, P. O. Box	c 670, Hobbs,	, New Mexico				
Ralph Clarke, P. O.	Box 2310, H	lobbs, New Me	exico				
Continental Emsco (Company, P. C). Box 519, F	Hobbs, New Me	xico			
Skelly Oil Company.	P. O. Box 7	730. Hobbs. N	New Mexico				
Skelly Oil Company. HAVE COPIES OF THIS APPLICATION SENT TO EACH OF THE FOLLOWING			EACH OPERAT	OR WITHIN Yes	ONE-HALF MILE	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
ARE THE FOLLOWING ITEMS ATTAC	HED TO PLAT OF AR		ELECTRICAL			DIAGRAS	IMATIC SKETCH OF WELL
ARE THE FOLLOWING ITEMS ATTAC THIS APPLICATION (SEE RULE 701	i		1			i i	
	Yes	3		Yes		1	Yes
Thereby	certify that the in	nformation above is	s true and complete	to the be	st of my know	ledge an	d belief.
	_	Are	ea Superinten	dent		1	August 29, 1968
(Signature	•)		(Title)				(Date)

NOTE: Should waivers from the State Engineer, the surface owher, and all operators within one-half mile of the proposed injection well.

not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days
from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing,
if the applicant so requests. SEE RULE 701.

CONVERSION OF MYERS 'B" WELL NO 14 TO SPIT WATER DISFOSAL

1) SPOT 25 SACKS INCOR CEMBERT FROM 5550 T . 5800 ACROSS BLINEBRY PERTS 2) CUT AND PULL SYE CASING AT 5200' TOP OF CMT 1772 HOLE AT 5200 BY TEM. SPRVEY 3) SPOT 20 SACKS OF INCOR CEMENT FROM 5150 TO 5250 IN AND OUT OF 5/2" CASING STUB 308 133/4 CASING 4 SPOT 25 SACKS OF CHMENT FROM 4900 FO 5000 ACROSS TOP OF GLOSIETA CEMENT 8818 CHSING WITH 29505X 9% GEL INCORANO 100 3x INCOR HEAT 1214 HOLE PROPOSED WORK TOP OF SAN ANDRES 3950 3901 8% CASING WATER DISPOSAL IN OPEN HOLE FROM 3901-4900' SPOT 25 SK CEMIENT __ TOP OF GLORIETA 4963 FROM 4900 - 5000 SPOT 20 SX NAQUIT OF STUB TOP OF CEMENT 5200 CUT XPOLL 5/2 CASING 5200 \$ 5610' FPOT 25 SACKS OF _ BLINEBRY PERPS CEMENT FROM 5550 - 5900 \$ 5766' -778 HOLE RETAINER @ 5920 SQ WESSELEMENT 77730 DEVONIAN PERES \$ 7770' TO 7996 51/2 CASING

PAN AMERIC	AN PETROLEUM CORPORATION	SCALE:
MYERS B" WELL NO 14	FOWLER BUNERCY PIECD	DRG. No. 9/29/40

LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE

FORMATION PARTS PER MILLION COEFFICIENT CALCIUM MAGNESIUM PARTS PER MILLION REACTION COEFFICIENT VALUE 76	SECTION	COUNTY_LE	A	STATE N M
PARTS PER MILLION REACTION COEFFICIENT VALUE CALCIUM 6600 .04991 3.29 MAGNESIUM 920 .08224 76 SODIUM 15,300 .04348 665 R2 O3 .05373 CHLORIDE 37,000 .02820 /04/1 SULPHATE .02082	POOL LITT MA	N DEPTH		_ M.X. No
CALCIUM 6600 .04991 3.29 MAGNESIUM 920 .08224 76 SODIUM 15,300 .04348 665 R2 O3 .05373 CHLORIDE 37,000 .02820 1041 SULPHATE .02082	FORMATION			
MAGNESIUM 920 .08224 76 SODIUM 15,300 .04348 665 R₂O₃ .05373 CHLORIDE 37,000 .02820 1041 SULPHATE .02082		PARTS PER MILLION		REACTION VALUE
SODIUM 15,300 .04348 665 R2 O3 .05373 .02820 1041 SULPHATE .02082 .02082	CALGIUM	6600	.04991	329
R ₂ O ₃ .05373 CHLORIDE 37,000 .02820 1041 SULPHATE .02082	MAGNESIUM	920	.08224	76
R ₂ O ₃ .05373 CHLORIDE 37,000 .02820 1041 SULPHATE .02082	SODIUM	15,300	.04348	665
SULPHATE .02082	R2 O3		.05373	
SULPHATE .02082	CHLORIDE	37.000	.02820	1041
BICARBONATE 1760 .01639 29	SULPHATE		.02082	
	BICARBONATE	1760	.01639	29
CCCO.	CARRIONATE			
TOTAL SPECIFIC GRAVITY 1.045 @	TOTAL		SPECIFIC GRAV	TY 1.045 @ 85
Oil have	0	1600	•	• • • • • • • • • • • • • • • • • • • •
PH.6.2	T P	1.072		

ON AMERICAN PETROLEUM CORPORTION

WATER ANALYSIS

LOCATION SAMPLED: Division Fort Wor	th District	Lubbock	Area	Hobbs	
Operator (Plant) Pan American	Well No.	3 Lease	State "D	ii .	
State (Province) New Mexico	County (Parish)	<u>,ea</u>			
Twp Rng Sec					
Tarrior Dorronian			Wildcat	() Field	Well (X)
Field name Fowler Devonian					
Sample collected fromto	Sample collected by _	T• M• MTT	50II	Date	
Recovery	.ey Date tr	ansmitted 8-3-6	7. File:	VES-315-538	
Technical Service request authorized by					
		Technical Servic	e Number:	3094	
	•				ı
ORGANIC CONSTITUENTS in mg/1 BOTTOM MIDDLE TOP MUD		CONVENTIONAL	MAJOR ION	ANALYSIS	
Benzene		Major	% of Total	Reaction	% of Total
Toluene	<u> </u>	lons	Major	Value	Reaction
Phenols HC* Gases	Sodium Na-	mg/1 ¹	10ns 31.26	meq/12 2,221.92	Value 20 ct
AC Gases	Calcium Ca+			439.12	
	Magnesium Mg	++ 2,250	1.38	184.95	
	Potassium K+				19 61
DESCRIPTION OF SAMPLE	Chloride C1		61.20	2,820.00	49.5
DESCRIPTION OF SAMIFLE	Bicarbonate HC	0,- 63	• 04	1.03	
Condition as received	Sulfate SO.	1,200	.73	24.96	
Color				0	0
Odor		163,392			
Suspended solids	·				
Bottom sediment	Total solids by e	vaporation equivalent (Dunla		170,320	mg/:
Oil content	NaCl resistivity e	equivalent (Dunla	p)	164,556	mg/
QUALITY OF SAMPLE	Resistivity	•054 of Specific gravity	nm-meters at		°]
Chloride BOTTOM MIDDLE TOP	Pri C.O	_ Specific gravity <u>:</u> index (2pHs–pH)	L· LL at		°]
		mdex (2pms-pm)	at		
Comments on quality		OTHER IONS AN	D DISSOLVE	ED SOLIDS	
Comments on quarky		g/1 ANIONS			mg/1
	Lithium Li+	Bromide Br		Iron Fe	
		Iodide I-		Boron B	
				Silica SiO2	
					
Data previously reported on Form 66 7-62 under the	heading PPM was actually	in milligeame nee lie	er Bu definition	on one — ma/1	len as
² meq/1 means milligram equivalents per liter.	neading 1.1 was actually	in ininigrams per in	er. by definition	on, ppm = mg/1	/sp. gr.
DEMARKS AND CONSUMERONS.					
REMARKS AND CONCLUSIONS:					
					
		· · · · · · · · · · · · · · · · · · ·			
					
cc: Date	received 8-22-67	Field sample	e no		
	7 7	Lab. no.	^	15	
Ana	lyst		1	Date9-6-6	67

(Water charts on back)

FORM 66 2-66 PRINTED IN U.S.A.

RESEARCH CENTER

WATER ANALYSIS

LOCATION SAMPLED:	Division	ort Worth	_ District	Lub	hock	Area	Hobbs	
Operator (Plant) Pan State (Province)	American		Well No	24	Lease	Myers "B'	1	
State (Province)	<u>New Maxico</u>	Co	unty (Parish)		Lea			
Twp Rng	Sec	Ou	arter (Lsd.)_		Other	(Meridian)		:
							() Field	
Field name Fowle	er Blinebry			Sam	aple used for	detailed an	alyses	
Sample collected from		Samp	le collected by	, T	. W. Wils	on	Date	
Interval sampled								
Recovery	₹.	E. Staley	Date	transmi	tred 8-3-	67. File	: VEB-316-53	र8
Technical Service request	authorized by		Date	1141131111	Off:	ice	<u> </u>	
Teemine vertice request				Tecl	hnical Service	Number:	3094	
				100	inited out viet			
ORGANIC CONS	TITUENTS in mg/1							
	DLE TOP MUD			CON	VENTIONAL	MAJOR ION	ANALYSIS	
					Major Ions	% of Total Major	Reaction Value	% of Total
					mg/11	lons		Reaction Value
			Sodium 1	Va+	30,813	34.11	1,340.38	
			Calcium C	`a++	2.760	3-06	137.72	<u> </u>
			Magnesium 1	Me++	708	78	<u>58.20</u>	7 80
		3	Potassium I			<u></u>		
		_			50.700	56 13	1,429.74	46.53
DESCRIPTION	N OF SAMPLE	v.	Bicarbonate I			1.16		
C = 11:1: 1		. 5	Sulfate S			4.76		
Condition as received		~	Carbonate (0	0		
Color			TOTAL		90,325		<u>C</u>	0
Odor			TOTAL		90,32)			
Suspended solids							00 1110	
Bottom sediment			lotal solids by	evapor	ation	`	90,440	mg/1
Oil content		N	NaCl resistivity	y equiva ∩88	llent (Dunla <u>r</u>	o)	87,983	mg/1
QUALITY	OF SAMPLE	F	Cesistivity	• 000	oh	m-meters at		
POTTO:		Top F)	Spec	cific gravity_	<u>.i. • OC++</u> at		
	M MIDDLE	101	Cyznar stabilit	y index	(2pHs-pH)	at		°F
				07111	5D 10N0 AN	D D10001 VI	TD 6011D6	
Comments on quality			04710110		ER IONS AN			
	·	 _			ANIONS			mg/1
		<u> </u>	ithium Li+		Bromide Br		Iron Fe	
					Iodide I-		Boron B	
		 -					Silica SiO ₂	
								
								
	 							
Data previously reported	on Form 66 7-62 unde	r the heading P	PM was actual	ly in mil	ligeams per lis	e Bu definiti	on nom mg/1	/sp. as
² meq/1 means milligram	equivalents per liter.	t the neading r.	r.ivi. was actual	iy in mii	ngrams per mo	er. by definition	on, ppm = mg/1	/sp. gr.
REMARKS AND CONCL	USIONS:							
						-		
cc:		Date received	8-22-6	71	Field sample	no		
		_	•		Lab. no		r-18716	
		Analyst	Durk	/			Date 9-6-6	7
			العبدية - جمع <u>- الما يحمد المرا</u> احة ا	~~~			~ · · · · · · · · · · · · · · · · · · ·	

FORM 66 2-66 PRINTED IN U.S.A.

PAN AMERICAN PETROLEUM CORPORATION

RESEAR	СН	CE	NTER
WATER	AN	AL'	YSIS

	h District Lub!	oock	Area	Hobbs	
Operator (Plant) Pan American	Well No	Lease	<u> 30. Matti</u>	x Unit Tre	ater
State (Province) New Mexico	County (Parish)	Lea			
Twp Sec	Quarter (Lsd.)	Other	(Meridian)		
Field name Fowler Lower Faddock (Oil Ri			Wildcat	() Fiel	d Well ()
Field name Fowler Lower Faddock (Oil Ri	<u>.m)</u> Sa	imple used for	detailed an	alyses	
Sample collected fromTreater	_Sample collected by	<u>T. W. Wi</u>	lson	Date	
Interval sampledto	-				
Recovery	Date transr	mitted 8-3-	-67, File	:: VES-318	- 538 - 538
Technical Service request authorized by		Off	ice		
	Te	chnical Service	· Number:_	3094	
					
ORGANIC CONSTITUENTS in mg/1	CO	NVENTIONAL	MAJOR ION	ANALYSIS	
BOTTOM MIDDLE TOP MUD					
Benzene		Major	% of Total	Reaction	% of Total
Toluene		lons mg/11	Major	Value ·	Reaction
Phenols HC Gases	Sodium Na+	$\frac{mg/1}{61,443}$	10ns 33.37	meq/1 ² 2,672.78	Value 41.85
HC Gases					
	Calcium Ca++ Magnesium Mg++	<u>6,800</u>		339.32	<u>5.31</u> 2.84
	Potassium K+	2,210	1.20	<u> 181.66</u>	
	Chloride C1	772 000	60.82	3,158.40	49.45
DESCRIPTION OF SAMPLE	Bicarbonate HCO ₃	<u> </u>		0	0
	Sulfate SO,			35.36	
Condition as received	Carbonate CO ₃	<u> </u>		-	
Color		184,153		<u> </u>	
Odor		<u> </u>			
Suspended solids				180 160	,,
Oil content		valent (Dunlar	- \	185,773	mg/ i
•	Resistivity	•057 ob	m-meters at	77	mg/. °7
QUALITY OF SAMPLE	pH 4.2 Sp				
Chloride BOTTOM MIDDLE TOP					
ion mg/1:					
Comments on quality		HER IONS AN	D DISSOLVE	ED SOLIDS	
	CATIONS mg/1	ANIONS	mg/1	OTHERS	mg/1
	Lithium Li+	Bromide Br		Iron_Fe	***
		Iodide I-		Boron B	
				Silica SiO2	
					
	<u> </u>				
	·				
	dina DDM man amount in ma	illigeams per lis	r Bu definiti	on nom ma/	I /sp. or
1 Data previously reported on Form 66 7-62 under the hea				on, ppm $=$ mg/	r /sp. gr.
Data previously reported on Form 66 7-62 under the heameq/1 means milligram equivalents per liter.	iding r.r.m. was actually in m	imigrams per mo	Dy denimen		
Data previously reported on Form 66 7-62 under the heameq/1 means milligram equivalents per liter.	iding P.F.M. was actually in m	migrams per no	by denime.		
2 meq/1 means milligram equivalents per liter.			Dy definie		
Data previously reported on Form 66 7-62 under the heam med med med med med med med med med me		migranis per ne	27 dem.		
2 meq/1 means milligram equivalents per liter.					
2 meq/1 means milligram equivalents per liter.					
2 meq/1 means milligram equivalents per liter.					
REMARKS AND CONCLUSIONS:					
2 meq/1 means milligram equivalents per liter.		_Field_sample	no		
REMARKS AND CONCLUSIONS:	eceived 8-22-67		no	T-18718	667

FORM 66 2-66 PRINTED IN U.S.A.

PAN AMERICAN PETROLEUM CORPORATION RESEARCH CENTER WATER ANALYSIS

LOCATION SAMPLED:	Division Fort Wor	rth District	Lubbock	Area	asddoH	
Operator (Plant)	Pan American New Mexico	District Well No	Lease	South Matt	ix Unit	
State (Province)	MeM Wexico	County (Parish)		⊥∍a		
TwpRng	z Sec					
	low Fill Carburation		2 1 7 6	Wildcat	() Field	Well (X)
Field name I OW =	ler Ellenburger	C 1 1: 1.1	Sample used to	or detailed and	ilyses	
-	to					
Form 97 transmitted by	V. R. Staley	Date r	ransmirred 8-	3-67, File	: VES-317-6	533
•	t authorized by		Technical Servi	ce Number:_	3094	
	STITUENTS in mg/1		CONVENTIONAL	MAIOD ION	AMALVEIC	
	DLE TOP MUD		CONVENTIONAL	NOI AQUAIN	ANALISIS	
			Major	% of Total	Reaction	% of Total
		· ·	lons	Major	Value	Reaction
Phenols HC Gases		Sodium Na	mg/11 59,642		meq/12	Value 0.5
ITC Gases			<u> </u>		753.49	
		Magnesium Mg	<u> </u>		136.45	
		Potassium K	+			
DESCRIPTI	ON OF SAMPLE		123,000	61.45	3,468.60	19.77
DEOUR!! !!	on or onm EE	Bicarbonate HC	73	<u>. 0</u> 4.	1.20	.02
Condition as received		Sulfate SC	700	35		
	-		<u></u>		()	
			200,175			
					067 000	
		lotal solids by	evaporation equivalent (Dunl		207,000 000 (FW	mg/
Oil content		Resistivity	equivalent (Duni	ap)	777	mg/ °
QUALIT	Y OF SAMPLE	pH 5.9	Specific gravity	7.740 ar		0
Chloride BOTTO	M MIDDLE TOP	Ryznar stability	index (2pHs-pH	()at		0
				,		
Comments on quality			OTHER IONS A	ND DISSOLVE	D SOLIDS	
			ng/1 ANIONS			mg/1
		Lithium Li+	Bromide B	<u>r</u>		
			Iodide I		Boron B Silica SiO ₂	
					Sinca SiO2	
		-				
	P ((- (-)					
Data previously reported meq/1 means milligram	on Form 66 7-62 under the equivalents per liter.	heading P.P.M. was actually	in milligrams per l	iter. By definition	on, $ppm = mg/1$	/sp. gr.
	• •					
			·····		· · · · · · · · · · · · · · · · · · 	<u> </u>
REMARKS AND CONCL	.USIONS:			 		
	· · · · · · · · · · · · · · · · · · ·					
cc:	Date	received 8-22-57	Field samp	le no.		
	Date		Lab. no.	ne no	}771 7	
	Ana	lyst			Date 9 ဂ	67