

Martin Water Laboratories, Inc.

RESULT OF WATER ANALYSES

731 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4321

TO: Mr. Jim Stimmel
104 South Pecos, Midland, Texas

LABORATORY NO. 1277110
SAMPLE RECEIVED 88-11-27
RESULTS REPORTED 12-22-77

COMPANY 20a Oil Producers LEASE Lea #2
FIELD OR POOL Wildcat
SECTION BLOCK SURVEY COUNTY Lea STATE New Mexico
SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Leached water - taken from Loc 52, 12-14-77 pgs 3304-3314

NO. 2

NO. 3

NO. 4

REMARKS: Lower perf. only

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0073			
pH When Sampled				
pH When Received	6.5			
Bicarbonate as HCO_3	2,050			
Supersaturation as CaCO_3				
Undersaturation as CaCO_3				
Total Hardness as CaCO_3	4,201			
Calcium as Ca	1,780			
Magnesium as Mg	204			
Sodium and/or Potassium	405			
Sulfate as SO_4	2,321			
Chloride as Cl	696			
Iron as Fe	72.1			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	6,050			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide				
Resistivity, ohms/m at 77° F.	0.0			
Suspended Oil	0.000			
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The above results show characteristics commensurate with the Reef except for the absence of hydrogen sulfide. Of course, there are many sources of sulfide precipitation and elimination in the initial recovery of any well being tested. We will be anticipating forthcoming samples to give more evidence as to the most probable origin of the water being recovered.

Martin Water Laboratories, Inc.

P. O. BOX 1468
MONAHANS, TEXAS 79756
PHONE 943-3234 OR 563-1040

731 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. C. V. Sivege
104 South Pecos, Midland, Texas

LABORATORY NO. 578162
SAMPLE RECEIVED 5-18-78
RESULTS REPORTED 5-19-78

COMPANY RTA Oil Producers

LEASE LEA

FIELD OR POOL

SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE New Mexico

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Recovered water - taken from LGA #5. 5-18-78 pgs 3185-3232

NO. 2 Recovered water - taken from lat #2, 5-10-78 pgs 3176-3198

NO. 3

NO. 4

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0067	1.0084		
pH When Sampled				
pH When Received	6.90	6.73		
Bicarbonate as HCO ₃	634	1,244		
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	3,073	5,000		
Calcium as Ca	770	1,280		
Magnesium as Mg	271	437		
Sodium and/or Potassium	593	2,397		
Sulfate as SO ₄	2,380	2,180		
Chloride as Cl	1,037	5,682		
Iron as Fe	0.00	0.91		
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	5,610	13,720		
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide				
Resistivity, ohms/m at 77° F.	1,100	2,250		
Suspended Oil	0.25	0.53		
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks Both of the above waters could be classified as Reef water in the area. It should be clarified that Reef waters vary substantially from well-to-well and even sometimes from time to time in a single well. These results give evidence to the effect that both of these are Reef water, but very likely originating from different intervals.

23 U.S. B.W. Dinwiddie	24 Amoco B.T.A. U.S. M.I. Chambers, Est. et al B.W. Dinwiddie 1/2 (SW) 2 (NE) 4	25 Superior 2-1-82 14804 U.S. M.I. Sam Beckham	26 Amoco 14007 U.S.	27 Phillips 8-1-82 16364 U.S. M.I. Sam Beckham	28 U.S. M.I. Sam Beckham	29 U.S. M.I. Sam Beckham	30 U.S. M.I. Sam Beckham	31 U.S. M.I. Sam Beckham	32 U.S. M.I. Sam Beckham	33 U.S. M.I. Sam Beckham	34 U.S. M.I. Sam Beckham	35 U.S. M.I. Sam Beckham
36 U.S. M.I. Sam Beckham	37 U.S. M.I. Sam Beckham	38 U.S. M.I. Sam Beckham	39 U.S. M.I. Sam Beckham	40 U.S. M.I. Sam Beckham	41 U.S. M.I. Sam Beckham	42 U.S. M.I. Sam Beckham	43 U.S. M.I. Sam Beckham	44 U.S. M.I. Sam Beckham	45 U.S. M.I. Sam Beckham	46 U.S. M.I. Sam Beckham	47 U.S. M.I. Sam Beckham	48 U.S. M.I. Sam Beckham
49 U.S. M.I. Sam Beckham	50 U.S. M.I. Sam Beckham	51 U.S. M.I. Sam Beckham	52 U.S. M.I. Sam Beckham	53 U.S. M.I. Sam Beckham	54 U.S. M.I. Sam Beckham	55 U.S. M.I. Sam Beckham	56 U.S. M.I. Sam Beckham	57 U.S. M.I. Sam Beckham	58 U.S. M.I. Sam Beckham	59 U.S. M.I. Sam Beckham	60 U.S. M.I. Sam Beckham	61 U.S. M.I. Sam Beckham
62 U.S. M.I. Sam Beckham	63 U.S. M.I. Sam Beckham	64 U.S. M.I. Sam Beckham	65 U.S. M.I. Sam Beckham	66 U.S. M.I. Sam Beckham	67 U.S. M.I. Sam Beckham	68 U.S. M.I. Sam Beckham	69 U.S. M.I. Sam Beckham	70 U.S. M.I. Sam Beckham	71 U.S. M.I. Sam Beckham	72 U.S. M.I. Sam Beckham	73 U.S. M.I. Sam Beckham	74 U.S. M.I. Sam Beckham
75 U.S. M.I. Sam Beckham	76 U.S. M.I. Sam Beckham	77 U.S. M.I. Sam Beckham	78 U.S. M.I. Sam Beckham	79 U.S. M.I. Sam Beckham	80 U.S. M.I. Sam Beckham	81 U.S. M.I. Sam Beckham	82 U.S. M.I. Sam Beckham	83 U.S. M.I. Sam Beckham	84 U.S. M.I. Sam Beckham	85 U.S. M.I. Sam Beckham	86 U.S. M.I. Sam Beckham	87 U.S. M.I. Sam Beckham
88 U.S. M.I. Sam Beckham	89 U.S. M.I. Sam Beckham	90 U.S. M.I. Sam Beckham	91 U.S. M.I. Sam Beckham	92 U.S. M.I. Sam Beckham	93 U.S. M.I. Sam Beckham	94 U.S. M.I. Sam Beckham	95 U.S. M.I. Sam Beckham	96 U.S. M.I. Sam Beckham	97 U.S. M.I. Sam Beckham	98 U.S. M.I. Sam Beckham	99 U.S. M.I. Sam Beckham	100 U.S. M.I. Sam Beckham



RECEIVED AUG 9 1978

PARTNERS
CARLTON BEAL
CARLTON BEAL, JR.
BARRY BEAL
SPENCER BEAL
KELLY BEAL

BTA OIL PRODUCERS

104 SOUTH PECOS
MIDLAND, TEXAS 79701
AC 915-682-3753

August 7, 1978

Re: Waiver of Objection - Salt Water Disposal Well
BTA - 7406 JV-S Lea "20", Well #1
Unit Ltr. -P-, Sec. 20, Twp. 26-S, Rge 36-E
Lea County, New Mexico

STATE OF NEW MEXICO
DEPARTMENT OF ENERGY AND MINERALS
Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico 88240

Attention: Mr. Jerry Sexton

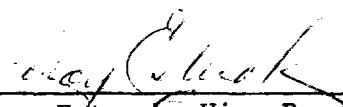
Gentlemen:

We have been advised by BTA Oil Producers of their application to convert the captioned well to a salt water disposal well. Please be advised that the undersigned hereby waives objection to the application.

Sincerely,

and

FLUOR OIL / GAS CORPORATION

BY: 

Leroy Esterak, Vice President

DATE: 8-8-78



BTA OIL PRODUCERS

PARTNERS
CARLTON BEAL
CARLTON BEAL, JR.
BARRY BEAL
SPENCER BEAL

104 SOUTH PECOS
MIDLAND, TEXAS 79701
AC 915-682-3753

August 11, 1978

Re: Application for Salt Water Disposal
BTA - 7406 JV-S Lea "20", Well #1
Unit Ltr -P-, Sec. 20, T-26-S, R-36-E
Lea County, New Mexico

STATE OF NEW MEXICO
DEPARTMENT OF ENERGY AND MINERALS
Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico 88240

Attention: Mr. Jerry Sexton

Jerry,

BTA Oil Producers respectfully request that the attached application be administratively approved at the earliest possible date.

Please contact me directly if I may be of assistance.

Yours very truly,

BOB K. NEWLAND
For BTA Oil Producers

BKN/dh

Attachment: SWD Application



BTA OIL PRODUCERS

PARTNERS
CARLTON BEAL
CARLTON BEAL, JR.
BARRY BEAL
SPENCER BEAL
KELLY BEAL

104 SOUTH PECOS
MIDLAND, TEXAS 79701
AC 915-682-3753

August 7, 1978

Re: Waiver of Objection - Salt Water Disposal Well
BTA - 7406 JV-S Lea "20", Well #1
Unit Ltr. -P-, Sec. 20, Twp. 26-S, Rge 36-E
Lea County, New Mexico

STATE OF NEW MEXICO
DEPARTMENT OF ENERGY AND MINERALS
Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico 88240

Attention: Mr. Jerry Sexton

Gentlemen:

We have been advised by BTA Oil Producers of their application to convert the captioned well to a salt water disposal well. Please be advised that the undersigned hereby waives objection to the application.

Sincerely,

HNG OIL COMPANY

BY: *J. Stuart Martin*

DATE: 8-9-78



BTA OIL PRODUCERS

PARTNERS
CARLTON BEAL
CARLTON BEAL, JR.
BARRY BEAL
SPENCER BEAL
KELLY BEAL

104 SOUTH PECOS
MIDLAND, TEXAS 79701
AC 915-682-3753

August 7, 1978

Re: Waiver of Objection - Salt Water Disposal Well
BTA - 7406 JV-S Lea "20", Well #1
Unit Ltr. -P-, Sec. 20, Twp. 26-S, Rge 36-E
Lea County, New Mexico

STATE OF NEW MEXICO
DEPARTMENT OF ENERGY AND MINERALS
Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico 88240

Attention: Mr. Jerry Sexton

Gentlemen:

We have been advised by BTA Oil Producers of their application to convert the captioned well to a salt water disposal well. Please be advised that the undersigned hereby waives objection to the application.

Sincerely,

HUDSON & HUDSON, et al

BY: *E. R. Hudson*

DATE: 8-9-78



BTA OIL PRODUCERS

PARTNERS
CARLTON BEAL
CARLTON BEAL, JR.
BARRY BEAL
SPENCER BEAL
KELLY BEAL

104 SOUTH PECOS
MIDLAND, TEXAS 79701
AC 915-682-3753

August 7, 1978

Re: Waiver of Objection - Salt Water Disposal Well
BTA - 7406 JV-S Lea "20", Well #1
Unit Ltr. -P-, Sec. 20, Twp. 26-S, Rge 36-E
Lea County, New Mexico

STATE OF NEW MEXICO
DEPARTMENT OF ENERGY AND MINERALS
Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico 88240

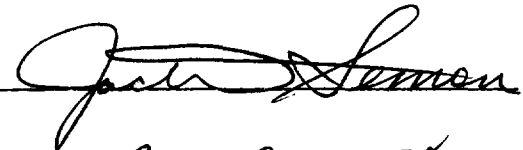
Attention: Mr. Jerry Sexton

Gentlemen:

We have been advised by BTA Oil Producers of their application to convert the captioned well to a salt water disposal well. Please be advised that the undersigned hereby waives objection to the application.

Sincerely,

MARALO, INC.

BY: 

DATE: Aug 9, 1978



BTA OIL PRODUCERS

PARTNERS
CARLTON BEAL
CARLTON BEAL, JR.
BARRY BEAL
SPENCER BEAL
KELLY BEAL

104 SOUTH PECOS
MIDLAND, TEXAS 79701
AC 915-682-3753

August 7, 1978

Re: Waiver of Objection - Salt Water Disposal Well
BTA - 7406 JV-S Lea "20", Well #1
Unit Ltr. -P-, Sec. 20, Twp. 26-S, Rge 36-E
Lea County, New Mexico

STATE OF NEW MEXICO
DEPARTMENT OF ENERGY AND MINERALS
Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico 88240

Attention: Mr. Jerry Sexton

Gentlemen:

We have been advised by BTA Oil Producers of their application to convert the captioned well to a salt water disposal well. Please be advised that the undersigned hereby waives objection to the application.

Sincerely,

PATRICIA BECKHAM

Lessee

BY: Patricia Beckham

DATE: Aug. 14, 1978